



## TECHNICAL GUIDE

**R-410A**  
**ZT/ZB SERIES**  
**3 - 12.5 TON**  
**60 Hertz**



## Description

### 3-Stage Cooling High Efficiency

### Ultra-High Efficiency

Pro units are convertible single packages with a common footprint cabinet and common roof curb for all 3 through 12.5 ton models. The units are designed for light commercial applications and can be easily installed on a roof curb, slab, or frame.

All Pro units are self-contained and assembled on rigid full perimeter base rails allowing for 3-way forklift access and overhead rigging. Every unit is completely charged, wired, piped, and tested at the factory to provide a quick and easy field installation.

Pro units in all tonnage sizes are convertible between side airflow and down airflow, with corresponding economizer if you require the economizer option.

Pro units are available in the following configurations: cooling only, cooling with electric heat, and cooling with gas heat. Electric heaters are available as factory-installed options or field-installed accessories.

All units meet ASHRAE 90.1 single-zone variable supply air volume standard. Featuring a variable frequency drive on 3 through 12.5 ton ZT and 6.5 ton to 12.5 ton ZL models.

Patents: <https://jciapat.com>

Tested in accordance with:



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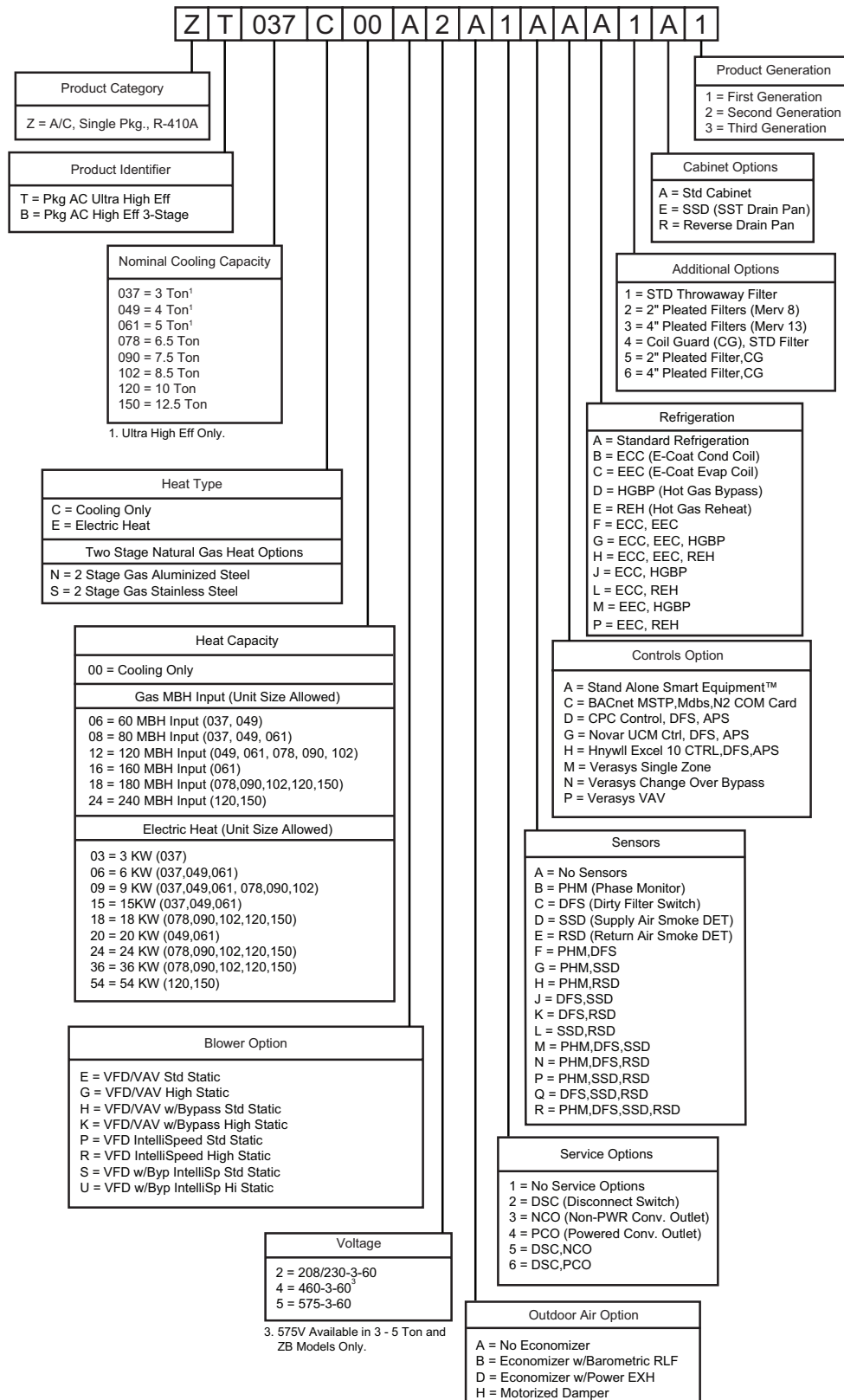
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Product highlights

- Smart Equipment™ Controls: streamlines commissioning, integration, and service
- Two independent refrigeration circuits for built-in system redundancy and reliability in the 6.5 to 12.5 ton units
- Three stages of cooling in the 6.5 to 12.5 units to meet advanced building code requirements
- High and Ultra-high efficiency in the original Sun™ Pro footprint to facilitate a direct upgrade path
- Optional MagnaDry reheat system
- IntelliSpeed variable frequency drive as standard
- Advanced ECM outdoor motors on Ultra High Efficiency models
- Evaporator coils with sine wave fine geometry for increased unit efficiency on Ultra High Efficiency 6.5 to 12.5 ton units
- Balanced heating
- Convertible airflow design
- Safety monitoring
- Low ambient control
- Anti-short cycle protection
- Fan delays
- Nuisance trip protection and three strikes
- Full perimeter base rails
- Easy installation
- IntelliSpeed or VAV fan control provide a wide range of indoor airflows

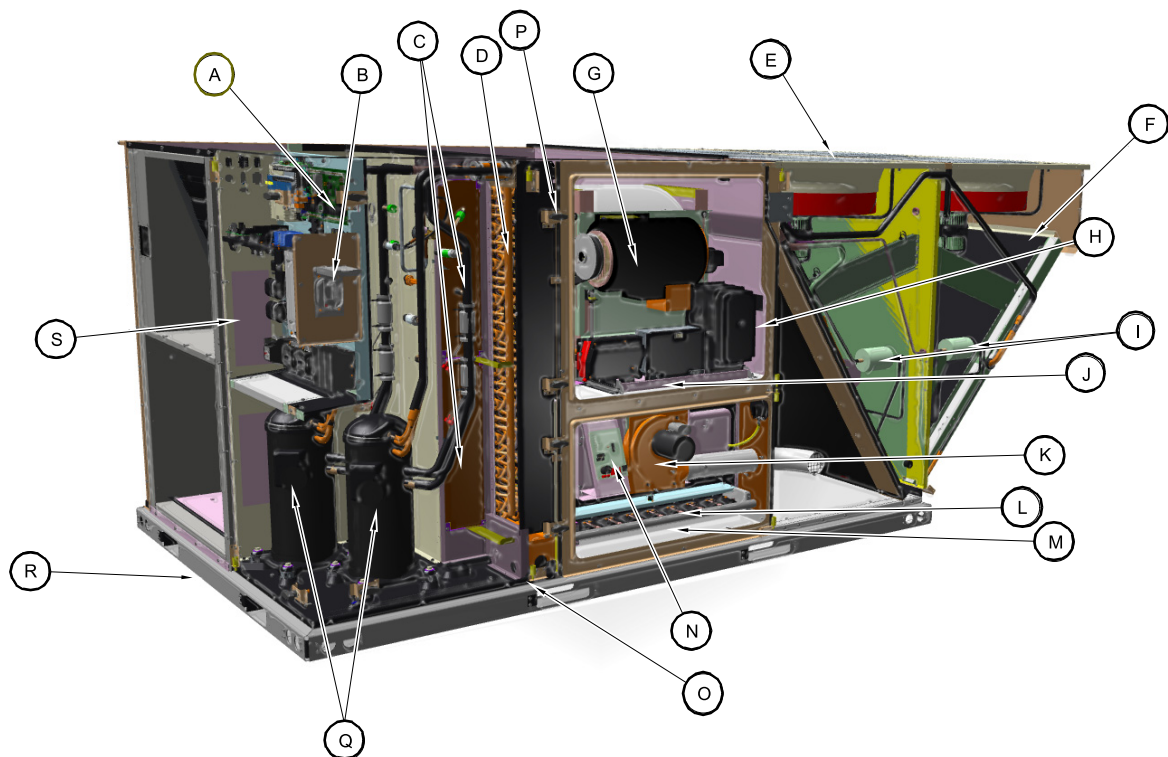
# Nomenclature

## 3-12.5 Ton Model Number Nomenclature



# Component location

ZT078, ZT090, and ZT102 shown



Component location table (click on the call out in the illustration above for a more detailed description)

| Item | Description                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------|
| A    | Smart Equipment™ supply fan controls with IntelliSpeed™. Includes screw connectors for thermostat wiring and network connections |
| B    | Disconnect location, optional disconnection switch                                                                               |
| C    | Filter access, 2-inch or 4-inch filter options                                                                                   |
| D    | High efficiency sine wave fin evaporator coil (ZT units only)                                                                    |
| E    | ECM outdoor fan motor (ZT units only)                                                                                            |
| F    | Micro-channel aluminum tube/aluminum fin condenser                                                                               |
| G    | Premium efficiency belt-drive blower motor                                                                                       |
| H    | Variable frequency drive                                                                                                         |
| I    | Solid core filter drier                                                                                                          |
| J    | Slide-out motor and blower assembly for easy adjustment and service                                                              |

| Item | Description                                                                            |
|------|----------------------------------------------------------------------------------------|
| K    | Power ventor motor                                                                     |
| L    | Two stage gas heating to maintain a warm, comfortable temperature                      |
| M    | 20-gauge aluminized steel tubular heat exchanger for long life. Stainless steel option |
| N    | Intelligent control board for safe and efficient operation                             |
| O    | Drain pan with 1-inch NPT connection                                                   |
| P    | Toolless door latch                                                                    |
| Q    | Compressor access                                                                      |
| R    | Base rails with forklift slots (three sides) and lifting holes <sup>1</sup>            |
| S    | Second model nameplate inside hinged access panel                                      |

1. Roof curbs in eight-and fourteen-inch heights. Roof curbs to transition from a Sunline™ footprint to the ZT/ZB Series footprint are available as a field-installed accessory.



## Standard features

This section describes the standard features for ultra-high efficiency 3 to 12.5 ton units.

### Ultra-high efficiency tier

Ultra-high efficiency units reach as high as 17.5 SEER and 14.00 EER for 3 to 5 ton units, and up to 21.2 IEER and 13.1 EER for 6.5 to 12.5 ton units. Gas and electric units have electronic spark ignition and power vented combustion with steady state efficiencies up to 81%. These efficiencies exceed all legislated minimum levels and provide low operating costs.

### 3 Stage Cooling High Efficiency tier

3 stage high efficiency models reach as high as 16.0 IEER and 12.2 EER for 6.5-12.5 ton units.

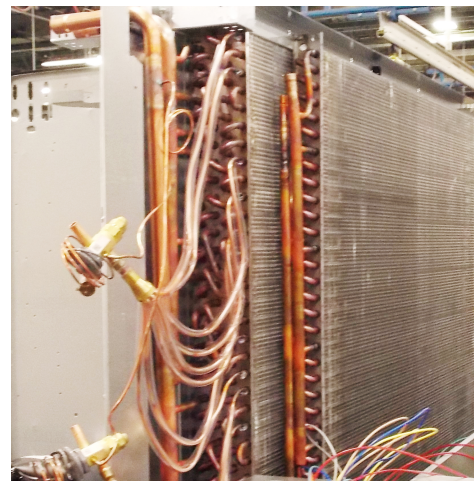
### Two independent refrigeration circuits

Two independent refrigerant circuits provide system redundancy and reliability to give the customer peace of mind. Available on 6.5 to 12.5 ton units only.



### Optional MagnaDry™ dehumidification system

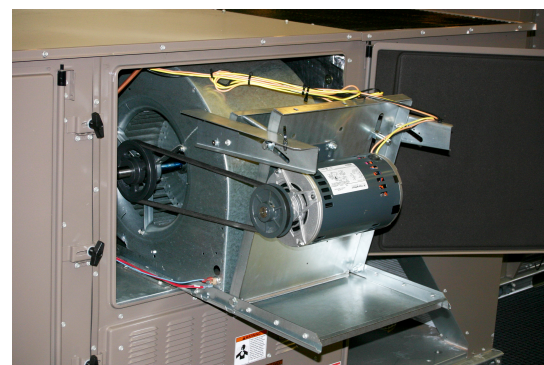
Units optioned with reheat coils provide superior dehumidification at a wide range of outdoor temperatures. This system provides comfort without over-cooling the space.



### Slide out blower assembly

The Pro incorporates a number of key features for ease of serviceability.

- The motor and blower slide out of the unit as a common assembly. This facilitates greater access to all the indoor airflow components, thus simplifying maintenance and adjustment.



### Toolless hinged panels

- Service time is reduced through the use of hinged, toolless panels. The panels provide access to frequently inspected components and areas, including the control box, compressors, filters, indoor motor and blower, and the heating section. The panels are screwed in place at the factory to prevent access by children or other unauthorized persons. It is recommended that the panels be secured with screws once service is complete.



- All units use four filters of the same standard size. This standardization simplifies selections for filter replacement.
- All Pro units have a second model nameplate located inside the control access door. This is to prevent deterioration of the nameplate through weathering.
- Service windows have been placed in both condenser section walls. Rotation of the cover allows easy access to the condenser coils for cleaning or inspection.
- The Smart Equipment™ control board provides alarm messages to help quickly identify any faults.

### Indoor motors

Units come from the factory with premium efficiency, inverter rated, indoor motors. Both motor and belt drive blower are mounted on a slide out assembly for ease of service.

### Variable frequency drive

These factory supplied variable frequency drives come with a 5-year warranty from the manufacturer. They also provide ease of commissioning without the need for a computer to program the motor and soft start capabilities for longer motor and belt life.



### ECM outdoor motors

Units come from the factory with long lasting, high efficiency ECM motors on ultra high efficiency models.

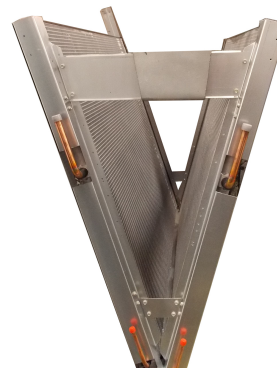


### Microchannel coil technology

All ZT/ZB condensers use microchannel all-aluminum condensers which provide improved heat transfer capabilities and reduced charge volumes.

### Evaporator coil technology

- 6.5 to 12.5 ton ultra high efficiency units use new sine wave fin geometry in a copper tube/aluminum fin evaporator coil for increased unit efficiency.



### Environmentally aware

For improved Indoor Air Quality, a combination of aluminum foil faced and elastomeric rubber insulations are used exclusively throughout the units.

## Balanced heating

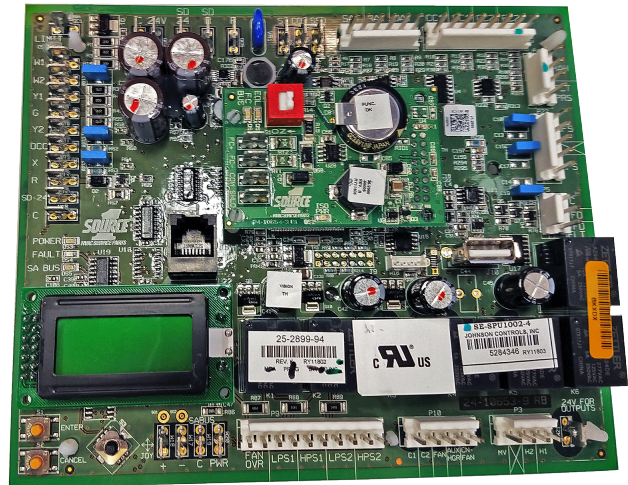
The Pro two stage gas heating offers ultimate heating comfort with a balance between first and second stage gas heating. The first stage of a gas heat Pro unit provides 70% or 75% of the heating capacity for the 3 to 5 ton units. The 6.5 to 12.5 ton units reach 60% heating capacity on the first stage.

## Convertible airflow design

A convertible airflow design provides maximum field flexibility while minimizing inventory. The side ducts are covered when the units leave the factory. In a side supply/return application, the installer simply removes the two side duct covers from the outside of the unit and installs them over the down shot openings without having to cut any panels.

## Advanced, versatile controls

- Smart Equipment™ control boards have standardized a number of features previously available only as options or by using additional controls.
- The unit control incorporates the best of the already proven Simplicity™ controls and creates a more robust, intelligent control. The goal of this control is to use cutting edge technology making the equipment easier to install, operate, and service. All units are factory commissioned, configured, and run tested.
- The Smart Equipment™ control can be configured for use with a standard thermostat (easy to connect screw terminals), a zone sensor, or can be set up to communicate with multiple BAS communication protocols to integrate with building automation systems.



### • On-board USB port

The Smart Equipment™ control comes standard with an on-board USB port that accepts a common flash drive. This port can be used for features like data logging, listing current and previous system faults, and backing up or updating the software version. Self-test and start up reports are also available through the USB port.

### • Embedded LCD display

The board has an easy to read, built-in LCD display and easy to use navigation joystick and buttons allowing the user to quickly navigate the menus displaying unit status, options, current function, supply, return and outdoor temperatures, fault codes and other information.

## CAUTION

The Smart Equipment™ control board used in this product will effectively operate the cooling system down to 0°F when this product is applied in a comfort cooling application for people. An economizer is typically included in this type of application. When applying this product for process cooling applications (computer rooms, switchgear, etc.), please call the applications department for Ducted Systems @ 1-877-874-SERV for guidance. Additional accessories may be needed for stable operation at temperatures below 30°F.

## Reduced field-installed complexity

Each unit comes equipped with factory installed supply air, return air, and outdoor air temperature sensors providing key temperature readings thus reduce field installed complexity.

## Safety monitoring

The control monitors the outdoor, supply, and return air temperatures and the high and low pressure switch status on the independent refrigerant circuits. On units with heating the gas valve and high temperature limit switches are monitored on gas and electric heating units. The control also monitors the voltage supplied to the unit and will protect the unit if low voltage due to a brown out, or other electrical issue occurs.

**Low ambient control**

An integrated low-ambient control allows units to operate in the cooling mode down to 0°F outdoor ambient without additional components or intervention. Optionally, the control board can be programmed to lockout the compressors when the outdoor air temperature is low or when free cooling is available.

**Anti-short cycle protection**

To aid compressor life, an anti-short cycle delay is incorporated into the standard control. Compressor reliability is further ensured by programmable minimum run times. For testing, the anti-short cycle delay can be temporarily overridden with the push of a button.

**Fan delays**

Fan on and fan off delays are fully programmable. Furthermore, the heating and cooling fan delay times are independent of one another. All units are programmed with default values based upon their configuration of cooling and/or heating capacity.

**Nuisance trip protection and three strikes**

To prevent nuisance calls, the control board uses a three strikes, you're out philosophy. The high, low-pressure switch, anti-freeze protection, low voltage or heating high limit must trip three times within two hours before the unit control board locks out the associated compressor. An alarm message is then displayed on the LCD screen.

**Low limit control**

The low limit control (LLC) prevents the supply air from dropping below a specified set point, when there is a demand for cooling during cold outside conditions. This is a programmable setpoint.

**Reliability**

From the beginning, all units undergo computer automated testing before they leave the factory. Units are tested for refrigerant charge and pressure, unit amperage, and 100% functionality. For the long term: all units are painted with a long lasting, powder paint that stands up over the life of the unit. The paint used has been proven by a 750-hour salt spray test.

**Full perimeter base rails**

The permanently attached base rails provide a solid foundation for the entire unit and protect the unit during shipment. The rails offer rigging holes so that an overhead crane can be used to place the units on a roof.

**Easy installation**

Gas and electric utility knockouts are supplied in the unit underside as well as the side of the unit. Utility connections can be made quickly and with a minimum amount of field labor. All units are shipped with 2-inch throw-away filters installed.

**Wide range of indoor airflows**

All supply air blowers are equipped with a belt drive that can be adjusted to meet the exact requirements of the job. A high static drive option is available for applications with a higher CFM and/or static pressure requirement.

**Standard factory warranty**

All models include a 1-year limited warranty on the complete unit. Compressors and electric heater elements each carry a 5-year warranty. Aluminized steel (10 year) and stainless steel tubular heat exchangers carry a 15-year warranty.



## Options and accessories

The following options and accessories are available as factory-installed and field-installed options.

### Options and accessories

|                                                                               | Factory option | Field-installed |
|-------------------------------------------------------------------------------|----------------|-----------------|
| <b>Non-electrical</b>                                                         |                |                 |
| Burglar bars                                                                  |                | ✓               |
| Coil guard                                                                    | ✓              | ✓               |
| Hail guard                                                                    |                | ✓               |
| Flue exhaust extension                                                        |                | ✓               |
| 2-inch only metal filter frame                                                |                | ✓               |
| Permanent 2-inch only filter                                                  |                | ✓               |
| High altitude kit for natural gas                                             |                | ✓               |
| High altitude kit for propane                                                 |                | ✓               |
| Propane conversion                                                            |                | ✓               |
| Roof curb, 8-inch height                                                      |                | ✓               |
| Roof curb, 14-inch height                                                     |                | ✓               |
| Transition roof curb (7.5 through 12.5 ton Sunline to Pro 3 through 12.5 ton) |                | ✓               |
| Wooden crate for extra protection during shipping and handling                |                | ✓               |
| Aluminized steel gas heat exchanger                                           | ✓              |                 |
| Stainless steel gas heat exchanger                                            | ✓              |                 |
| Stainless steel drain pan                                                     | ✓              |                 |
| E-Coat coil coating                                                           | ✓              |                 |
| Magna-Dry dehumidification option (6.5 through 12.5 ZT ton units only)        | ✓              |                 |
| Hot gas bypass (excludes MagnaDry optioned units)                             | ✓              |                 |
| <b>Electrical</b>                                                             |                |                 |
| High static indoor blower motor                                               | ✓              |                 |
| Disconnect switch                                                             | ✓              |                 |
| Convenience outlet - (Non-powered or powered)                                 | ✓              |                 |
| Phase monitors                                                                | ✓              |                 |
| Electric heat options                                                         | ✓              | ✓               |
| <b>Fresh air</b>                                                              |                |                 |
| Manual outside air damper                                                     |                | ✓               |
| Barometric relief kit for power exhaust, horizontal application               |                | ✓               |
| Single or dual enthalpy control                                               |                | ✓               |
| Low leak vertical economizer                                                  | ✓              | ✓               |
| Horizontal economizer                                                         |                | ✓               |
| Motorized damper                                                              | ✓              | ✓               |
| Power exhaust                                                                 | ✓              | ✓               |
| <b>Controls</b>                                                               |                |                 |
| Air proving switch                                                            | ✓              | ✓               |
| CO <sup>2</sup> sensor                                                        |                | ✓               |
| CPC BAS control                                                               | ✓              |                 |
| Dirty air filter switch                                                       | ✓              | ✓               |
| Honeywell BAS control                                                         | ✓              |                 |
| Novar® BAS control                                                            | ✓              |                 |
| Smoke detectors for supply and return air configurations                      | ✓              | ✓               |
| MAP (Mobile Access Portal) Gateway for use with Smart Equipment™ control      |                | ✓               |
| Verasys                                                                       | ✓              | ✓               |



**Accessories****Field installed accessories - non-electrical**

| Model   | Voltage | Description                                                      | Where used                                                           |
|---------|---------|------------------------------------------------------------------|----------------------------------------------------------------------|
| 1BD0408 | All     | Burglar Bars, Downflow                                           | All Cabinets                                                         |
| 1CG0419 | All     | Coil Guard                                                       | (Electric / Electric Models), 50 in. Tall Standard Cabinets          |
| 1CG0420 | All     | Coil Guard                                                       | (Gas / Electric Models), 50 in. Tall Standard Cabinets               |
| 1CG0427 | All     | Coil Guard                                                       | (Electric / Electric Models), 42 in. Tall Cabinets                   |
| 1CG0428 | All     | Coil Guard                                                       | (Gas / Electric Models), 42 in. Tall Cabinets                        |
| 1HG0411 | All     | Hail Guard Kit                                                   | All Tall (50 in.) Standard Cabinets, (Excludes 12.5T "V" cabinets)   |
| 1HG0415 | All     | Hail Guard Kit                                                   | All Short (42 in.) Standard Cabinets                                 |
| 1HG0441 | All     | Hail Guard Kit                                                   | Diamond Pattern "W" Style Cabinets (ZJ150)                           |
| 1HG0434 | All     | Hail Guard Kit                                                   | Provent Style 50 in. W Cabinet (ZJ150)                               |
| 1HG0431 | All     | Hail Guard Kit                                                   | Provent Style 42 in. Std Short Cabinets                              |
| 1HG0432 | All     | Hail Guard Kit                                                   | Provent Style 50 in. Std Tall Cabinets (Excludes 12.5T "V" cabinets) |
| 1FE0412 | All     | Flue Exhaust Extension Kit                                       | All Cabinets                                                         |
| 1FF0414 | All     | 2 in. only Metal Filter Frame Kit                                | All Tall 50 in. Cabinets                                             |
| 1FF0415 | All     | 2 in. only Metal Filter Frame Kit                                | All Tall 42 in. Cabinets                                             |
| 1FL0402 | All     | Permanent 2 in. only Filter Kit Includes (4) Four Filters)       | All Tall 50 in. Cabinets                                             |
| 1FL0423 | All     | Permanent 2 in. only Filter Kit (Includes (4) four Filters)      | All Tall 42 in. Cabinets                                             |
| 1HA0448 | All     | High Altitude Kit for Natural Gas                                | All 6 - 12T Cabinets                                                 |
| 1HA0447 | All     | High Altitude Kit for Natural Gas                                | All 3 - 5T Cabinets                                                  |
| 1HA0425 | All     | High Altitude Kit for Propane                                    | All 6 - 12T Cabinets                                                 |
| 1HA0424 | All     | High Altitude Kit for Propane                                    | All 3 - 5T Cabinets                                                  |
| 1NP0463 | All     | Propane Conversion Kit                                           | All 6 - 12T Cabinets                                                 |
| 1NP0462 | All     | Propane Conversion Kit                                           | All 3 - 5T Cabinets                                                  |
| 1RC0470 | All     | Roof Curb, 8 in. Height                                          | All Cabinets                                                         |
| 1RC0471 | All     | Roof Curb, 14 in. Height                                         | All Cabinets                                                         |
| 1RC0472 | All     | Roof Curb, Transition (7.5 T through 12.5T Sunline to Pro 3-12T) | All Cabinets                                                         |
| 1WC0412 | All     | Wooden Crate for extra protection during shipping and handling   | Standard Cabinets Only (not applicable to units 119 in. in length)   |

**Accessories (continued)****Field Installed Accessories - Electric Heat**

| Model       | Voltage | Description        | Where used                                       |
|-------------|---------|--------------------|--------------------------------------------------|
| 2TP04520925 | 230     | 9kW Electric Heat  | All 50" Cabinet 6.5 and 8.5 Ton Models           |
| 2TP04520946 | 460     |                    |                                                  |
| 2TP04520958 | 575     |                    |                                                  |
| 2TP04531825 | 230     | 18kW Electric Heat | All 50" Cabinet 6.5, 8.5, 10 and 12.5 Ton Models |
| 2TP04531846 | 460     |                    |                                                  |
| 2TP04521858 | 575     |                    |                                                  |
| 2TP04532425 | 230     | 24kW Electric Heat | All 50" Cabinet 6.5, 8.5, 10 and 12.5 Ton Models |
| 2TP04532446 | 460     |                    |                                                  |
| 2TP04522458 | 575     |                    |                                                  |
| 2TP04533625 | 230     | 36kW Electric Heat | All 50" Cabinet 6.5, 8.5, 10 and 12.5 Ton Models |
| 2TP04533646 | 460     |                    |                                                  |
| 2TP04523658 | 575     |                    |                                                  |
| 2TP04525425 | 230     | 54kW Electric Heat | All 50" 10 and 12.5 Ton Models                   |
| 2TP04525446 | 460     |                    |                                                  |
| 2TP04525458 | 575     |                    |                                                  |
| 2TP04540925 | 230     | 9kW Electric Heat  | All 42" Cabinet 6.5, 7.5 and 8.5 Ton Models      |
| 2TP04540946 | 460     |                    |                                                  |
| 2TP04540958 | 575     |                    |                                                  |
| 2TP04541825 | 230     | 18kW Electric Heat | All 42" 6.5, 7.5 and 8.5 Ton Models              |
| 2TP04541846 | 460     |                    |                                                  |
| 2TP04541858 | 575     |                    |                                                  |
| 2TP04542425 | 230     | 24kW Electric Heat | All 42" Cabinet 6.5, 7.5 and 8.5 Ton Models      |
| 2TP04542446 | 460     |                    |                                                  |
| 2TP04542458 | 575     |                    |                                                  |
| 2TP04543625 | 230     | 36kW Electric Heat | All 42" Cabinet 6.5, 7.5 and 8.5 Ton Models      |
| 2TP04543646 | 460     |                    |                                                  |
| 2TP04543658 | 575     |                    |                                                  |
| 2TP04510325 | 230     | 3kW Electric Heat  | All 42" Cabinet 3 Ton Models                     |
| 2TP04510346 | 460     |                    |                                                  |
| 2TP04510625 | 230     | 6kW Electric Heat  | All 42" Cabinet 3, 4 and 5 Ton Models            |
| 2TP04510646 | 460     |                    |                                                  |
| 2TP04510825 | 230     | 9kW Electric Heat  | All 42" Cabinet 3, 4 and 5 Ton Models            |
| 2TP04510846 | 460     |                    |                                                  |
| 2TP04510858 | 575     |                    |                                                  |
| 2TP04511525 | 230     | 15kW Electric Heat | All 42" Cabinet 3, 4 and 5 Ton Models            |
| 2TP04511546 | 460     |                    |                                                  |
| 2TP04511558 | 575     |                    |                                                  |
| 2TP04512025 | 230     | 20kW Electric Heat | All 42" 4 and 5 Ton Models                       |
| 2TP04512046 | 460     |                    |                                                  |
| 2TP04512058 | 575     |                    |                                                  |
| 2TP04512325 | 230     | 24kW Electric Heat | All 42" Cabinet 5 Ton Models                     |
| 2TP04512346 | 460     |                    |                                                  |
| 2TP04512358 | 575     |                    |                                                  |

**Accessories (continued)****Field installed accessories - fresh air**

| Model       | Voltage | Description                                                                                                                                     | Where used          |
|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1FA0413     | All     | Manual Outside Air Damper 0-35%, Downflow                                                                                                       | All Cabinets        |
| 1FA0414     | All     | Manual Outside Air Damper 0-100%, Downflow                                                                                                      | All Cabinets        |
| 1EH0408     | All     | Barometric Relief Kit for Power Exhaust, Horizontal Application                                                                                 | All Cabinets        |
| 2EC0401     | All     | Single Enthalpy Control                                                                                                                         | All Cabinets        |
| 2EC0402     | All     | Dual Enthalpy Control (Includes 2 Sensors)                                                                                                      | All Cabinets        |
| 2EE04717425 | All     | Economizer for Downflow, End Return Horizontal, or Bottom Return Vertical Applications. Includes FA Hood, Exhaust Hood w/Baro Relief            | All 42 in. Cabinets |
| 2EE04717625 | All     | Economizer for Downflow, End Return Horizontal, or Bottom Return Vertical Applications. Includes FA Hood, Exhaust Hood w/Baro Relief            | All 50 in. Cabinets |
| 2EE04709725 | All     | Economizer for Downflow, End Return Horizontal, or Bottom Return Vertical Applications. Includes FA Hood, Exhaust Hood w/Baro Relief, BAS Ready | All 42 in. Cabinets |
| 2EE04709825 | All     | Economizer for Downflow, End Return Horizontal, or Bottom Return Vertical Applications. Includes FA Hood, Exhaust Hood w/Baro Relief, BAS Ready | All 50 in. Cabinets |
| 2EE04706924 | All     | Horizontal Economizer without Barometric Relief                                                                                                 | All Cabinets        |
| 2MD04703824 | All     | Motorized Damper, Downflow without Barometric Relief                                                                                            | All Cabinets        |
| 2MD04703924 | All     | Motorized Damper, Horizontal without Barometric Relief                                                                                          | All Cabinets        |
| 2PE04704706 | 230     | Power Exhaust 230V Downflow or Horizontal                                                                                                       | All Cabinets        |
| 2PE04704746 | 460     | Power Exhaust 460V Downflow or Horizontal                                                                                                       | All Cabinets        |
| 2PE04704758 | 575     | Power Exhaust 575V Downflow or Horizontal                                                                                                       | All Cabinets        |

**Field installed accessories - controls**

| Model            | Voltage | Description                                                                                                                                                       | Where used |
|------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 2AP0401          | All     | Air Proving Switch                                                                                                                                                | All Units  |
| 2AQ04700524      | All     | CO <sup>2</sup> Space Accessory                                                                                                                                   | All Units  |
| 2AQ04700624      | All     | CO <sup>2</sup> Unit Accessory                                                                                                                                    | All Units  |
| 2DF0402          | All     | Dirty Air Switch                                                                                                                                                  | All Units  |
| 2SD04700824      | All     | Smoke Detector for Supply                                                                                                                                         | All Units  |
| 2SD04700924      | All     | Smoke Detector for Return                                                                                                                                         | All Units  |
| 2SD04701024      | All     | Smoke Detector for Supply and Return                                                                                                                              | All Units  |
| S1-YK-MAP1810-0P | All     | MAP (Mobile Access Portal) Gateway- For use with Smart Equipment™ Control.                                                                                        | All Units  |
| S1-MP-PRTKIT-0P  | All     | MAP (Mobile Access Portal) Gateway Kit- Replacement MAP gateway protective case, lanyard and communication cable. Use only to replace worn or damaged components. | All Units  |

**Field installed accessories - electrical**

| Model       | Voltage | Description     | Where used                      |
|-------------|---------|-----------------|---------------------------------|
| 2LA04702412 | All     | Low Ambient Kit | All 3 - 10T units (excludes ZT) |
| 2LA04702424 | All     | Low Ambient Kit | All 12.5T cabinets              |

## Factory and field-installed options

There are several factory and field-installed options for the Pro line.

### Down flow and end return economizers with barometric relief and fresh air hood

#### Factory or field-installed option

All units offer a variety of optional factory-installed or field-installed down flow economizers that are shipped, installed and wired with low leak dampers designed to meet ASHRAE 90.1, AMCA 511 Class 1A damper, and the International Energy Conservation Code (IECC) certification requirements by achieving leakage rates of 3 CFM/sq. ft. at 1-inch of static pressure.

Each economizer goes through a rigorous 60,000 cycle test. Dry bulb, single enthalpy, and dual enthalpy (with field installed kit) can be selected. The economizer has spring return, fully modulating damper actuators and is capable of introducing up to 100% outdoor air. As the outdoor air intake dampers open, the return air dampers close. The changeover from mechanical refrigeration to economizer operation is regulated by the outdoor air dry bulb temperature or the outdoor air enthalpy input. The installer needs only to assemble the outdoor air hood, attach the enthalpy control the hood and mount the hood to the unit (hood and control are provided).

### Single or dual enthalpy control accessories

#### Field-installed option

The single enthalpy or dual enthalpy control kits provide sensors to monitor outdoor air and/or return air humidity and temperature for true enthalpy control of the unit economizer.

### Power exhaust

#### Factory or field-installed option

This factory or field installed option allows down flow or horizontal end return economizer operation. Field installation user must purchase the 1EH0408 barometric relief and hood kit when applying the product in a horizontal flow application. The power exhaust must be removed from the unit and mounted in the horizontal end return duct work when applying the product in the horizontal, end return configuration.

### Motorized outdoor air damper

#### Factory or field-installed option

The motorized outdoor air damper includes a slide-in/plug-in damper assembly with an outdoor air hood and filters. The outdoor air dampers open to the preset position when the indoor fan motor is energized. The damper has a range of 0% to 100% outdoor air entry.

### Manual outdoor air damper

#### Field-installed option

The manual outdoor air damper includes a slide-in damper assembly with an outdoor air hood and filters. Customers have a choice of dampers with ranges of 0% to 100% or 0% to 35% outdoor air entry.

### Barometric relief damper

#### Field-installed option

Zero to 100% capacity barometric relief dampers for use with horizontal flow, or field installed economizers.

### Alternate indoor blower motor

#### Factory option

For applications with high static restrictions, units are offered with optional indoor motors that provide higher static output and/or higher airflow, depending upon the installer's needs.

### Aluminized steel gas heat exchanger

#### Factory option

The standard gas heat exchanger option for applications in non-corrosive environments.

### Stainless steel gas heat exchanger

#### Factory option

The gas heat exchanger option for applications in corrosive environments. This option provides a full stainless steel heat exchanger assembly.

## Stainless steel drain pan

### Factory option

An optional rust-proof stainless steel drain pan is available to provide years of trouble-free operation in corrosive environments.

## Electric heaters

### Factory or field-installed option

The electric heaters range from 3kW to 54kW and are available in all the voltage options of the base units. All heaters are intended for single point power supply. **Field installed kits:** cooling units include an adapter panel for easy installation of the electric heaters. Necessary hardware and connectors are included with the heaters. All heaters are intended for single point power supply.

## Disconnect switch

### Factory option

For gas heat units and cooling units with electric heat, a HACR breaker sized to the unit is provided. For cooling only units, a switch sized to the largest electric heat available for the particular unit is provided.

## Convenience outlet

### Factory option

Non-powered and powered convenience outlets are available. This option locates a 120V single-phase GFCI outlet with cover, on the corner of the unit housing adjacent to the compressors. The non-powered option requires the installer to provide the 120V single-phase power source and wiring. The powered option is powered by a stepdown transformer in the unit.

## Smoke detectors

### Factory or field-installed option

The smoke detectors stop operation of the unit and provide a fault message to the control board. Smoke detectors are available for both the supply and/or return air configurations.

### WARNING

Factory-installed smoke detectors may be subjected to extreme temperatures during off times due to outside air infiltration. These smoke detectors have an operational limit of -4°F to 158°F. Smoke detectors installed in areas that could be outside this range will have to be relocated to prevent false alarms.

## CO<sub>2</sub> sensor

### Field-installed option

This kit senses CO<sub>2</sub> levels and automatically overrides the economizer when levels rise above the preset limits.

## Filters

### Factory or field-installed option

2-inch Pleated MERV 8 or 4-inch Pleated MERV 13 are available to meet LEED requirements. A 2-inch throwaway is shipped as standard.

## Metal frame filter kit

### Field-installed option

A metal frame with polyester filter medium is available.

## Coil guard

### Factory or field-installed option

Customers can purchase a coil guard to protect the condenser coil from damage. Additionally, this kit stops animals and foreign objects from entering the space between the inner condenser coil and the main cabinet. This is not a hail guard kit.

## Hail guard

### Field-installed option

This kit includes a sloped hood that is installed over the outside condenser coil and prevents damage to the coil fins from hail strikes.



**Dirty filter switch****Factory or field-installed option**

This option/kit includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high pressure drop across the filters.

**E-Coat evaporator and condenser****Factory option**

The evaporator and/or condenser coils are coated with an epoxy polymer coating to protect against corrosion.

**Flue exhaust extension kit****Field-installed option**

In locations with wind or weather conditions which may interfere with proper exhausting of furnace combustion products, this kit can be installed to prevent the flue exhaust from entering nearby fresh air intakes.

**Gas heat high altitude kit****Field-installed option**

This kit converts a gas heat unit to operate at high altitudes from 2,000 to 6,000 feet. Conversion kits are available for natural gas and propane.

**Gas heat propane conversion kit****Field-installed option**

This kit converts a gas-fired heater from natural gas to propane. It contains the main burner orifices and gas valve replacement springs.

**Roof curbs****Field-installed option**

The roof curbs have insulated decks and are shipped disassembled. The roof curbs are available in 8-inch and 14-inch heights. For applications with security concerns, burglar bars are available for the duct openings of the roof curbs.

**Roof curb transition****Field-installed option**

Single piece adapter (10-inch high) roof curbs for transitioning from Sunline™ units to Pro units. Fits 7.5 to 12.5 Sunline™ roof curbs only.

**Burglar bars****Field-installed option**

Mount in the supply and return openings to prevent entry into the duct work.

**Thermostat****Field-installed option**

The units are designed to operate with 24 V electronic and electro-mechanical thermostats. All ultra-high efficiency 3 to 5 ton units (with or without an economizer) operate with two-stage heat/two-stage cool or two-stage cooling only thermostats, depending on the unit configuration. All 6.5 to 12.5 ton units (with or without an economizer) operate with two-stage heat/3+ stage cool or 3+ stage cooling only thermostats, depending on the configuration.

## Control options

The following sections describe the control options.

### Smart Equipment™ control with communication option

The communication option for the Smart Equipment™ control is a factory installed add-on card to expand the capabilities with a gateway to BACnet MS/TP (programmable to Modbus or N2 protocols).

### Novar® BAS control

#### Factory option

The Novar® building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch, and air proving switch.

### CPC BAS control

#### Factory option only

The Computer Process Controls Model 810-3060 ARTC Advanced Rooftop building automation system controller is factory installed. Includes supply air sensor, return air sensor, with optional dirty filter indicator switch and air proving switch.

### Honeywell BAS control

#### Factory option

The Honeywell W7750C building automation system controller is factory installed. Includes air supply sensor, return air sensor, with optional dirty filter indicator switch, and air proving switch.

### Verasys

#### Factory or field-installed option

Verasys provides a simple user experience with configurable self-recognizing controllers without the need for any additional tools. Verasys creates enhanced integration of HVACR equipment, zoning, and controls. Contractors are able to offer a complete bundled solution of equipment and controls to serve the light commercial market.

## Guide specifications

### General

Pro units are convertible single packages with a common footprint cabinet and common roof curb for all 3 through 12.5 ton models. The units were designed for light commercial applications and can be easily installed on a roof curb, slab, or frame. All Pro units are self-contained and assembled on rigid full perimeter base rails allowing for 3-way forklift access and overhead rigging. Every unit is completely charged with R-410A, wired, piped, and tested at the factory to provide a quick and easy field installation. All units are convertible between side and down airflow. Independent economizer designs are used on side and down discharge applications, as well as all tonnage sizes. Pro units are available in the following configurations: cooling only, cooling with electric heat and cooling with gas heat. Electric heaters are available as factory-installed options or field-installed accessories.

### Description

Units are factory assembled, single package, (Elec/Elec, Gas/Elec), designed for outdoor installation. They shall have built in field convertible duct connections for down discharge supply/return or horizontal discharge supply/return and be available with factory installed options or field installed accessories. The units shall be factory wired, piped and charged with R-410A refrigerant and factory tested prior to shipment. All unit wiring shall be both numbered and color coded. The cooling performance shall be rated in accordance with DOE and AHRI test procedures. Units shall be CSA certified to ANSI Z21.47 and UL 1995/CAN/CSA No. 236-M90 standards.

### Unit cabinet

Unit cabinet shall be constructed of galvanized steel with exterior surfaces coated with a non-chalking, powder paint finish, certified at a 750-hour salt spray test per ASTM-B117 standards. Indoor blower sections shall be insulated with up to 1" thick insulation coated on the airside. Either aluminum foil faced or elastomeric rubber insulation shall be used in the unit's compartments and be fastened to prevent insulation from entering the air stream. Cabinet doors shall be hinged with toolless access for easy servicing and maintenance. Full perimeter base rails shall be provided to assure reliable transit of equipment, overhead rigging, fork truck access and proper sealing on roof curb applications. Disposable 2-in. filters shall be furnished as standard and be accessible through hinged access door. Fan performance measuring ports shall be provided on the outside of the cabinet to allow accurate air measurements of evaporator fan performance without removing panels or creating bypass of the coils. Condensate pan shall be slide out design, constructed of a non corrosive material, internally sloped and conforming to ASHRAE 62-B9 standards. Condensate connection shall be a minimum of 3/4 in. I.D. female and be rigid mount connection.

### Indoor (evaporator) fan assembly

Fan shall be a belt drive assembly and include an adjustable pitch motor pulley. Job site selected brake horsepower shall not exceed the motors nameplate horsepower rating plus the service factor. Units shall be designed to operate within the service factor. Fan wheel shall be double inlet type with forward curve blades, dynamically balanced to operate smoothly throughout the entire range of operation. Design shall meet ASHRAE 90.1 single-zone variable supply air volume standard. Bearings shall be sealed and permanently lubricated for longer life and no maintenance. Entire blower assembly and motor shall be slide out design.

### Outdoor (condenser) fan assembly

The outdoor fans shall be of the direct drive type, discharge air vertically, have aluminum blades riveted to corrosion resistant steel spider brackets and shall be dynamically balanced for smooth operation. The outdoor fan motors shall have permanently lubricated bearings internally protected against overload conditions and staged independently. A cleaning window shall be provided on two sides of the units for coil cleaning.

### Refrigerant components

#### Compressors:

- a. Shall be fully 2-stage, hermetic type, direct drive, internally protected with internal high-pressure relief and over temperature protection. ZB models utilize both 1 stage and 2 stage compressor models. The hermetic motor shall be suction gas cooled and have a voltage range of + or – 10% of the unit nameplate voltage.
- b. Shall have internal spring isolation and sound muffling to minimize vibration and noise, and be externally isolated on a dedicated, independent mounting.

#### Coils:

- a. Evaporator coils shall have aluminum plate fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed. Special Phenolic coating shall be available as a factory option.
- b. Evaporator coils shall be of the direct expansion, draw-through design.

- c. Condenser coils shall have Micro-Channel aluminum tube, aluminum fins.
- d. Condenser coils shall be of the draw-through design.

Refrigerant Circuit and Refrigerant Safety Components shall include:

- a. Independent fixed-orifice or thermally operated expansion devices.
- b. Solid core filter drier/strainer to eliminate any moisture or foreign matter.
- c. Accessible service gage connections on both suction and discharge lines to charge, evacuate, and measure refrigerant pressure during any necessary servicing or troubleshooting, without losing charge.

Unit Controls:

- a. Unit shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-volt transformer side.
- b. Unit shall incorporate a lockout circuit which provides reset capability at the space thermostat or base unit, should any of the following standard safety devices trip and shut off compressor.
  - 1. Loss-of-charge/Low-pressure switch.
  - 2. High-pressure switch.
  - 3. Freeze condition sensor on evaporator coil. If any of these safety devices trip, the LCD screen will display the alarm message.
- c. Unit shall incorporate AUTO RESET compressor over temperature, over current protection.
- d. Unit shall operate with conventional thermostat designs and have a low voltage terminal strip for easy hook-up.
- e. Unit control board shall have on-board diagnostics and fault message display.
- f. Standard controls shall include anti-short cycle and low voltage protection, and permit cooling operation down to a selectable value as low as 0 °F.
- g. Control board shall monitor each refrigerant safety switch independently.

**Gas heating section (if equipped)**

Heat exchanger and exhaust system shall be constructed of aluminized steel and shall be designed with induced draft combustion with post purge logic, energy saving direct spark ignition, and redundant main gas valve. The heat exchanger shall be of the tubular type, constructed of T1-40 aluminized steel for corrosion resistance and allowing minimum mixed air entering temperature of 40 °F. Burners shall be of the in-shot type, constructed of aluminum-coated steel. All gas piping shall enter the unit cabinet at a single location, through either the side or bottom, without any field modifications. An integrated control board shall provide timed control of evaporator fan functioning and burner ignition. Heating section shall be provided with the following minimum protection:

- a. Primary and auxiliary high-temperature limit switches.
- b. Induced draft pressure sensor.
- c. Flame roll out switch (manual reset).
- d. Flame proving controls.
- e. All two stage gas units shall have two independent stages of capacity.

**Electric heating section (if equipped)**

An electric heating section, with nickel chromium elements, shall be provided in a range of 3 through 54KW. The heating section shall have a primary limit control(s) (automatic reset) to prevent the heating element system from operating at an excessive temperature. The Heating Section assembly shall slide out of the unit for easy maintenance and service. Units with Electric Heating Sections shall be wired for a single point power supply with branch circuit fusing (where required).

**Unit operating characteristics**

Unit shall be capable of starting and running at 125 °F outdoor temperature, exceeding maximum load criteria of AHRI Standard 340/360. The compressor, with standard controls, shall be capable of operation down to 0 °F outdoor temperature. Unit shall be provided with fan time delay to prevent cold air delivery before heat exchanger warms up. (Gas heat only)

**Electrical requirements** - All unit power wiring shall enter unit cabinet at a single factory provided location and be capable of side or bottom entry to minimize roof penetrations and avoid unit field modifications. Separate side and bottom openings shall be provided for the control wiring.

**Standard limited warranties** - Compressor – 5 Years, Heat Exchanger – 10 Years, Elect. Heat Elem. – 5 Years, Parts – 1 Year

**Factory-installed optional outdoor air** (Shall be made available by either/or):

- **Dry bulb automatic economizer** - Outdoor and return air dampers that are interlocked and positioned by a fully-modulating, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall be designed to meet ASHRAE 90.1, AMCA 511 Class 1A damper, and the International Energy Conservation Code (IECC) certification requirements by achieving leakage rates of 3 CFM/sq. ft. at 1 in. of static pressure. Changeover from compressor to economizer operation shall be provided by an integral electronic enthalpy control that feeds input into the basic module. The outdoor intake opening shall be covered with a rain hood that matches the exterior of the unit. Water eliminator/filters shall be provided.  
Simultaneous economizer/compressor operation is also possible. Dampers shall fully close on power loss. Available with barometric relief and power exhaust.
- **Motorized outdoor air dampers** - Outdoor and return air dampers that are interlocked and positioned by a 2- position, spring-return damper actuator. A unit-mounted potentiometer shall be provided to adjust the outdoor and return air damper assembly to take in the design CFM of outdoor air to meet the ventilation requirements of the conditioned space during normal operation. Whenever the indoor fan motor is energized, the dampers open up to one of two pre-selected positions - regardless of the outdoor air enthalpy. Dampers return to the fully closed position when the indoor fan motor is de-energized. Dampers shall fully close on power loss.

### Additional factory-installed options

- **MagnaDry dehumidification system**- removes humidity while maintaining comfort cooling.
- **Alternate indoor blower motor** – For applications with high restrictions, units are available with optional indoor blower motors that provide higher static output and/or higher airflow.
- **Convenience outlet (powered or non-powered)**– Unit can be provided with an optional 120VAC GFCI outlet with cover on the corner of the unit housing the compressors.
- **Electric heat** - Electric Heaters range from 3kW to 54kW and are available in all the voltage options of the base unit.
- **Phase monitor** - Designed to prevent damage in out-of-phase condition.
- **Coil guard** - Designed to prevent condenser coil damage.
- **BAS controls hardware** - Include supply air sensor, return air sensor, dirty filter indicator and air proving switch.
- **Dirty filter switch** – This kit includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high-pressure drop across the filters.
- **Breaker** – An HACR breaker can be factory installed on gas heat units or cooling units with electric heat.
- **Disconnect switch** - A disconnect can be factory installed on a cooling only units sized for the largest electric heat available.
- **Stainless steel heat exchanger** – For applications in a corrosive environment, this option provides a full stainless steel heat exchanger assembly.
- **Smoke detector** – A smoke detector can be factory mounted and wired in the supply and/or return air compartments.

### Other pre-engineered accessories available

- **Roof curb** - 14 in. and 8 in. high, full perimeter knockdown curb, with hinged design for quick assembly.
- **Barometric relief damper** – (Unit mounted – Downflow, Duct Mounted – Horizontal) – Contains a rain hood, air inlet screen, exhaust damper and mounting hardware. Used to relieve internal air pressure through the unit during economizer operation.
- **Propane conversion kit** – Contains new orifices and gas valve springs to convert from natural to L.P. gas.
- **Economizer** (Downflow and Horizontal flow)
- **Power exhaust** – (Unit mount – Downflow, Duct mount – Horizontal flow)
- **Dual enthalpy kit** - Provides a second input to economizer to monitor return air.

## Physical data

### ZT037-061 physical data

| Component                                       | Models              |                |                     |                |                |                     |                |                |
|-------------------------------------------------|---------------------|----------------|---------------------|----------------|----------------|---------------------|----------------|----------------|
|                                                 | ZT037               |                | ZT049               |                |                | ZT061               |                |                |
| Nominal tonnage                                 | 3.0                 |                | 4.0                 |                |                | 5.0                 |                |                |
| AHRI cooling performance                        |                     |                |                     |                |                |                     |                |                |
| Gross capacity @ AHRI A point (MBh)             | 38,000              |                | 52,000              |                |                | 63,000              |                |                |
| AHRI net capacity (MBh)                         | 36,800              |                | 50,000              |                |                | 60,000              |                |                |
| EER/EER2                                        | 13.05/12.9          |                | 14.0/13.2           |                |                | 13.0/12.8           |                |                |
| SEER/SEER2 (208/230 & 460V)                     | 17.0/16.2           |                | 17.5/16.4           |                |                | 16.3/15.5           |                |                |
| SEER (575V)                                     | 15.95               |                | 17.5                |                |                | 16.3                |                |                |
| Nominal CFM                                     | 1300                |                | 1600                |                |                | 1550                |                |                |
| System power (KW)                               | 2.9                 |                | 3.8                 |                |                | 4.8                 |                |                |
| Refrigerant type                                | R-410A              |                | R-410A              |                |                | R-410A              |                |                |
| Refrigerant charge (lb-oz)                      |                     |                |                     |                |                |                     |                |                |
| System 1 (208/230 & 460V)                       | 10-5                |                | 13-2                |                |                | 12-7                |                |                |
| System 1 (575V)                                 | 9-12                |                | 13-2                |                |                | 12-7                |                |                |
| Refrigerant charge (lb-oz) with MagnaDry option | 10-6                |                | 12-12               |                |                | 12-7                |                |                |
| AHRI heating performance                        |                     |                |                     |                |                |                     |                |                |
| Heating model                                   | N06                 | N08            | N06                 | N08            | N12            | N08                 | N12            | N16            |
| Heat input (K Btu)                              | 60                  | 80             | 60                  | 80             | 120            | 80                  | 120            | 160            |
| Heat output (K Btu)                             | 49                  | 65             | 49                  | 65             | 97             | 65                  | 97             | 130            |
| Steady state efficiency (%)                     | 81                  | 81             | 81                  | 81             | 81             | 81                  | 81             | 81             |
| No. of burners                                  | 4                   | 4              | 4                   | 4              | 6              | 4                   | 6              | 8              |
| No. of stages                                   | 2 <sup>1</sup>      | 2 <sup>2</sup> | 2 <sup>1</sup>      | 2 <sup>2</sup> | 2 <sup>2</sup> | 2 <sup>2</sup>      | 2 <sup>2</sup> | 2 <sup>2</sup> |
| Temperature rise range (°F)                     | 20-50°F             | 25-65°F        | 20-50°F             | 25-65°F        | 35-70°F        | 25-65°F             | 35-70°F        | 45-75°F        |
| Gas piping connection (in.)                     | 3/4                 | 3/4            | 3/4                 | 3/4            | 3/4            | 3/4                 | 3/4            | 3/4            |
| Dimensions (in.)                                |                     |                |                     |                |                |                     |                |                |
| Length                                          | 89                  |                | 89                  |                |                | 89                  |                |                |
| Width                                           | 59                  |                | 59                  |                |                | 59                  |                |                |
| Height                                          | 42                  |                | 42                  |                |                | 42                  |                |                |
| Operating weight (lb)                           | 922                 |                | 960                 |                |                | 968                 |                |                |
| Operating weight (lb.) with MagnaDry option     | 870                 |                | 905                 |                |                | 905                 |                |                |
| Compressors <sup>3</sup>                        |                     |                |                     |                |                |                     |                |                |
| Type                                            | 2-stage scroll      |                | 2-stage scroll      |                |                | 2-stage scroll      |                |                |
| Quantity                                        | 1                   |                | 1                   |                |                | 1                   |                |                |
| Unit capacity steps (%)                         | 67/100              |                | 67/100              |                |                | 67/100              |                |                |
| Condenser coil data                             |                     |                |                     |                |                |                     |                |                |
| Face area (sq. ft.)                             | 12.2                |                | 12.2                |                |                | 12.2                |                |                |
| Rows                                            | 1                   |                | 1                   |                |                | 1                   |                |                |
| Fins per in.                                    | 23                  |                | 23                  |                |                | 23                  |                |                |
| Tube diameter (in./mm)                          | .98/25              |                | .98/25              |                |                | .98/25              |                |                |
| Circuitry type                                  | 2-pass Microchannel |                | 2-pass Microchannel |                |                | 2-pass Microchannel |                |                |
| Evaporator coil data                            |                     |                |                     |                |                |                     |                |                |
| Face area (sq. ft.)                             | 10.56               |                | 10.56               |                |                | 10.56               |                |                |
| Rows                                            | 3                   |                | 4                   |                |                | 4                   |                |                |
| Fins per in.                                    | 15                  |                | 15                  |                |                | 15                  |                |                |
| Tube diameter                                   | 0.375               |                | 0.375               |                |                | 0.375               |                |                |
| Refrigerant control                             | TXV                 |                | TXV                 |                |                | TXV                 |                |                |



**ZT037-061 physical data (continued)**

| Component                 | Models                           |       |                                  |  |       |                                  |  |       |
|---------------------------|----------------------------------|-------|----------------------------------|--|-------|----------------------------------|--|-------|
|                           | ZT037                            |       | ZT049                            |  |       | ZT061                            |  |       |
| Nominal tonnage           | 3.0                              |       | 4.0                              |  |       | 5.0                              |  |       |
| Reheat option coil data   |                                  |       |                                  |  |       |                                  |  |       |
| Face area (sq. ft.)       | 7.8                              |       | 7.8                              |  |       | 7.8                              |  |       |
| Rows                      | 2                                |       | 2                                |  |       | 2                                |  |       |
| Fins per in.              | 13                               |       | 13                               |  |       | 13                               |  |       |
| Tube diameter (in.)       | 3/8                              |       | 3/8                              |  |       | 3/8                              |  |       |
| Condenser fan data        |                                  |       |                                  |  |       |                                  |  |       |
| Quantity of fans          | 2                                |       | 2                                |  |       | 2                                |  |       |
| Fan diameter (in.)        | 24                               |       | 24                               |  |       | 24                               |  |       |
| Type                      | Prop                             |       | Prop                             |  |       | Prop                             |  |       |
| Drive type                | Direct ECM                       |       | Direct ECM                       |  |       | Direct ECM                       |  |       |
| Quantity of motors        | 2                                |       | 2                                |  |       | 2                                |  |       |
| Motor HP each             | 1/3                              |       | 1/3                              |  |       | 1/3                              |  |       |
| No. of speeds             | Var.                             |       | Var.                             |  |       | Var.                             |  |       |
| RPM                       | 850                              |       | 850                              |  |       | 850                              |  |       |
| Nominal total CFM         | 7000                             |       | 7000                             |  |       | 7000                             |  |       |
| Belt drive evap. fan data |                                  |       |                                  |  |       |                                  |  |       |
| Quantity                  | 1                                |       | 1                                |  |       | 1                                |  |       |
| Fan size (in.)            | 12 x 9                           |       | 12 x 9                           |  |       | 12 x 9                           |  |       |
| Type                      | Centrifugal                      |       | Centrifugal                      |  |       | Centrifugal                      |  |       |
| Motor sheave              | 1VL40                            | 1VL40 | 1VL34                            |  | 1VL44 | 1VL40                            |  | 1VM50 |
| Blower sheave             | AK79                             | AK61  | AK64                             |  | AK69  | AK61                             |  | AK64  |
| Belt                      | A47                              | A45   | A47                              |  | A47   | A45                              |  | A47   |
| Motor HP each             | 1-1/2                            | 1-1/2 | 1-1/2                            |  | 1-1/2 | 1-1/2                            |  | 2     |
| RPM                       | 1725                             | 1725  | 1725                             |  | 1725  | 1725                             |  | 1725  |
| Frame size                | 56                               | 56    | 56                               |  | 56    | 56                               |  | 56    |
| Filters                   |                                  |       |                                  |  |       |                                  |  |       |
| Quantity - size           | 4 - (24 x 16 x 2) <sup>4,5</sup> |       | 4 - (24 x 16 x 2) <sup>4,5</sup> |  |       | 4 - (24 x 16 x 2) <sup>4,5</sup> |  |       |
|                           | 4 - (24 x 16 x 4) <sup>6</sup>   |       | 4 - (24 x 16 x 4) <sup>6</sup>   |  |       | 4 - (24 x 16 x 4) <sup>6</sup>   |  |       |

1. 1st stage capacity is 75% of full capacity.
2. 1st stage capacity is 70% of full capacity.
3. ZT037, ZT049, and ZT061 have crankcase heaters standard.
4. 2 in. throwaway, standard, MERV (Minimum Efficiency Reporting Value).
5. 2 in. pleated, optional, MERV 8.
6. 4 in. pleated, optional, MERV 13.

**ZT078-150 physical data**

| Component                                   | Models                               |                |                        |                |                        |                |                        |                |                        |                |
|---------------------------------------------|--------------------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|----------------|
|                                             | ZT078                                |                | ZT090                  |                | ZT102                  |                | ZT120                  |                | ZT150                  |                |
| Nominal tonnage                             | 6.5                                  |                | 7.5                    |                | 8.5                    |                | 10                     |                | 12.5                   |                |
| AHRI cooling performance                    |                                      |                |                        |                |                        |                |                        |                |                        |                |
| Gross capacity @ AHRI A point (Mbh)         | 76000                                |                | 91500                  |                | 104000                 |                | 121000                 |                | 147500                 |                |
| AHRI net capacity (Mbh)                     | 74000                                |                | 89000                  |                | 101000                 |                | 117000                 |                | 142000                 |                |
| EER                                         | 12.4 <sup>1</sup> /12.6 <sup>2</sup> |                | 13.1                   |                | 13.1                   |                | 13.1                   |                | 12.5                   |                |
| IEER with Intellispeed                      | 21.2                                 |                | 21                     |                | 21                     |                | 21.2                   |                | 20.2                   |                |
| VAV IEER                                    | 20.5                                 |                | 20.5                   |                | 18.2                   |                | 19.5                   |                | 19                     |                |
| CFM                                         | 2700                                 |                | 3000                   |                | 3400                   |                | 3600                   |                | 4150                   |                |
| System power (KW)                           | 5.92                                 |                | 6.79                   |                | 7.71                   |                | 8.93                   |                | 11.44                  |                |
| Refrigerant type                            | R-410A                               |                | R-410A                 |                | R-410A                 |                | R-410A                 |                | R-410A                 |                |
| Refrigerant charge (lb-oz)                  |                                      |                |                        |                |                        |                |                        |                |                        |                |
| System 1                                    | 5-10                                 |                | 8-0                    |                | 8-4                    |                | 7-12                   |                | 10-8                   |                |
| System 2                                    | 5-14                                 |                | 7-14                   |                | 8-4                    |                | 7-12                   |                | 9-12                   |                |
| Refrigerant charge (lb-oz) Magna Dry option |                                      |                |                        |                |                        |                |                        |                |                        |                |
| System 1                                    | 6-2                                  |                | 8-10                   |                | 8-8                    |                | 8-8                    |                | 10-8                   |                |
| System 2                                    | 5-14                                 |                | 7-14                   |                | 8-4                    |                | 7-12                   |                | 9-12                   |                |
| AHRI heating performance                    |                                      |                |                        |                |                        |                |                        |                |                        |                |
| Heating model                               | N12                                  | N18            | N12                    | N18            | N12                    | N18            | N18                    | N24            | N18                    | N24            |
| Heat input (K Btu)                          | 120                                  | 180            | 120                    | 180            | 120                    | 180            | 180                    | 240            | 180                    | 240            |
| Heat output (K Btu)                         | 97                                   | 146            | 97                     | 146            | 97                     | 146            | 146                    | 194            | 146                    | 194            |
| AFUE %                                      | -                                    | -              | -                      | -              | -                      | -              | -                      | -              | -                      | -              |
| Steady state efficiency (%)                 | 81                                   | 81             | 81                     | 81             | 81                     | 81             | 81                     | 81             | 81                     | 81             |
| No. of burners                              | 5                                    | 7              | 5                      | 7              | 5                      | 7              | 7                      | 8              | 7                      | 8              |
| No. of stages                               | 2 <sup>3</sup>                       | 2 <sup>3</sup> | 2 <sup>3</sup>         | 2 <sup>3</sup> | 2 <sup>3</sup>         | 2 <sup>3</sup> | 2 <sup>3</sup>         | 2 <sup>3</sup> | 2 <sup>3</sup>         | 2 <sup>3</sup> |
| Temperature rise range (°F)                 | 20-50                                | 20-65          | 20-50                  | 20-65          | 20-50                  | 20-65          | 20-65                  | 30-60          | 20-65                  | 30-60          |
| Gas piping connection (in.)                 | 3/4                                  | 3/4            | 3/4                    | 3/4            | 3/4                    | 3/4            | 3/4                    | 3/4            | 3/4                    | 3/4            |
| Dimensions (in.)                            |                                      |                |                        |                |                        |                |                        |                |                        |                |
| Length                                      | 119-1/2                              |                | 119-1/2                |                | 119-1/2                |                | 119-1/2                |                | 119-1/2                |                |
| Width                                       | 59                                   |                | 59                     |                | 59                     |                | 59                     |                | 59                     |                |
| Height                                      | 50-3/4                               |                | 50-3/4                 |                | 50-3/4                 |                | 50-3/4                 |                | 50-3/4                 |                |
| Operating weight (lb)                       | 1282                                 |                | 1283                   |                | 1284                   |                | 1460                   |                | 1478                   |                |
| Operating weight (lb.) with Magna Dry       | 1288                                 |                | 1293                   |                | 1304                   |                | 1481                   |                | 1498                   |                |
| Compressors <sup>4</sup>                    |                                      |                |                        |                |                        |                |                        |                |                        |                |
| Type                                        | 2-stage scroll                       |                | 2-stage scroll         |                | 2-stage scroll         |                | 2-stage scroll         |                | 2-stage scroll         |                |
| Quantity                                    | 2                                    |                | 2                      |                | 2                      |                | 2                      |                | 2                      |                |
| Unit capacity steps (%)                     | 34 / 67 / 100                        |                | 29 / 57 / 100          |                | 34 / 67 / 100          |                | 34 / 67 / 100          |                | 34 / 67 / 100          |                |
| Condenser coil data                         |                                      |                |                        |                |                        |                |                        |                |                        |                |
| Face area (sq. ft.)                         | 29.0                                 |                | 29.0                   |                | 29.0                   |                | 47.5                   |                | 47.5                   |                |
| Rows                                        | 1                                    |                | 1                      |                | 2                      |                | 1                      |                | 2                      |                |
| Fins per inch                               | 23                                   |                | 23                     |                | 23                     |                | 23                     |                | 23                     |                |
| Tube diameter (in.)/MM                      | .71/18                               |                | 1.0/25                 |                | .71/18                 |                | 0.71/18                |                | 0.71/18                |                |
| Circuitry type                              | 2-pass<br>Microchannel               |                | 2-pass<br>Microchannel |                | 3-pass<br>Microchannel |                | 2-pass<br>Microchannel |                | 3-pass<br>Microchannel |                |
| Evaporator coil data                        |                                      |                |                        |                |                        |                |                        |                |                        |                |
| Face area (sq. ft.)                         | 29                                   |                | 29                     |                | 29                     |                | 47.5                   |                | 47.5                   |                |
| Rows                                        | 3                                    |                | 4                      |                | 4                      |                | 4                      |                | 4                      |                |
| Fins per inch                               | 15                                   |                | 15                     |                | 15                     |                | 15                     |                | 15                     |                |
| Tube diameter                               | 0.375                                |                | 0.375                  |                | 0.375                  |                | 0.375                  |                | 0.375                  |                |
| Circuitry type                              | Intertwined                          |                | Intertwined            |                | Intertwined            |                | Intertwined            |                | Intertwined            |                |
| Refrigerant control                         | TXV                                  |                | TXV                    |                | TXV                    |                | TXV                    |                | TXV                    |                |
| Reheat option coil data                     |                                      |                |                        |                |                        |                |                        |                |                        |                |
| Face area (sq. ft.)                         | 10                                   |                | 10                     |                | 10                     |                | 10                     |                | 10                     |                |
| Rows                                        | 1                                    |                | 2                      |                | 2                      |                | 2                      |                | 2                      |                |
| Fins per inch                               | 13                                   |                | 13                     |                | 13                     |                | 13                     |                | 13                     |                |
| Tube diameter (in.)                         | 3/8                                  |                | 3/8                    |                | 3/8                    |                | 3/8                    |                | 3/8                    |                |

**ZT078-150 physical data (continued)**

| Component                     | Models                            |       |                                   |       |                                   |       |                                   |       |                                   |       |
|-------------------------------|-----------------------------------|-------|-----------------------------------|-------|-----------------------------------|-------|-----------------------------------|-------|-----------------------------------|-------|
|                               | ZT078                             |       | ZT090                             |       | ZT102                             |       | ZT120                             |       | ZT150                             |       |
| Nominal tonnage               | 6.5                               |       | 7.5                               |       | 8.5                               |       | 10                                |       | 12.5                              |       |
| Condenser fan data            |                                   |       |                                   |       |                                   |       |                                   |       |                                   |       |
| Quantity of fans              | 4                                 |       | 4                                 |       | 4                                 |       | 4                                 |       | 4                                 |       |
| Fan diameter (in.)            | 24                                |       | 24                                |       | 24                                |       | 24                                |       | 24                                |       |
| Type                          | Prop                              |       | Prop                              |       | Prop                              |       | Prop                              |       | Prop                              |       |
| Drive type                    | Direct                            |       | Direct                            |       | Direct                            |       | Direct                            |       | Direct                            |       |
| Quantity of motors            | 4                                 |       | 4                                 |       | 4                                 |       | 4                                 |       | 4                                 |       |
| Motor HP each                 | 1/3                               |       | 1/3                               |       | 1/3                               |       | 1/3                               |       | 1/3                               |       |
| No. of speeds                 | 2                                 |       | 2                                 |       | 2                                 |       | 2                                 |       | 2                                 |       |
| 1st speed/2nd speed RPM       | 850/600                           |       | 850/600                           |       | 850/700                           |       | 850/700                           |       | 900/700                           |       |
| 1st speed/2nd speed total CFM | 14000/9500                        |       | 14000/9500                        |       | 14000/11000                       |       | 14000/11000                       |       | 15000/11000                       |       |
| Belt drive evap. fan data     |                                   |       |                                   |       |                                   |       |                                   |       |                                   |       |
| Quantity                      | 1                                 |       | 1                                 |       | 1                                 |       | 1                                 |       | 1                                 |       |
| Fan size (in.)                | 15 x 15                           |       | 15 x 15                           |       | 15 x 15                           |       | 15 x 15                           |       | 15 x 15                           |       |
| Type                          | Centrifugal                       |       | Centrifugal                       |       | Centrifugal                       |       | Centrifugal                       |       | Centrifugal                       |       |
| Motor sheave                  | 1VL40                             | 1VM50 | 1VL40                             | 1VM50 | 1VM50                             | 1VM50 | 1VM50                             | 1VM50 | 1VM50                             | 1VP56 |
| Blower sheave                 | AK74                              | AK74  | AK69                              | AK69  | AK89                              | AK74  | AK84                              | AK74  | AK74                              | BK77  |
| Belt                          | A53                               | A54   | A52                               | A54   | A56                               | A54   | A56                               | A54   | A54                               | BX55  |
| Motor HP each                 | 1-1/2                             | 2     | 1-1/2                             | 3     | 2                                 | 3     | 2                                 | 3     | 3                                 | 5     |
| RPM                           | 1725                              | 1725  | 1725                              | 1725  | 1725                              | 1725  | 1725                              | 1725  | 1725                              | 1725  |
| Frame size                    | 56                                | 56    | 56                                | 56    | 56                                | 56    | 56                                | 56    | 56                                | 184T  |
| Filters                       |                                   |       |                                   |       |                                   |       |                                   |       |                                   |       |
| Quantity - size               | 4 - (24 x 20 x 2) <sup>5, 6</sup> |       | 4 - (24 x 20 x 2) <sup>5, 6</sup> |       | 4 - (24 x 20 x 2) <sup>5, 6</sup> |       | 4 - (24 x 20 x 2) <sup>5, 6</sup> |       | 4 - (24 x 20 x 2) <sup>5, 6</sup> |       |
|                               | 4 - (24 x 20 x 4) <sup>7</sup>    |       | 4 - (24 x 20 x 4) <sup>7</sup>    |       | 4 - (24 x 20 x 4) <sup>7</sup>    |       | 4 - (24 x 20 x 4) <sup>7</sup>    |       | 4 - (24 x 20 x 4) <sup>7</sup>    |       |

1. Gas units
2. Cooling only, electric
3. 1st stage 60% of 2nd stage
4. ZT078, ZT090, ZT102, ZT120, and ZT150 have crankcase heaters as standard.
5. 2 in. throwaway, standard, MERV (Minimum Efficiency Reporting Value) 3.
6. 2 in. pleated, optional, MERV 8.
7. 4 in. pleated, optional, MERV 13.

**ZB078-150 physical data**

| Component                                       | Models                               |                |                                      |                |                                      |                |                       |                |                                      |                |
|-------------------------------------------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|-----------------------|----------------|--------------------------------------|----------------|
|                                                 | ZB078                                |                | ZB090                                |                | ZB102                                |                | ZB120                 |                | ZB150                                |                |
| Nominal Tonnage                                 | 6.5                                  |                | 7.5                                  |                | 8.5                                  |                | 10                    |                | 12.5                                 |                |
| AHRI cooling performance                        |                                      |                |                                      |                |                                      |                |                       |                |                                      |                |
| Gross Capacity @ AHRI A point (Btu)             | 78000                                |                | 89000                                |                | 103000                               |                | 117500                |                | 145000                               |                |
| AHRI net capacity (Btu)                         | 76000                                |                | 87000                                |                | 98000                                |                | 114000                |                | 142000                               |                |
| EER                                             | 12.2/12                              |                | 12.2 <sup>1</sup> /12.0 <sup>2</sup> |                | 12.2 <sup>1</sup> /12.0 <sup>2</sup> |                | 12.0                  |                | 12.2 <sup>1</sup> /12 <sup>2</sup>   |                |
| IEER with Intellispeed                          | 16.0 <sup>1</sup> /15.8 <sup>2</sup> |                | 15.6 <sup>1</sup> /15.4              |                | 16.0 <sup>1</sup> /15.8 <sup>2</sup> |                | 15                    |                | 16.0 <sup>1</sup> /15.8 <sup>2</sup> |                |
| IEER with VAV                                   | 16.0 <sup>1</sup> /15.8 <sup>2</sup> |                | 15.6 <sup>1</sup> /15.4 <sup>2</sup> |                | 15.8 <sup>1</sup> /15.6 <sup>2</sup> |                | 15                    |                | 16.0 <sup>1</sup> /15.8 <sup>2</sup> |                |
| CFM                                             | 2400                                 |                | 2400                                 |                | 3100                                 |                | 3200                  |                | 3500                                 |                |
| System power (KW)                               | 6.24                                 |                | 7.16                                 |                | 7.78                                 |                | 9.44                  |                | 11.5                                 |                |
| Refrigerant type                                | R-410A                               |                | R-410A                               |                | R-410A                               |                | R-410A                |                | R-410A                               |                |
| Refrigerant charge (lb-oz)                      |                                      |                |                                      |                |                                      |                |                       |                |                                      |                |
| System 1                                        | 7-2                                  |                | 7                                    |                | 7-12                                 |                | 7-2                   |                | 9-8                                  |                |
| System 2                                        | 6-14                                 |                | 7                                    |                | 7-14                                 |                | 7-14                  |                | 9-2                                  |                |
| Refrigerant charge (lb-oz) with MagnaDry option |                                      |                |                                      |                |                                      |                |                       |                |                                      |                |
| System 1                                        | 8-6                                  |                | 7-4                                  |                | 8-0                                  |                | 8-10                  |                | 10-12                                |                |
| System 2                                        | 6-14                                 |                | 7-0                                  |                | 7-14                                 |                | 7-14                  |                | 9-2                                  |                |
| AHRI heating performance                        |                                      |                |                                      |                |                                      |                |                       |                |                                      |                |
| Heating model                                   | N12                                  | N18            | N12                                  | N18            | N12                                  | N18            | N18                   | N24            | N18                                  | N24            |
| Heat input (K Btu)                              | 120                                  | 180            | 120                                  | 180            | 120                                  | 180            | 180                   | 240            | 180                                  | 240            |
| Heat output (K Btu)                             | 97                                   | 146            | 97                                   | 146            | 97                                   | 146            | 146                   | 194            | 146                                  | 194            |
| AFUE %                                          | -                                    | -              | -                                    | -              | -                                    | -              | -                     | -              | -                                    | -              |
| Steady state efficiency (%)                     | 81                                   | 81             | 81                                   | 81             | 81                                   | 81             | 81                    | 81             | 81                                   | 81             |
| No. burners                                     | 5                                    | 7              | 5                                    | 7              | 5                                    | 7              | 7                     | 8              | 7                                    | 8              |
| No. stages                                      | 2 <sup>3</sup>                       | 2 <sup>3</sup> | 2 <sup>3</sup>                       | 2 <sup>3</sup> | 2 <sup>3</sup>                       | 2 <sup>3</sup> | 2 <sup>3</sup>        | 2 <sup>3</sup> | 2 <sup>3</sup>                       | 2 <sup>3</sup> |
| Temperature Rise Range (°F)                     | 20-50                                | 20-65          | 20-50                                | 20-65          | 20-50                                | 20-65          | 20-65                 | 30-60          | 20-65                                | 30-60          |
| Gas piping connection (in.)                     | 3/4                                  | 3/4            | 3/4                                  | 3/4            | 3/4                                  | 3/4            | 3/4                   | 3/4            | 3/4                                  | 3/4            |
| Dimensions (in.)                                |                                      |                |                                      |                |                                      |                |                       |                |                                      |                |
| Length                                          | 89                                   |                | 89                                   |                | 89                                   |                | 89                    |                | 119-1/2                              |                |
| Width                                           | 59                                   |                | 59                                   |                | 59                                   |                | 59                    |                | 59                                   |                |
| Height                                          | 50-3/4                               |                | 50-3/4                               |                | 50-3/4                               |                | 50-3/4                |                | 50-3/4                               |                |
| Operating wt. (lb.)                             | 1033                                 |                | 1035                                 |                | 1044                                 |                | 1070                  |                | 1280                                 |                |
| Operating wt. (lb.) MagnaDry option             | 1080                                 |                | 1080                                 |                | 1135                                 |                | 1135                  |                | 1395                                 |                |
| COMPRESSORS <sup>4</sup>                        |                                      |                |                                      |                |                                      |                |                       |                |                                      |                |
| Type                                            | 2-Stage Scroll/Scroll                |                | 2-Stage Scroll/Scroll                |                | 2-Stage Scroll/Scroll                |                | 2-Stage Scroll/Scroll |                | 2-Stage Scroll/Scroll                |                |
| Quantity                                        | 2                                    |                | 2                                    |                | 2                                    |                | 2                     |                | 2                                    |                |
| Unit Capacity Steps (%)                         | 34/67/100                            |                | 34/67/100                            |                | 34/67/100                            |                | 34/67/100             |                | 34/67/100                            |                |
| Condenser coil data                             |                                      |                |                                      |                |                                      |                |                       |                |                                      |                |
| Face area (Sq. Ft.)                             | 23.8                                 |                | 23.8                                 |                | 29.0                                 |                | 29.0                  |                | 47.5                                 |                |
| Rows                                            | 1                                    |                | 1                                    |                | 1                                    |                | 1                     |                | 1                                    |                |
| Fins per inch                                   | 23                                   |                | 23                                   |                | 23                                   |                | 23                    |                | 23                                   |                |
| Tube diameter (in./MM)                          | 1/25                                 |                | 1/25                                 |                | 1/25                                 |                | 1/25                  |                | .71/18                               |                |
| Circuitry Type                                  | 2-pass Microchannel                  |                | 2-pass Microchannel                  |                | 2-pass Microchannel                  |                | 2-pass Microchannel   |                | 2-pass Microchannel                  |                |
| Evaporator coil data                            |                                      |                |                                      |                |                                      |                |                       |                |                                      |                |
| Face area (Sq. Ft.)                             | 13.2                                 |                | 13.2                                 |                | 13.2                                 |                | 13.2                  |                | 13.2                                 |                |
| Rows                                            | 4                                    |                | 4                                    |                | 4                                    |                | 4                     |                | 4                                    |                |
| Fins per inch                                   | 15                                   |                | 15                                   |                | 15                                   |                | 15                    |                | 15                                   |                |
| Tube diameter                                   | 0.375                                |                | 0.375                                |                | 0.375                                |                | 0.375                 |                | 0.375                                |                |
| Circuitry Type                                  | Intertwined                          |                | Intertwined                          |                | Intertwined                          |                | Intertwined           |                | Intertwined                          |                |
| Refrigerant control                             | TXV                                  |                | TXV                                  |                | TXV                                  |                | TXV                   |                | TXV                                  |                |

**ZB078-150 physical data (continued)**

| Component                | Models                           |       |                                  |       |                                  |       |                                  |       |                                  |       |
|--------------------------|----------------------------------|-------|----------------------------------|-------|----------------------------------|-------|----------------------------------|-------|----------------------------------|-------|
|                          | ZB078                            |       | ZB090                            |       | ZB102                            |       | ZB120                            |       | ZB150                            |       |
| Nominal Tonnage          | 6.5                              |       | 7.5                              |       | 8.5                              |       | 10                               |       | 12.5                             |       |
| Reheat option coil data  |                                  |       |                                  |       |                                  |       |                                  |       |                                  |       |
| Face area (sq. ft.)      | 10                               |       | 10                               |       | 10                               |       | 10                               |       | 10                               |       |
| Rows                     | 2                                |       | 2                                |       | 2                                |       | 2                                |       | 2                                |       |
| Fins per inch            | 13                               |       | 13                               |       | 13                               |       | 13                               |       | 13                               |       |
| Tube diameter            | 3/8                              |       | 3/8                              |       | 3/8                              |       | 3/8                              |       | 3/8                              |       |
| Condenser fan data       |                                  |       |                                  |       |                                  |       |                                  |       |                                  |       |
| Quantity of fans         | 2                                |       | 2                                |       | 2                                |       | 2                                |       | 4                                |       |
| Fan diameter (Inch)      | 24                               |       | 24                               |       | 24                               |       | 24                               |       | 24                               |       |
| Type                     | Prop                             |       | Prop                             |       | Prop                             |       | Prop                             |       | Prop                             |       |
| Drive type               | Direct                           |       | Direct                           |       | Direct                           |       | Direct                           |       | Direct                           |       |
| Quantity of motors       | 2                                |       | 2                                |       | 2                                |       | 2                                |       | 4                                |       |
| Motor HP each            | 3/4                              |       | 3/4                              |       | 3/4                              |       | 3/4                              |       | 1/3                              |       |
| No. speeds               | 1                                |       | 1                                |       | 1                                |       | 1                                |       | 1                                |       |
| RPM                      | 1110                             |       | 1110                             |       | 1110                             |       | 1110                             |       | 850                              |       |
| Total CFM                | 8000                             |       | 8000                             |       | 9000                             |       | 9400                             |       | 14000                            |       |
| Belt drive evap fan data |                                  |       |                                  |       |                                  |       |                                  |       |                                  |       |
| Quantity                 | 1                                |       | 1                                |       | 1                                |       | 1                                |       | 1                                |       |
| Fan Size (Inch)          | 15 x 15                          |       | 15 x 15                          |       | 15 x 15                          |       | 15 x 15                          |       | 15 x 15                          |       |
| Type                     | Centrifugal                      |       | Centrifugal                      |       | Centrifugal                      |       | Centrifugal                      |       | Centrifugal                      |       |
| Motor Sheave             | 1VL40                            | 1VM50 | 1VL40                            | 1VM50 | 1VM50                            | 1VM50 | 1VM50                            | 1VM50 | 1VM50                            | 1VP56 |
| Blower Sheave            | AK74                             | AK74  | AK69                             | AK69  | AK89                             | AK74  | AK84                             | AK74  | AK74                             | BK77  |
| Belt                     | A53                              | A54   | A52                              | A54   | A56                              | A54   | A56                              | A54   | A54                              | BX56  |
| Motor HP each            | 1-1/2                            | 2     | 1-1/2                            | 3     | 2                                | 3     | 2                                | 3     | 3                                | 5     |
| RPM                      | 1725                             | 1725  | 1725                             | 1725  | 1725                             | 1725  | 1725                             | 1725  | 1725                             | 1725  |
| Frame size               | 56                               | 56    | 56                               | 56    | 56                               | 56    | 56                               | 56    | 56                               | 184T  |
| Filters                  |                                  |       |                                  |       |                                  |       |                                  |       |                                  |       |
| Quantity - Size          | 4 - (24 x 20 x 2) <sup>5,6</sup> |       | 4 - (24 x 20 x 2) <sup>5,6</sup> |       | 4 - (24 x 20 x 2) <sup>5,6</sup> |       | 4 - (24 x 20 x 2) <sup>5,6</sup> |       | 4 - (24 x 20 x 2) <sup>5,6</sup> |       |
|                          | 4 - (24 x 20 x 4) <sup>7</sup>   |       | 4 - (24 x 20 x 4) <sup>7</sup>   |       | 4 - (24 x 20 x 4) <sup>7</sup>   |       | 4 - (24 x 20 x 4) <sup>7</sup>   |       | 4 - (24 x 20 x 4) <sup>7</sup>   |       |

1. Cooling Only Unit or Cooling Unit with Electric Heat
2. Cooling Unit with Gas Heat
3. 1st Stage 60% of 2nd stage
4. ZB078 through ZB150 have crankcase heaters standard.
5. 2 In. Throwaway, Standard, MERV (Minimum Efficiency Reporting Value).
6. 2 In. Pleated, Optional, MERV 8.
7. 4 In. Pleated, Optional, MERV 13.

## ZT/ZB037-150 unit limitations

| Size<br>(ton) | Model | Unit voltage | SCCR<br>(kVA) | Unit limitations |         |                  |
|---------------|-------|--------------|---------------|------------------|---------|------------------|
|               |       |              |               | Applied voltage  |         | Outdoor DB temp. |
|               |       |              |               | Minimum          | Maximum | Maximum (°F)     |
| 037<br>(3)    | ZT    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
|               |       | 575-3-60     | 5             | 540              | 630     | 125              |
| 049<br>(4)    | ZT    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
|               |       | 575-3-60     | 5             | 540              | 630     | 125              |
| 061<br>(5)    | ZT    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
|               |       | 575-3-60     | 5             | 540              | 630     | 125              |
| 078<br>(6.5)  | ZT    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
| 090<br>(7.5)  | ZT    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
| 102<br>(8.5)  | ZT    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
| 120<br>(10)   | ZT    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
| 150<br>(12.5) | ZT    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
| 078<br>(6.5)  | ZB    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
|               |       | 575-3-60     | 5             | 540              | 630     | 125              |
| 090<br>(7.5)  | ZB    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
|               |       | 575-3-60     | 5             | 540              | 630     | 125              |
| 102<br>(8.5)  | ZB    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
|               |       | 575-3-60     | 5             | 540              | 630     | 125              |
| 120<br>(10)   | ZB    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
|               |       | 575-3-60     | 5             | 540              | 630     | 125              |
| 150<br>(12.5) | ZB    | 208/230-3-60 | 5             | 187              | 252     | 125              |
|               |       | 460-3-60     | 5             | 432              | 504     | 125              |
|               |       | 575-3-60     | 5             | 540              | 630     | 125              |



# Capacity performance

## ZT037-150 cooling capacities

### ZT037 high speed compressor (3.0 ton)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |  |  |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |  |  |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   | 85°F                          |                         |      |      |      |      |      |  |  |
| 750                    | 77      | 49.3                                 | 1.9                           | 25.0                    | 20.9 | 16.7 | -    | -    | -    | 45.5                              | 2.2                           | 22.1                    | 19.0 | 15.9 | -    | -    | -    |  |  |
|                        | 72      | 43.4                                 | 1.9                           | 28.1                    | 24.1 | 20.2 | 16.2 | -    | -    | 40.8                              | 2.1                           | 26.7                    | 23.0 | 19.3 | 15.6 | -    | -    |  |  |
|                        | 67      | 37.4                                 | 1.9                           | 31.2                    | 27.4 | 23.6 | 19.5 | 15.9 | -    | 36.1                              | 2.1                           | 31.2                    | 27.0 | 22.7 | 18.8 | 15.0 | -    |  |  |
|                        | 62      | 35.5                                 | 1.9                           | 35.4                    | 31.2 | 27.1 | 22.6 | 19.5 | 15.7 | 34.0                              | 2.1                           | 33.8                    | 30.0 | 26.1 | 21.8 | 18.1 | 14.1 |  |  |
| 900                    | 77      | 49.8                                 | 1.9                           | 26.8                    | 21.8 | 16.8 | -    | -    | -    | 46.2                              | 2.2                           | 24.7                    | 20.3 | 15.9 | -    | -    | -    |  |  |
|                        | 72      | 44.7                                 | 1.9                           | 30.6                    | 25.9 | 21.3 | 16.6 | -    | -    | 42.1                              | 2.1                           | 29.2                    | 24.8 | 20.3 | 15.8 | -    | -    |  |  |
|                        | 67      | 39.6                                 | 1.9                           | 34.3                    | 30.0 | 25.7 | 20.9 | 16.4 | -    | 38.0                              | 2.1                           | 33.8                    | 29.3 | 24.7 | 20.0 | 15.4 | -    |  |  |
|                        | 62      | 37.5                                 | 1.9                           | 37.4                    | 33.8 | 30.2 | 25.0 | 20.9 | 16.2 | 35.8                              | 2.1                           | 35.7                    | 32.4 | 29.1 | 24.0 | 19.5 | 14.8 |  |  |
|                        | 57      | 35.4                                 | 1.9                           | 35.4                    | 35.4 | 34.7 | 30.0 | 25.3 | 20.6 | 33.6                              | 2.1                           | 33.6                    | 33.6 | 33.5 | 28.6 | 23.7 | 18.7 |  |  |
| 1050                   | 77      | 50.4                                 | 2.0                           | 28.6                    | 22.7 | 16.8 | -    | -    | -    | 47.0                              | 2.2                           | 27.3                    | 21.6 | 15.9 | -    | -    | -    |  |  |
|                        | 72      | 46.0                                 | 1.9                           | 33.0                    | 27.7 | 22.3 | 17.0 | -    | -    | 43.5                              | 2.2                           | 31.8                    | 26.5 | 21.3 | 16.0 | -    | -    |  |  |
|                        | 67      | 41.7                                 | 1.9                           | 37.4                    | 32.7 | 27.9 | 22.3 | 17.0 | -    | 40.0                              | 2.1                           | 36.4                    | 31.5 | 26.7 | 21.2 | 15.8 | -    |  |  |
|                        | 62      | 39.5                                 | 1.9                           | 39.4                    | 36.4 | 33.4 | 27.4 | 22.2 | 16.7 | 37.7                              | 2.1                           | 37.5                    | 34.8 | 32.1 | 26.3 | 21.0 | 15.4 |  |  |
|                        | 57      | 37.2                                 | 1.9                           | 37.2                    | 37.2 | 36.9 | 33.2 | 27.5 | 21.8 | 35.3                              | 2.1                           | 35.3                    | 35.3 | 35.3 | 31.8 | 26.1 | 20.4 |  |  |
| 1200                   | 77      | 50.9                                 | 2.0                           | 30.4                    | 23.6 | 16.8 | -    | -    | -    | 47.7                              | 2.2                           | 29.9                    | 22.9 | 15.9 | -    | -    | -    |  |  |
|                        | 72      | 47.4                                 | 1.9                           | 35.5                    | 29.4 | 23.4 | 17.4 | -    | -    | 44.8                              | 2.2                           | 34.4                    | 28.3 | 22.2 | 16.2 | -    | -    |  |  |
|                        | 67      | 43.8                                 | 1.9                           | 40.6                    | 35.3 | 30.0 | 23.7 | 17.5 | -    | 41.9                              | 2.2                           | 39.0                    | 33.8 | 28.6 | 22.4 | 16.2 | -    |  |  |
|                        | 62      | 41.4                                 | 1.9                           | 41.3                    | 39.0 | 36.6 | 29.8 | 23.6 | 17.1 | 39.5                              | 2.1                           | 39.4                    | 37.2 | 35.0 | 28.6 | 22.4 | 16.1 |  |  |
|                        | 57      | 39.0                                 | 1.9                           | 39.0                    | 39.0 | 39.0 | 36.5 | 29.7 | 23.0 | 37.1                              | 2.1                           | 37.1                    | 37.1 | 37.1 | 35.0 | 28.5 | 22.1 |  |  |
| 1350                   | 72      | 48.7                                 | 2.0                           | 37.9                    | 31.2 | 24.5 | 17.8 | -    | -    | 46.1                              | 2.2                           | 37.0                    | 30.1 | 23.2 | 16.3 | -    | -    |  |  |
|                        | 67      | 46.0                                 | 2.0                           | 43.7                    | 37.9 | 32.1 | 25.0 | 18.0 | -    | 43.8                              | 2.2                           | 41.6                    | 36.1 | 30.6 | 23.6 | 16.6 | -    |  |  |
|                        | 62      | 43.4                                 | 1.9                           | 43.3                    | 41.5 | 39.8 | 32.2 | 25.0 | 17.6 | 41.3                              | 2.1                           | 41.2                    | 39.6 | 38.0 | 30.8 | 23.8 | 16.7 |  |  |
|                        | 57      | 40.8                                 | 1.9                           | 40.8                    | 40.8 | 40.8 | 39.7 | 32.0 | 24.3 | 38.9                              | 2.1                           | 38.9                    | 38.9 | 38.9 | 38.2 | 31.0 | 23.8 |  |  |
| 1500                   | 72      | 50.0                                 | 2.0                           | 40.4                    | 33.0 | 25.6 | 18.2 | -    | -    | 47.5                              | 2.2                           | 39.6                    | 31.9 | 24.2 | 16.5 | -    | -    |  |  |
|                        | 67      | 48.1                                 | 2.0                           | 46.8                    | 40.5 | 34.3 | 26.4 | 18.6 | -    | 45.7                              | 2.2                           | 44.1                    | 38.4 | 32.6 | 24.8 | 17.0 | -    |  |  |
|                        | 62      | 45.3                                 | 1.9                           | 45.3                    | 44.1 | 42.9 | 34.7 | 26.4 | 18.1 | 43.2                              | 2.2                           | 43.1                    | 42.0 | 40.9 | 33.1 | 25.2 | 17.3 |  |  |
|                        | 57      | 42.5                                 | 1.9                           | 42.5                    | 42.5 | 42.5 | 42.5 | 34.2 | 25.5 | 40.6                              | 2.1                           | 40.6                    | 40.6 | 40.6 | 40.6 | 33.4 | 25.4 |  |  |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   | 105°F                         |                         |      |      |      |      |      |  |  |
| 750                    | 77      | 41.7                                 | 2.4                           | 19.2                    | 17.1 | 15.0 | -    | -    | -    | 39.3                              | 2.7                           | 18.9                    | 16.8 | 14.8 | -    | -    | -    |  |  |
|                        | 72      | 38.3                                 | 2.3                           | 25.2                    | 21.8 | 18.4 | 15.0 | -    | -    | 35.4                              | 2.7                           | 24.0                    | 20.8 | 17.5 | 14.2 | -    | -    |  |  |
|                        | 67      | 34.8                                 | 2.3                           | 31.2                    | 26.5 | 21.8 | 18.0 | 14.2 | -    | 31.7                              | 2.7                           | 29.2                    | 24.7 | 20.2 | 16.7 | 13.1 | -    |  |  |
|                        | 62      | 32.4                                 | 2.3                           | 32.2                    | 28.7 | 25.2 | 21.0 | 16.8 | 12.6 | 30.3                              | 2.7                           | 30.0                    | 26.5 | 22.9 | 19.1 | 15.3 | 11.5 |  |  |
| 900                    | 77      | 42.6                                 | 2.4                           | 22.6                    | 18.8 | 15.0 | -    | -    | -    | 39.5                              | 2.7                           | 22.1                    | 18.3 | 14.5 | -    | -    | -    |  |  |
|                        | 72      | 39.6                                 | 2.4                           | 27.9                    | 23.6 | 19.3 | 15.0 | -    | -    | 36.5                              | 2.7                           | 26.6                    | 22.4 | 18.2 | 14.0 | -    | -    |  |  |
|                        | 67      | 36.5                                 | 2.3                           | 33.3                    | 28.5 | 23.6 | 19.0 | 14.5 | -    | 33.5                              | 2.7                           | 31.1                    | 26.5 | 21.9 | 17.6 | 13.2 | -    |  |  |
|                        | 62      | 34.1                                 | 2.3                           | 34.0                    | 31.0 | 28.0 | 23.1 | 18.2 | 13.4 | 31.8                              | 2.7                           | 31.6                    | 28.6 | 25.6 | 21.1 | 16.6 | 12.1 |  |  |
|                        | 57      | 31.8                                 | 2.3                           | 31.8                    | 31.8 | 31.8 | 27.2 | 22.0 | 16.9 | 30.2                              | 2.7                           | 30.2                    | 30.2 | 29.4 | 24.7 | 20.0 | 15.3 |  |  |
| 1050                   | 77      | 43.6                                 | 2.4                           | 26.0                    | 20.4 | 14.9 | -    | -    | -    | 39.8                              | 2.7                           | 25.3                    | 19.8 | 14.2 | -    | -    | -    |  |  |
|                        | 72      | 40.9                                 | 2.4                           | 30.7                    | 25.4 | 20.2 | 15.0 | -    | -    | 37.7                              | 2.7                           | 29.2                    | 24.0 | 18.9 | 13.8 | -    | -    |  |  |
|                        | 67      | 38.2                                 | 2.4                           | 35.4                    | 30.4 | 25.5 | 20.1 | 14.7 | -    | 35.3                              | 2.7                           | 33.0                    | 28.3 | 23.6 | 18.5 | 13.3 | -    |  |  |
|                        | 62      | 35.9                                 | 2.3                           | 35.7                    | 33.2 | 30.7 | 25.2 | 19.7 | 14.2 | 33.4                              | 2.7                           | 33.2                    | 30.8 | 28.4 | 23.1 | 17.9 | 12.7 |  |  |
|                        | 57      | 33.5                                 | 2.3                           | 33.5                    | 33.5 | 33.5 | 30.3 | 24.7 | 19.0 | 31.6                              | 2.7                           | 31.6                    | 31.6 | 31.6 | 27.8 | 22.5 | 17.2 |  |  |
| 1200                   | 77      | 44.6                                 | 2.4                           | 29.4                    | 22.1 | 14.9 | -    | -    | -    | 40.1                              | 2.7                           | 28.6                    | 21.2 | 13.9 | -    | -    | -    |  |  |
|                        | 72      | 42.3                                 | 2.4                           | 33.4                    | 27.2 | 21.1 | 14.9 | -    | -    | 38.8                              | 2.7                           | 31.7                    | 25.7 | 19.6 | 13.6 | -    | -    |  |  |
|                        | 67      | 40.0                                 | 2.4                           | 37.4                    | 32.3 | 27.3 | 21.1 | 15.0 | -    | 37.0                              | 2.7                           | 34.9                    | 30.1 | 25.4 | 19.4 | 13.4 | -    |  |  |
|                        | 62      | 37.6                                 | 2.4                           | 37.4                    | 35.4 | 33.5 | 27.3 | 21.1 | 15.0 | 35.0                              | 2.7                           | 34.8                    | 33.0 | 31.1 | 25.2 | 19.2 | 13.3 |  |  |
|                        | 57      | 35.2                                 | 2.3                           | 35.2                    | 35.2 | 35.2 | 33.5 | 27.3 | 21.1 | 32.9                              | 2.7                           | 32.9                    | 32.9 | 32.9 | 31.0 | 25.1 | 19.2 |  |  |
| 1350                   | 72      | 43.6                                 | 2.4                           | 36.1                    | 29.0 | 22.0 | 14.9 | -    | -    | 40.0                              | 2.7                           | 34.3                    | 27.3 | 20.3 | 13.3 | -    | -    |  |  |
|                        | 67      | 41.7                                 | 2.4                           | 39.5                    | 34.3 | 29.1 | 22.1 | 15.2 | -    | 38.8                              | 2.7                           | 36.8                    | 31.9 | 27.1 | 20.3 | 13.5 | -    |  |  |
|                        | 62      | 39.3                                 | 2.4                           | 39.2                    | 37.7 | 36.2 | 29.4 | 22.6 | 15.8 | 36.6                              | 2.7                           | 36.4                    | 35.1 | 33.9 | 27.2 | 20.5 | 13.9 |  |  |
|                        | 57      | 37.0                                 | 2.3                           | 37.0                    | 37.0 | 37.0 | 36.6 | 30.0 | 23.3 | 34.3                              | 2.7                           | 34.3                    | 34.3 | 34.3 | 34.1 | 27.6 | 21.1 |  |  |
| 1500                   | 72      | 44.9                                 | 2.4                           | 38.8                    | 30.8 | 22.9 | 14.9 | -    | -    | 41.1                              | 2.7                           | 36.9                    | 29.0 | 21.0 | 13.1 | -    | -    |  |  |
|                        | 67      | 43.4                                 | 2.4                           | 41.5                    | 36.2 | 30.9 | 23.2 | 15.4 | -    | 40.6                              | 2.8                           | 38.7                    | 33.8 | 28.8 | 21.2 | 13.5 | -    |  |  |
|                        | 62      | 41.0                                 | 2.4                           | 40.9                    | 39.9 | 39.0 | 31.5 | 24.0 | 16.6 | 38.1                              | 2.7                           | 38.0                    | 37.3 | 36.6 | 29.2 | 21.9 | 14.5 |  |  |
|                        | 57      | 38.7                                 | 2.3                           | 38.7                    | 38.7 | 38.7 | 38.7 | 32.6 | 25.4 | 35.7                              | 2.7                           | 35.7                    | 35.7 | 35.7 | 35.7 | 30.2 | 23.1 |  |  |

**ZT037 high speed compressor (3.0 ton) (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 750                    | 77      | 36.9                                 | 3.0                           | 18.6                    | 16.5 | 14.5 | -    | -    | -    | 34.4                              | 3.3                           | 18.2                    | 16.3 | 14.3 | -    | -    | -    |
|                        | 72      | 32.4                                 | 3.0                           | 22.8                    | 19.7 | 16.6 | 13.4 | -    | -    | 29.5                              | 3.3                           | 21.6                    | 18.6 | 15.6 | 12.6 | -    | -    |
|                        | 67      | 28.6                                 | 3.0                           | 27.1                    | 22.8 | 18.6 | 15.3 | 12.0 | -    | 25.4                              | 3.4                           | 25.0                    | 21.0 | 16.9 | 13.9 | 10.9 | -    |
|                        | 62      | 28.1                                 | 3.0                           | 27.8                    | 24.2 | 20.6 | 17.2 | 13.8 | 10.3 | 26.0                              | 3.3                           | 25.7                    | 22.0 | 18.3 | 15.2 | 12.2 | 9.2  |
| 900                    | 77      | 36.4                                 | 3.0                           | 21.6                    | 17.8 | 14.0 | -    | -    | -    | 33.3                              | 3.3                           | 21.2                    | 17.3 | 13.5 | -    | -    | -    |
|                        | 72      | 33.4                                 | 3.0                           | 25.2                    | 21.2 | 17.1 | 13.0 | -    | -    | 30.4                              | 3.4                           | 23.9                    | 19.9 | 16.0 | 12.0 | -    | -    |
|                        | 67      | 30.4                                 | 3.0                           | 28.8                    | 24.5 | 20.2 | 16.1 | 11.9 | -    | 27.4                              | 3.4                           | 26.6                    | 22.5 | 18.5 | 14.6 | 10.7 | -    |
|                        | 62      | 29.5                                 | 3.0                           | 29.3                    | 26.3 | 23.3 | 19.1 | 14.9 | 10.7 | 27.2                              | 3.3                           | 26.9                    | 24.0 | 21.0 | 17.1 | 13.3 | 9.4  |
|                        | 57      | 28.6                                 | 3.0                           | 28.6                    | 28.1 | 26.4 | 22.2 | 17.9 | 13.7 | 27.1                              | 3.3                           | 27.1                    | 25.4 | 23.5 | 19.7 | 15.9 | 12.1 |
| 1050                   | 77      | 36.0                                 | 3.0                           | 24.7                    | 19.1 | 13.4 | -    | -    | -    | 32.2                              | 3.3                           | 24.1                    | 18.4 | 12.6 | -    | -    | -    |
|                        | 72      | 34.4                                 | 3.0                           | 27.7                    | 22.6 | 17.6 | 12.6 | -    | -    | 31.2                              | 3.4                           | 26.2                    | 21.2 | 16.3 | 11.4 | -    | -    |
|                        | 67      | 32.3                                 | 3.0                           | 30.6                    | 26.2 | 21.8 | 16.8 | 11.9 | -    | 29.3                              | 3.4                           | 28.2                    | 24.1 | 20.0 | 15.2 | 10.4 | -    |
|                        | 62      | 31.0                                 | 3.0                           | 30.7                    | 28.4 | 26.1 | 21.1 | 16.1 | 11.2 | 28.5                              | 3.3                           | 28.2                    | 26.0 | 23.7 | 19.0 | 14.3 | 9.7  |
|                        | 57      | 29.6                                 | 3.0                           | 29.6                    | 29.6 | 29.6 | 25.3 | 20.4 | 15.5 | 27.7                              | 3.3                           | 27.7                    | 27.7 | 27.4 | 22.8 | 18.3 | 13.7 |
| 1200                   | 77      | 35.6                                 | 3.0                           | 27.8                    | 20.3 | 12.8 | -    | -    | -    | 31.1                              | 3.3                           | 27.0                    | 19.4 | 11.8 | -    | -    | -    |
|                        | 72      | 35.4                                 | 3.0                           | 30.1                    | 24.1 | 18.2 | 12.2 | -    | -    | 32.0                              | 3.4                           | 28.4                    | 22.6 | 16.7 | 10.8 | -    | -    |
|                        | 67      | 34.1                                 | 3.1                           | 32.3                    | 27.9 | 23.5 | 17.6 | 11.8 | -    | 31.2                              | 3.4                           | 29.8                    | 25.7 | 21.6 | 15.9 | 10.2 | -    |
|                        | 62      | 32.4                                 | 3.0                           | 32.1                    | 30.5 | 28.8 | 23.1 | 17.3 | 11.6 | 29.8                              | 3.3                           | 29.5                    | 28.0 | 26.5 | 20.9 | 15.4 | 9.9  |
|                        | 57      | 30.6                                 | 3.0                           | 30.6                    | 30.6 | 30.6 | 28.5 | 22.8 | 17.2 | 28.3                              | 3.3                           | 28.3                    | 28.3 | 28.3 | 26.0 | 20.6 | 15.3 |
| 1350                   | 72      | 36.4                                 | 3.0                           | 32.5                    | 25.6 | 18.7 | 11.8 | -    | -    | 32.8                              | 3.4                           | 30.7                    | 23.9 | 17.1 | 10.3 | -    | -    |
|                        | 67      | 36.0                                 | 3.1                           | 34.1                    | 29.6 | 25.1 | 18.4 | 11.7 | -    | 33.1                              | 3.4                           | 31.4                    | 27.3 | 23.1 | 16.5 | 10.0 | -    |
|                        | 62      | 33.8                                 | 3.0                           | 33.6                    | 32.6 | 31.5 | 25.0 | 18.5 | 12.0 | 31.0                              | 3.4                           | 30.8                    | 30.0 | 29.2 | 22.8 | 16.5 | 10.1 |
|                        | 57      | 31.6                                 | 3.0                           | 31.6                    | 31.6 | 31.6 | 31.6 | 25.3 | 19.0 | 28.9                              | 3.3                           | 28.9                    | 28.9 | 28.9 | 28.9 | 23.0 | 16.8 |
| 1500                   | 72      | 37.4                                 | 3.1                           | 34.9                    | 27.1 | 19.2 | 11.4 | -    | -    | 33.6                              | 3.4                           | -                       | 25.2 | 17.4 | 9.7  | -    | -    |
|                        | 67      | 37.8                                 | 3.1                           | 35.8                    | 31.3 | 26.7 | 19.2 | 11.6 | -    | 35.1                              | 3.4                           | -                       | 28.8 | 24.7 | 17.2 | 9.7  | -    |
|                        | 62      | 35.2                                 | 3.0                           | 35.0                    | 34.6 | 34.3 | 27.0 | 19.7 | 12.4 | 32.3                              | 3.4                           | -                       | 32.0 | 31.9 | 24.7 | 17.5 | 10.3 |
|                        | 57      | 32.6                                 | 3.0                           | 32.6                    | 32.6 | 32.6 | 32.6 | 27.8 | 20.7 | 29.6                              | 3.3                           | -                       | 29.6 | 29.6 | 29.6 | 25.3 | 18.4 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT037 low speed compressor (3.0 ton)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 750                    | 77      | 38.7                                 | 1.2                           | 19.8                    | 16.4 | 13.1 | -    | -    | -    | 35.0                              | 1.4                           | 18.5                    | 15.0 | 11.5 | -    | -    | -    |
|                        | 72      | 34.6                                 | 1.2                           | 24.6                    | 20.6 | 16.6 | 12.7 | -    | -    | 31.8                              | 1.4                           | 23.0                    | 19.2 | 15.3 | 11.4 | -    | -    |
|                        | 67      | 30.5                                 | 1.2                           | 29.3                    | 24.8 | 20.2 | 16.3 | 12.5 | -    | 28.6                              | 1.4                           | 27.5                    | 23.3 | 19.1 | 15.2 | 11.3 | -    |
|                        | 62      | 29.6                                 | 1.2                           | 29.1                    | 26.4 | 23.7 | 18.6 | 16.3 | 12.7 | 27.6                              | 1.4                           | 27.3                    | 25.1 | 22.9 | 18.3 | 15.0 | 11.0 |
| 900                    | 77      | 39.0                                 | 1.2                           | 23.1                    | 18.3 | 13.4 | -    | -    | -    | 35.6                              | 1.4                           | 21.9                    | 16.8 | 11.7 | -    | -    | -    |
|                        | 72      | 35.7                                 | 1.2                           | 27.1                    | 22.4 | 17.8 | 13.1 | -    | -    | 33.0                              | 1.4                           | 25.5                    | 20.9 | 16.4 | 11.8 | -    | -    |
|                        | 67      | 32.4                                 | 1.2                           | 31.1                    | 26.6 | 22.1 | 17.5 | 13.0 | -    | 30.3                              | 1.4                           | 29.1                    | 25.1 | 21.0 | 16.3 | 11.7 | -    |
|                        | 62      | 31.3                                 | 1.2                           | 30.9                    | 28.7 | 26.5 | 20.9 | 17.6 | 13.1 | 29.2                              | 1.4                           | 28.9                    | 27.3 | 25.7 | 20.4 | 16.2 | 11.5 |
|                        | 57      | 30.2                                 | 1.2                           | 30.2                    | 30.2 | 30.2 | 26.4 | 22.1 | 17.8 | 28.0                              | 1.4                           | 28.0                    | 28.0 | 28.0 | 25.5 | 20.7 | 15.9 |
| 1050                   | 77      | 39.4                                 | 1.2                           | 26.5                    | 20.1 | 13.8 | -    | -    | -    | 36.2                              | 1.4                           | 25.2                    | 18.6 | 11.9 | -    | -    | -    |
|                        | 72      | 36.9                                 | 1.2                           | 29.7                    | 24.3 | 18.9 | 13.6 | -    | -    | 34.1                              | 1.4                           | 28.0                    | 22.7 | 17.4 | 12.1 | -    | -    |
|                        | 67      | 34.3                                 | 1.2                           | 32.9                    | 28.5 | 24.1 | 18.8 | 13.5 | -    | 32.0                              | 1.4                           | 30.7                    | 26.8 | 22.9 | 17.5 | 12.1 | -    |
|                        | 62      | 33.0                                 | 1.2                           | 32.6                    | 30.9 | 29.2 | 23.1 | 18.8 | 13.5 | 30.7                              | 1.4                           | 30.5                    | 29.5 | 28.4 | 22.5 | 17.4 | 11.9 |
|                        | 57      | 31.6                                 | 1.2                           | 31.6                    | 31.6 | 31.6 | 29.2 | 24.0 | 18.9 | 29.5                              | 1.4                           | 29.5                    | 29.5 | 29.5 | 28.3 | 22.7 | 17.0 |
| 1200                   | 77      | 39.7                                 | 1.2                           | 29.8                    | 22.0 | 14.2 | -    | -    | -    | 36.7                              | 1.4                           | 28.6                    | 20.3 | 12.1 | -    | -    | -    |
|                        | 72      | 38.0                                 | 1.2                           | 32.2                    | 26.2 | 20.1 | 14.0 | -    | -    | 35.2                              | 1.4                           | 30.5                    | 24.5 | 18.5 | 12.5 | -    | -    |
|                        | 67      | 36.2                                 | 1.2                           | 34.6                    | 30.3 | 26.0 | 20.0 | 14.0 | -    | 33.7                              | 1.4                           | 32.3                    | 28.6 | 24.8 | 18.7 | 12.5 | -    |
|                        | 62      | 34.6                                 | 1.2                           | 34.4                    | 33.2 | 32.0 | 25.4 | 20.0 | 13.9 | 32.3                              | 1.4                           | 32.1                    | 31.7 | 31.2 | 24.6 | 18.6 | 12.3 |
|                        | 57      | 33.0                                 | 1.2                           | 33.0                    | 33.0 | 33.0 | 31.9 | 26.0 | 20.0 | 30.9                              | 1.4                           | 30.9                    | 30.9 | 30.9 | 30.9 | 24.7 | 18.2 |
| 1350                   | 72      | 39.1                                 | 1.2                           | 34.8                    | 28.0 | 21.3 | 14.5 | -    | -    | 36.4                              | 1.4                           | 32.9                    | 26.2 | 19.5 | 12.8 | -    | -    |
|                        | 67      | 38.1                                 | 1.2                           | 36.4                    | 32.2 | 28.0 | 21.2 | 14.5 | -    | 35.4                              | 1.4                           | 33.9                    | 30.3 | 26.7 | 19.8 | 12.9 | -    |
|                        | 62      | 36.3                                 | 1.2                           | 36.1                    | 35.4 | 34.8 | 27.7 | 21.2 | 14.4 | 33.9                              | 1.4                           | 33.8                    | 33.8 | 33.8 | 26.7 | 19.8 | 12.7 |
|                        | 57      | 34.4                                 | 1.2                           | 34.4                    | 34.4 | 34.4 | 34.4 | 27.9 | 21.1 | 32.3                              | 1.3                           | 32.3                    | 32.3 | 32.3 | 32.3 | 26.6 | 19.4 |
| 1500                   | 72      | 40.2                                 | 1.2                           | -                       | 29.9 | 22.4 | 15.0 | -    | -    | 37.5                              | 1.3                           | -                       | 28.0 | 20.6 | 13.1 | -    | -    |
|                        | 67      | 40.0                                 | 1.2                           | -                       | 34.0 | 30.0 | 22.5 | 14.9 | -    | 37.1                              | 1.3                           | -                       | 32.1 | 28.6 | 21.0 | 13.4 | -    |
|                        | 62      | 37.9                                 | 1.1                           | -                       | 37.7 | 37.5 | 29.9 | 22.4 | 14.8 | 35.5                              | 1.3                           | -                       | 35.4 | 35.4 | 28.8 | 21.0 | 13.1 |
|                        | 57      | 35.9                                 | 1.1                           | -                       | 35.9 | 35.9 | 35.9 | 29.8 | 22.2 | 33.8                              | 1.3                           | -                       | 33.8 | 33.8 | 33.8 | 28.6 | 20.5 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |      |
| 750                    | 77      | 31.4                                 | 1.6                           | 17.3                    | 13.6 | 9.9  | -    | -    | -    | 27.8                              | 1.9                           | 18.0                    | 13.9 | 9.9  | -    | -    | -    |
|                        | 72      | 29.0                                 | 1.6                           | 21.5                    | 17.8 | 14.0 | 10.2 | -    | -    | 26.1                              | 1.9                           | 20.7                    | 17.0 | 13.3 | 9.6  | -    | -    |
|                        | 67      | 26.7                                 | 1.6                           | 25.7                    | 21.9 | 18.1 | 14.1 | 10.0 | -    | 24.6                              | 1.9                           | 23.5                    | 20.1 | 16.7 | 12.7 | 8.8  | -    |
|                        | 62      | 25.6                                 | 1.6                           | 25.4                    | 23.8 | 22.2 | 17.9 | 13.7 | 9.4  | 24.1                              | 1.9                           | 23.3                    | 21.7 | 20.1 | 15.9 | 11.8 | 7.6  |
| 900                    | 77      | 32.2                                 | 1.6                           | 20.7                    | 15.3 | 9.9  | -    | -    | -    | 28.4                              | 1.9                           | 20.5                    | 14.9 | 9.3  | -    | -    | -    |
|                        | 72      | 30.2                                 | 1.6                           | 23.9                    | 19.4 | 14.9 | 10.4 | -    | -    | 27.2                              | 1.9                           | 22.7                    | 18.2 | 13.8 | 9.3  | -    | -    |
|                        | 67      | 28.2                                 | 1.6                           | 27.2                    | 23.5 | 19.9 | 15.2 | 10.4 | -    | 26.0                              | 1.9                           | 24.8                    | 21.5 | 18.3 | 13.7 | 9.0  | -    |
|                        | 62      | 27.1                                 | 1.6                           | 26.9                    | 25.9 | 24.9 | 19.9 | 14.8 | 9.8  | 25.3                              | 1.9                           | 24.7                    | 23.7 | 22.8 | 18.0 | 13.2 | 8.4  |
|                        | 57      | 25.9                                 | 1.6                           | 25.9                    | 25.9 | 25.9 | 24.6 | 19.3 | 14.0 | 24.6                              | 1.9                           | 24.5                    | 24.5 | 24.5 | 22.3 | 17.4 | 12.5 |
| 1050                   | 77      | 32.9                                 | 1.6                           | 24.0                    | 17.0 | 10.0 | -    | -    | -    | 29.1                              | 1.9                           | 23.0                    | 15.8 | 8.6  | -    | -    | -    |
|                        | 72      | 31.3                                 | 1.6                           | 26.3                    | 21.1 | 15.9 | 10.7 | -    | -    | 28.3                              | 1.9                           | 24.6                    | 19.4 | 14.2 | 9.0  | -    | -    |
|                        | 67      | 29.7                                 | 1.6                           | 28.6                    | 25.2 | 21.8 | 16.2 | 10.7 | -    | 27.4                              | 1.9                           | 26.1                    | 23.0 | 19.8 | 14.6 | 9.3  | -    |
|                        | 62      | 28.5                                 | 1.6                           | 28.4                    | 28.0 | 27.6 | 21.8 | 16.0 | 10.2 | 26.5                              | 1.8                           | 26.0                    | 25.7 | 25.5 | 20.1 | 14.7 | 9.2  |
|                        | 57      | 27.4                                 | 1.6                           | 27.4                    | 27.4 | 27.4 | 27.4 | 21.3 | 15.2 | 25.6                              | 1.8                           | 25.6                    | 25.6 | 25.6 | 25.3 | 19.5 | 13.7 |
| 1200                   | 77      | 33.7                                 | 1.6                           | 27.4                    | 18.7 | 10.0 | -    | -    | -    | 29.7                              | 1.9                           | 25.6                    | 16.8 | 7.9  | -    | -    | -    |
|                        | 72      | 32.5                                 | 1.6                           | 28.7                    | 22.8 | 16.8 | 10.9 | -    | -    | 29.5                              | 1.8                           | 26.5                    | 20.6 | 14.7 | 8.8  | -    | -    |
|                        | 67      | 31.2                                 | 1.6                           | 30.0                    | 26.8 | 23.6 | 17.3 | 11.1 | -    | 28.8                              | 1.8                           | 27.4                    | 24.4 | 21.4 | 15.5 | 9.5  | -    |
|                        | 62      | 30.0                                 | 1.6                           | 29.9                    | 29.9 | 29.9 | 23.8 | 17.2 | 10.6 | 27.7                              | 1.8                           | 27.3                    | 27.3 | 27.3 | 22.1 | 16.1 | 10.0 |
|                        | 57      | 28.8                                 | 1.6                           | 28.8                    | 28.8 | 28.8 | 28.8 | 23.4 | 16.5 | 26.6                              | 1.8                           | 26.6                    | 26.6 | 26.6 | 26.6 | 21.6 | 15.0 |
| 1350                   | 72      | 33.6                                 | 1.6                           | 31.1                    | 24.4 | 17.8 | 11.1 | -    | -    | 30.6                              | 1.8                           | 28.4                    | 21.8 | 15.2 | 8.5  | -    | -    |
|                        | 67      | 32.8                                 | 1.6                           | 31.5                    | 28.5 | 25.4 | 18.4 | 11.4 | -    | 30.2                              | 1.8                           | 28.7                    | 25.8 | 23.0 | 16.4 | 9.7  | -    |
|                        | 62      | 31.5                                 | 1.5                           | 31.4                    | 31.4 | 31.4 | 25.7 | 18.4 | 11.1 | 28.9                              | 1.8                           | 28.6                    | 28.6 | 28.6 | 24.2 | 17.5 | 10.8 |
|                        | 57      | 30.2                                 | 1.5                           | 30.2                    | 30.2 | 30.2 | 30.2 | 25.4 | 17.7 | 27.7                              | 1.8                           | 27.7                    | 27.7 | 27.7 | 27.7 | 23.7 | 16.2 |
| 1500                   | 72      | 34.8                                 | 1.5                           | -                       | 26.1 | 18.7 | 11.3 | -    | -    | 31.7                              | 1.8                           | -                       | 23.0 | 15.6 | 8.3  | -    | -    |
|                        | 67      | 34.3                                 | 1.5                           | -                       | 30.1 | 27.3 | 19.5 | 11.8 | -    | 31.6                              | 1.8                           | -                       | 27.3 | 24.6 | 17.3 | 9.9  | -    |
|                        | 62      | 33.0                                 | 1.5                           | -                       | 32.9 | 32.9 | 27.7 | 19.6 | 11.5 | 30.1                              | 1.8                           | -                       | 30.0 | 30.0 | 26.3 | 18.9 | 11.6 |
|                        | 57      | 31.7                                 | 1.5                           | -                       | 31.7 | 31.7 | 31.7 | 27.4 | 18.9 | 28.7                              | 1.8                           | -                       | 28.7 | 28.7 | 28.7 | 25.9 | 17.5 |

**ZT037 low speed compressor (3.0 ton) (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 750                    | 77      | 24.2                                 | 2.2                           | 18.6                    | 14.3 | 9.9  | -    | -    | -    | 20.5                              | 2.5                           | 19.3                    | 14.6 | 10.0 | -    | -    | -    |
|                        | 72      | 23.1                                 | 2.2                           | 20.0                    | 16.3 | 12.6 | 8.9  | -    | -    | 20.1                              | 2.5                           | 19.2                    | 15.6 | 11.9 | 8.3  | -    | -    |
|                        | 67      | 22.5                                 | 2.2                           | 21.3                    | 18.3 | 15.3 | 11.4 | 7.6  | -    | 20.4                              | 2.4                           | 19.1                    | 16.5 | 13.9 | 10.1 | 6.4  | -    |
|                        | 62      | 22.5                                 | 2.1                           | 21.3                    | 19.6 | 18.0 | 13.9 | 9.9  | 5.9  | 21.0                              | 2.4                           | 19.2                    | 17.5 | 15.8 | 11.9 | 8.0  | 4.1  |
| 900                    | 77      | 24.7                                 | 2.2                           | 20.3                    | 14.5 | 8.6  | -    | -    | -    | 20.9                              | 2.5                           | -                       | 14.0 | 7.9  | -    | -    | -    |
|                        | 72      | 24.2                                 | 2.2                           | 21.4                    | 17.0 | 12.6 | 8.2  | -    | -    | 21.2                              | 2.4                           | -                       | 15.8 | 11.4 | 7.1  | -    | -    |
|                        | 67      | 23.7                                 | 2.1                           | 22.4                    | 19.5 | 16.6 | 12.2 | 7.7  | -    | 21.5                              | 2.4                           | -                       | 17.5 | 15.0 | 10.7 | 6.3  | -    |
|                        | 62      | 23.5                                 | 2.1                           | 22.4                    | 21.5 | 20.6 | 16.1 | 11.6 | 7.1  | 21.7                              | 2.4                           | -                       | 19.3 | 18.5 | 14.2 | 10.0 | 5.7  |
|                        | 57      | 23.2                                 | 2.1                           | 22.4                    | 22.4 | 22.4 | 20.1 | 15.5 | 10.9 | 21.9                              | 2.4                           | -                       | 20.3 | 20.3 | 17.8 | 13.6 | 9.4  |
| 1050                   | 77      | 25.2                                 | 2.2                           | 22.1                    | 14.6 | 7.2  | -    | -    | -    | 21.3                              | 2.4                           | 21.1                    | 13.5 | 5.8  | -    | -    | -    |
|                        | 72      | 25.3                                 | 2.1                           | 22.8                    | 17.7 | 12.6 | 7.4  | -    | -    | 22.3                              | 2.4                           | 21.1                    | 16.0 | 10.9 | 5.8  | -    | -    |
|                        | 67      | 25.0                                 | 2.1                           | 23.6                    | 20.8 | 17.9 | 12.9 | 7.8  | -    | 22.7                              | 2.4                           | 21.1                    | 18.6 | 16.0 | 11.2 | 6.3  | -    |
|                        | 62      | 24.4                                 | 2.1                           | 23.6                    | 23.4 | 23.3 | 18.3 | 13.3 | 8.3  | 22.4                              | 2.4                           | 21.2                    | 21.2 | 21.1 | 16.5 | 11.9 | 7.3  |
|                        | 57      | 23.9                                 | 2.1                           | 23.6                    | 23.6 | 23.6 | 23.2 | 17.7 | 12.2 | 22.1                              | 2.4                           | 21.3                    | 21.3 | 21.3 | 21.1 | 15.9 | 10.7 |
| 1200                   | 77      | 25.7                                 | 2.1                           | 23.8                    | 14.8 | 5.8  | -    | -    | -    | 21.7                              | 2.4                           | 21.7                    | 12.9 | 3.7  | -    | -    | -    |
|                        | 72      | 26.5                                 | 2.1                           | 24.3                    | 18.4 | 12.6 | 6.7  | -    | -    | 23.5                              | 2.4                           | 22.0                    | 16.2 | 10.4 | 4.6  | -    | -    |
|                        | 67      | 26.3                                 | 2.1                           | 24.7                    | 22.0 | 19.3 | 13.6 | 7.9  | -    | 23.8                              | 2.4                           | 22.1                    | 19.6 | 17.1 | 11.7 | 6.3  | -    |
|                        | 62      | 25.4                                 | 2.1                           | 24.7                    | 24.7 | 24.7 | 20.5 | 15.0 | 9.4  | 23.1                              | 2.4                           | 22.2                    | 22.2 | 22.2 | 18.8 | 13.8 | 8.8  |
|                        | 57      | 24.5                                 | 2.1                           | 24.5                    | 24.5 | 24.5 | 24.5 | 19.9 | 13.5 | 22.3                              | 2.4                           | 22.3                    | 22.3 | 22.3 | 22.3 | 18.2 | 12.0 |
| 1350                   | 72      | 27.6                                 | 2.1                           | 25.7                    | 19.1 | 12.5 | 6.0  | -    | -    | 24.6                              | 2.4                           | 23.0                    | 16.5 | 9.9  | 3.4  | -    | -    |
|                        | 67      | 27.5                                 | 2.1                           | 25.9                    | 23.2 | 20.6 | 14.3 | 8.0  | -    | 24.9                              | 2.4                           | 23.1                    | 20.6 | 18.2 | 12.2 | 6.3  | -    |
|                        | 62      | 26.3                                 | 2.1                           | 25.9                    | 25.9 | 25.9 | 22.7 | 16.6 | 10.6 | 23.7                              | 2.4                           | 23.2                    | 23.2 | 23.2 | 21.1 | 15.8 | 10.4 |
|                        | 57      | 25.1                                 | 2.1                           | 25.1                    | 25.1 | 25.1 | 25.1 | 22.1 | 14.8 | 22.5                              | 2.4                           | 22.5                    | 22.5 | 22.5 | 22.5 | 20.5 | 13.3 |
| 1500                   | 72      | 28.7                                 | 2.1                           | -                       | 19.8 | 12.5 | 5.2  | -    | -    | 25.7                              | 2.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 28.8                                 | 2.1                           | -                       | 24.5 | 21.9 | 15.0 | 8.1  | -    | 26.1                              | 2.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 62      | 27.3                                 | 2.1                           | -                       | 27.1 | 27.1 | 24.8 | 18.3 | 11.8 | 24.4                              | 2.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 57      | 25.7                                 | 2.1                           | -                       | 25.7 | 25.7 | 25.7 | 24.3 | 16.1 | 22.7                              | 2.4                           | -                       | -    | -    | -    | -    | -    |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT049 high speed compressor (4.0 ton)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   | 85°F                          |                         |      |      |      |      |      |
| 1000                   | 77      | 67.2                                 | 2.6                           | 32.6                    | 27.0 | 21.4 | -    | -    | -    | 64.1                              | 2.9                           | 29.5                    | 24.7 | 19.8 | -    | -    | -    |
|                        | 72      | 60.1                                 | 2.5                           | 38.7                    | 33.3 | 27.9 | 22.5 | -    | -    | 57.1                              | 2.8                           | 36.6                    | 31.4 | 26.2 | 21.0 | -    | -    |
|                        | 67      | 53.1                                 | 2.5                           | 44.8                    | 39.6 | 34.5 | 27.9 | 22.6 | -    | 50.0                              | 2.8                           | 43.6                    | 38.1 | 32.6 | 26.6 | 21.3 | -    |
|                        | 62      | 49.5                                 | 2.5                           | 49.4                    | 45.2 | 41.0 | 32.4 | 28.1 | 21.7 | 47.4                              | 2.8                           | 47.3                    | 43.1 | 39.0 | 31.8 | 26.7 | 20.6 |
| 1200                   | 77      | 67.6                                 | 2.6                           | 35.7                    | 28.7 | 21.7 | -    | -    | -    | 64.0                              | 2.9                           | 33.6                    | 26.9 | 20.2 | -    | -    | -    |
|                        | 72      | 61.3                                 | 2.6                           | 42.0                    | 35.6 | 29.3 | 22.9 | -    | -    | 57.9                              | 2.9                           | 40.1                    | 33.8 | 27.5 | 21.3 | -    | -    |
|                        | 67      | 54.9                                 | 2.5                           | 48.2                    | 42.5 | 36.8 | 29.4 | 23.1 | -    | 51.8                              | 2.8                           | 46.7                    | 40.8 | 34.9 | 28.0 | 21.6 | -    |
|                        | 62      | 52.1                                 | 2.5                           | 52.0                    | 48.1 | 44.3 | 35.3 | 29.7 | 22.5 | 49.8                              | 2.8                           | 49.7                    | 46.0 | 42.3 | 34.4 | 28.3 | 21.3 |
|                        | 57      | 49.2                                 | 2.5                           | 49.2                    | 49.2 | 44.1 | 36.3 | 28.6 |      | 47.9                              | 2.8                           | 47.9                    | 47.9 | 47.9 | 42.3 | 34.9 | 27.5 |
| 1400                   | 77      | 68.0                                 | 2.6                           | 38.8                    | 30.5 | 22.1 | -    | -    | -    | 63.8                              | 2.9                           | 37.6                    | 29.1 | 20.5 | -    | -    | -    |
|                        | 72      | 62.4                                 | 2.6                           | 45.2                    | 37.9 | 30.6 | 23.3 | -    | -    | 58.7                              | 2.9                           | 43.6                    | 36.3 | 28.9 | 21.5 | -    | -    |
|                        | 67      | 56.8                                 | 2.5                           | 51.7                    | 45.4 | 39.1 | 30.9 | 23.6 | -    | 53.7                              | 2.8                           | 49.7                    | 43.4 | 37.2 | 29.4 | 22.0 | -    |
|                        | 62      | 54.7                                 | 2.5                           | 54.5                    | 51.0 | 47.6 | 38.2 | 31.3 | 23.2 | 52.3                              | 2.8                           | 52.1                    | 48.8 | 45.6 | 37.0 | 29.8 | 21.9 |
|                        | 57      | 52.6                                 | 2.5                           | 52.6                    | 52.6 | 47.5 | 39.0 | 30.5 |      | 50.9                              | 2.8                           | 50.9                    | 50.9 | 50.9 | 45.8 | 37.6 | 29.5 |
| 1600                   | 77      | 68.4                                 | 2.7                           | 41.9                    | 32.2 | 22.5 | -    | -    | -    | 63.7                              | 2.9                           | 41.6                    | 31.2 | 20.9 | -    | -    | -    |
|                        | 72      | 63.5                                 | 2.6                           | 48.5                    | 40.2 | 31.9 | 23.6 | -    | -    | 59.6                              | 2.9                           | 47.1                    | 38.7 | 30.2 | 21.7 | -    | -    |
|                        | 67      | 58.6                                 | 2.6                           | 55.1                    | 48.2 | 41.4 | 32.5 | 24.1 | -    | 55.5                              | 2.9                           | 52.7                    | 46.1 | 39.6 | 30.8 | 22.3 | -    |
|                        | 62      | 57.3                                 | 2.6                           | 57.1                    | 54.0 | 50.8 | 41.0 | 32.9 | 24.0 | 54.7                              | 2.8                           | 54.4                    | 51.7 | 48.9 | 39.7 | 31.3 | 22.5 |
|                        | 57      | 56.0                                 | 2.5                           | 56.0                    | 56.0 | 56.0 | 51.0 | 41.7 | 32.5 | 54.0                              | 2.8                           | 54.0                    | 54.0 | 54.0 | 49.3 | 40.4 | 31.4 |
| 1800                   | 72      | 64.6                                 | 2.7                           | 51.8                    | 42.5 | 33.2 | 24.0 | -    | -    | 60.4                              | 2.9                           | 50.7                    | 41.1 | 31.5 | 22.0 | -    | -    |
|                        | 67      | 60.4                                 | 2.6                           | 58.5                    | 51.1 | 43.7 | 34.0 | 24.6 | -    | 57.3                              | 2.9                           | 55.7                    | 48.8 | 41.9 | 32.2 | 22.6 | -    |
|                        | 62      | 59.9                                 | 2.6                           | 59.7                    | 56.9 | 54.1 | 43.9 | 34.5 | 24.7 | 57.2                              | 2.9                           | 56.8                    | 54.5 | 52.2 | 42.3 | 32.9 | 23.2 |
|                        | 57      | 59.4                                 | 2.6                           | 59.2                    | 59.2 | 59.2 | 54.5 | 44.4 | 34.4 | 57.1                              | 2.8                           | 57.1                    | 57.1 | 57.1 | 52.8 | 43.1 | 33.3 |
| 2000                   | 72      | 65.7                                 | 2.7                           | 55.1                    | 44.8 | 34.6 | 24.3 | -    | -    | 61.2                              | 2.9                           | 54.2                    | 43.5 | 32.9 | 22.2 | -    | -    |
|                        | 67      | 62.2                                 | 2.6                           | 61.9                    | 54.0 | 46.0 | 35.5 | 25.1 | -    | 59.2                              | 2.9                           | 58.7                    | 51.5 | 44.2 | 33.6 | 23.0 | -    |
|                        | 62      | 62.5                                 | 2.6                           | 62.2                    | 59.8 | 57.4 | 46.8 | 36.1 | 25.5 | 59.6                              | 2.9                           | 59.2                    | 57.4 | 55.5 | 45.0 | 34.4 | 23.8 |
|                        | 57      | 62.8                                 | 2.6                           | 62.5                    | 62.5 | 62.5 | 58.0 | 47.2 | 36.3 | 60.1                              | 2.9                           | 59.7                    | 59.7 | 59.7 | 56.3 | 45.8 | 35.3 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   | 105°F                         |                         |      |      |      |      |      |
| 1000                   | 77      | 61.1                                 | 3.2                           | 26.5                    | 22.4 | 18.3 | -    | -    | -    | 55.6                              | 3.6                           | 25.0                    | 21.0 | 17.1 | -    | -    | -    |
|                        | 72      | 54.0                                 | 3.1                           | 34.5                    | 29.5 | 24.5 | 19.5 | -    | -    | 49.9                              | 3.6                           | 33.1                    | 28.1 | 23.0 | 18.0 | -    | -    |
|                        | 67      | 46.8                                 | 3.1                           | 42.5                    | 36.6 | 30.7 | 25.3 | 19.9 | -    | 44.2                              | 3.5                           | 41.3                    | 35.1 | 28.9 | 23.6 | 18.2 | -    |
|                        | 62      | 45.3                                 | 3.1                           | 45.2                    | 41.1 | 36.9 | 31.1 | 25.3 | 19.6 | 42.9                              | 3.6                           | 42.8                    | 38.8 | 34.9 | 29.2 | 23.5 | 17.9 |
| 1200                   | 77      | 60.3                                 | 3.2                           | 31.4                    | 25.0 | 18.6 | -    | -    | -    | 55.2                              | 3.6                           | 29.8                    | 23.4 | 17.1 | -    | -    | -    |
|                        | 72      | 54.5                                 | 3.2                           | 38.3                    | 32.0 | 25.8 | 19.6 | -    | -    | 50.5                              | 3.6                           | 36.6                    | 30.4 | 24.2 | 18.0 | -    | -    |
|                        | 67      | 48.7                                 | 3.1                           | 45.1                    | 39.1 | 33.0 | 26.6 | 20.1 | -    | 45.9                              | 3.6                           | 43.4                    | 37.3 | 31.3 | 24.8 | 18.3 | -    |
|                        | 62      | 47.6                                 | 3.1                           | 47.4                    | 43.8 | 40.3 | 33.5 | 26.8 | 20.1 | 45.0                              | 3.6                           | 44.8                    | 41.6 | 38.3 | 31.6 | 24.9 | 18.2 |
|                        | 57      | 46.5                                 | 3.1                           | 46.5                    | 46.5 | 46.5 | 40.5 | 33.5 | 26.5 | 44.0                              | 3.6                           | 44.0                    | 44.0 | 44.0 | 38.5 | 31.5 | 24.6 |
| 1400                   | 77      | 59.6                                 | 3.2                           | 36.4                    | 27.6 | 18.9 | -    | -    | -    | 54.7                              | 3.6                           | 34.6                    | 25.8 | 17.1 | -    | -    | -    |
|                        | 72      | 55.1                                 | 3.2                           | 42.0                    | 34.6 | 27.2 | 19.7 | -    | -    | 51.2                              | 3.6                           | 40.0                    | 32.7 | 25.3 | 17.9 | -    | -    |
|                        | 67      | 50.5                                 | 3.1                           | 47.7                    | 41.5 | 35.4 | 27.8 | 20.3 | -    | 47.6                              | 3.6                           | 45.5                    | 39.6 | 33.6 | 26.0 | 18.5 | -    |
|                        | 62      | 49.9                                 | 3.1                           | 49.6                    | 46.6 | 43.6 | 35.9 | 28.3 | 20.6 | 47.1                              | 3.6                           | 46.7                    | 44.3 | 41.8 | 34.1 | 26.3 | 18.6 |
|                        | 57      | 49.2                                 | 3.1                           | 49.2                    | 49.2 | 44.0 | 36.2 | 28.4 |      | 46.6                              | 3.6                           | 46.6                    | 46.6 | 46.6 | 42.2 | 34.2 | 26.3 |
| 1600                   | 77      | 58.9                                 | 3.2                           | 41.3                    | 30.3 | 19.2 | -    | -    | -    | 54.3                              | 3.6                           | 39.4                    | 28.2 | 17.0 | -    | -    | -    |
|                        | 72      | 55.6                                 | 3.2                           | 45.8                    | 37.1 | 28.5 | 19.8 | -    | -    | 51.8                              | 3.6                           | 43.5                    | 35.0 | 26.5 | 17.9 | -    | -    |
|                        | 67      | 52.4                                 | 3.2                           | 50.3                    | 44.0 | 37.7 | 29.1 | 20.4 | -    | 49.3                              | 3.6                           | 47.7                    | 41.8 | 35.9 | 27.2 | 18.6 | -    |
|                        | 62      | 52.2                                 | 3.1                           | 51.8                    | 49.4 | 47.0 | 38.3 | 29.7 | 21.1 | 49.2                              | 3.6                           | 48.7                    | 47.0 | 45.3 | 36.5 | 27.8 | 19.0 |
|                        | 57      | 52.0                                 | 3.1                           | 52.0                    | 52.0 | 47.6 | 39.0 | 30.4 |      | 49.1                              | 3.6                           | 49.1                    | 49.1 | 49.1 | 45.8 | 36.9 | 28.0 |
| 1800                   | 72      | 56.2                                 | 3.2                           | 49.6                    | 39.7 | 29.8 | 19.9 | -    | -    | 52.5                              | 3.6                           | 47.0                    | 37.3 | 27.6 | 17.9 | -    | -    |
|                        | 67      | 54.3                                 | 3.2                           | 52.9                    | 46.5 | 40.1 | 30.3 | 20.6 | -    | 51.0                              | 3.6                           | 49.8                    | 44.0 | 38.2 | 28.5 | 18.7 | -    |
|                        | 62      | 54.5                                 | 3.2                           | 54.0                    | 52.2 | 50.3 | 40.8 | 31.2 | 21.6 | 51.3                              | 3.6                           | 50.7                    | 49.7 | 48.8 | 39.0 | 29.2 | 19.4 |
|                        | 57      | 54.8                                 | 3.1                           | 54.8                    | 54.8 | 54.8 | 51.2 | 41.7 | 32.3 | 51.6                              | 3.6                           | 51.6                    | 51.6 | 51.6 | 49.5 | 39.6 | 29.7 |
| 2000                   | 72      | 56.8                                 | 3.2                           | -                       | 42.2 | 31.1 | 20.1 | -    | -    | 53.1                              | 3.6                           | 50.4                    | 39.6 | 28.8 | 17.9 | -    | -    |
|                        | 67      | 56.1                                 | 3.2                           | 55.5                    | 48.9 | 42.4 | 31.6 | 20.8 | -    | 52.7                              | 3.6                           | 51.9                    | 46.2 | 40.5 | 29.7 | 18.8 | -    |
|                        | 62      | 56.8                                 | 3.2                           | 56.2                    | 54.9 | 53.7 | 43.2 | 32.6 | 22.1 | 53.4                              | 3.6                           | 52.6                    | 52.4 | 52.2 | 41.4 | 30.6 | 19.7 |
|                        | 57      | 57.5                                 | 3.2                           | 56.9                    | 56.9 | 56.9 | 54.7 | 44.5 | 34.2 | 54.2                              | 3.6                           | 53.4                    | 53.4 | 53.4 | 53.1 | 42.3 | 31.4 |

**ZT049 high speed compressor (4.0 ton) (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 1000                   | 77      | 50.2                                 | 4.1                           | 23.4                    | 19.6 | 15.9 | -    | -    | -    | 44.7                              | 4.5                           | 21.9                    | 18.3 | 14.6 | -    | -    | -    |
|                        | 72      | 45.9                                 | 4.0                           | 31.8                    | 26.6 | 21.5 | 16.4 | -    | -    | 41.8                              | 4.5                           | 30.4                    | 25.2 | 20.0 | 14.9 | -    | -    |
|                        | 67      | 41.6                                 | 4.0                           | 40.1                    | 33.7 | 27.2 | 21.9 | 16.5 | -    | 39.0                              | 4.4                           | 38.9                    | 32.2 | 25.4 | 20.1 | 14.8 | -    |
|                        | 62      | 40.4                                 | 4.0                           | 40.4                    | 36.6 | 32.9 | 27.3 | 21.7 | 16.2 | 38.0                              | 4.5                           | 37.9                    | 34.4 | 30.8 | 25.4 | 19.9 | 14.5 |
| 1200                   | 77      | 50.0                                 | 4.1                           | 28.1                    | 21.8 | 15.5 | -    | -    | -    | 44.9                              | 4.5                           | 26.4                    | 20.2 | 14.0 | -    | -    | -    |
|                        | 72      | 46.6                                 | 4.0                           | 34.9                    | 28.7 | 22.5 | 16.3 | -    | -    | 42.6                              | 4.5                           | 33.2                    | 27.0 | 20.8 | 14.6 | -    | -    |
|                        | 67      | 43.1                                 | 4.0                           | 41.8                    | 35.6 | 29.5 | 23.0 | 16.6 | -    | 40.4                              | 4.4                           | 40.1                    | 33.9 | 27.7 | 21.3 | 14.8 | -    |
|                        | 62      | 42.4                                 | 4.0                           | 42.1                    | 39.3 | 36.4 | 29.8 | 23.1 | 16.4 | 39.7                              | 4.5                           | 39.5                    | 37.0 | 34.5 | 27.9 | 21.2 | 14.6 |
|                        | 57      | 41.6                                 | 4.1                           | 41.6                    | 41.6 | 41.6 | 36.5 | 29.6 | 22.7 | 39.1                              | 4.6                           | 38.8                    | 38.8 | 38.8 | 34.5 | 27.6 | 20.8 |
| 1400                   | 77      | 49.9                                 | 4.1                           | 32.7                    | 24.0 | 15.2 | -    | -    | -    | 45.0                              | 4.5                           | 30.9                    | 22.1 | 13.3 | -    | -    | -    |
|                        | 72      | 47.3                                 | 4.0                           | 38.1                    | 30.8 | 23.5 | 16.2 | -    | -    | 43.4                              | 4.5                           | 36.1                    | 28.9 | 21.6 | 14.4 | -    | -    |
|                        | 67      | 44.7                                 | 4.0                           | 43.4                    | 37.6 | 31.8 | 24.2 | 16.7 | -    | 41.7                              | 4.5                           | 41.2                    | 35.6 | 29.9 | 22.4 | 14.9 | -    |
|                        | 62      | 44.3                                 | 4.0                           | 43.9                    | 41.9 | 40.0 | 32.2 | 24.4 | 16.6 | 41.5                              | 4.5                           | 41.0                    | 39.6 | 38.2 | 30.4 | 22.5 | 14.7 |
|                        | 57      | 43.9                                 | 4.1                           | 43.9                    | 43.9 | 43.9 | 40.3 | 32.2 | 24.2 | 41.2                              | 4.6                           | 40.7                    | 40.7 | 40.7 | 38.4 | 30.2 | 22.1 |
| 1600                   | 77      | 49.7                                 | 4.1                           | 37.4                    | 26.1 | 14.9 | -    | -    | -    | 45.2                              | 4.5                           | 35.5                    | 24.1 | 12.7 | -    | -    | -    |
|                        | 72      | 48.0                                 | 4.1                           | 41.2                    | 32.8 | 24.4 | 16.1 | -    | -    | 44.2                              | 4.5                           | 38.9                    | 30.7 | 22.4 | 14.2 | -    | -    |
|                        | 67      | 46.2                                 | 4.0                           | 45.0                    | 39.5 | 34.0 | 25.4 | 16.7 | -    | 43.1                              | 4.5                           | 42.4                    | 37.3 | 32.2 | 23.5 | 14.9 | -    |
|                        | 62      | 46.2                                 | 4.0                           | 45.6                    | 44.6 | 43.6 | 34.7 | 25.8 | 16.9 | 43.2                              | 4.5                           | 42.5                    | 42.2 | 41.9 | 32.9 | 23.8 | 14.8 |
|                        | 57      | 46.2                                 | 4.1                           | 46.2                    | 46.2 | 46.2 | 44.0 | 34.9 | 25.7 | 43.3                              | 4.5                           | 42.6                    | 42.6 | 42.6 | 42.3 | 32.8 | 23.3 |
| 1800                   | 72      | 48.7                                 | 4.1                           | 44.4                    | 34.9 | 25.4 | 15.9 | -    | -    | 45.0                              | 4.5                           | 41.8                    | 32.5 | 23.2 | 13.9 | -    | -    |
|                        | 67      | 47.7                                 | 4.1                           | 46.7                    | 41.5 | 36.3 | 26.6 | 16.8 | -    | 44.5                              | 4.5                           | 43.5                    | 39.0 | 34.4 | 24.7 | 14.9 | -    |
|                        | 62      | 48.1                                 | 4.1                           | 47.3                    | 47.3 | 47.2 | 37.2 | 27.1 | 17.1 | 45.0                              | 4.5                           | 44.0                    | 44.0 | 44.0 | 35.4 | 25.1 | 14.9 |
|                        | 57      | 48.5                                 | 4.1                           | 48.0                    | 48.0 | 48.0 | 47.8 | 37.5 | 27.2 | 45.4                              | 4.5                           | 44.5                    | 44.5 | 44.5 | 44.5 | 35.4 | 24.6 |
| 2000                   | 72      | 49.5                                 | 4.1                           | 47.5                    | 37.0 | 26.4 | 15.8 | -    | -    | 45.8                              | 4.5                           | -                       | 34.3 | 24.0 | 13.7 | -    | -    |
|                        | 67      | 49.3                                 | 4.1                           | 48.3                    | 43.4 | 38.6 | 27.7 | 16.9 | -    | 45.9                              | 4.5                           | -                       | 40.7 | 36.7 | 25.8 | 14.9 | -    |
|                        | 62      | 50.1                                 | 4.1                           | 49.1                    | 49.1 | 49.1 | 39.6 | 28.5 | 17.4 | 46.7                              | 4.5                           | -                       | 45.5 | 45.5 | 37.9 | 26.4 | 15.0 |
|                        | 57      | 50.9                                 | 4.0                           | 49.9                    | 49.9 | 49.9 | 49.9 | 40.1 | 28.7 | 47.6                              | 4.5                           | -                       | 46.4 | 46.4 | 46.4 | 38.0 | 25.9 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT049 low speed compressor (4.0 ton)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1000                   | 77      | 53.1                                 | 1.6                           | 27.6                    | 22.9 | 18.3 | -    | -    | -    | 48.3                              | 1.9                           | 27.7                    | 22.3 | 17.0 | -    | -    | -    |
|                        | 72      | 46.5                                 | 1.6                           | 33.7                    | 28.4 | 23.1 | 17.8 | -    | -    | 43.0                              | 1.9                           | 32.7                    | 27.2 | 21.8 | 16.4 | -    | -    |
|                        | 67      | 39.9                                 | 1.7                           | 39.9                    | 34.0 | 28.0 | 22.3 | 17.6 | -    | 37.7                              | 1.9                           | 37.7                    | 32.2 | 26.6 | 21.1 | 16.1 | -    |
|                        | 62      | 40.1                                 | 1.7                           | 40.0                    | 36.4 | 32.9 | 25.3 | 22.6 | 17.5 | 37.6                              | 1.9                           | 37.6                    | 34.5 | 31.5 | 25.1 | 21.2 | 16.0 |
| 1200                   | 77      | 52.8                                 | 1.6                           | 31.9                    | 24.7 | 17.5 | -    | -    | -    | 48.1                              | 1.9                           | 31.4                    | 23.7 | 16.0 | -    | -    | -    |
|                        | 72      | 47.4                                 | 1.6                           | 36.9                    | 30.5 | 24.0 | 17.6 | -    | -    | 43.8                              | 1.9                           | 35.4                    | 29.0 | 22.5 | 16.1 | -    | -    |
|                        | 67      | 41.9                                 | 1.6                           | 41.9                    | 36.2 | 30.5 | 23.7 | 17.6 | -    | 39.5                              | 1.9                           | 39.4                    | 34.3 | 29.1 | 22.5 | 16.2 | -    |
|                        | 62      | 42.1                                 | 1.6                           | 42.0                    | 39.5 | 37.0 | 28.6 | 24.1 | 17.7 | 39.5                              | 1.9                           | 39.4                    | 37.6 | 35.7 | 28.2 | 22.7 | 16.2 |
|                        | 57      | 42.3                                 | 1.7                           | 42.2                    | 42.2 | 42.2 | 37.1 | 30.6 | 24.2 | 39.6                              | 1.9                           | 39.5                    | 39.5 | 39.5 | 35.7 | 29.2 | 22.6 |
| 1400                   | 77      | 52.5                                 | 1.6                           | 36.3                    | 26.5 | 16.8 | -    | -    | -    | 47.9                              | 1.9                           | 35.1                    | 25.0 | 14.9 | -    | -    | -    |
|                        | 72      | 48.2                                 | 1.6                           | 40.1                    | 32.5 | 24.9 | 17.3 | -    | -    | 44.6                              | 1.9                           | 38.1                    | 30.7 | 23.2 | 15.8 | -    | -    |
|                        | 67      | 44.0                                 | 1.6                           | 43.8                    | 38.4 | 33.0 | 25.1 | 17.7 | -    | 41.3                              | 1.9                           | 41.1                    | 36.4 | 31.6 | 23.8 | 16.3 | -    |
|                        | 62      | 44.2                                 | 1.6                           | 44.1                    | 42.6 | 41.1 | 32.0 | 25.7 | 18.0 | 41.5                              | 1.9                           | 41.3                    | 40.6 | 39.9 | 31.3 | 24.2 | 16.3 |
|                        | 57      | 44.3                                 | 1.6                           | 44.3                    | 44.3 | 44.3 | 41.5 | 33.6 | 25.8 | 41.6                              | 1.9                           | 41.4                    | 41.4 | 41.4 | 40.2 | 32.1 | 24.0 |
| 1600                   | 77      | 52.2                                 | 1.6                           | 40.6                    | 28.4 | 16.1 | -    | -    | -    | 47.8                              | 1.9                           | 38.8                    | 26.3 | 13.9 | -    | -    | -    |
|                        | 72      | 49.1                                 | 1.6                           | 43.2                    | 34.5 | 25.8 | 17.1 | -    | -    | 45.4                              | 1.9                           | 40.8                    | 32.4 | 24.0 | 15.5 | -    | -    |
|                        | 67      | 46.1                                 | 1.6                           | 45.8                    | 40.7 | 35.6 | 26.5 | 17.8 | -    | 43.0                              | 1.9                           | 42.9                    | 38.5 | 34.1 | 25.1 | 16.4 | -    |
|                        | 62      | 46.2                                 | 1.6                           | 46.1                    | 45.7 | 45.3 | 35.3 | 27.2 | 18.2 | 43.4                              | 1.9                           | 43.1                    | 43.1 | 43.1 | 34.4 | 25.7 | 16.5 |
|                        | 57      | 46.3                                 | 1.6                           | 46.3                    | 46.3 | 46.3 | 45.8 | 36.7 | 27.5 | 43.7                              | 1.9                           | 43.4                    | 43.4 | 43.4 | 43.4 | 35.0 | 25.4 |
| 1800                   | 72      | 50.0                                 | 1.6                           | 46.4                    | 36.5 | 26.7 | 16.9 | -    | -    | 46.2                              | 1.9                           | 43.6                    | 34.1 | 24.7 | 15.2 | -    | -    |
|                        | 67      | 48.1                                 | 1.6                           | 47.7                    | 42.9 | 38.1 | 27.9 | 17.9 | -    | 44.8                              | 1.9                           | 44.6                    | 40.6 | 36.5 | 26.5 | 16.5 | -    |
|                        | 62      | 48.2                                 | 1.6                           | 48.1                    | 48.1 | 48.1 | 38.6 | 28.8 | 18.5 | 45.3                              | 1.9                           | 45.0                    | 45.0 | 45.0 | 37.5 | 27.2 | 16.6 |
|                        | 57      | 48.3                                 | 1.6                           | 48.3                    | 48.3 | 48.3 | 39.7 | 29.1 | 18.5 | 45.7                              | 1.9                           | 45.4                    | 45.4 | 45.4 | 45.4 | 37.9 | 26.7 |
| 2000                   | 72      | 50.9                                 | 1.6                           | -                       | 38.6 | 27.6 | 16.6 | -    | -    | 47.0                              | 1.9                           | -                       | 35.8 | 25.4 | 14.9 | -    | -    |
|                        | 67      | 50.2                                 | 1.6                           | -                       | 45.1 | 40.6 | 29.3 | 18.0 | -    | 46.6                              | 1.9                           | -                       | 42.7 | 39.0 | 27.8 | 16.6 | -    |
|                        | 62      | 50.3                                 | 1.6                           | -                       | 50.1 | 50.1 | 42.0 | 30.3 | 18.7 | 47.2                              | 1.9                           | -                       | 46.8 | 46.8 | 40.7 | 28.7 | 16.7 |
|                        | 57      | 50.4                                 | 1.6                           | -                       | 50.4 | 50.4 | 42.7 | 30.7 | 18.7 | 47.8                              | 1.9                           | -                       | 47.4 | 47.4 | 47.4 | 40.8 | 28.1 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |      |
| 1000                   | 77      | 43.5                                 | 2.2                           | -                       | 21.8 | 15.7 | -    | -    | -    | 38.6                              | 2.6                           | -                       | 21.3 | 14.4 | -    | -    | -    |
|                        | 72      | 39.5                                 | 2.2                           | -                       | 26.1 | 20.5 | 15.0 | -    | -    | 35.9                              | 2.6                           | -                       | 24.9 | 19.3 | 13.6 | -    | -    |
|                        | 67      | 35.6                                 | 2.2                           | -                       | 30.4 | 25.3 | 19.9 | 14.6 | -    | 33.2                              | 2.6                           | -                       | 28.6 | 24.1 | 18.6 | 13.0 | -    |
|                        | 62      | 35.2                                 | 2.2                           | -                       | 32.6 | 30.1 | 24.9 | 19.8 | 14.6 | 32.8                              | 2.6                           | -                       | 30.9 | 29.0 | 23.5 | 18.1 | 12.7 |
| 1200                   | 77      | 43.4                                 | 2.2                           | -                       | 22.6 | 14.4 | -    | -    | -    | 39.0                              | 2.6                           | -                       | 21.7 | 13.0 | -    | -    | -    |
|                        | 72      | 40.3                                 | 2.2                           | -                       | 27.5 | 21.0 | 14.6 | -    | -    | 36.7                              | 2.6                           | -                       | 26.0 | 19.5 | 13.1 | -    | -    |
|                        | 67      | 37.1                                 | 2.2                           | 36.9                    | 32.3 | 27.7 | 21.2 | 14.7 | -    | 34.5                              | 2.6                           | 34.3                    | 30.2 | 26.1 | 19.6 | 13.1 | -    |
|                        | 62      | 37.0                                 | 2.2                           | 36.8                    | 35.6 | 34.4 | 27.8 | 21.2 | 14.6 | 34.4                              | 2.6                           | 34.2                    | 33.5 | 32.7 | 26.1 | 19.5 | 13.0 |
|                        | 57      | 36.9                                 | 2.2                           | 36.7                    | 36.7 | 36.7 | 34.4 | 27.7 | 21.1 | 34.3                              | 2.6                           | 34.2                    | 34.2 | 34.2 | 32.6 | 26.0 | 19.3 |
| 1400                   | 77      | 43.4                                 | 2.2                           | 33.9                    | 23.5 | 13.0 | -    | -    | -    | 39.3                              | 2.6                           | 32.8                    | 22.2 | 11.5 | -    | -    | -    |
|                        | 72      | 41.0                                 | 2.2                           | 36.2                    | 28.9 | 21.6 | 14.3 | -    | -    | 37.5                              | 2.6                           | 34.2                    | 27.0 | 19.8 | 12.6 | -    | -    |
|                        | 67      | 38.6                                 | 2.2                           | 38.4                    | 34.3 | 30.1 | 22.5 | 14.8 | -    | 35.8                              | 2.6                           | 35.6                    | 31.9 | 28.1 | 20.7 | 13.2 | -    |
|                        | 62      | 38.7                                 | 2.2                           | 38.5                    | 38.5 | 38.5 | 30.7 | 22.7 | 14.7 | 36.0                              | 2.6                           | 35.7                    | 35.7 | 35.7 | 28.7 | 21.0 | 13.2 |
|                        | 57      | 38.9                                 | 2.2                           | 38.6                    | 38.6 | 38.6 | 38.6 | 30.5 | 22.2 | 36.3                              | 2.6                           | 35.8                    | 35.8 | 35.8 | 35.8 | 28.7 | 20.7 |
| 1600                   | 77      | 43.4                                 | 2.2                           | 37.0                    | 24.3 | 11.7 | -    | -    | -    | 39.6                              | 2.6                           | 35.1                    | 22.6 | 10.1 | -    | -    | -    |
|                        | 72      | 41.7                                 | 2.2                           | 38.5                    | 30.3 | 22.1 | 13.9 | -    | -    | 38.3                              | 2.6                           | 36.1                    | 28.1 | 20.1 | 12.1 | -    | -    |
|                        | 67      | 40.0                                 | 2.2                           | 39.9                    | 36.2 | 32.6 | 23.8 | 14.9 | -    | 37.1                              | 2.6                           | 37.0                    | 33.6 | 30.2 | 21.7 | 13.3 | -    |
|                        | 62      | 40.5                                 | 2.2                           | 40.2                    | 40.2 | 40.2 | 33.6 | 24.1 | 14.7 | 37.7                              | 2.6                           | 37.2                    | 37.2 | 37.2 | 31.3 | 22.4 | 13.5 |
|                        | 57      | 41.0                                 | 2.2                           | 40.5                    | 40.5 | 40.5 | 40.5 | 33.3 | 23.3 | 38.2                              | 2.6                           | 37.5                    | 37.5 | 37.5 | 37.5 | 31.5 | 22.2 |
| 1800                   | 72      | 42.4                                 | 2.1                           | 40.8                    | 31.7 | 22.6 | 13.6 | -    | -    | 39.1                              | 2.5                           | 37.9                    | 29.1 | 20.4 | 11.6 | -    | -    |
|                        | 67      | 41.5                                 | 2.1                           | 41.4                    | 38.2 | 35.0 | 25.0 | 15.1 | -    | 38.5                              | 2.5                           | 38.3                    | 35.2 | 32.2 | 22.8 | 13.4 | -    |
|                        | 62      | 42.3                                 | 2.1                           | 41.9                    | 41.9 | 41.9 | 36.5 | 25.6 | 14.7 | 39.3                              | 2.5                           | 38.7                    | 38.7 | 38.7 | 33.9 | 23.8 | 13.8 |
|                        | 57      | 43.1                                 | 2.1                           | 42.4                    | 42.4 | 42.4 | 42.4 | 36.1 | 24.3 | 40.1                              | 2.5                           | 39.2                    | 39.2 | 39.2 | 39.2 | 34.3 | 23.6 |
| 2000                   | 72      | 43.2                                 | 2.1                           | -                       | 33.1 | 23.2 | 13.3 | -    | -    | 39.9                              | 2.5                           | -                       | 30.2 | 20.7 | 11.1 | -    | -    |
|                        | 67      | 43.0                                 | 2.1                           | -                       | 40.2 | 37.4 | 26.3 | 15.2 | -    | 39.8                              | 2.5                           | -                       | 36.9 | 34.2 | 23.8 | 13.4 | -    |
|                        | 62      | 44.1                                 | 2.1                           | -                       | 43.6 | 43.6 | 39.4 | 27.1 | 14.7 | 40.9                              | 2.5                           | -                       | 40.2 | 40.2 | 36.5 | 25.3 | 14.0 |
|                        | 57      | 45.2                                 | 2.1                           | -                       | 44.3 | 44.3 | 44.3 | 38.9 | 25.4 | 42.1                              | 2.5                           | -                       | 40.8 | 40.8 | 40.8 | 37.1 | 25.0 |



**ZT049 low speed compressor (4.0 ton) (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 1000                   | 77      | 33.8                                 | 3.0                           | -                       | 20.8 | 13.1 | -    | -    | -    | 28.9                              | 3.4                           | -                       | 20.4 | 11.8 | -    | -    | -    |
|                        | 72      | 32.3                                 | 3.0                           | -                       | 23.8 | 18.0 | 12.3 | -    | -    | 28.8                              | 3.4                           | -                       | 22.7 | 16.8 | 10.9 | -    | -    |
|                        | 67      | 30.8                                 | 3.0                           | -                       | 26.7 | 23.0 | 17.2 | 11.5 | -    | 28.4                              | 3.4                           | -                       | 24.9 | 21.8 | 15.9 | 10.0 | -    |
|                        | 62      | 30.4                                 | 3.0                           | -                       | 29.1 | 27.9 | 22.2 | 16.5 | 10.8 | 28.0                              | 3.4                           | -                       | 27.4 | 26.8 | 20.8 | 14.8 | 8.9  |
| 1200                   | 77      | 34.5                                 | 3.0                           | -                       | 20.8 | 11.6 | -    | -    | -    | 30.0                              | 3.4                           | -                       | 20.0 | 10.2 | -    | -    | -    |
|                        | 72      | 33.2                                 | 3.0                           | -                       | 24.5 | 18.1 | 11.6 | -    | -    | 29.7                              | 3.4                           | -                       | 23.0 | 16.6 | 10.1 | -    | -    |
|                        | 67      | 31.9                                 | 3.0                           | 31.7                    | 28.1 | 24.5 | 18.0 | 11.5 | -    | 29.3                              | 3.4                           | -                       | 26.0 | 23.0 | 16.5 | 10.0 | -    |
|                        | 62      | 31.9                                 | 3.0                           | 31.7                    | 31.4 | 31.0 | 24.5 | 17.9 | 11.3 | 29.3                              | 3.4                           | -                       | 29.1 | 29.1 | 22.8 | 16.2 | 9.6  |
|                        | 57      | 31.8                                 | 3.0                           | 31.6                    | 31.6 | 31.6 | 30.9 | 24.2 | 17.6 | 29.3                              | 3.4                           | -                       | 29.1 | 29.1 | 29.1 | 22.5 | 15.8 |
| 1400                   | 77      | 35.2                                 | 3.0                           | 31.7                    | 20.9 | 10.0 | -    | -    | -    | 31.1                              | 3.3                           | 30.6                    | 19.5 | 8.5  | -    | -    | -    |
|                        | 72      | 34.0                                 | 3.0                           | 32.3                    | 25.2 | 18.1 | 11.0 | -    | -    | 30.6                              | 3.4                           | 30.3                    | 23.3 | 16.3 | 9.3  | -    | -    |
|                        | 67      | 33.1                                 | 3.0                           | 32.9                    | 29.5 | 26.1 | 18.9 | 11.6 | -    | 30.3                              | 3.4                           | 30.1                    | 27.1 | 24.1 | 17.0 | 9.9  | -    |
|                        | 62      | 33.3                                 | 3.0                           | 33.0                    | 33.0 | 33.0 | 26.7 | 19.3 | 11.8 | 30.6                              | 3.4                           | 30.2                    | 30.2 | 30.2 | 24.8 | 17.6 | 10.4 |
|                        | 57      | 33.6                                 | 3.0                           | 33.1                    | 33.1 | 33.1 | 33.1 | 27.0 | 19.3 | 30.9                              | 3.4                           | 30.3                    | 30.3 | 30.3 | 30.3 | 25.2 | 17.9 |
| 1600                   | 77      | 35.9                                 | 2.9                           | 33.3                    | 20.9 | 8.5  | -    | -    | -    | 32.1                              | 3.3                           | 31.4                    | 19.1 | 6.9  | -    | -    | -    |
|                        | 72      | 34.9                                 | 3.0                           | 33.7                    | 25.9 | 18.1 | 10.3 | -    | -    | 31.5                              | 3.3                           | 31.2                    | 23.7 | 16.1 | 8.5  | -    | -    |
|                        | 67      | 34.2                                 | 3.0                           | 34.0                    | 30.9 | 27.7 | 19.7 | 11.6 | -    | 31.3                              | 3.4                           | 31.1                    | 28.2 | 25.3 | 17.6 | 9.9  | -    |
|                        | 62      | 34.8                                 | 3.0                           | 34.3                    | 34.3 | 34.3 | 29.0 | 20.7 | 12.3 | 32.0                              | 3.3                           | 31.3                    | 31.3 | 31.3 | 26.8 | 18.9 | 11.1 |
|                        | 57      | 35.4                                 | 2.9                           | 34.5                    | 34.5 | 34.5 | 34.5 | 29.7 | 21.1 | 32.6                              | 3.3                           | 31.5                    | 31.5 | 31.5 | 31.5 | 27.9 | 20.0 |
| 1800                   | 72      | 35.7                                 | 2.9                           | 35.0                    | 26.6 | 18.1 | 9.7  | -    | -    | 32.4                              | 3.3                           | 32.2                    | 24.0 | 15.9 | 7.7  | -    | -    |
|                        | 67      | 35.4                                 | 2.9                           | 35.2                    | 32.3 | 29.3 | 20.5 | 11.6 | -    | 32.3                              | 3.3                           | 32.1                    | 29.3 | 26.5 | 18.2 | 9.9  | -    |
|                        | 62      | 36.3                                 | 2.9                           | 35.6                    | 35.6 | 35.6 | 31.3 | 22.1 | 12.8 | 33.3                              | 3.3                           | 32.4                    | 32.4 | 32.4 | 28.7 | 20.3 | 11.9 |
|                        | 57      | 37.2                                 | 2.9                           | 35.9                    | 35.9 | 35.9 | 35.9 | 32.5 | 22.8 | 34.2                              | 3.3                           | 32.7                    | 32.7 | 32.7 | 32.7 | 30.7 | 22.1 |
| 2000                   | 72      | 36.6                                 | 2.9                           | 36.4                    | 27.3 | 18.1 | 9.0  | -    | -    | 33.3                              | 3.3                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 36.5                                 | 2.9                           | 36.4                    | 33.7 | 30.9 | 21.3 | 11.7 | -    | 33.3                              | 3.3                           | -                       | -    | -    | -    | -    | -    |
|                        | 62      | 37.8                                 | 2.9                           | 36.9                    | 36.9 | 36.9 | 33.6 | 23.5 | 13.3 | 34.6                              | 3.3                           | -                       | -    | -    | -    | -    | -    |
|                        | 57      | 39.0                                 | 2.9                           | 37.4                    | 37.4 | 37.4 | 37.4 | 35.2 | 24.6 | 35.9                              | 3.3                           | -                       | -    | -    | -    | -    | -    |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT061 high speed compressor (5.0 ton)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1250                   | 77      | 84.7                                 | 3.4                           | 41.4                    | 36.0 | 30.6 | -    | -    | -    | 80.9                              | 3.8                           | 39.1                    | 34.1 | 29.0 | -    | -    | -    |
|                        | 72      | 75.5                                 | 3.4                           | 49.5                    | 43.0 | 36.5 | 30.0 | -    | -    | 71.6                              | 3.7                           | 47.5                    | 41.2 | 34.8 | 28.5 | -    | -    |
|                        | 67      | 66.4                                 | 3.3                           | 57.6                    | 50.0 | 42.4 | 36.2 | 29.8 | -    | 62.3                              | 3.7                           | 56.0                    | 48.3 | 40.7 | 34.4 | 28.0 | -    |
|                        | 62      | 61.3                                 | 3.2                           | 61.0                    | 54.6 | 48.3 | 40.7 | 36.0 | 29.9 | 59.1                              | 3.6                           | 58.5                    | 52.5 | 46.5 | 39.5 | 33.9 | 27.6 |
| 1500                   | 77      | 84.6                                 | 3.4                           | 44.6                    | 37.2 | 29.7 | -    | -    | -    | 80.1                              | 3.8                           | 42.6                    | 35.3 | 28.0 | -    | -    | -    |
|                        | 72      | 76.3                                 | 3.4                           | 52.7                    | 45.1 | 37.4 | 29.8 | -    | -    | 72.0                              | 3.7                           | 50.7                    | 43.1 | 35.6 | 28.1 | -    | -    |
|                        | 67      | 67.9                                 | 3.3                           | 60.8                    | 53.0 | 45.1 | 37.6 | 29.8 | -    | 63.9                              | 3.7                           | 58.8                    | 51.0 | 43.3 | 35.7 | 28.0 | -    |
|                        | 62      | 63.9                                 | 3.3                           | 63.5                    | 58.1 | 52.8 | 44.0 | 37.5 | 29.9 | 61.4                              | 3.6                           | 60.7                    | 55.8 | 50.9 | 42.6 | 35.4 | 27.6 |
|                        | 57      | 60.0                                 | 3.2                           | 60.0                    | 60.0 | 60.0 | 52.9 | 45.2 | 37.6 | 58.8                              | 3.6                           | 58.8                    | 58.8 | 58.6 | 50.7 | 42.7 | 34.8 |
| 1750                   | 77      | 84.6                                 | 3.4                           | 47.8                    | 38.3 | 28.8 | -    | -    | -    | 79.4                              | 3.8                           | 46.0                    | 36.5 | 26.9 | -    | -    | -    |
|                        | 72      | 77.0                                 | 3.4                           | 55.9                    | 47.1 | 38.3 | 29.6 | -    | -    | 72.5                              | 3.7                           | 53.8                    | 45.1 | 36.4 | 27.7 | -    | -    |
|                        | 67      | 69.4                                 | 3.3                           | 64.0                    | 55.9 | 47.8 | 39.0 | 29.9 | -    | 65.5                              | 3.7                           | 61.5                    | 53.7 | 45.9 | 37.0 | 27.9 | -    |
|                        | 62      | 66.5                                 | 3.3                           | 66.0                    | 61.6 | 57.3 | 47.3 | 39.0 | 29.9 | 63.6                              | 3.7                           | 62.9                    | 59.1 | 55.4 | 45.7 | 36.8 | 27.5 |
|                        | 57      | 63.7                                 | 3.2                           | 63.7                    | 63.7 | 63.7 | 57.5 | 48.2 | 38.8 | 61.6                              | 3.6                           | 61.6                    | 61.6 | 61.6 | 55.3 | 45.7 | 36.1 |
| 2000                   | 77      | 84.6                                 | 3.4                           | 50.9                    | 39.4 | 28.0 | -    | -    | -    | 78.7                              | 3.8                           | 49.5                    | 37.7 | 25.9 | -    | -    | -    |
|                        | 72      | 77.7                                 | 3.4                           | 59.1                    | 49.2 | 39.3 | 29.3 | -    | -    | 72.9                              | 3.7                           | 56.9                    | 47.1 | 37.2 | 27.4 | -    | -    |
|                        | 67      | 70.9                                 | 3.3                           | 67.3                    | 58.9 | 50.6 | 40.3 | 30.0 | -    | 67.1                              | 3.7                           | 64.3                    | 56.4 | 48.5 | 38.2 | 27.9 | -    |
|                        | 62      | 69.2                                 | 3.3                           | 68.5                    | 65.2 | 61.9 | 50.6 | 40.5 | 29.9 | 65.8                              | 3.7                           | 65.1                    | 62.5 | 59.8 | 48.8 | 38.2 | 27.4 |
|                        | 57      | 67.4                                 | 3.3                           | 67.4                    | 67.4 | 67.4 | 62.1 | 51.1 | 40.1 | 64.4                              | 3.7                           | 64.4                    | 64.4 | 64.4 | 59.9 | 48.6 | 37.3 |
| 2250                   | 72      | 78.5                                 | 3.4                           | 62.3                    | 51.2 | 40.2 | 29.1 | -    | -    | 73.4                              | 3.7                           | 60.1                    | 49.0 | 38.0 | 27.0 | -    | -    |
|                        | 67      | 72.4                                 | 3.3                           | 70.5                    | 61.9 | 53.3 | 41.7 | 30.1 | -    | 68.7                              | 3.7                           | 67.1                    | 59.2 | 51.2 | 39.5 | 27.9 | -    |
|                        | 62      | 71.8                                 | 3.3                           | 71.0                    | 68.7 | 66.4 | 53.9 | 42.0 | 29.9 | 68.0                              | 3.7                           | 67.3                    | 65.8 | 64.3 | 51.8 | 39.7 | 27.4 |
|                        | 57      | 71.1                                 | 3.3                           | 70.3                    | 70.3 | 70.3 | 66.8 | 54.0 | 41.3 | 67.3                              | 3.7                           | 66.8                    | 66.8 | 66.8 | 64.5 | 51.5 | 38.6 |
| 2500                   | 72      | 79.2                                 | 3.4                           | 65.5                    | 53.3 | 41.1 | 28.9 | -    | -    | 73.8                              | 3.7                           | 63.2                    | 51.0 | 38.8 | 26.7 | -    | -    |
|                        | 67      | 74.0                                 | 3.3                           | 73.7                    | 64.9 | 56.0 | 43.1 | 30.1 | -    | 70.4                              | 3.7                           | 69.9                    | 61.9 | 53.8 | 40.8 | 27.8 | -    |
|                        | 62      | 74.4                                 | 3.3                           | 73.5                    | 72.2 | 70.9 | 57.2 | 43.6 | 29.9 | 70.2                              | 3.7                           | 69.5                    | 69.1 | 68.7 | 54.9 | 41.1 | 27.3 |
|                        | 57      | 74.7                                 | 3.3                           | 73.2                    | 73.2 | 73.2 | 71.4 | 57.0 | 42.5 | 70.1                              | 3.7                           | 69.0                    | 69.0 | 69.0 | 69.0 | 54.5 | 39.8 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |      |
| 1250                   | 77      | 77.0                                 | 4.2                           | 36.8                    | 32.1 | 27.3 | -    | -    | -    | 70.3                              | 4.8                           | 34.7                    | 29.7 | 24.6 | -    | -    | -    |
|                        | 72      | 67.6                                 | 4.1                           | 45.6                    | 39.4 | 33.1 | 26.9 | -    | -    | 62.8                              | 4.7                           | 43.5                    | 37.1 | 30.7 | 24.4 | -    | -    |
|                        | 67      | 58.2                                 | 4.1                           | 54.3                    | 46.6 | 38.9 | 32.6 | 26.2 | -    | 55.3                              | 4.6                           | 52.2                    | 44.5 | 36.8 | 30.4 | 24.0 | -    |
|                        | 62      | 56.9                                 | 4.0                           | 56.0                    | 50.4 | 44.7 | 38.3 | 31.8 | 25.3 | 53.6                              | 4.6                           | 52.5                    | 47.7 | 42.9 | 36.5 | 30.0 | 23.5 |
| 1500                   | 77      | 75.6                                 | 4.2                           | 40.6                    | 33.4 | 26.2 | -    | -    | -    | 69.0                              | 4.8                           | 38.6                    | 31.0 | 23.5 | -    | -    | -    |
|                        | 72      | 67.8                                 | 4.1                           | 48.6                    | 41.2 | 33.8 | 26.4 | -    | -    | 62.9                              | 4.7                           | 46.4                    | 38.9 | 31.4 | 23.9 | -    | -    |
|                        | 67      | 59.9                                 | 4.1                           | 56.7                    | 49.1 | 41.5 | 33.8 | 26.1 | -    | 56.8                              | 4.6                           | 54.2                    | 46.7 | 39.3 | 31.6 | 23.8 | -    |
|                        | 62      | 58.8                                 | 4.0                           | 57.9                    | 53.5 | 49.1 | 41.1 | 33.2 | 25.2 | 55.3                              | 4.6                           | 54.3                    | 50.8 | 47.3 | 39.3 | 31.3 | 23.3 |
|                        | 57      | 57.6                                 | 4.0                           | 57.6                    | 57.6 | 56.7 | 48.5 | 40.2 | 32.0 | 53.8                              | 4.5                           | 53.8                    | 53.8 | 53.8 | 46.9 | 38.7 | 30.4 |
| 1750                   | 77      | 74.2                                 | 4.2                           | 44.3                    | 34.7 | 25.0 | -    | -    | -    | 67.7                              | 4.7                           | 42.4                    | 32.4 | 22.3 | -    | -    | -    |
|                        | 72      | 67.9                                 | 4.1                           | 51.7                    | 43.1 | 34.5 | 25.9 | -    | -    | 63.0                              | 4.7                           | 49.3                    | 40.7 | 32.1 | 23.5 | -    | -    |
|                        | 67      | 61.6                                 | 4.1                           | 59.1                    | 51.5 | 44.0 | 35.0 | 26.0 | -    | 58.3                              | 4.6                           | 56.1                    | 49.0 | 41.8 | 32.7 | 23.7 | -    |
|                        | 62      | 60.6                                 | 4.0                           | 59.8                    | 56.6 | 53.5 | 44.0 | 34.6 | 25.1 | 57.0                              | 4.6                           | 56.0                    | 53.8 | 51.6 | 42.0 | 32.5 | 23.0 |
|                        | 57      | 59.5                                 | 4.0                           | 59.5                    | 59.5 | 59.5 | 53.0 | 43.2 | 33.3 | 55.7                              | 4.5                           | 55.7                    | 55.7 | 55.7 | 51.3 | 41.3 | 31.3 |
| 2000                   | 77      | 72.8                                 | 4.1                           | 48.1                    | 36.0 | 23.9 | -    | -    | -    | 66.5                              | 4.7                           | 46.2                    | 33.7 | 21.2 | -    | -    | -    |
|                        | 72      | 68.1                                 | 4.1                           | 54.8                    | 45.0 | 35.2 | 25.4 | -    | -    | 63.1                              | 4.7                           | 52.2                    | 42.4 | 32.7 | 23.0 | -    | -    |
|                        | 67      | 63.3                                 | 4.1                           | 61.4                    | 54.0 | 46.5 | 36.2 | 25.8 | -    | 59.8                              | 4.6                           | 58.1                    | 51.2 | 44.3 | 33.9 | 23.5 | -    |
|                        | 62      | 62.4                                 | 4.1                           | 61.7                    | 59.8 | 57.8 | 46.9 | 36.0 | 25.0 | 58.7                              | 4.6                           | 57.8                    | 56.8 | 55.9 | 44.8 | 33.7 | 22.7 |
|                        | 57      | 61.5                                 | 4.0                           | 61.5                    | 61.5 | 61.5 | 57.6 | 46.1 | 34.6 | 57.6                              | 4.6                           | 57.5                    | 57.5 | 57.5 | 55.7 | 43.9 | 32.2 |
| 2250                   | 72      | 68.2                                 | 4.1                           | 57.8                    | 46.9 | 35.9 | 24.9 | -    | -    | 63.3                              | 4.6                           | 55.0                    | 44.2 | 33.4 | 22.6 | -    | -    |
|                        | 67      | 65.1                                 | 4.1                           | 63.8                    | 56.4 | 49.0 | 37.4 | 25.7 | -    | 61.3                              | 4.6                           | 60.0                    | 53.4 | 46.8 | 35.1 | 23.4 | -    |
|                        | 62      | 64.2                                 | 4.1                           | 63.6                    | 62.9 | 62.2 | 49.8 | 37.3 | 24.9 | 60.4                              | 4.6                           | 59.6                    | 59.6 | 59.6 | 47.6 | 35.0 | 22.4 |
|                        | 57      | 63.4                                 | 4.1                           | 63.4                    | 63.4 | 63.4 | 62.2 | 49.0 | 35.9 | 59.5                              | 4.6                           | 59.1                    | 59.1 | 59.1 | 59.1 | 46.6 | 33.1 |
| 2500                   | 72      | 68.4                                 | 4.1                           | 60.9                    | 48.7 | 36.6 | 24.4 | -    | -    | 63.4                              | 4.6                           | 57.9                    | 46.0 | 34.1 | 22.1 | -    | -    |
|                        | 67      | 66.8                                 | 4.1                           | 66.1                    | 58.9 | 51.6 | 38.5 | 25.5 | -    | 62.7                              | 4.6                           | 61.9                    | 55.6 | 49.3 | 36.2 | 23.2 | -    |
|                        | 62      | 66.1                                 | 4.1                           | 65.5                    | 65.5 | 65.5 | 52.6 | 38.7 | 24.8 | 62.1                              | 4.6                           | 61.3                    | 61.3 | 61.3 | 50.4 | 36.2 | 22.1 |
|                        | 57      | 65.4                                 | 4.1                           | 64.8                    | 64.8 | 64.8 | 64.8 | 51.9 | 37.2 | 61.5                              | 4.6                           | 60.7                    | 60.7 | 60.7 | 60.7 | 49.2 | 34.0 |

## ZT061 high speed compressor (5.0 ton) (continued)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      | 125°F                             |                               |                         |      |      |      |      |      |
| 1250                   | 77      | 63.5                                 | 5.4                           | 32.6                    | 27.3 | 21.9 | -    | -    | -    | 56.7                              | 6.1                           | 30.5                    | 24.9 | 19.2 | -    | -    | -    |
|                        | 72      | 57.9                                 | 5.3                           | 41.4                    | 34.9 | 28.3 | 21.8 | -    | -    | 53.0                              | 5.9                           | 39.3                    | 32.6 | 25.9 | 19.3 | -    | -    |
|                        | 67      | 52.3                                 | 5.2                           | 50.1                    | 42.4 | 34.7 | 28.3 | 21.8 | -    | 49.4                              | 5.8                           | 48.0                    | 40.3 | 32.6 | 26.1 | 19.5 | -    |
|                        | 62      | 50.2                                 | 5.1                           | 49.0                    | 45.1 | 41.1 | 34.7 | 28.2 | 21.8 | 46.8                              | 5.7                           | 45.5                    | 42.4 | 39.4 | 32.9 | 26.5 | 20.0 |
| 1500                   | 77      | 62.3                                 | 5.4                           | 36.6                    | 28.7 | 20.8 | -    | -    | -    | 55.7                              | 6.0                           | 34.5                    | 26.3 | 18.0 | -    | -    | -    |
|                        | 72      | 58.0                                 | 5.3                           | 44.1                    | 36.5 | 29.0 | 21.4 | -    | -    | 53.1                              | 5.9                           | 41.8                    | 34.2 | 26.6 | 18.9 | -    | -    |
|                        | 67      | 53.6                                 | 5.2                           | 51.6                    | 44.4 | 37.2 | 29.4 | 21.6 | -    | 50.5                              | 5.8                           | 49.1                    | 42.1 | 35.1 | 27.2 | 19.3 | -    |
|                        | 62      | 51.8                                 | 5.1                           | 50.6                    | 48.0 | 45.4 | 37.4 | 29.3 | 21.3 | 48.3                              | 5.7                           | 47.0                    | 45.3 | 43.6 | 35.5 | 27.4 | 19.3 |
|                        | 57      | 50.0                                 | 5.0                           | 49.6                    | 49.6 | 49.6 | 45.4 | 37.1 | 28.8 | 46.2                              | 5.6                           | 44.8                    | 44.8 | 44.8 | 43.8 | 35.5 | 27.2 |
| 1750                   | 77      | 61.2                                 | 5.3                           | 40.5                    | 30.0 | 19.6 | -    | -    | -    | 54.7                              | 5.9                           | 38.6                    | 27.7 | 16.9 | -    | -    | -    |
|                        | 72      | 58.1                                 | 5.2                           | 46.8                    | 38.2 | 29.6 | 21.0 | -    | -    | 53.2                              | 5.8                           | 44.4                    | 35.8 | 27.2 | 18.5 | -    | -    |
|                        | 67      | 54.9                                 | 5.2                           | 53.2                    | 46.4 | 39.6 | 30.5 | 21.4 | -    | 51.5                              | 5.7                           | 50.2                    | 43.8 | 37.5 | 28.3 | 19.1 | -    |
|                        | 62      | 53.4                                 | 5.1                           | 52.3                    | 51.0 | 49.7 | 40.0 | 30.4 | 20.8 | 49.8                              | 5.7                           | 48.5                    | 48.1 | 47.8 | 38.1 | 28.4 | 18.6 |
|                        | 57      | 51.9                                 | 5.1                           | 51.3                    | 51.3 | 51.3 | 49.6 | 39.4 | 29.3 | 48.0                              | 5.6                           | 46.7                    | 46.7 | 46.7 | 46.7 | 37.6 | 27.3 |
| 2000                   | 77      | 60.1                                 | 5.3                           | 44.4                    | 31.4 | 18.4 | -    | -    | -    | 53.7                              | 5.8                           | 42.6                    | 29.1 | 15.7 | -    | -    | -    |
|                        | 72      | 58.2                                 | 5.2                           | 49.6                    | 39.9 | 30.3 | 20.6 | -    | -    | 53.3                              | 5.7                           | 47.0                    | 37.4 | 27.8 | 18.2 | -    | -    |
|                        | 67      | 56.2                                 | 5.1                           | 54.7                    | 48.4 | 42.1 | 31.7 | 21.2 | -    | 52.6                              | 5.7                           | 51.3                    | 45.6 | 39.9 | 29.4 | 18.9 | -    |
|                        | 62      | 55.0                                 | 5.1                           | 53.9                    | 53.9 | 53.9 | 42.7 | 31.5 | 20.3 | 51.2                              | 5.6                           | 50.0                    | 50.0 | 50.0 | 40.6 | 29.3 | 17.9 |
|                        | 57      | 53.8                                 | 5.1                           | 53.1                    | 53.1 | 53.1 | 53.1 | 41.8 | 29.8 | 49.9                              | 5.6                           | 48.6                    | 48.6 | 48.6 | 48.6 | 39.6 | 27.4 |
| 2250                   | 72      | 58.3                                 | 5.2                           | 52.3                    | 41.6 | 30.9 | 20.2 | -    | -    | 53.3                              | 5.7                           | 49.5                    | 38.9 | 28.4 | 17.8 | -    | -    |
|                        | 67      | 57.5                                 | 5.1                           | 56.2                    | 50.4 | 44.5 | 32.8 | 21.1 | -    | 53.7                              | 5.6                           | 52.4                    | 47.4 | 42.3 | 30.5 | 18.7 | -    |
|                        | 62      | 56.6                                 | 5.1                           | 55.5                    | 55.5 | 55.5 | 45.4 | 32.6 | 19.8 | 52.7                              | 5.6                           | 51.5                    | 51.5 | 51.5 | 43.2 | 30.2 | 17.2 |
|                        | 57      | 55.7                                 | 5.1                           | 54.8                    | 54.8 | 54.8 | 54.8 | 44.1 | 30.3 | 51.8                              | 5.6                           | 50.5                    | 50.5 | 50.5 | 50.5 | 41.7 | 27.5 |
| 2500                   | 72      | 58.4                                 | 5.1                           | 55.0                    | 43.3 | 31.5 | 19.8 | -    | -    | 53.4                              | 5.6                           | -                       | 40.5 | 29.0 | 17.5 | -    | -    |
|                        | 67      | 58.7                                 | 5.1                           | 57.8                    | 52.4 | 47.0 | 33.9 | 20.9 | -    | 54.7                              | 5.6                           | -                       | 49.1 | 44.7 | 31.6 | 18.6 | -    |
|                        | 62      | 58.1                                 | 5.1                           | 57.2                    | 57.2 | 57.2 | 48.1 | 33.7 | 19.3 | 54.2                              | 5.6                           | -                       | 53.0 | 53.0 | 45.8 | 31.2 | 16.5 |
|                        | 57      | 57.5                                 | 5.1                           | 56.6                    | 56.6 | 56.6 | 56.6 | 46.5 | 30.8 | 53.6                              | 5.6                           | -                       | 52.4 | 52.4 | 52.4 | 43.8 | 27.6 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT061 low speed compressor (5.0 ton)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 1250                   | 77      | 62.4                                 | 2.0                           | 33.2                    | 27.2 | 21.2 | -    | -    | -    | 58.7                              | 2.4                           | 34.6                    | 27.8 | 21.0 | -    | -    | -    |
|                        | 72      | 56.5                                 | 2.1                           | 41.8                    | 35.0 | 28.3 | 21.5 | -    | -    | 53.5                              | 2.4                           | 41.2                    | 34.2 | 27.3 | 20.4 | -    | -    |
|                        | 67      | 50.7                                 | 2.1                           | 50.3                    | 42.8 | 35.3 | 27.9 | 21.8 | -    | 48.3                              | 2.4                           | 47.8                    | 40.7 | 33.7 | 26.7 | 20.4 | -    |
|                        | 62      | 49.2                                 | 2.1                           | 48.8                    | 45.8 | 42.9 | 31.7 | 28.9 | 22.1 | 47.2                              | 2.4                           | 46.7                    | 43.5 | 40.3 | 31.7 | 27.3 | 20.9 |
| 1500                   | 77      | 62.4                                 | 2.0                           | 38.2                    | 29.6 | 21.0 | -    | -    | -    | 58.5                              | 2.4                           | 38.6                    | 29.4 | 20.2 | -    | -    | -    |
|                        | 72      | 57.3                                 | 2.0                           | 45.1                    | 37.4 | 29.6 | 21.9 | -    | -    | 54.1                              | 2.4                           | 43.9                    | 36.1 | 28.3 | 20.6 | -    | -    |
|                        | 67      | 52.3                                 | 2.1                           | 52.0                    | 45.1 | 38.3 | 29.7 | 22.3 | -    | 49.7                              | 2.4                           | 49.2                    | 42.9 | 36.5 | 28.4 | 20.7 | -    |
|                        | 62      | 51.1                                 | 2.1                           | 50.7                    | 48.8 | 46.9 | 35.5 | 30.4 | 22.1 | 48.8                              | 2.4                           | 48.3                    | 46.5 | 44.7 | 35.1 | 28.7 | 20.7 |
|                        | 57      | 49.8                                 | 2.1                           | 49.5                    | 49.5 | 49.5 | 47.0 | 38.5 | 30.0 | 48.0                              | 2.4                           | 47.5                    | 47.5 | 47.5 | 44.8 | 36.6 | 28.5 |
| 1750                   | 77      | 62.4                                 | 2.0                           | 43.2                    | 32.0 | 20.8 | -    | -    | -    | 58.3                              | 2.4                           | 42.6                    | 31.0 | 19.3 | -    | -    | -    |
|                        | 72      | 58.1                                 | 2.0                           | 48.4                    | 39.7 | 31.0 | 22.3 | -    | -    | 54.7                              | 2.4                           | 46.6                    | 38.0 | 29.4 | 20.7 | -    | -    |
|                        | 67      | 53.9                                 | 2.1                           | 53.6                    | 47.4 | 41.2 | 31.6 | 22.8 | -    | 51.1                              | 2.4                           | 50.6                    | 45.0 | 39.4 | 30.0 | 21.1 | -    |
|                        | 62      | 53.0                                 | 2.1                           | 52.7                    | 51.8 | 50.9 | 39.3 | 31.9 | 22.2 | 50.4                              | 2.4                           | 50.0                    | 49.6 | 49.1 | 38.5 | 30.1 | 20.4 |
|                        | 57      | 52.0                                 | 2.1                           | 51.8                    | 51.8 | 51.8 | 50.6 | 41.1 | 30.8 | 49.8                              | 2.4                           | 49.3                    | 49.3 | 49.3 | 48.9 | 39.0 | 28.8 |
| 2000                   | 77      | 62.4                                 | 2.0                           | 48.1                    | 34.4 | 20.7 | -    | -    | -    | 58.1                              | 2.4                           | 46.6                    | 32.6 | 18.5 | -    | -    | -    |
|                        | 72      | 58.9                                 | 2.0                           | 51.7                    | 42.0 | 32.4 | 22.7 | -    | -    | 55.3                              | 2.4                           | 49.3                    | 39.9 | 30.4 | 20.9 | -    | -    |
|                        | 67      | 55.5                                 | 2.0                           | 55.3                    | 49.7 | 44.1 | 33.4 | 23.3 | -    | 52.5                              | 2.4                           | 52.1                    | 47.2 | 42.2 | 31.7 | 21.4 | -    |
|                        | 62      | 54.9                                 | 2.0                           | 54.6                    | 54.6 | 54.6 | 43.1 | 33.4 | 22.2 | 52.0                              | 2.4                           | 51.6                    | 51.6 | 51.6 | 42.0 | 31.4 | 20.1 |
|                        | 57      | 54.2                                 | 2.0                           | 54.0                    | 54.0 | 54.0 | 54.0 | 43.6 | 31.6 | 51.6                              | 2.4                           | 51.2                    | 51.2 | 51.2 | 51.2 | 41.4 | 29.2 |
| 2250                   | 72      | 59.7                                 | 2.0                           | 55.0                    | 44.4 | 33.8 | 23.2 | -    | -    | 55.9                              | 2.4                           | 52.1                    | 41.7 | 31.4 | 21.1 | -    | -    |
|                        | 67      | 57.1                                 | 2.0                           | 56.9                    | 52.0 | 47.1 | 35.3 | 23.8 | -    | 53.9                              | 2.4                           | 53.5                    | 49.3 | 45.1 | 33.4 | 21.8 | -    |
|                        | 62      | 56.7                                 | 2.0                           | 56.6                    | 56.6 | 56.6 | 46.9 | 35.0 | 22.3 | 53.6                              | 2.4                           | 53.3                    | 53.3 | 53.3 | 45.4 | 32.8 | 19.9 |
|                        | 57      | 56.4                                 | 2.0                           | 56.2                    | 56.2 | 56.2 | 56.2 | 46.2 | 32.5 | 53.4                              | 2.4                           | 53.0                    | 53.0 | 53.0 | 53.0 | 43.9 | 29.6 |
| 2500                   | 72      | 60.5                                 | 2.0                           | -                       | 46.7 | 35.1 | 23.6 | -    | -    | 56.4                              | 2.4                           | -                       | 43.6 | 32.4 | 21.2 | -    | -    |
|                        | 67      | 58.7                                 | 2.0                           | -                       | 54.3 | 50.0 | 37.1 | 24.2 | -    | 55.3                              | 2.3                           | -                       | 51.4 | 47.9 | 35.0 | 22.1 | -    |
|                        | 62      | 58.6                                 | 2.0                           | -                       | 58.5 | 58.5 | 50.7 | 36.5 | 22.3 | 55.2                              | 2.4                           | -                       | 54.9 | 54.9 | 48.8 | 34.2 | 19.6 |
|                        | 57      | 58.6                                 | 2.0                           | -                       | 58.5 | 58.5 | 58.5 | 48.8 | 33.3 | 55.2                              | 2.4                           | -                       | 54.9 | 54.9 | 54.9 | 46.3 | 29.9 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 105°F                   |      |      |      |      |      |
| 1250                   | 77      | 55.1                                 | 2.8                           | 35.9                    | 28.3 | 20.7 | -    | -    | -    | 50.1                              | 3.3                           | 36.1                    | 27.6 | 19.2 | -    | -    | -    |
|                        | 72      | 50.5                                 | 2.8                           | 40.5                    | 33.5 | 26.4 | 19.3 | -    | -    | 46.6                              | 3.3                           | 39.1                    | 32.0 | 24.8 | 17.6 | -    | -    |
|                        | 67      | 45.9                                 | 2.8                           | 45.2                    | 38.6 | 32.0 | 25.5 | 19.0 | -    | 43.1                              | 3.2                           | 42.2                    | 36.3 | 30.4 | 23.8 | 17.1 | -    |
|                        | 62      | 45.3                                 | 2.7                           | 44.6                    | 41.1 | 37.7 | 31.7 | 25.7 | 19.8 | 42.7                              | 3.2                           | 41.8                    | 38.9 | 36.1 | 29.9 | 23.7 | 17.5 |
| 1500                   | 77      | 54.7                                 | 2.8                           | 39.0                    | 29.1 | 19.3 | -    | -    | -    | 49.9                              | 3.3                           | 38.4                    | 27.9 | 17.3 | -    | -    | -    |
|                        | 72      | 50.9                                 | 2.8                           | 42.7                    | 34.9 | 27.0 | 19.2 | -    | -    | 47.0                              | 3.2                           | 40.8                    | 33.0 | 25.1 | 17.3 | -    | -    |
|                        | 67      | 47.1                                 | 2.8                           | 46.4                    | 40.6 | 34.8 | 27.0 | 19.2 | -    | 44.1                              | 3.2                           | 43.3                    | 38.1 | 33.0 | 25.1 | 17.2 | -    |
|                        | 62      | 46.6                                 | 2.7                           | 45.9                    | 44.2 | 42.5 | 34.8 | 27.0 | 19.2 | 43.8                              | 3.2                           | 43.0                    | 41.9 | 40.8 | 32.9 | 25.0 | 17.1 |
|                        | 57      | 46.1                                 | 2.7                           | 45.4                    | 45.4 | 45.4 | 42.5 | 34.8 | 27.0 | 43.5                              | 3.2                           | 42.7                    | 42.7 | 42.7 | 40.7 | 32.8 | 24.9 |
| 1750                   | 77      | 54.2                                 | 2.7                           | 42.0                    | 29.9 | 17.9 | -    | -    | -    | 49.7                              | 3.2                           | 40.7                    | 28.1 | 15.5 | -    | -    | -    |
|                        | 72      | 51.3                                 | 2.7                           | 44.8                    | 36.3 | 27.7 | 19.1 | -    | -    | 47.4                              | 3.2                           | 42.5                    | 34.0 | 25.5 | 17.0 | -    | -    |
|                        | 67      | 48.3                                 | 2.7                           | 47.7                    | 42.6 | 37.6 | 28.5 | 19.4 | -    | 45.1                              | 3.2                           | 44.3                    | 39.9 | 35.5 | 26.4 | 17.4 | -    |
|                        | 62      | 47.9                                 | 2.7                           | 47.3                    | 47.3 | 47.3 | 37.8 | 28.2 | 18.6 | 45.0                              | 3.2                           | 44.2                    | 44.2 | 44.2 | 35.9 | 26.3 | 16.7 |
|                        | 57      | 47.5                                 | 2.7                           | 46.9                    | 46.9 | 46.9 | 46.9 | 37.0 | 26.9 | 44.8                              | 3.2                           | 44.0                    | 44.0 | 44.0 | 44.0 | 35.2 | 25.1 |
| 2000                   | 77      | 53.8                                 | 2.7                           | 45.1                    | 30.7 | 16.4 | -    | -    | -    | 49.4                              | 3.2                           | 43.0                    | 28.3 | 13.6 | -    | -    | -    |
|                        | 72      | 51.6                                 | 2.7                           | 47.0                    | 37.7 | 28.4 | 19.1 | -    | -    | 47.8                              | 3.2                           | 44.2                    | 35.0 | 25.8 | 16.6 | -    | -    |
|                        | 67      | 49.5                                 | 2.7                           | 48.9                    | 44.6 | 40.3 | 30.0 | 19.6 | -    | 46.2                              | 3.2                           | 45.4                    | 41.7 | 38.0 | 27.8 | 17.5 | -    |
|                        | 62      | 49.2                                 | 2.7                           | 48.6                    | 48.6 | 48.6 | 40.9 | 29.4 | 18.0 | 46.1                              | 3.2                           | 45.3                    | 45.3 | 45.3 | 38.9 | 27.6 | 16.3 |
|                        | 57      | 48.9                                 | 2.7                           | 48.4                    | 48.4 | 48.4 | 48.4 | 39.3 | 26.8 | 46.1                              | 3.2                           | 45.3                    | 45.3 | 45.3 | 45.3 | 37.7 | 25.3 |
| 2250                   | 72      | 52.0                                 | 2.7                           | 49.1                    | 39.1 | 29.0 | 19.0 | -    | -    | 48.3                              | 3.2                           | 45.9                    | 36.0 | 26.2 | 16.3 | -    | -    |
|                        | 67      | 50.7                                 | 2.7                           | 50.1                    | 46.6 | 43.1 | 31.5 | 19.8 | -    | 47.2                              | 3.2                           | 46.5                    | 43.5 | 40.5 | 29.1 | 17.7 | -    |
|                        | 62      | 50.5                                 | 2.7                           | 50.0                    | 50.0 | 50.0 | 43.9 | 30.7 | 17.4 | 47.3                              | 3.2                           | 46.5                    | 46.5 | 46.5 | 41.9 | 28.9 | 15.9 |
|                        | 57      | 50.4                                 | 2.7                           | 49.8                    | 49.8 | 49.8 | 49.8 | 41.5 | 26.7 | 47.3                              | 3.2                           | 46.6                    | 46.6 | 46.6 | 46.6 | 40.1 | 25.5 |
| 2500                   | 72      | 52.4                                 | 2.7                           | -                       | 40.5 | 29.7 | 18.9 | -    | -    | 48.7                              | 3.2                           | -                       | 37.0 | 26.5 | 16.0 | -    | -    |
|                        | 67      | 51.9                                 | 2.7                           | -                       | 48.6 | 45.9 | 32.9 | 20.0 | -    | 48.3                              | 3.1                           | -                       | 45.3 | 43.1 | 30.4 | 17.8 | -    |
|                        | 62      | 51.8                                 | 2.7                           | -                       | 51.3 | 51.3 | 47.0 | 31.9 | 16.8 | 48.4                              | 3.2                           | -                       | 47.7 | 47.7 | 44.9 | 30.2 | 15.5 |
|                        | 57      | 51.8                                 | 2.7                           | -                       | 51.3 | 51.3 | 51.3 | 43.8 | 26.6 | 48.6                              | 3.2                           | -                       | 47.9 | 47.9 | 47.9 | 42.6 | 25.7 |

**ZT061 low speed compressor (5.0 ton) (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 1250                   | 77      | 45.1                                 | 3.8                           | -                       | 27.0 | 17.6 | -    | -    | -    | 40.1                              | 4.3                           | -                       | 26.3 | 16.1 | -    | -    | -    |
|                        | 72      | 42.6                                 | 3.7                           | -                       | 30.5 | 23.2 | 16.0 | -    | -    | 38.7                              | 4.2                           | -                       | 29.0 | 21.6 | 14.3 | -    | -    |
|                        | 67      | 40.2                                 | 3.7                           | -                       | 34.0 | 28.8 | 22.0 | 15.2 | -    | 37.4                              | 4.1                           | -                       | 31.7 | 27.2 | 20.3 | 13.3 | -    |
|                        | 62      | 40.0                                 | 3.7                           | -                       | 36.7 | 34.4 | 28.1 | 21.7 | 15.3 | 37.4                              | 4.2                           | -                       | 34.5 | 32.8 | 26.2 | 19.6 | 13.0 |
| 1500                   | 77      | 45.1                                 | 3.8                           | -                       | 26.6 | 15.4 | -    | -    | -    | 40.3                              | 4.3                           | -                       | 25.4 | 13.4 | -    | -    | -    |
|                        | 72      | 43.1                                 | 3.7                           | -                       | 31.1 | 23.2 | 15.4 | -    | -    | 39.2                              | 4.2                           | -                       | 29.2 | 21.3 | 13.5 | -    | -    |
|                        | 67      | 41.1                                 | 3.7                           | -                       | 35.6 | 31.1 | 23.2 | 15.3 | -    | 38.1                              | 4.1                           | -                       | 33.1 | 29.3 | 21.3 | 13.3 | -    |
|                        | 62      | 41.0                                 | 3.7                           | -                       | 39.5 | 39.0 | 31.0 | 23.0 | 15.0 | 38.2                              | 4.2                           | -                       | 37.0 | 37.0 | 29.1 | 21.1 | 13.0 |
|                        | 57      | 40.9                                 | 3.7                           | -                       | 39.9 | 39.9 | 38.8 | 30.8 | 22.7 | 38.4                              | 4.2                           | -                       | 37.2 | 37.2 | 37.0 | 28.8 | 20.6 |
| 1750                   | 77      | 45.1                                 | 3.7                           | 39.4                    | 26.3 | 13.1 | -    | -    | -    | 40.5                              | 4.2                           | 38.1                    | 24.4 | 10.7 | -    | -    | -    |
|                        | 72      | 43.6                                 | 3.7                           | 40.2                    | 31.7 | 23.3 | 14.8 | -    | -    | 39.7                              | 4.2                           | 37.9                    | 29.5 | 21.0 | 12.6 | -    | -    |
|                        | 67      | 42.0                                 | 3.7                           | 41.0                    | 37.2 | 33.4 | 24.4 | 15.4 | -    | 38.8                              | 4.1                           | 37.7                    | 34.5 | 31.3 | 22.3 | 13.3 | -    |
|                        | 62      | 42.0                                 | 3.7                           | 41.0                    | 41.0 | 41.0 | 34.0 | 24.4 | 14.8 | 39.1                              | 4.1                           | 37.9                    | 37.9 | 37.9 | 32.1 | 22.5 | 12.9 |
|                        | 57      | 42.1                                 | 3.7                           | 41.1                    | 41.1 | 41.1 | 41.1 | 33.4 | 23.3 | 39.3                              | 4.2                           | 38.1                    | 38.1 | 38.1 | 38.1 | 31.6 | 21.5 |
| 2000                   | 77      | 45.1                                 | 3.7                           | 41.0                    | 25.9 | 10.9 | -    | -    | -    | 40.8                              | 4.2                           | 38.9                    | 23.5 | 8.1  | -    | -    | -    |
|                        | 72      | 44.0                                 | 3.7                           | 41.4                    | 32.4 | 23.3 | 14.2 | -    | -    | 40.3                              | 4.2                           | 38.7                    | 29.7 | 20.7 | 11.8 | -    | -    |
|                        | 67      | 42.9                                 | 3.6                           | 41.9                    | 38.8 | 35.7 | 25.6 | 15.4 | -    | 39.6                              | 4.1                           | 38.4                    | 35.9 | 33.4 | 23.4 | 13.4 | -    |
|                        | 62      | 43.0                                 | 3.7                           | 42.1                    | 42.1 | 42.1 | 36.9 | 25.8 | 14.6 | 39.9                              | 4.1                           | 38.8                    | 38.8 | 38.8 | 35.0 | 23.9 | 12.8 |
|                        | 57      | 43.2                                 | 3.7                           | 42.2                    | 42.2 | 42.2 | 42.2 | 36.1 | 23.8 | 40.3                              | 4.1                           | 39.1                    | 39.1 | 39.1 | 39.1 | 34.5 | 22.3 |
| 2250                   | 72      | 44.5                                 | 3.7                           | 42.7                    | 33.0 | 23.3 | 13.6 | -    | -    | 40.8                              | 4.1                           | 39.4                    | 29.9 | 20.4 | 10.9 | -    | -    |
|                        | 67      | 43.8                                 | 3.6                           | 42.8                    | 40.4 | 38.0 | 26.8 | 15.5 | -    | 40.3                              | 4.1                           | 39.2                    | 37.3 | 35.4 | 24.4 | 13.4 | -    |
|                        | 62      | 44.0                                 | 3.6                           | 43.1                    | 43.1 | 43.1 | 39.9 | 27.1 | 14.3 | 40.8                              | 4.1                           | 39.6                    | 39.6 | 39.6 | 37.9 | 25.3 | 12.8 |
|                        | 57      | 44.3                                 | 3.6                           | 43.3                    | 43.3 | 43.3 | 43.3 | 38.7 | 24.4 | 41.2                              | 4.1                           | 40.1                    | 40.1 | 40.1 | 40.1 | 37.3 | 23.2 |
| 2500                   | 72      | 45.0                                 | 3.6                           | -                       | 33.6 | 23.3 | 13.0 | -    | -    | 41.3                              | 4.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 44.6                                 | 3.6                           | -                       | 42.0 | 40.3 | 27.9 | 15.6 | -    | 41.0                              | 4.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 62      | 45.0                                 | 3.6                           | -                       | 44.1 | 44.1 | 42.9 | 28.5 | 14.1 | 41.6                              | 4.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 57      | 45.4                                 | 3.6                           | -                       | 44.5 | 44.5 | 44.5 | 41.3 | 24.9 | 42.2                              | 4.1                           | -                       | -    | -    | -    | -    | -    |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT078 (6.5 ton) first stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |  |  |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |  |  |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   | 85°F                          |                         |      |      |      |      |      |  |  |
| 750                    | 77      | 37.0                                 | 1.2                           | 13.5                    | 14.5 | 10.3 | -    | -    | -    | 35.1                              | 1.4                           | 13.7                    | 12.2 | 9.1  | -    | -    | -    |  |  |
|                        | 72      | 33.6                                 | 1.2                           | 21.9                    | 18.4 | 14.9 | 11.4 | -    | -    | 31.3                              | 1.4                           | 20.5                    | 17.1 | 13.7 | 10.3 | -    | -    |  |  |
|                        | 67      | 30.2                                 | 1.2                           | 30.2                    | 22.3 | 19.5 | 16.1 | 12.6 | -    | 27.4                              | 1.4                           | 27.4                    | 22.0 | 18.2 | 14.8 | 11.4 | -    |  |  |
|                        | 62      | 29.4                                 | 1.2                           | 29.4                    | 29.4 | 24.0 | 20.6 | 17.1 | 13.6 | 25.1                              | 1.5                           | 25.1                    | 25.1 | 20.0 | 16.6 | 13.2 | 9.8  |  |  |
| 900                    | 77      | 38.4                                 | 1.2                           | 19.0                    | 15.8 | 11.5 | -    | -    | -    | 36.0                              | 1.4                           | 19.0                    | 14.3 | 10.2 | -    | -    | -    |  |  |
|                        | 72      | 34.9                                 | 1.2                           | 25.2                    | 20.9 | 16.7 | 12.4 | -    | -    | 32.1                              | 1.4                           | 23.6                    | 19.4 | 15.3 | 11.1 | -    | -    |  |  |
|                        | 67      | 31.4                                 | 1.2                           | 31.4                    | 26.1 | 21.8 | 17.6 | 13.3 | -    | 28.1                              | 1.4                           | 28.1                    | 24.5 | 20.3 | 16.2 | 12.0 | -    |  |  |
|                        | 62      | 30.4                                 | 1.2                           | 30.4                    | 30.4 | 26.9 | 22.6 | 18.3 | 14.1 | 25.7                              | 1.5                           | 25.7                    | 25.7 | 22.4 | 18.2 | 14.1 | 9.9  |  |  |
|                        | 57      | 27.4                                 | 1.2                           | 27.4                    | 27.4 | 24.3 | 20.0 | 15.7 | 11.5 | 25.1                              | 1.5                           | 25.1                    | 25.1 | 21.8 | 17.7 | 13.5 | 9.4  |  |  |
| 1050                   | 77      | 39.8                                 | 1.2                           | 24.5                    | 17.1 | 12.7 | -    | -    | -    | 36.9                              | 1.4                           | 24.4                    | 16.5 | 11.3 | -    | -    | -    |  |  |
|                        | 72      | 36.2                                 | 1.2                           | 28.5                    | 23.5 | 18.4 | 13.4 | -    | -    | 32.8                              | 1.4                           | 26.6                    | 21.7 | 16.9 | 12.0 | -    | -    |  |  |
|                        | 67      | 32.5                                 | 1.2                           | 32.5                    | 29.8 | 24.1 | 19.1 | 14.1 | -    | 28.8                              | 1.4                           | 28.8                    | 27.0 | 22.4 | 17.6 | 12.7 | -    |  |  |
|                        | 62      | 31.5                                 | 1.2                           | 31.5                    | 31.5 | 29.7 | 24.6 | 19.6 | 14.6 | 26.4                              | 1.5                           | 26.4                    | 26.4 | 24.7 | 19.8 | 14.9 | 10.1 |  |  |
|                        | 57      | 28.4                                 | 1.2                           | 28.4                    | 28.4 | 26.8 | 21.8 | 16.7 | 11.7 | 25.7                              | 1.5                           | 25.7                    | 25.7 | 24.1 | 19.2 | 14.4 | 9.5  |  |  |
| 1200                   | 77      | 41.3                                 | 1.2                           | 30.0                    | 18.4 | 13.9 | -    | -    | -    | 37.8                              | 1.4                           | 29.8                    | 18.6 | 12.3 | -    | -    | -    |  |  |
|                        | 72      | 37.4                                 | 1.2                           | 31.8                    | 26.0 | 20.2 | 14.4 | -    | -    | 33.6                              | 1.4                           | 29.6                    | 24.0 | 18.4 | 12.8 | -    | -    |  |  |
|                        | 67      | 33.6                                 | 1.2                           | 33.6                    | 33.6 | 26.4 | 20.6 | 14.8 | -    | 29.5                              | 1.4                           | 29.5                    | 29.5 | 24.6 | 19.0 | 13.4 | -    |  |  |
|                        | 62      | 32.5                                 | 1.2                           | 32.5                    | 32.5 | 32.5 | 26.7 | 20.9 | 15.1 | 27.0                              | 1.5                           | 27.0                    | 27.0 | 27.0 | 21.4 | 15.8 | 10.2 |  |  |
|                        | 57      | 29.4                                 | 1.2                           | 29.4                    | 29.4 | 29.4 | 23.6 | 17.8 | 12.0 | 26.4                              | 1.5                           | 26.4                    | 26.4 | 26.4 | 20.8 | 15.2 | 9.6  |  |  |
| 1350                   | 72      | 38.5                                 | 1.2                           | 35.7                    | 28.4 | 21.9 | 15.4 | -    | -    | 34.3                              | 1.4                           | 32.3                    | 26.2 | 19.9 | 13.6 | -    | -    |  |  |
|                        | 67      | 34.6                                 | 1.2                           | 34.6                    | 34.6 | 28.7 | 22.2 | 15.7 | -    | 30.1                              | 1.4                           | 30.1                    | 30.1 | 26.5 | 20.2 | 13.9 | -    |  |  |
|                        | 62      | 33.4                                 | 1.2                           | 33.4                    | 33.4 | 33.4 | 26.9 | 20.4 | 13.8 | 27.6                              | 1.5                           | 27.6                    | 27.6 | 27.6 | 21.3 | 15.0 | 8.7  |  |  |
|                        | 57      | 30.2                                 | 1.2                           | 30.2                    | 30.2 | 30.2 | 23.7 | 17.2 | 10.6 | 26.9                              | 1.4                           | 26.9                    | 26.9 | 26.9 | 20.6 | 14.3 | 8.0  |  |  |
| 1500                   | 72      | 39.6                                 | 1.2                           | 39.6                    | 30.9 | 23.6 | 16.4 | -    | -    | 35.0                              | 1.4                           | 35.0                    | 28.3 | 21.3 | 14.4 | -    | -    |  |  |
|                        | 67      | 35.5                                 | 1.2                           | 35.5                    | 35.5 | 31.0 | 23.7 | 16.5 | -    | 30.7                              | 1.4                           | 30.7                    | 30.7 | 28.4 | 21.4 | 14.4 | -    |  |  |
|                        | 62      | 34.3                                 | 1.2                           | 34.3                    | 34.3 | 34.3 | 27.1 | 19.8 | 12.6 | 28.1                              | 1.4                           | 28.1                    | 28.1 | 28.1 | 21.1 | 14.1 | 7.1  |  |  |
|                        | 57      | 31.1                                 | 1.2                           | 31.1                    | 31.1 | 31.1 | 23.8 | 16.6 | 9.3  | 27.5                              | 1.4                           | 27.5                    | 27.5 | 27.5 | 20.5 | 13.5 | 6.5  |  |  |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   | 105°F                         |                         |      |      |      |      |      |  |  |
| 750                    | 77      | 33.2                                 | 1.7                           | 13.8                    | 10.0 | 8.0  | -    | -    | -    | 31.3                              | 1.9                           | 12.9                    | 8.4  | 6.9  | -    | -    | -    |  |  |
|                        | 72      | 28.9                                 | 1.7                           | 19.2                    | 15.8 | 12.4 | 9.1  | -    | -    | 26.6                              | 2.0                           | 17.4                    | 14.2 | 11.0 | 7.8  | -    | -    |  |  |
|                        | 67      | 24.5                                 | 1.7                           | 24.5                    | 21.6 | 16.9 | 13.5 | 10.2 | -    | 21.9                              | 2.0                           | 21.9                    | 20.0 | 15.2 | 12.0 | 8.8  | -    |  |  |
|                        | 62      | 20.8                                 | 1.7                           | 20.8                    | 20.8 | 16.0 | 12.7 | 9.3  | 5.9  | 19.0                              | 2.0                           | 19.0                    | 19.0 | 14.4 | 11.2 | 8.0  | 4.8  |  |  |
| 900                    | 77      | 33.6                                 | 1.7                           | 19.1                    | 12.9 | 8.9  | -    | -    | -    | 31.4                              | 1.9                           | 18.0                    | 11.5 | 7.7  | -    | -    | -    |  |  |
|                        | 72      | 29.2                                 | 1.7                           | 21.9                    | 17.9 | 13.9 | 9.8  | -    | -    | 26.7                              | 2.0                           | 20.0                    | 16.2 | 12.3 | 8.5  | -    | -    |  |  |
|                        | 67      | 24.8                                 | 1.7                           | 24.8                    | 22.9 | 18.8 | 14.8 | 10.8 | -    | 22.1                              | 2.0                           | 22.1                    | 20.8 | 17.0 | 13.1 | 9.3  | -    |  |  |
|                        | 62      | 21.0                                 | 1.7                           | 21.0                    | 21.0 | 17.8 | 13.8 | 9.8  | 5.7  | 19.1                              | 2.0                           | 19.1                    | 19.1 | 16.0 | 12.2 | 8.3  | 4.5  |  |  |
|                        | 57      | 22.9                                 | 1.7                           | 22.9                    | 22.9 | 19.4 | 15.4 | 11.3 | 7.3  | 19.6                              | 2.0                           | 19.6                    | 19.6 | 16.5 | 12.6 | 8.8  | 4.9  |  |  |
| 1050                   | 77      | 34.0                                 | 1.7                           | 24.3                    | 15.9 | 9.8  | -    | -    | -    | 31.6                              | 1.9                           | 23.0                    | 14.6 | 8.4  | -    | -    | -    |  |  |
|                        | 72      | 29.5                                 | 1.7                           | 24.7                    | 20.0 | 15.3 | 10.6 | -    | -    | 26.9                              | 2.0                           | 22.6                    | 18.1 | 13.6 | 9.1  | -    | -    |  |  |
|                        | 67      | 25.1                                 | 1.7                           | 25.1                    | 24.1 | 20.8 | 16.1 | 11.3 | -    | 22.2                              | 2.0                           | 22.2                    | 21.6 | 18.7 | 14.2 | 9.7  | -    |  |  |
|                        | 62      | 21.3                                 | 1.7                           | 21.3                    | 21.3 | 19.7 | 15.0 | 10.2 | 5.5  | 19.2                              | 2.0                           | 19.2                    | 19.2 | 17.7 | 13.2 | 8.6  | 4.1  |  |  |
|                        | 57      | 23.1                                 | 1.7                           | 23.1                    | 23.1 | 21.4 | 16.7 | 12.0 | 7.3  | 19.7                              | 2.0                           | 19.7                    | 19.7 | 18.2 | 13.7 | 9.2  | 4.7  |  |  |
| 1200                   | 77      | 34.4                                 | 1.7                           | 29.5                    | 18.8 | 10.7 | -    | -    | -    | 31.8                              | 1.9                           | 28.0                    | 17.7 | 9.2  | -    | -    | -    |  |  |
|                        | 72      | 29.9                                 | 1.7                           | 27.5                    | 22.1 | 16.7 | 11.3 | -    | -    | 27.1                              | 2.0                           | 25.2                    | 20.0 | 14.8 | 9.7  | -    | -    |  |  |
|                        | 67      | 25.4                                 | 1.7                           | 25.4                    | 25.4 | 22.7 | 17.3 | 11.9 | -    | 22.3                              | 2.0                           | 22.3                    | 22.3 | 20.4 | 15.3 | 10.1 | -    |  |  |
|                        | 62      | 21.5                                 | 1.7                           | 21.5                    | 21.5 | 21.5 | 16.1 | 10.7 | 5.3  | 19.3                              | 2.0                           | 19.3                    | 19.3 | 19.3 | 14.1 | 9.0  | 3.8  |  |  |
|                        | 57      | 23.4                                 | 1.7                           | 23.4                    | 23.4 | 23.4 | 18.0 | 12.6 | 7.2  | 19.9                              | 2.0                           | 19.9                    | 19.9 | 19.9 | 14.7 | 9.5  | 4.4  |  |  |
| 1350                   | 72      | 30.2                                 | 1.7                           | 29.0                    | 23.9 | 17.9 | 11.8 | -    | -    | 27.4                              | 2.0                           | 26.5                    | 21.6 | 15.8 | 9.9  | -    | -    |  |  |
|                        | 67      | 25.6                                 | 1.7                           | 25.6                    | 25.6 | 24.3 | 18.2 | 12.2 | -    | 22.6                              | 2.0                           | 22.6                    | 22.6 | 21.7 | 15.9 | 10.0 | -    |  |  |
|                        | 62      | 21.7                                 | 1.7                           | 21.7                    | 21.7 | 21.7 | 15.6 | 9.6  | 3.5  | 19.6                              | 2.0                           | 19.6                    | 19.6 | 19.6 | 13.7 | 7.9  | 2.1  |  |  |
|                        | 57      | 23.6                                 | 1.7                           | 23.6                    | 23.6 | 23.6 | 17.5 | 11.5 | 5.4  | 20.1                              | 2.0                           | 20.1                    | 20.1 | 20.1 | 14.3 | 8.5  | 2.6  |  |  |
| 1500                   | 72      | 30.5                                 | 1.7                           | 30.5                    | 25.8 | 19.1 | 12.3 | -    | -    | 27.8                              | 1.9                           | 27.8                    | 23.2 | 16.7 | 10.2 | -    | -    |  |  |
|                        | 67      | 25.9                                 | 1.7                           | 25.9                    | 25.9 | 25.9 | 19.1 | 12.4 | -    | 22.9                              | 2.0                           | 22.9                    | 22.9 | 22.9 | 16.4 | 9.9  | -    |  |  |
|                        | 62      | 21.9                                 | 1.7                           | 21.9                    | 21.9 | 21.9 | 15.2 | 8.4  | 1.7  | 19.8                              | 2.0                           | 19.8                    | 19.8 | 19.8 | 13.3 | 6.8  | 0.3  |  |  |
|                        | 57      | 23.9                                 | 1.7                           | 23.9                    | 23.9 | 23.9 | 17.1 | 10.3 | 3.6  | 20.4                              | 2.0                           | 20.4                    | 20.4 | 20.4 | 13.9 | 7.4  | 0.9  |  |  |

**ZT078 (6.5 ton) first stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |     |      |                                   |                               |                         |      |      |      |     |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|-----|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|-----|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |     |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |     |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |     |      |                                   |                               | Return dry bulb (°F)    |      |      |      |     |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70  | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70  | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |     |      |                                   |                               | 125°F                   |      |      |      |     |      |
| 750                    | 77      | 29.3                                 | 2.2                           | 12.1                    | 6.8  | 5.8  | -    | -   | -    | 27.3                              | 2.5                           | 11.2                    | 5.5  | 4.6  | -    | -   | -    |
|                        | 72      | 24.3                                 | 2.2                           | 15.7                    | 12.7 | 9.6  | 6.6  | -   | -    | 22.0                              | 2.5                           | 13.9                    | 11.1 | 8.2  | 5.4  | -   | -    |
|                        | 67      | 19.3                                 | 2.3                           | 19.3                    | 18.5 | 13.5 | 10.5 | 7.5 | -    | 16.7                              | 2.6                           | 16.7                    | 16.7 | 11.8 | 8.9  | 6.1 | -    |
|                        | 62      | 17.1                                 | 2.3                           | 17.1                    | 17.1 | 12.7 | 9.7  | 6.6 | 3.6  | 15.3                              | 2.5                           | 15.3                    | 15.3 | 11.0 | 8.2  | 5.3 | 2.5  |
| 900                    | 77      | 29.3                                 | 2.2                           | 16.8                    | 10.1 | 6.4  | -    | -   | -    | 27.1                              | 2.5                           | 15.7                    | 8.8  | 5.2  | -    | -   | -    |
|                        | 72      | 24.3                                 | 2.2                           | 18.1                    | 14.4 | 10.7 | 7.1  | -   | -    | 21.8                              | 2.5                           | 16.1                    | 12.7 | 9.2  | 5.7  | -   | -    |
|                        | 67      | 19.3                                 | 2.3                           | 19.3                    | 18.7 | 15.1 | 11.4 | 7.7 | -    | 16.5                              | 2.6                           | 16.5                    | 16.5 | 13.2 | 9.7  | 6.2 | -    |
|                        | 62      | 17.1                                 | 2.3                           | 17.1                    | 17.1 | 14.2 | 10.5 | 6.8 | 3.2  | 15.2                              | 2.5                           | 15.2                    | 15.2 | 12.3 | 8.9  | 5.4 | 1.9  |
|                        | 57      | 16.4                                 | 2.3                           | 16.4                    | 16.4 | 13.5 | 9.9  | 6.2 | 2.5  | 13.1                              | 2.5                           | 13.1                    | 13.1 | 10.6 | 7.1  | 3.6 | 0.2  |
| 1050                   | 77      | 29.3                                 | 2.2                           | 21.6                    | 13.3 | 7.1  | -    | -   | -    | 26.9                              | 2.5                           | 20.3                    | 12.1 | 5.7  | -    | -   | -    |
|                        | 72      | 24.3                                 | 2.2                           | 20.5                    | 16.2 | 11.9 | 7.6  | -   | -    | 21.7                              | 2.5                           | 18.4                    | 14.3 | 10.2 | 6.1  | -   | -    |
|                        | 67      | 19.3                                 | 2.3                           | 19.3                    | 19.0 | 16.6 | 12.3 | 8.0 | -    | 16.4                              | 2.6                           | 16.4                    | 16.4 | 14.6 | 10.5 | 6.4 | -    |
|                        | 62      | 17.1                                 | 2.3                           | 17.1                    | 17.1 | 15.6 | 11.3 | 7.0 | 2.7  | 15.1                              | 2.6                           | 15.1                    | 15.1 | 13.6 | 9.5  | 5.4 | 1.3  |
|                        | 57      | 16.4                                 | 2.3                           | 16.4                    | 16.4 | 14.9 | 10.6 | 6.3 | 2.0  | 13.0                              | 2.6                           | 13.0                    | 13.0 | 11.7 | 7.6  | 3.5 | -0.6 |
| 1200                   | 77      | 29.3                                 | 2.2                           | 26.4                    | 16.6 | 7.8  | -    | -   | -    | 26.7                              | 2.5                           | 24.9                    | 15.5 | 6.3  | -    | -   | -    |
|                        | 72      | 24.3                                 | 2.2                           | 22.9                    | 17.9 | 13.0 | 8.1  | -   | -    | 21.5                              | 2.5                           | 20.6                    | 15.9 | 11.1 | 6.4  | -   | -    |
|                        | 67      | 19.3                                 | 2.3                           | 19.3                    | 19.3 | 18.2 | 13.3 | 8.3 | -    | 16.3                              | 2.6                           | 16.3                    | 16.3 | 16.0 | 11.3 | 6.5 | -    |
|                        | 62      | 17.1                                 | 2.3                           | 17.1                    | 17.1 | 17.1 | 12.2 | 7.2 | 2.3  | 14.9                              | 2.6                           | 14.9                    | 14.9 | 14.9 | 10.2 | 5.5 | 0.8  |
|                        | 57      | 16.4                                 | 2.3                           | 16.4                    | 16.4 | 16.4 | 11.4 | 6.5 | 1.5  | 12.9                              | 2.6                           | 12.9                    | 12.9 | 12.9 | 8.1  | 3.4 | -1.3 |
| 1350                   | 72      | 24.7                                 | 2.2                           | 24.0                    | 19.2 | 13.6 | 8.0  | -   | -    | 22.0                              | 2.5                           | 21.5                    | 16.9 | 11.5 | 6.1  | -   | -    |
|                        | 67      | 19.6                                 | 2.3                           | 19.6                    | 19.6 | 19.1 | 13.5 | 7.9 | -    | 16.7                              | 2.6                           | 16.7                    | 16.7 | 16.5 | 11.1 | 5.8 | -    |
|                        | 62      | 17.4                                 | 2.3                           | 17.4                    | 17.4 | 17.4 | 11.8 | 6.2 | 0.6  | 15.3                              | 2.6                           | 15.3                    | 15.3 | 15.3 | 9.9  | 4.6 | -0.8 |
|                        | 57      | 16.7                                 | 2.3                           | 16.7                    | 16.7 | 16.7 | 11.1 | 5.5 | -0.1 | 13.2                              | 2.6                           | 13.2                    | 13.2 | 13.2 | 7.8  | 2.4 | -2.9 |
| 1500                   | 72      | 25.2                                 | 2.2                           | 25.2                    | 20.5 | 14.3 | 8.0  | -   | -    | 22.5                              | 2.5                           | 22.5                    | 17.9 | 11.9 | 5.8  | -   | -    |
|                        | 67      | 20.0                                 | 2.3                           | 20.0                    | 20.0 | 20.0 | 13.7 | 7.5 | -    | 17.0                              | 2.6                           | 17.0                    | 17.0 | 17.0 | 11.0 | 5.0 | -    |
|                        | 62      | 17.7                                 | 2.3                           | 17.7                    | 17.7 | 17.7 | 11.5 | 5.2 | -1.0 | 15.6                              | 2.6                           | 15.6                    | 15.6 | 15.6 | 9.6  | 3.6 | -2.4 |
|                        | 57      | 17.0                                 | 2.3                           | 17.0                    | 17.0 | 17.0 | 10.7 | 4.4 | -1.8 | 13.5                              | 2.6                           | 13.5                    | 13.5 | 13.5 | 7.5  | 1.5 | -4.5 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



## ZT078 (6.5 ton) second stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1125                   | 77      | 66.8                                 | 3.3                           | 26.7                    | 22.3 | 18.7 | -    | -    | -    | 62.4                              | 3.4                           | 24.9                    | 21.2 | 17.2 | -    | -    | -    |
|                        | 72      | 60.4                                 | 3.1                           | 32.5                    | 28.9 | 25.3 | 21.7 | -    | -    | 55.9                              | 3.4                           | 31.8                    | 27.8 | 23.9 | 19.9 | -    | -    |
|                        | 67      | 54.0                                 | 2.9                           | 38.4                    | 35.6 | 32.0 | 28.4 | 24.8 | -    | 49.3                              | 3.3                           | 38.7                    | 34.5 | 30.5 | 26.5 | 22.6 | -    |
|                        | 62      | 46.9                                 | 2.8                           | 46.9                    | 46.9 | 39.7 | 36.1 | 32.5 | 28.9 | 42.9                              | 3.4                           | 42.9                    | 42.9 | 36.1 | 32.1 | 28.2 | 24.2 |
| 1350                   | 77      | 72.2                                 | 3.0                           | 32.4                    | 27.0 | 21.6 | -    | -    | -    | 66.1                              | 3.3                           | 30.1                    | 24.8 | 19.5 | -    | -    | -    |
|                        | 72      | 65.3                                 | 2.8                           | 40.2                    | 34.7 | 29.3 | 23.9 | -    | -    | 59.2                              | 3.2                           | 37.6                    | 32.3 | 27.0 | 21.7 | -    | -    |
|                        | 67      | 58.3                                 | 2.6                           | 47.9                    | 42.5 | 37.1 | 31.7 | 26.2 | -    | 52.2                              | 3.2                           | 45.1                    | 39.8 | 34.5 | 29.2 | 23.9 | -    |
|                        | 62      | 50.7                                 | 2.5                           | 50.7                    | 50.7 | 45.9 | 40.5 | 35.0 | 29.6 | 45.4                              | 3.2                           | 45.4                    | 45.4 | 40.9 | 35.6 | 30.3 | 25.0 |
|                        | 57      | 47.8                                 | 3.0                           | 47.8                    | 47.8 | 43.2 | 37.8 | 32.4 | 27.0 | 43.7                              | 3.2                           | 43.7                    | 43.7 | 39.4 | 34.1 | 28.8 | 23.5 |
| 1575                   | 77      | 77.7                                 | 2.7                           | 38.1                    | 31.7 | 24.5 | -    | -    | -    | 69.8                              | 3.1                           | 35.3                    | 28.4 | 21.8 | -    | -    | -    |
|                        | 72      | 70.2                                 | 2.5                           | 47.8                    | 40.6 | 33.3 | 26.1 | -    | -    | 62.5                              | 3.0                           | 43.4                    | 36.8 | 30.2 | 23.5 | -    | -    |
|                        | 67      | 62.7                                 | 2.3                           | 57.5                    | 49.4 | 42.2 | 34.9 | 27.7 | -    | 55.1                              | 3.0                           | 51.6                    | 45.2 | 38.6 | 31.9 | 25.3 | -    |
|                        | 62      | 54.5                                 | 2.2                           | 54.5                    | 54.5 | 52.1 | 44.8 | 37.6 | 30.4 | 47.9                              | 3.0                           | 47.9                    | 47.9 | 45.7 | 39.0 | 32.4 | 25.8 |
|                        | 57      | 51.4                                 | 2.7                           | 51.4                    | 51.4 | 49.1 | 41.9 | 34.7 | 27.4 | 46.1                              | 3.0                           | 46.1                    | 46.1 | 44.0 | 37.3 | 30.7 | 24.1 |
| 1800                   | 77      | 83.1                                 | 2.4                           | 43.8                    | 36.5 | 27.4 | -    | -    | -    | 73.4                              | 2.9                           | 40.4                    | 32.0 | 24.1 | -    | -    | -    |
|                        | 72      | 75.1                                 | 2.2                           | 55.4                    | 46.4 | 37.3 | 28.3 | -    | -    | 65.7                              | 2.9                           | 49.2                    | 41.3 | 33.3 | 25.4 | -    | -    |
|                        | 67      | 67.0                                 | 2.1                           | 67.0                    | 56.3 | 47.2 | 38.2 | 29.1 | -    | 58.1                              | 2.8                           | 58.1                    | 50.6 | 42.6 | 34.7 | 26.7 | -    |
|                        | 62      | 58.3                                 | 2.0                           | 58.3                    | 58.3 | 58.3 | 49.2 | 40.2 | 31.1 | 50.4                              | 2.9                           | 50.4                    | 50.4 | 50.4 | 42.5 | 34.5 | 26.6 |
|                        | 57      | 55.0                                 | 2.4                           | 55.0                    | 55.0 | 55.0 | 45.9 | 36.9 | 27.9 | 48.6                              | 2.9                           | 48.6                    | 48.6 | 48.6 | 40.6 | 32.6 | 24.7 |
| 2025                   | 72      | 75.4                                 | 2.4                           | 57.7                    | 48.3 | 39.0 | 29.6 | -    | -    | 66.2                              | 2.9                           | 52.5                    | 43.9 | 35.3 | 26.8 | -    | -    |
|                        | 67      | 67.3                                 | 2.2                           | 67.3                    | 59.9 | 49.3 | 39.9 | 30.6 | -    | 58.5                              | 2.9                           | 58.5                    | 53.7 | 45.2 | 36.6 | 28.0 | -    |
|                        | 62      | 58.5                                 | 2.1                           | 58.5                    | 58.5 | 58.5 | 49.1 | 39.8 | 30.5 | 50.8                              | 2.9                           | 50.8                    | 50.8 | 50.8 | 42.2 | 33.7 | 25.1 |
|                        | 57      | 55.2                                 | 2.6                           | 55.2                    | 55.2 | 55.2 | 45.8 | 36.5 | 27.2 | 48.9                              | 2.9                           | 48.9                    | 48.9 | 48.9 | 40.4 | 31.8 | 23.2 |
| 2250                   | 72      | 75.6                                 | 2.5                           | 59.9                    | 50.3 | 40.6 | 31.0 | -    | -    | 66.7                              | 2.9                           | 55.7                    | 46.5 | 37.3 | 28.1 | -    | -    |
|                        | 67      | 67.5                                 | 2.4                           | 67.5                    | 63.5 | 51.3 | 41.7 | 32.0 | -    | 58.9                              | 2.9                           | 58.9                    | 56.9 | 47.7 | 38.5 | 29.4 | -    |
|                        | 62      | 58.7                                 | 2.3                           | 58.7                    | 58.7 | 58.7 | 49.1 | 39.4 | 29.8 | 51.2                              | 2.9                           | 51.2                    | 51.2 | 51.2 | 42.0 | 32.8 | 23.6 |
|                        | 57      | 55.4                                 | 2.7                           | 55.4                    | 55.4 | 55.4 | 45.7 | 36.1 | 26.4 | 49.3                              | 2.9                           | 49.3                    | 49.3 | 49.3 | 40.1 | 30.9 | 21.7 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |      |
| 1125                   | 77      | 58.0                                 | 3.6                           | 23.1                    | 20.1 | 15.8 | -    | -    | -    | 52.8                              | 4.6                           | 19.2                    | 17.3 | 13.1 | -    | -    | -    |
|                        | 72      | 51.4                                 | 3.7                           | 31.1                    | 26.7 | 22.4 | 18.0 | -    | -    | 46.3                              | 4.7                           | 27.9                    | 23.7 | 19.5 | 15.3 | -    | -    |
|                        | 67      | 44.7                                 | 3.8                           | 39.0                    | 33.3 | 29.0 | 24.6 | 20.3 | -    | 39.8                              | 4.8                           | 36.6                    | 30.1 | 25.9 | 21.7 | 17.5 | -    |
|                        | 62      | 38.8                                 | 4.0                           | 38.8                    | 38.8 | 32.5 | 28.2 | 23.8 | 19.5 | 35.2                              | 4.8                           | 35.2                    | 35.2 | 28.8 | 24.6 | 20.4 | 16.2 |
| 1350                   | 77      | 59.9                                 | 3.6                           | 27.8                    | 22.6 | 17.4 | -    | -    | -    | 54.7                              | 4.5                           | 24.8                    | 19.8 | 14.7 | -    | -    | -    |
|                        | 72      | 53.1                                 | 3.7                           | 35.1                    | 29.9 | 24.7 | 19.5 | -    | -    | 47.9                              | 4.6                           | 31.9                    | 26.9 | 21.8 | 16.7 | -    | -    |
|                        | 67      | 46.2                                 | 3.7                           | 42.4                    | 37.2 | 32.0 | 26.8 | 21.6 | -    | 41.2                              | 4.6                           | 39.1                    | 34.0 | 28.9 | 23.9 | 18.8 | -    |
|                        | 62      | 40.1                                 | 3.9                           | 40.1                    | 40.1 | 35.9 | 30.7 | 25.5 | 20.3 | 36.5                              | 4.6                           | 36.5                    | 36.5 | 32.2 | 27.1 | 22.1 | 17.0 |
|                        | 57      | 39.6                                 | 3.5                           | 39.6                    | 39.6 | 35.5 | 30.3 | 25.1 | 19.9 | 36.2                              | 4.2                           | 36.2                    | 36.2 | 31.9 | 26.9 | 21.8 | 16.7 |
| 1575                   | 77      | 61.8                                 | 3.5                           | 32.4                    | 25.1 | 19.0 | -    | -    | -    | 56.5                              | 4.3                           | 30.4                    | 22.2 | 16.2 | -    | -    | -    |
|                        | 72      | 54.7                                 | 3.6                           | 39.1                    | 33.0 | 27.0 | 21.0 | -    | -    | 49.6                              | 4.4                           | 36.0                    | 30.1 | 24.1 | 18.2 | -    | -    |
|                        | 67      | 47.6                                 | 3.7                           | 45.7                    | 41.0 | 35.0 | 29.0 | 22.9 | -    | 42.7                              | 4.5                           | 41.6                    | 37.9 | 32.0 | 26.1 | 20.1 | -    |
|                        | 62      | 41.3                                 | 3.9                           | 41.3                    | 41.3 | 39.2 | 33.2 | 27.2 | 21.2 | 37.7                              | 4.5                           | 37.7                    | 37.7 | 35.6 | 29.7 | 23.7 | 17.8 |
|                        | 57      | 40.9                                 | 3.4                           | 40.9                    | 40.9 | 38.8 | 32.8 | 26.7 | 20.7 | 37.4                              | 4.1                           | 37.4                    | 37.4 | 35.3 | 29.4 | 23.4 | 17.5 |
| 1800                   | 77      | 63.7                                 | 3.4                           | 37.1                    | 27.5 | 20.7 | -    | -    | -    | 58.4                              | 4.2                           | 36.0                    | 24.6 | 17.8 | -    | -    | -    |
|                        | 72      | 56.4                                 | 3.5                           | 43.1                    | 36.2 | 29.3 | 22.5 | -    | -    | 51.3                              | 4.2                           | 40.0                    | 33.2 | 26.4 | 19.6 | -    | -    |
|                        | 67      | 49.1                                 | 3.6                           | 49.1                    | 44.9 | 38.0 | 31.1 | 24.2 | -    | 44.1                              | 4.3                           | 44.1                    | 41.9 | 35.1 | 28.3 | 21.5 | -    |
|                        | 62      | 42.6                                 | 3.8                           | 42.6                    | 42.6 | 42.6 | 35.7 | 28.9 | 22.0 | 39.0                              | 4.3                           | 39.0                    | 39.0 | 39.0 | 32.2 | 25.4 | 18.6 |
|                        | 57      | 42.1                                 | 3.3                           | 42.1                    | 42.1 | 42.1 | 35.3 | 28.4 | 21.5 | 38.7                              | 3.9                           | 38.7                    | 38.7 | 38.7 | 31.9 | 25.1 | 18.3 |
| 2025                   | 72      | 57.1                                 | 3.4                           | 47.3                    | 39.5 | 31.7 | 23.9 | -    | -    | 52.0                              | 4.1                           | 43.8                    | 36.1 | 28.5 | 20.8 | -    | -    |
|                        | 67      | 49.7                                 | 3.5                           | 49.7                    | 47.6 | 41.0 | 33.3 | 25.5 | -    | 44.7                              | 4.2                           | 44.7                    | 43.6 | 37.8 | 30.1 | 22.5 | -    |
|                        | 62      | 43.1                                 | 3.7                           | 43.1                    | 43.1 | 43.1 | 35.3 | 27.5 | 19.7 | 39.6                              | 4.2                           | 39.6                    | 39.6 | 39.6 | 31.9 | 24.3 | 16.6 |
|                        | 57      | 42.7                                 | 3.2                           | 42.7                    | 42.7 | 42.7 | 34.9 | 27.1 | 19.3 | 39.3                              | 3.8                           | 39.3                    | 39.3 | 39.3 | 31.6 | 23.9 | 16.3 |
| 2250                   | 72      | 57.8                                 | 3.3                           | 51.5                    | 42.8 | 34.1 | 25.3 | -    | -    | 52.8                              | 4.0                           | 47.6                    | 39.1 | 30.5 | 22.0 | -    | -    |
|                        | 67      | 50.3                                 | 3.4                           | 50.3                    | 50.3 | 44.1 | 35.4 | 26.7 | -    | 45.4                              | 4.1                           | 45.4                    | 45.4 | 40.5 | 32.0 | 23.5 | -    |
|                        | 62      | 43.7                                 | 3.6                           | 43.7                    | 43.7 | 43.7 | 34.9 | 26.2 | 17.5 | 40.2                              | 4.1                           | 40.2                    | 40.2 | 40.2 | 31.6 | 23.1 | 14.6 |
|                        | 57      | 43.2                                 | 3.2                           | 43.2                    | 43.2 | 43.2 | 34.5 | 25.7 | 17.0 | 39.8                              | 3.7                           | 39.8                    | 39.8 | 39.8 | 31.3 | 22.8 | 14.3 |

**ZT078 (6.5 ton) second stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 1125                   | 77      | 47.5                                 | 5.6                           | 15.3                    | 14.6 | 10.5 | -    | -    | -    | 42.2                              | 6.6                           | 13.1                    | 10.9 | 7.9  | -    | -    | -    |
|                        | 72      | 41.2                                 | 5.7                           | 24.7                    | 20.7 | 16.6 | 12.6 | -    | -    | 36.1                              | 6.7                           | 21.6                    | 17.7 | 13.8 | 9.9  | -    | -    |
|                        | 67      | 34.9                                 | 5.8                           | 34.1                    | 26.8 | 22.8 | 18.7 | 14.7 | -    | 30.0                              | 6.7                           | 30.0                    | 23.5 | 19.6 | 15.7 | 11.8 | -    |
|                        | 62      | 31.6                                 | 5.6                           | 31.6                    | 31.6 | 25.0 | 21.0 | 17.0 | 12.9 | 28.1                              | 6.4                           | 28.1                    | 28.1 | 21.3 | 17.4 | 13.5 | 9.6  |
| 1350                   | 77      | 49.4                                 | 5.4                           | 21.9                    | 16.9 | 12.0 | -    | -    | -    | 44.1                              | 6.3                           | 20.0                    | 14.1 | 9.2  | -    | -    | -    |
|                        | 72      | 42.8                                 | 5.5                           | 28.8                    | 23.9 | 18.9 | 14.0 | -    | -    | 37.7                              | 6.4                           | 25.7                    | 20.9 | 16.0 | 11.2 | -    | -    |
|                        | 67      | 36.3                                 | 5.5                           | 35.8                    | 30.8 | 25.9 | 20.9 | 16.0 | -    | 31.4                              | 6.4                           | 31.4                    | 27.7 | 22.8 | 18.0 | 13.2 | -    |
|                        | 62      | 32.9                                 | 5.3                           | 32.9                    | 32.9 | 28.5 | 23.6 | 18.6 | 13.7 | 29.3                              | 6.0                           | 29.3                    | 29.3 | 24.8 | 20.0 | 15.2 | 10.3 |
|                        | 57      | 32.7                                 | 5.0                           | 32.7                    | 32.7 | 28.4 | 23.4 | 18.5 | 13.5 | 29.3                              | 5.7                           | 29.3                    | 29.3 | 24.8 | 20.0 | 15.2 | 10.3 |
| 1575                   | 77      | 51.2                                 | 5.1                           | 28.4                    | 19.3 | 13.4 | -    | -    | -    | 45.9                              | 6.0                           | 26.9                    | 17.3 | 10.6 | -    | -    | -    |
|                        | 72      | 44.5                                 | 5.2                           | 32.9                    | 27.1 | 21.2 | 15.4 | -    | -    | 39.3                              | 6.0                           | 29.8                    | 24.1 | 18.3 | 12.6 | -    | -    |
|                        | 67      | 37.7                                 | 5.3                           | 37.4                    | 34.9 | 29.0 | 23.2 | 17.3 | -    | 32.7                              | 6.1                           | 32.7                    | 31.8 | 26.0 | 20.3 | 14.5 | -    |
|                        | 62      | 34.1                                 | 5.1                           | 34.1                    | 34.1 | 31.9 | 26.1 | 20.3 | 14.4 | 30.5                              | 5.7                           | 30.5                    | 30.5 | 28.3 | 22.5 | 16.8 | 11.0 |
|                        | 57      | 34.0                                 | 4.7                           | 34.0                    | 34.0 | 31.8 | 26.0 | 20.1 | 14.3 | 30.5                              | 5.4                           | 30.5                    | 30.5 | 28.3 | 22.6 | 16.8 | 11.1 |
| 1800                   | 77      | 53.1                                 | 4.9                           | 34.9                    | 21.6 | 14.9 | -    | -    | -    | 47.8                              | 5.6                           | 33.8                    | 20.5 | 12.0 | -    | -    | -    |
|                        | 72      | 46.1                                 | 5.0                           | 37.0                    | 30.3 | 23.5 | 16.8 | -    | -    | 41.0                              | 5.7                           | 34.0                    | 27.3 | 20.6 | 13.9 | -    | -    |
|                        | 67      | 39.1                                 | 5.0                           | 39.1                    | 38.9 | 32.2 | 25.4 | 18.7 | -    | 34.1                              | 5.7                           | 34.1                    | 34.1 | 29.2 | 22.6 | 15.9 | -    |
|                        | 62      | 35.4                                 | 4.9                           | 35.4                    | 35.4 | 35.4 | 28.7 | 21.9 | 15.2 | 31.8                              | 5.4                           | 31.8                    | 31.8 | 31.8 | 25.1 | 18.4 | 11.8 |
|                        | 57      | 35.2                                 | 4.5                           | 35.2                    | 35.2 | 35.2 | 28.5 | 21.8 | 15.0 | 31.8                              | 5.1                           | 31.8                    | 31.8 | 31.8 | 25.1 | 18.4 | 11.8 |
| 2025                   | 72      | 46.9                                 | 4.8                           | 40.3                    | 32.8 | 25.3 | 17.7 | -    | -    | 41.8                              | 5.5                           | 36.9                    | 29.5 | 22.1 | 14.7 | -    | -    |
|                        | 67      | 39.8                                 | 4.9                           | 39.8                    | 39.7 | 34.6 | 27.0 | 19.5 | -    | 34.8                              | 5.6                           | 34.8                    | 34.8 | 31.3 | 23.9 | 16.5 | -    |
|                        | 62      | 36.0                                 | 4.7                           | 36.0                    | 36.0 | 36.0 | 28.5 | 21.0 | 13.4 | 32.5                              | 5.2                           | 32.5                    | 32.5 | 32.5 | 25.1 | 17.7 | 10.3 |
|                        | 57      | 35.9                                 | 4.4                           | 35.9                    | 35.9 | 35.9 | 28.3 | 20.8 | 13.3 | 32.5                              | 5.0                           | 32.5                    | 32.5 | 32.5 | 25.1 | 17.7 | 10.3 |
| 2250                   | 72      | 47.7                                 | 4.7                           | 43.7                    | 35.4 | 27.0 | 18.7 | -    | -    | 42.7                              | 5.4                           | 39.8                    | 31.6 | 23.5 | 15.4 | -    | -    |
|                        | 67      | 40.5                                 | 4.7                           | 40.5                    | 40.5 | 37.0 | 28.7 | 20.3 | -    | 35.6                              | 5.4                           | 35.6                    | 35.6 | 33.4 | 25.3 | 17.2 | -    |
|                        | 62      | 36.7                                 | 4.6                           | 36.7                    | 36.7 | 36.7 | 28.3 | 20.0 | 11.7 | 33.2                              | 5.1                           | 33.2                    | 33.2 | 33.2 | 25.0 | 16.9 | 8.8  |
|                        | 57      | 36.5                                 | 4.3                           | 36.5                    | 36.5 | 36.5 | 28.2 | 19.9 | 11.5 | 33.1                              | 4.8                           | 33.1                    | 33.1 | 33.1 | 25.0 | 16.9 | 8.8  |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT078 (6.5 ton) third stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1625                   | 77      | 102.0                                | 4.4                           | 43.0                    | 35.4 | 28.8 | -    | -    | -    | 91.8                              | 5.1                           | 39.1                    | 32.8 | 26.5 | -    | -    | -    |
|                        | 72      | 89.7                                 | 4.3                           | 51.9                    | 45.3 | 38.8 | 32.3 | -    | -    | 81.9                              | 5.1                           | 48.7                    | 42.4 | 36.1 | 29.8 | -    | -    |
|                        | 67      | 77.4                                 | 4.2                           | 60.8                    | 55.3 | 48.8 | 42.2 | 35.7 | -    | 71.9                              | 5.0                           | 58.3                    | 52.0 | 45.8 | 39.5 | 33.2 | -    |
|                        | 62      | 70.7                                 | 4.2                           | 70.7                    | 70.7 | 62.1 | 55.6 | 49.1 | 42.5 | 63.8                              | 5.0                           | 63.8                    | 63.8 | 55.3 | 49.1 | 42.8 | 36.5 |
| 1950                   | 77      | 107.4                                | 4.4                           | 47.6                    | 39.7 | 31.9 | -    | -    | -    | 96.4                              | 5.0                           | 44.7                    | 37.0 | 29.4 | -    | -    | -    |
|                        | 72      | 94.5                                 | 4.3                           | 58.6                    | 50.8 | 42.9 | 35.1 | -    | -    | 85.9                              | 5.0                           | 55.4                    | 47.7 | 40.1 | 32.4 | -    | -    |
|                        | 67      | 81.5                                 | 4.2                           | 69.7                    | 61.8 | 54.0 | 46.1 | 38.2 | -    | 75.5                              | 4.9                           | 66.0                    | 58.4 | 50.7 | 43.1 | 35.4 | -    |
|                        | 62      | 74.5                                 | 4.2                           | 74.5                    | 74.5 | 68.8 | 60.9 | 53.1 | 45.2 | 67.0                              | 4.9                           | 67.0                    | 67.0 | 61.4 | 53.7 | 46.0 | 38.4 |
|                        | 57      | 70.9                                 | 4.2                           | 70.9                    | 70.9 | 65.5 | 57.6 | 49.8 | 41.9 | 65.1                              | 4.9                           | 65.1                    | 65.1 | 59.6 | 51.9 | 44.2 | 36.6 |
| 2275                   | 77      | 112.8                                | 4.4                           | 52.2                    | 44.1 | 35.0 | -    | -    | -    | 101.0                             | 5.0                           | 50.3                    | 41.3 | 32.3 | -    | -    | -    |
|                        | 72      | 99.2                                 | 4.3                           | 65.4                    | 56.2 | 47.0 | 37.9 | -    | -    | 90.0                              | 4.9                           | 62.1                    | 53.0 | 44.0 | 34.9 | -    | -    |
|                        | 67      | 85.7                                 | 4.2                           | 78.6                    | 68.3 | 59.1 | 50.0 | 40.8 | -    | 79.1                              | 4.9                           | 73.8                    | 64.7 | 55.7 | 46.7 | 37.6 | -    |
|                        | 62      | 78.2                                 | 4.2                           | 78.2                    | 78.2 | 75.4 | 66.2 | 57.0 | 47.9 | 70.2                              | 4.8                           | 70.2                    | 70.2 | 67.4 | 58.3 | 49.3 | 40.3 |
|                        | 57      | 74.5                                 | 4.2                           | 74.5                    | 74.5 | 71.8 | 62.6 | 53.4 | 44.3 | 68.2                              | 4.8                           | 68.2                    | 68.2 | 65.4 | 56.4 | 47.3 | 38.3 |
| 2600                   | 77      | 118.2                                | 4.4                           | 56.8                    | 48.5 | 38.0 | -    | -    | -    | 105.6                             | 4.9                           | 56.0                    | 45.5 | 35.1 | -    | -    | -    |
|                        | 72      | 104.0                                | 4.3                           | 72.1                    | 61.7 | 51.2 | 40.7 | -    | -    | 94.1                              | 4.8                           | 68.7                    | 58.3 | 47.9 | 37.5 | -    | -    |
|                        | 67      | 89.8                                 | 4.2                           | 87.5                    | 74.8 | 64.3 | 53.8 | 43.4 | -    | 82.7                              | 4.8                           | 81.5                    | 71.1 | 60.7 | 50.3 | 39.8 | -    |
|                        | 62      | 82.0                                 | 4.2                           | 82.0                    | 82.0 | 82.0 | 71.5 | 61.0 | 50.6 | 73.4                              | 4.8                           | 73.4                    | 73.4 | 73.4 | 63.0 | 52.6 | 42.1 |
|                        | 57      | 78.1                                 | 4.2                           | 78.1                    | 78.1 | 78.1 | 67.6 | 57.1 | 46.6 | 71.2                              | 4.7                           | 71.2                    | 71.2 | 71.2 | 60.8 | 50.4 | 40.0 |
| 2925                   | 72      | 106.4                                | 4.4                           | 78.3                    | 66.5 | 54.8 | 43.1 | -    | -    | 95.4                              | 4.8                           | 74.5                    | 62.9 | 51.4 | 39.8 | -    | -    |
|                        | 67      | 91.9                                 | 4.3                           | 90.7                    | 81.6 | 68.9 | 57.2 | 45.4 | -    | 83.8                              | 4.8                           | 83.2                    | 76.6 | 65.0 | 53.4 | 41.9 | -    |
|                        | 62      | 83.9                                 | 4.2                           | 83.9                    | 83.9 | 83.9 | 72.1 | 60.4 | 48.7 | 74.4                              | 4.8                           | 74.4                    | 74.4 | 74.4 | 62.8 | 51.2 | 39.6 |
|                        | 57      | 79.9                                 | 4.2                           | 79.9                    | 79.9 | 79.9 | 68.1 | 56.4 | 44.7 | 72.2                              | 4.7                           | 72.2                    | 72.2 | 72.2 | 60.6 | 49.0 | 37.4 |
| 3250                   | 72      | 108.7                                | 4.4                           | 84.4                    | 71.4 | 58.5 | 45.5 | -    | -    | 96.7                              | 4.9                           | 80.4                    | 67.6 | 54.8 | 42.0 | -    | -    |
|                        | 67      | 93.9                                 | 4.3                           | 93.9                    | 88.4 | 73.5 | 60.5 | 47.5 | -    | 85.0                              | 4.8                           | 85.0                    | 82.2 | 69.4 | 56.6 | 43.9 | -    |
|                        | 62      | 85.7                                 | 4.3                           | 85.7                    | 85.7 | 85.7 | 72.7 | 59.8 | 46.8 | 75.4                              | 4.8                           | 75.4                    | 75.4 | 75.4 | 62.7 | 49.9 | 37.1 |
|                        | 57      | 81.7                                 | 4.3                           | 81.7                    | 81.7 | 81.7 | 68.7 | 55.7 | 42.8 | 73.2                              | 4.7                           | 73.2                    | 73.2 | 73.2 | 60.5 | 47.7 | 34.9 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |      |
| 1625                   | 77      | 81.7                                 | 5.8                           | 35.1                    | 30.2 | 24.2 | -    | -    | -    | 76.8                              | 6.3                           | 30.8                    | 27.1 | 21.0 | -    | -    | -    |
|                        | 72      | 74.1                                 | 5.8                           | 45.5                    | 39.5 | 33.5 | 27.4 | -    | -    | 69.3                              | 6.3                           | 43.0                    | 36.8 | 30.7 | 24.6 | -    | -    |
|                        | 67      | 66.4                                 | 5.8                           | 55.9                    | 48.8 | 42.7 | 36.7 | 30.7 | -    | 61.8                              | 6.2                           | 55.1                    | 46.5 | 40.4 | 34.2 | 28.1 | -    |
|                        | 62      | 57.0                                 | 5.8                           | 57.0                    | 57.0 | 48.6 | 42.5 | 36.5 | 30.5 | 54.5                              | 6.2                           | 54.5                    | 54.5 | 45.9 | 39.8 | 33.6 | 27.5 |
| 1950                   | 77      | 85.4                                 | 5.7                           | 41.8                    | 34.3 | 26.9 | -    | -    | -    | 80.0                              | 6.2                           | 38.4                    | 30.9 | 23.4 | -    | -    | -    |
|                        | 72      | 77.4                                 | 5.7                           | 52.1                    | 44.6 | 37.2 | 29.7 | -    | -    | 72.2                              | 6.2                           | 49.2                    | 41.7 | 34.1 | 26.6 | -    | -    |
|                        | 67      | 69.5                                 | 5.7                           | 62.4                    | 55.0 | 47.5 | 40.0 | 32.6 | -    | 64.4                              | 6.1                           | 60.0                    | 52.4 | 44.9 | 37.4 | 29.9 | -    |
|                        | 62      | 59.6                                 | 5.7                           | 59.6                    | 59.6 | 54.0 | 46.5 | 39.0 | 31.6 | 56.8                              | 6.1                           | 56.8                    | 56.8 | 51.0 | 43.5 | 36.0 | 28.5 |
|                        | 57      | 59.2                                 | 5.5                           | 59.2                    | 59.2 | 53.7 | 46.2 | 38.7 | 31.3 | 55.6                              | 6.1                           | 55.6                    | 55.6 | 50.0 | 42.5 | 35.0 | 27.5 |
| 2275                   | 77      | 89.2                                 | 5.5                           | 48.5                    | 38.5 | 29.6 | -    | -    | -    | 83.3                              | 6.1                           | 46.0                    | 34.7 | 25.7 | -    | -    | -    |
|                        | 72      | 80.8                                 | 5.5                           | 58.7                    | 49.8 | 40.9 | 32.0 | -    | -    | 75.2                              | 6.1                           | 55.4                    | 46.5 | 37.6 | 28.7 | -    | -    |
|                        | 67      | 72.5                                 | 5.5                           | 69.0                    | 61.2 | 52.3 | 43.4 | 34.4 | -    | 67.1                              | 6.0                           | 64.8                    | 58.4 | 49.5 | 40.5 | 31.6 | -    |
|                        | 62      | 62.2                                 | 5.5                           | 62.2                    | 62.2 | 59.4 | 50.5 | 41.5 | 32.6 | 59.1                              | 6.0                           | 59.1                    | 59.1 | 56.2 | 47.3 | 38.4 | 29.4 |
|                        | 57      | 61.8                                 | 5.4                           | 61.8                    | 61.8 | 59.0 | 50.1 | 41.2 | 32.3 | 57.9                              | 6.0                           | 57.9                    | 57.9 | 55.1 | 46.2 | 37.3 | 28.3 |
| 2600                   | 77      | 92.9                                 | 5.3                           | 55.1                    | 42.6 | 32.2 | -    | -    | -    | 86.5                              | 6.0                           | 53.7                    | 38.4 | 28.1 | -    | -    | -    |
|                        | 72      | 84.2                                 | 5.3                           | 65.3                    | 55.0 | 44.6 | 34.3 | -    | -    | 78.1                              | 6.0                           | 61.7                    | 51.4 | 41.0 | 30.7 | -    | -    |
|                        | 67      | 75.5                                 | 5.3                           | 75.5                    | 67.4 | 57.0 | 46.7 | 36.3 | -    | 69.7                              | 5.9                           | 69.7                    | 64.3 | 54.0 | 43.7 | 33.4 | -    |
|                        | 62      | 64.8                                 | 5.3                           | 64.8                    | 64.8 | 64.8 | 54.4 | 44.1 | 33.7 | 61.4                              | 5.9                           | 61.4                    | 61.4 | 61.4 | 51.0 | 40.7 | 30.4 |
|                        | 57      | 64.4                                 | 5.2                           | 64.4                    | 64.4 | 64.4 | 54.0 | 43.7 | 33.3 | 60.2                              | 5.9                           | 60.2                    | 60.2 | 60.2 | 49.8 | 39.5 | 29.2 |
| 2925                   | 72      | 84.5                                 | 5.3                           | 70.8                    | 59.4 | 47.9 | 36.4 | -    | -    | 78.1                              | 6.0                           | 66.8                    | 55.4 | 44.0 | 32.6 | -    | -    |
|                        | 67      | 75.8                                 | 5.3                           | 75.8                    | 71.7 | 61.2 | 49.7 | 38.3 | -    | 69.7                              | 5.9                           | 69.7                    | 67.0 | 57.8 | 46.5 | 35.1 | -    |
|                        | 62      | 65.0                                 | 5.3                           | 65.0                    | 65.0 | 65.0 | 53.5 | 42.0 | 30.6 | 61.3                              | 5.9                           | 61.3                    | 61.3 | 61.3 | 49.9 | 38.6 | 27.2 |
|                        | 57      | 64.6                                 | 5.2                           | 64.6                    | 64.6 | 64.6 | 53.1 | 41.7 | 30.2 | 60.1                              | 5.9                           | 60.1                    | 60.1 | 60.1 | 48.7 | 37.4 | 26.0 |
| 3250                   | 72      | 84.7                                 | 5.3                           | 76.3                    | 63.7 | 51.2 | 38.6 | -    | -    | 78.1                              | 5.9                           | 71.9                    | 59.4 | 46.9 | 34.4 | -    | -    |
|                        | 67      | 76.0                                 | 5.3                           | 76.0                    | 76.0 | 65.4 | 52.8 | 40.2 | -    | 69.7                              | 5.9                           | 69.7                    | 69.7 | 61.7 | 49.2 | 36.8 | -    |
|                        | 62      | 65.2                                 | 5.3                           | 65.2                    | 65.2 | 65.2 | 52.6 | 40.0 | 27.4 | 61.3                              | 5.9                           | 61.3                    | 61.3 | 61.3 | 48.9 | 36.4 | 23.9 |
|                        | 57      | 64.8                                 | 5.2                           | 64.8                    | 64.8 | 64.8 | 52.2 | 39.6 | 27.0 | 60.1                              | 5.8                           | 60.1                    | 60.1 | 60.1 | 47.7 | 35.2 | 22.7 |

## ZT078 (6.5 ton) third stage cooling (continued)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      | 125°F                             |                               |                         |      |      |      |      |      |
| 1625                   | 77      | 71.9                                 | 6.8                           | 26.5                    | 24.1 | 17.9 | -    | -    | -    | 67.0                              | 7.3                           | 23.1                    | 21.0 | 14.7 | -    | -    | -    |
|                        | 72      | 64.6                                 | 6.7                           | 40.4                    | 34.2 | 27.9 | 21.7 | -    | -    | 59.8                              | 7.1                           | 37.8                    | 31.5 | 25.2 | 18.8 | -    | -    |
|                        | 67      | 57.2                                 | 6.6                           | 54.3                    | 44.2 | 38.0 | 31.8 | 25.5 | -    | 52.6                              | 6.9                           | 52.6                    | 42.0 | 35.6 | 29.3 | 23.0 | -    |
|                        | 62      | 51.9                                 | 6.6                           | 51.9                    | 51.9 | 43.2 | 37.0 | 30.8 | 24.5 | 49.4                              | 6.9                           | 49.4                    | 49.4 | 40.6 | 34.2 | 27.9 | 21.5 |
| 1950                   | 77      | 74.6                                 | 6.8                           | 35.1                    | 27.5 | 19.9 | -    | -    | -    | 69.2                              | 7.4                           | 32.3                    | 24.0 | 16.4 | -    | -    | -    |
|                        | 72      | 67.0                                 | 6.7                           | 46.3                    | 38.7 | 31.1 | 23.5 | -    | -    | 61.8                              | 7.2                           | 43.3                    | 35.7 | 28.1 | 20.4 | -    | -    |
|                        | 67      | 59.4                                 | 6.6                           | 57.5                    | 49.9 | 42.3 | 34.7 | 27.2 | -    | 54.4                              | 7.0                           | 54.4                    | 47.4 | 39.7 | 32.1 | 24.4 | -    |
|                        | 62      | 53.9                                 | 6.6                           | 53.9                    | 53.9 | 48.1 | 40.6 | 33.0 | 25.4 | 51.1                              | 7.0                           | 51.1                    | 51.1 | 45.2 | 37.6 | 29.9 | 22.3 |
|                        | 57      | 52.0                                 | 6.6                           | 52.0                    | 52.0 | 46.4 | 38.9 | 31.3 | 23.7 | 48.5                              | 7.1                           | 48.5                    | 48.5 | 42.8 | 35.2 | 27.5 | 19.9 |
| 2275                   | 77      | 77.4                                 | 6.8                           | 43.6                    | 30.8 | 21.9 | -    | -    | -    | 71.5                              | 7.4                           | 41.5                    | 27.1 | 18.1 | -    | -    | -    |
|                        | 72      | 69.5                                 | 6.7                           | 52.1                    | 43.2 | 34.3 | 25.3 | -    | -    | 63.9                              | 7.2                           | 48.9                    | 39.9 | 31.0 | 22.0 | -    | -    |
|                        | 67      | 61.6                                 | 6.5                           | 60.7                    | 55.6 | 46.6 | 37.7 | 28.8 | -    | 56.2                              | 7.1                           | 56.2                    | 52.8 | 43.8 | 34.9 | 25.9 | -    |
|                        | 62      | 56.0                                 | 6.5                           | 56.0                    | 56.0 | 53.0 | 44.1 | 35.2 | 26.2 | 52.8                              | 7.1                           | 52.8                    | 52.8 | 49.9 | 40.9 | 32.0 | 23.0 |
|                        | 57      | 54.0                                 | 6.5                           | 54.0                    | 54.0 | 51.2 | 42.2 | 33.3 | 24.4 | 50.1                              | 7.1                           | 50.1                    | 50.1 | 47.2 | 38.3 | 29.4 | 20.4 |
| 2600                   | 77      | 80.2                                 | 6.8                           | 52.2                    | 34.2 | 23.9 | -    | -    | -    | 73.8                              | 7.5                           | 50.7                    | 30.2 | 19.8 | -    | -    | -    |
|                        | 72      | 72.0                                 | 6.6                           | 58.0                    | 47.7 | 37.4 | 27.2 | -    | -    | 65.9                              | 7.3                           | 54.4                    | 44.1 | 33.9 | 23.6 | -    | -    |
|                        | 67      | 63.9                                 | 6.5                           | 63.9                    | 61.2 | 51.0 | 40.7 | 30.4 | -    | 58.0                              | 7.1                           | 58.0                    | 58.0 | 47.9 | 37.7 | 27.4 | -    |
|                        | 62      | 58.0                                 | 6.5                           | 58.0                    | 58.0 | 58.0 | 47.7 | 37.4 | 27.1 | 54.5                              | 7.1                           | 54.5                    | 54.5 | 54.5 | 44.3 | 34.0 | 23.8 |
|                        | 57      | 55.9                                 | 6.5                           | 55.9                    | 55.9 | 55.9 | 45.6 | 35.3 | 25.1 | 51.7                              | 7.2                           | 51.7                    | 51.7 | 51.7 | 41.4 | 31.2 | 20.9 |
| 2925                   | 72      | 71.7                                 | 6.6                           | 62.7                    | 51.4 | 40.1 | 28.7 | -    | -    | 65.3                              | 7.3                           | 58.6                    | 47.4 | 36.1 | 24.9 | -    | -    |
|                        | 67      | 63.6                                 | 6.5                           | 63.6                    | 62.3 | 54.5 | 43.2 | 31.9 | -    | 57.5                              | 7.1                           | 57.5                    | 57.5 | 51.2 | 39.9 | 28.7 | -    |
|                        | 62      | 57.7                                 | 6.5                           | 57.7                    | 57.7 | 57.7 | 46.4 | 35.1 | 23.8 | 54.1                              | 7.1                           | 54.1                    | 54.1 | 54.1 | 42.8 | 31.6 | 20.4 |
|                        | 57      | 55.7                                 | 6.5                           | 55.7                    | 55.7 | 55.7 | 44.4 | 33.0 | 21.7 | 51.2                              | 7.2                           | 51.2                    | 51.2 | 51.2 | 40.0 | 28.7 | 17.5 |
| 3250                   | 72      | 71.4                                 | 6.6                           | 67.4                    | 55.0 | 42.7 | 30.3 | -    | -    | 64.7                              | 7.2                           | 62.9                    | 50.7 | 38.4 | 26.2 | -    | -    |
|                        | 67      | 63.3                                 | 6.5                           | 63.3                    | 63.3 | 58.1 | 45.7 | 33.4 | -    | 57.0                              | 7.1                           | 57.0                    | 57.0 | 54.4 | 42.2 | 29.9 | -    |
|                        | 62      | 57.5                                 | 6.5                           | 57.5                    | 57.5 | 57.5 | 45.1 | 32.8 | 20.4 | 53.6                              | 7.1                           | 53.6                    | 53.6 | 53.6 | 41.4 | 29.1 | 16.9 |
|                        | 57      | 55.4                                 | 6.5                           | 55.4                    | 55.4 | 55.4 | 43.1 | 30.7 | 18.4 | 50.8                              | 7.1                           | 50.8                    | 50.8 | 50.8 | 38.5 | 26.3 | 14.1 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT090 (7.5 ton) first stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |     |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|-----|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |     |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |     |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65  |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |     |
| 875                    | 77      | 38.3                                 | 1.1                           | 18.7                    | 12.0 | 11.8 | -    | -    | -    | 33.7                              | 1.4                           | 21.7                    | 13.0 | 10.9 | -    | -    | -   |
|                        | 72      | 33.7                                 | 1.2                           | 23.9                    | 20.4 | 16.3 | 12.3 | -    | -    | 30.0                              | 1.4                           | 24.0                    | 19.6 | 15.5 | 11.4 | -    | -   |
|                        | 67      | 29.1                                 | 1.3                           | 29.1                    | 28.8 | 20.9 | 16.8 | 12.8 | -    | 26.3                              | 1.5                           | 26.3                    | 26.2 | 20.1 | 16.0 | 11.8 | -   |
|                        | 62      | 26.5                                 | 1.3                           | 26.5                    | 26.5 | 21.3 | 17.2 | 13.2 | 9.1  | 24.3                              | 1.5                           | 24.3                    | 24.3 | 20.2 | 16.1 | 12.0 | 7.9 |
| 1050                   | 77      | 39.3                                 | 1.1                           | 26.2                    | 16.6 | 13.2 | -    | -    | -    | 34.7                              | 1.4                           | 26.6                    | 16.9 | 12.0 | -    | -    | -   |
|                        | 72      | 34.5                                 | 1.2                           | 28.0                    | 23.1 | 18.2 | 13.3 | -    | -    | 30.9                              | 1.4                           | 26.9                    | 22.0 | 17.1 | 12.2 | -    | -   |
|                        | 67      | 29.8                                 | 1.3                           | 29.8                    | 29.6 | 23.3 | 18.3 | 13.4 | -    | 27.1                              | 1.5                           | 27.1                    | 27.0 | 22.1 | 17.2 | 12.3 | -   |
|                        | 62      | 27.1                                 | 1.3                           | 27.1                    | 27.1 | 23.7 | 18.8 | 13.9 | 9.0  | 25.0                              | 1.5                           | 25.0                    | 25.0 | 22.3 | 17.4 | 12.5 | 7.6 |
|                        | 57      | 28.7                                 | 1.3                           | 28.7                    | 28.7 | 25.0 | 20.1 | 15.2 | 10.3 | 26.0                              | 1.5                           | 26.0                    | 26.0 | 23.1 | 18.2 | 13.3 | 8.4 |
| 1225                   | 77      | 40.3                                 | 1.1                           | 33.8                    | 21.2 | 14.5 | -    | -    | -    | 35.6                              | 1.4                           | 31.6                    | 20.9 | 13.2 | -    | -    | -   |
|                        | 72      | 35.4                                 | 1.2                           | 32.2                    | 25.9 | 20.1 | 14.3 | -    | -    | 31.7                              | 1.4                           | 29.7                    | 24.3 | 18.7 | 13.0 | -    | -   |
|                        | 67      | 30.6                                 | 1.2                           | 30.6                    | 30.5 | 25.6 | 19.9 | 14.1 | -    | 27.8                              | 1.5                           | 27.8                    | 27.8 | 24.2 | 18.5 | 12.8 | -   |
|                        | 62      | 27.8                                 | 1.3                           | 27.8                    | 27.8 | 26.1 | 20.3 | 14.5 | 8.8  | 25.7                              | 1.5                           | 25.7                    | 25.7 | 24.3 | 18.6 | 12.9 | 7.2 |
|                        | 57      | 29.4                                 | 1.3                           | 29.4                    | 29.4 | 27.6 | 21.8 | 16.0 | 10.2 | 26.7                              | 1.5                           | 26.7                    | 26.7 | 25.3 | 19.6 | 13.9 | 8.2 |
| 1400                   | 77      | 41.3                                 | 1.1                           | 41.3                    | 25.8 | 15.9 | -    | -    | -    | 36.6                              | 1.4                           | 36.6                    | 24.9 | 14.3 | -    | -    | -   |
|                        | 72      | 36.3                                 | 1.2                           | 36.3                    | 28.6 | 21.9 | 15.3 | -    | -    | 32.6                              | 1.4                           | 32.6                    | 26.7 | 20.2 | 13.7 | -    | -   |
|                        | 67      | 31.3                                 | 1.2                           | 31.3                    | 31.3 | 28.0 | 21.4 | 14.7 | -    | 28.6                              | 1.5                           | 28.6                    | 28.6 | 26.2 | 19.7 | 13.2 | -   |
|                        | 62      | 28.5                                 | 1.3                           | 28.5                    | 28.5 | 28.5 | 21.9 | 15.2 | 8.6  | 26.4                              | 1.5                           | 26.4                    | 26.4 | 26.4 | 19.9 | 13.4 | 6.9 |
|                        | 57      | 30.1                                 | 1.3                           | 30.1                    | 30.1 | 30.1 | 23.5 | 16.8 | 10.2 | 27.4                              | 1.5                           | 27.4                    | 27.4 | 27.4 | 20.9 | 14.4 | 7.9 |
| 1575                   | 72      | 38.0                                 | 1.2                           | 38.0                    | 30.8 | 23.3 | 15.8 | -    | -    | 33.8                              | 1.4                           | 33.8                    | 28.8 | 21.4 | 14.1 | -    | -   |
|                        | 67      | 32.8                                 | 1.2                           | 32.8                    | 32.8 | 29.8 | 22.3 | 14.8 | -    | 29.7                              | 1.5                           | 29.7                    | 29.7 | 27.8 | 20.4 | 13.1 | -   |
|                        | 62      | 29.9                                 | 1.2                           | 29.9                    | 29.9 | 29.9 | 22.4 | 14.9 | 7.4  | 27.4                              | 1.5                           | 27.4                    | 27.4 | 27.4 | 20.0 | 12.7 | 5.3 |
|                        | 57      | 31.5                                 | 1.2                           | 31.5                    | 31.5 | 31.5 | 24.1 | 16.6 | 9.1  | 28.4                              | 1.5                           | 28.4                    | 28.4 | 28.4 | 21.1 | 13.7 | 6.4 |
| 1750                   | 72      | 39.7                                 | 1.1                           | 39.7                    | 33.0 | 24.6 | 16.3 | -    | -    | 35.1                              | 1.4                           | 35.1                    | 30.8 | 22.6 | 14.4 | -    | -   |
|                        | 67      | 34.3                                 | 1.2                           | 34.3                    | 34.3 | 31.5 | 23.2 | 14.8 | -    | 30.7                              | 1.4                           | 30.7                    | 30.7 | 29.3 | 21.1 | 12.9 | -   |
|                        | 62      | 31.3                                 | 1.2                           | 31.3                    | 31.3 | 31.3 | 22.9 | 14.6 | 6.3  | 28.4                              | 1.5                           | 28.4                    | 28.4 | 28.4 | 20.2 | 12.0 | 3.8 |
|                        | 57      | 33.0                                 | 1.2                           | 33.0                    | 33.0 | 33.0 | 24.7 | 16.3 | 8.0  | 29.5                              | 1.4                           | 29.5                    | 29.5 | 29.5 | 21.3 | 13.1 | 4.9 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |     |
| 875                    | 77      | 29.2                                 | 1.7                           | 24.6                    | 13.9 | 10.0 | -    | -    | -    | 24.8                              | 1.9                           | 22.5                    | 15.8 | 9.8  | -    | -    | -   |
|                        | 72      | 26.4                                 | 1.7                           | 24.1                    | 18.8 | 14.6 | 10.5 | -    | -    | 22.3                              | 2.0                           | 21.1                    | 17.8 | 13.7 | 9.6  | -    | -   |
|                        | 67      | 23.6                                 | 1.7                           | 23.6                    | 23.6 | 19.2 | 15.1 | 10.9 | -    | 19.8                              | 2.0                           | 19.8                    | 19.8 | 17.6 | 13.4 | 9.3  | -   |
|                        | 62      | 22.2                                 | 1.7                           | 22.2                    | 22.2 | 19.1 | 15.0 | 10.8 | 6.6  | 18.3                              | 2.0                           | 18.3                    | 18.3 | 16.7 | 12.6 | 8.5  | -   |
| 1050                   | 77      | 30.1                                 | 1.7                           | 27.0                    | 17.3 | 10.9 | -    | -    | -    | 26.0                              | 1.9                           | 24.5                    | 18.5 | 10.6 | -    | -    | -   |
|                        | 72      | 27.2                                 | 1.7                           | 25.7                    | 20.8 | 15.9 | 11.0 | -    | -    | 23.4                              | 2.0                           | 22.6                    | 19.6 | 14.8 | 10.0 | -    | -   |
|                        | 67      | 24.4                                 | 1.7                           | 24.4                    | 24.4 | 20.9 | 16.1 | 11.2 | -    | 20.7                              | 2.0                           | 20.7                    | 20.7 | 19.0 | 14.2 | 9.4  | -   |
|                        | 62      | 22.9                                 | 1.7                           | 22.9                    | 22.9 | 20.8 | 15.9 | 11.1 | 6.2  | 19.2                              | 2.0                           | 19.2                    | 19.2 | 18.1 | 13.3 | 8.5  | -   |
|                        | 57      | 23.3                                 | 1.7                           | 23.3                    | 23.3 | 21.2 | 16.3 | 11.4 | 6.5  | 19.9                              | 2.0                           | 19.9                    | 19.9 | 18.9 | 14.1 | 9.3  | -   |
| 1225                   | 77      | 31.0                                 | 1.6                           | 29.5                    | 20.6 | 11.8 | -    | -    | -    | 27.2                              | 1.9                           | 26.5                    | 21.2 | 11.4 | -    | -    | -   |
|                        | 72      | 28.0                                 | 1.7                           | 27.3                    | 22.8 | 17.2 | 11.6 | -    | -    | 24.5                              | 2.0                           | 24.1                    | 21.5 | 15.9 | 10.4 | -    | -   |
|                        | 67      | 25.1                                 | 1.7                           | 25.1                    | 25.1 | 22.7 | 17.0 | 11.4 | -    | 21.7                              | 2.0                           | 21.7                    | 21.7 | 20.5 | 15.0 | 9.5  | -   |
|                        | 62      | 23.6                                 | 1.7                           | 23.6                    | 23.6 | 22.5 | 16.9 | 11.3 | 5.7  | 20.0                              | 2.0                           | 20.0                    | 20.0 | 19.5 | 14.0 | 8.5  | -   |
|                        | 57      | 24.0                                 | 1.7                           | 24.0                    | 24.0 | 22.9 | 17.3 | 11.7 | 6.1  | 20.9                              | 2.0                           | 20.9                    | 20.9 | 20.3 | 14.8 | 9.3  | -   |
| 1400                   | 77      | 31.9                                 | 1.6                           | 31.9                    | 23.9 | 12.7 | -    | -    | -    | 28.5                              | 1.9                           | 28.5                    | 23.9 | 12.2 | -    | -    | -   |
|                        | 72      | 28.9                                 | 1.7                           | 28.9                    | 24.9 | 18.5 | 12.2 | -    | -    | 25.6                              | 2.0                           | 25.6                    | 23.3 | 17.1 | 10.9 | -    | -   |
|                        | 67      | 25.8                                 | 1.7                           | 25.8                    | 25.8 | 24.4 | 18.0 | 11.7 | -    | 22.7                              | 2.0                           | 22.7                    | 22.7 | 21.9 | 15.7 | 9.5  | -   |
|                        | 62      | 24.2                                 | 1.7                           | 24.2                    | 24.2 | 24.2 | 17.9 | 11.5 | 5.2  | 20.9                              | 2.0                           | 20.9                    | 20.9 | 20.9 | 14.7 | 8.5  | -   |
|                        | 57      | 24.7                                 | 1.7                           | 24.7                    | 24.7 | 24.7 | 18.3 | 12.0 | 5.6  | 21.8                              | 2.0                           | 21.8                    | 21.8 | 21.8 | 15.6 | 9.4  | -   |
| 1575                   | 72      | 29.6                                 | 1.7                           | 29.6                    | 26.8 | 19.6 | 12.4 | -    | -    | 25.8                              | 1.9                           | 25.8                    | 24.3 | 17.5 | 10.4 | -    | -   |
|                        | 67      | 26.5                                 | 1.7                           | 26.5                    | 26.5 | 25.8 | 18.6 | 11.3 | -    | 22.9                              | 2.0                           | 22.9                    | 22.9 | 22.5 | 15.4 | 8.3  | -   |
|                        | 62      | 24.9                                 | 1.7                           | 24.9                    | 24.9 | 24.9 | 17.7 | 10.4 | 3.2  | 21.1                              | 2.0                           | 21.1                    | 21.1 | 21.1 | 14.0 | 6.9  | -   |
|                        | 57      | 25.3                                 | 1.7                           | 25.3                    | 25.3 | 25.3 | 18.1 | 10.9 | 3.7  | 22.0                              | 2.0                           | 22.0                    | 22.0 | 22.0 | 14.9 | 7.8  | -   |
| 1750                   | 72      | 30.4                                 | 1.7                           | 30.4                    | 28.7 | 20.6 | 12.6 | -    | -    | 26.1                              | 1.9                           | 26.1                    | 25.3 | 18.0 | 9.9  | -    | -   |
|                        | 67      | 27.2                                 | 1.7                           | 27.2                    | 27.2 | 27.2 | 19.1 | 11.0 | -    | 23.1                              | 2.0                           | 23.1                    | 23.1 | 23.1 | 15.1 | 7.1  | -   |
|                        | 62      | 25.5                                 | 1.7                           | 25.5                    | 25.5 | 25.5 | 17.4 | 9.3  | 1.2  | 21.4                              | 2.0                           | 21.4                    | 21.4 | 21.4 | 13.3 | 5.3  | -   |
|                        | 57      | 26.0                                 | 1.7                           | 26.0                    | 26.0 | 26.0 | 17.9 | 9.8  | 1.7  | 22.2                              | 1.9                           | 22.2                    | 22.2 | 22.2 | 14.2 | 6.2  | -   |

**ZT090 (7.5 ton) first stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |     |    |                                   |                               |                         |      |      |      |     |    |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|-----|----|-----------------------------------|-------------------------------|-------------------------|------|------|------|-----|----|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |     |    | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |     |    |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |     |    |                                   |                               | Return dry bulb (°F)    |      |      |      |     |    |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70  | 65 |                                   |                               | 90                      | 85   | 80   | 75   | 70  | 65 |
|                        |         | 115°F                                |                               |                         |      |      |      |     |    |                                   |                               | 125°F                   |      |      |      |     |    |
| 875                    | 77      | 20.4                                 | 2.2                           | 20.4                    | 17.7 | 9.5  | -    | -   | -  | 16.0                              | 2.4                           | 16.0                    | 16.0 | 11.5 | -    | -   | -  |
|                        | 72      | 18.1                                 | 2.2                           | 18.1                    | 16.8 | 12.7 | 8.6  | -   | -  | 14.0                              | 2.5                           | 14.0                    | 14.0 | 11.8 | 7.7  | -   | -  |
|                        | 67      | 15.9                                 | 2.3                           | 15.9                    | 15.9 | 15.9 | 11.8 | 7.7 | -  | 12.0                              | 2.5                           | 12.0                    | 12.0 | 12.0 | 10.2 | 6.2 | -  |
|                        | 62      | 14.3                                 | 2.2                           | 14.3                    | 14.3 | 14.3 | 10.3 | 6.2 | -  | 10.4                              | 2.5                           | 10.4                    | 10.4 | 10.4 | 7.9  | 3.9 | -  |
| 1050                   | 77      | 21.9                                 | 2.2                           | 21.9                    | 19.8 | 10.3 | -    | -   | -  | 17.9                              | 2.4                           | 17.9                    | 17.9 | 11.6 | -    | -   | -  |
|                        | 72      | 19.5                                 | 2.2                           | 19.5                    | 18.4 | 13.7 | 8.9  | -   | -  | 15.7                              | 2.5                           | 15.7                    | 15.7 | 12.6 | 7.9  | -   | -  |
|                        | 67      | 17.1                                 | 2.3                           | 17.1                    | 17.1 | 17.1 | 12.4 | 7.6 | -  | 13.5                              | 2.6                           | 13.5                    | 13.5 | 13.5 | 10.5 | 5.8 | -  |
|                        | 62      | 15.4                                 | 2.2                           | 15.4                    | 15.4 | 15.4 | 10.7 | 5.9 | -  | 11.7                              | 2.5                           | 11.7                    | 11.7 | 11.7 | 8.1  | 3.4 | -  |
|                        | 57      | 16.6                                 | 2.2                           | 16.6                    | 16.6 | 16.6 | 11.8 | 7.1 | -  | 13.2                              | 2.5                           | 13.2                    | 13.2 | 13.2 | 9.6  | 4.9 | -  |
| 1225                   | 77      | 23.5                                 | 2.2                           | 23.5                    | 21.8 | 11.0 | -    | -   | -  | 19.7                              | 2.5                           | 19.7                    | 19.7 | 11.8 | -    | -   | -  |
|                        | 72      | 20.9                                 | 2.2                           | 20.9                    | 20.1 | 14.7 | 9.2  | -   | -  | 17.3                              | 2.5                           | 17.3                    | 17.3 | 13.4 | 8.1  | -   | -  |
|                        | 67      | 18.3                                 | 2.3                           | 18.3                    | 18.3 | 18.3 | 12.9 | 7.5 | -  | 14.9                              | 2.6                           | 14.9                    | 14.9 | 14.9 | 10.8 | 5.5 | -  |
|                        | 62      | 16.5                                 | 2.2                           | 16.5                    | 16.5 | 16.5 | 11.1 | 5.7 | -  | 13.0                              | 2.5                           | 13.0                    | 13.0 | 13.0 | 8.2  | 2.9 | -  |
|                        | 57      | 17.7                                 | 2.2                           | 17.7                    | 17.7 | 17.7 | 12.3 | 6.9 | -  | 14.6                              | 2.5                           | 14.6                    | 14.6 | 14.6 | 9.8  | 4.5 | -  |
| 1400                   | 77      | 25.0                                 | 2.2                           | 25.0                    | 23.9 | 11.7 | -    | -   | -  | 21.6                              | 2.5                           | 21.6                    | 21.6 | 11.9 | -    | -   | -  |
|                        | 72      | 22.3                                 | 2.3                           | 22.3                    | 21.7 | 15.6 | 9.5  | -   | -  | 19.0                              | 2.6                           | 19.0                    | 19.0 | 14.2 | 8.2  | -   | -  |
|                        | 67      | 19.5                                 | 2.3                           | 19.5                    | 19.5 | 19.5 | 13.4 | 7.4 | -  | 16.4                              | 2.6                           | 16.4                    | 16.4 | 16.4 | 11.1 | 5.2 | -  |
|                        | 62      | 17.6                                 | 2.3                           | 17.6                    | 17.6 | 17.6 | 11.5 | 5.5 | -  | 14.3                              | 2.5                           | 14.3                    | 14.3 | 14.3 | 8.4  | 2.4 | -  |
|                        | 57      | 18.9                                 | 2.3                           | 18.9                    | 18.9 | 18.9 | 12.8 | 6.8 | -  | 16.0                              | 2.5                           | 16.0                    | 16.0 | 16.0 | 10.1 | 4.1 | -  |
| 1575                   | 72      | 22.0                                 | 2.2                           | 22.0                    | 21.8 | 15.5 | 8.4  | -   | -  | 18.3                              | 2.5                           | 18.3                    | 18.3 | 13.4 | 6.4  | -   | -  |
|                        | 67      | 19.3                                 | 2.3                           | 19.3                    | 19.3 | 19.3 | 12.3 | 5.2 | -  | 15.7                              | 2.6                           | 15.7                    | 15.7 | 15.7 | 9.1  | -   | -  |
|                        | 62      | 17.4                                 | 2.2                           | 17.4                    | 17.4 | 17.4 | 10.4 | 3.3 | -  | 13.7                              | 2.5                           | 13.7                    | 13.7 | 13.7 | 6.8  | -   | -  |
|                        | 57      | 18.7                                 | 2.2                           | 18.7                    | 18.7 | 18.7 | 11.7 | 4.6 | -  | 15.4                              | 2.5                           | 15.4                    | 15.4 | 15.4 | 8.5  | -   | -  |
| 1750                   | 72      | 21.8                                 | 2.2                           | 21.8                    | 21.8 | 15.3 | 7.3  | -   | -  | 17.5                              | 2.5                           | 17.5                    | 17.5 | 12.6 | 4.7  | -   | -  |
|                        | 67      | 19.1                                 | 2.2                           | 19.1                    | 19.1 | 19.1 | 11.1 | 3.1 | -  | 15.1                              | 2.5                           | 15.1                    | 15.1 | 15.1 | 7.1  | -   | -  |
|                        | 62      | 17.2                                 | 2.2                           | 17.2                    | 17.2 | 17.2 | 9.2  | 1.2 | -  | 13.1                              | 2.4                           | 13.1                    | 13.1 | 13.1 | 5.2  | -   | -  |
|                        | 57      | 18.5                                 | 2.2                           | 18.5                    | 18.5 | 18.5 | 10.5 | 2.5 | -  | 14.8                              | 2.4                           | 14.8                    | 14.8 | 14.8 | 6.9  | -   | -  |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**ZT090 (7.5 ton) second stage cooling**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 1250                   | 77      | 80.9                                 | 2.6                           | 38.3                    | 31.3 | 25.3 | -    | -    | -    | 76.0                              | 3.2                           | 34.4                    | 28.9 | 23.0 | -    | -    | -    |
|                        | 72      | 72.8                                 | 2.6                           | 45.0                    | 39.0 | 33.0 | 27.1 | -    | -    | 68.3                              | 3.2                           | 42.5                    | 36.6 | 30.7 | 24.8 | -    | -    |
|                        | 67      | 64.8                                 | 2.7                           | 51.6                    | 46.7 | 40.7 | 34.8 | 28.8 | -    | 60.7                              | 3.2                           | 50.6                    | 44.3 | 38.4 | 32.5 | 26.6 | -    |
|                        | 62      | 56.0                                 | 2.7                           | 56.0                    | 56.0 | 49.7 | 43.7 | 37.7 | 31.8 | 53.6                              | 3.3                           | 53.6                    | 53.6 | 46.4 | 40.5 | 34.6 | 28.7 |
| 1500                   | 77      | 83.9                                 | 2.6                           | 41.7                    | 34.6 | 27.5 | -    | -    | -    | 78.4                              | 3.1                           | 39.2                    | 32.1 | 25.1 | -    | -    | -    |
|                        | 72      | 75.6                                 | 2.6                           | 50.1                    | 43.0 | 35.8 | 28.7 | -    | -    | 70.5                              | 3.2                           | 47.5                    | 40.5 | 33.5 | 26.4 | -    | -    |
|                        | 67      | 67.2                                 | 2.6                           | 58.4                    | 51.3 | 44.2 | 37.1 | 30.0 | -    | 62.6                              | 3.2                           | 55.9                    | 48.9 | 41.8 | 34.8 | 27.8 | -    |
|                        | 62      | 58.1                                 | 2.7                           | 58.1                    | 58.1 | 53.9 | 46.8 | 39.7 | 32.6 | 55.3                              | 3.3                           | 55.3                    | 55.3 | 50.5 | 43.4 | 36.4 | 29.4 |
|                        | 57      | 59.9                                 | 2.8                           | 59.9                    | 59.9 | 54.9 | 47.8 | 40.7 | 33.6 | 56.5                              | 3.3                           | 56.5                    | 56.5 | 51.2 | 44.2 | 37.1 | 30.1 |
| 1750                   | 77      | 87.0                                 | 2.5                           | 45.1                    | 37.9 | 29.6 | -    | -    | -    | 80.8                              | 3.1                           | 43.9                    | 35.3 | 27.1 | -    | -    | -    |
|                        | 72      | 78.3                                 | 2.6                           | 55.2                    | 46.9 | 38.6 | 30.4 | -    | -    | 72.7                              | 3.2                           | 52.5                    | 44.4 | 36.2 | 28.0 | -    | -    |
|                        | 67      | 69.6                                 | 2.6                           | 65.2                    | 55.9 | 47.6 | 39.4 | 31.1 | -    | 64.5                              | 3.2                           | 61.2                    | 53.4 | 45.2 | 37.1 | 28.9 | -    |
|                        | 62      | 60.2                                 | 2.7                           | 60.2                    | 60.2 | 58.1 | 49.9 | 41.6 | 33.3 | 57.0                              | 3.3                           | 57.0                    | 57.0 | 54.6 | 46.4 | 38.2 | 30.1 |
|                        | 57      | 62.0                                 | 2.7                           | 62.0                    | 62.0 | 59.2 | 51.0 | 42.7 | 34.5 | 58.2                              | 3.3                           | 58.2                    | 58.2 | 55.4 | 47.2 | 39.0 | 30.9 |
| 2000                   | 77      | 90.0                                 | 2.5                           | 48.4                    | 41.2 | 31.8 | -    | -    | -    | 83.2                              | 3.1                           | 48.6                    | 38.5 | 29.2 | -    | -    | -    |
|                        | 72      | 81.0                                 | 2.5                           | 60.2                    | 50.8 | 41.4 | 32.1 | -    | -    | 74.8                              | 3.1                           | 57.5                    | 48.2 | 38.9 | 29.6 | -    | -    |
|                        | 67      | 72.0                                 | 2.6                           | 72.0                    | 60.5 | 51.1 | 41.7 | 32.3 | -    | 66.4                              | 3.2                           | 66.4                    | 57.9 | 48.6 | 39.3 | 30.0 | -    |
|                        | 62      | 62.3                                 | 2.6                           | 62.3                    | 62.3 | 62.3 | 52.9 | 43.5 | 34.1 | 58.7                              | 3.2                           | 58.7                    | 58.7 | 58.7 | 49.4 | 40.1 | 30.8 |
|                        | 57      | 64.2                                 | 2.7                           | 64.2                    | 64.2 | 63.5 | 54.1 | 44.7 | 35.3 | 60.0                              | 3.3                           | 60.0                    | 60.0 | 59.6 | 50.3 | 40.9 | 31.6 |
| 2250                   | 72      | 82.8                                 | 2.5                           | 65.4                    | 54.9 | 44.5 | 34.0 | -    | -    | 76.2                              | 3.1                           | 62.3                    | 52.0 | 41.7 | 31.4 | -    | -    |
|                        | 67      | 73.6                                 | 2.6                           | 73.6                    | 65.9 | 54.8 | 44.4 | 33.9 | -    | 67.7                              | 3.2                           | 67.7                    | 62.5 | 52.2 | 41.9 | 31.6 | -    |
|                        | 62      | 63.7                                 | 2.6                           | 63.7                    | 63.7 | 63.7 | 53.3 | 42.8 | 32.4 | 59.8                              | 3.2                           | 59.8                    | 59.8 | 59.8 | 49.5 | 39.2 | 28.9 |
|                        | 57      | 65.6                                 | 2.7                           | 65.6                    | 65.6 | 65.3 | 54.8 | 44.4 | 33.9 | 61.1                              | 3.3                           | 61.1                    | 61.1 | 60.9 | 50.6 | 40.3 | 30.0 |
| 2500                   | 72      | 84.6                                 | 2.5                           | 70.6                    | 59.0 | 47.5 | 36.0 | -    | -    | 77.6                              | 3.1                           | 67.1                    | 55.8 | 44.5 | 33.3 | -    | -    |
|                        | 67      | 75.2                                 | 2.6                           | 75.2                    | 71.4 | 58.6 | 47.1 | 35.6 | -    | 68.9                              | 3.2                           | 68.9                    | 67.0 | 55.7 | 44.4 | 33.1 | -    |
|                        | 62      | 65.1                                 | 2.6                           | 65.1                    | 65.1 | 65.1 | 53.6 | 42.1 | 30.6 | 60.9                              | 3.2                           | 60.9                    | 60.9 | 60.9 | 49.6 | 38.3 | 27.0 |
|                        | 57      | 67.1                                 | 2.7                           | 67.1                    | 67.1 | 67.1 | 55.6 | 44.0 | 32.5 | 62.2                              | 3.2                           | 62.2                    | 62.2 | 62.2 | 50.9 | 39.6 | 28.3 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 105°F                   |      |      |      |      |      |
| 1250                   | 77      | 71.1                                 | 3.7                           | 30.5                    | 26.6 | 20.8 | -    | -    | -    | 65.1                              | 4.4                           | 27.7                    | 23.5 | 18.4 | -    | -    | -    |
|                        | 72      | 63.8                                 | 3.8                           | 40.1                    | 34.2 | 28.4 | 22.6 | -    | -    | 57.9                              | 4.4                           | 37.5                    | 31.7 | 25.9 | 20.1 | -    | -    |
|                        | 67      | 56.6                                 | 3.8                           | 49.6                    | 41.9 | 36.1 | 30.3 | 24.4 | -    | 50.8                              | 4.5                           | 47.3                    | 39.8 | 33.4 | 27.6 | 21.8 | -    |
|                        | 62      | 51.2                                 | 3.9                           | 51.2                    | 51.2 | 43.0 | 37.2 | 31.4 | 25.6 | 47.0                              | 4.5                           | 47.0                    | 47.0 | 38.5 | 32.7 | 26.9 | 21.1 |
| 1500                   | 77      | 72.9                                 | 3.7                           | 36.6                    | 29.6 | 22.7 | -    | -    | -    | 66.5                              | 4.4                           | 35.1                    | 27.2 | 20.2 | -    | -    | -    |
|                        | 72      | 65.4                                 | 3.8                           | 45.0                    | 38.0 | 31.1 | 24.1 | -    | -    | 59.2                              | 4.4                           | 42.3                    | 35.4 | 28.5 | 21.5 | -    | -    |
|                        | 67      | 58.0                                 | 3.8                           | 53.4                    | 46.4 | 39.5 | 32.5 | 25.5 | -    | 51.9                              | 4.4                           | 49.5                    | 43.6 | 36.7 | 29.8 | 22.8 | -    |
|                        | 62      | 52.5                                 | 3.9                           | 52.5                    | 52.5 | 47.0 | 40.1 | 33.1 | 26.2 | 48.0                              | 4.5                           | 48.0                    | 48.0 | 42.3 | 35.4 | 28.4 | 21.5 |
|                        | 57      | 53.2                                 | 3.9                           | 53.2                    | 53.2 | 47.5 | 40.5 | 33.6 | 26.6 | 48.6                              | 4.5                           | 48.6                    | 48.6 | 42.8 | 35.9 | 29.0 | 22.0 |
| 1750                   | 77      | 74.6                                 | 3.7                           | 42.7                    | 32.7 | 24.6 | -    | -    | -    | 67.9                              | 4.4                           | 42.6                    | 30.8 | 22.0 | -    | -    | -    |
|                        | 72      | 67.0                                 | 3.7                           | 49.9                    | 41.8 | 33.7 | 25.6 | -    | -    | 60.4                              | 4.4                           | 47.2                    | 39.1 | 31.0 | 23.0 | -    | -    |
|                        | 67      | 59.4                                 | 3.8                           | 57.1                    | 50.9 | 42.8 | 34.7 | 26.6 | -    | 53.0                              | 4.4                           | 51.8                    | 47.5 | 40.0 | 32.0 | 23.9 | -    |
|                        | 62      | 53.8                                 | 3.9                           | 53.8                    | 53.8 | 51.0 | 43.0 | 34.9 | 26.8 | 49.0                              | 4.5                           | 49.0                    | 49.0 | 46.1 | 38.1 | 30.0 | 21.9 |
|                        | 57      | 54.5                                 | 3.8                           | 54.5                    | 54.5 | 51.5 | 43.5 | 35.4 | 27.3 | 49.7                              | 4.5                           | 49.7                    | 49.7 | 46.7 | 38.6 | 30.6 | 22.5 |
| 2000                   | 77      | 76.4                                 | 3.7                           | 48.8                    | 35.8 | 26.6 | -    | -    | -    | 69.3                              | 4.3                           | 50.1                    | 34.4 | 23.9 | -    | -    | -    |
|                        | 72      | 68.6                                 | 3.7                           | 54.8                    | 45.6 | 36.4 | 27.1 | -    | -    | 61.7                              | 4.4                           | 52.1                    | 42.9 | 33.6 | 24.4 | -    | -    |
|                        | 67      | 60.8                                 | 3.8                           | 60.8                    | 55.4 | 46.2 | 37.0 | 27.7 | -    | 54.0                              | 4.4                           | 54.0                    | 51.3 | 43.4 | 34.2 | 24.9 | -    |
|                        | 62      | 55.1                                 | 3.9                           | 55.1                    | 55.1 | 55.1 | 45.8 | 36.6 | 27.4 | 50.0                              | 4.5                           | 50.0                    | 50.0 | 50.0 | 40.8 | 31.5 | 22.3 |
|                        | 57      | 55.8                                 | 3.8                           | 55.8                    | 55.8 | 55.6 | 46.4 | 37.1 | 27.9 | 50.7                              | 4.4                           | 50.7                    | 50.7 | 50.6 | 41.4 | 32.2 | 22.9 |
| 2250                   | 72      | 69.6                                 | 3.7                           | 59.3                    | 49.1 | 39.0 | 28.8 | -    | -    | 62.3                              | 4.4                           | 55.8                    | 46.3 | 36.1 | 25.9 | -    | -    |
|                        | 67      | 61.7                                 | 3.8                           | 61.7                    | 59.0 | 49.5 | 39.3 | 29.2 | -    | 54.6                              | 4.4                           | 54.6                    | 53.2 | 46.5 | 36.3 | 26.1 | -    |
|                        | 62      | 55.9                                 | 3.9                           | 55.9                    | 55.9 | 55.9 | 45.7 | 35.5 | 25.4 | 50.5                              | 4.5                           | 50.5                    | 50.5 | 50.5 | 40.3 | 30.1 | 19.9 |
|                        | 57      | 56.6                                 | 3.8                           | 56.6                    | 56.6 | 56.5 | 46.3 | 36.2 | 26.0 | 51.2                              | 4.4                           | 51.2                    | 51.2 | 51.2 | 41.0 | 30.8 | 20.6 |
| 2500                   | 72      | 70.6                                 | 3.7                           | 63.7                    | 52.6 | 41.6 | 30.5 | -    | -    | 62.9                              | 4.4                           | 59.4                    | 49.7 | 38.5 | 27.3 | -    | -    |
|                        | 67      | 62.6                                 | 3.8                           | 62.6                    | 62.6 | 52.8 | 41.7 | 30.6 | -    | 55.1                              | 4.4                           | 55.1                    | 55.1 | 49.7 | 38.5 | 27.3 | -    |
|                        | 62      | 56.6                                 | 3.9                           | 56.6                    | 56.6 | 56.6 | 45.6 | 34.5 | 23.4 | 51.0                              | 4.5                           | 51.0                    | 51.0 | 51.0 | 39.8 | 28.6 | 17.4 |
|                        | 57      | 57.4                                 | 3.8                           | 57.4                    | 57.4 | 57.4 | 46.3 | 35.2 | 24.1 | 51.7                              | 4.4                           | 51.7                    | 51.7 | 51.7 | 40.5 | 29.3 | 18.2 |

**ZT090 (7.5 ton) second stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 1250                   | 77      | 59.1                                 | 5.0                           | 24.8                    | 20.5 | 16.0 | -    | -    | -    | 53.0                              | 5.7                           | 25.4                    | 16.1 | 13.6 | -    | -    | -    |
|                        | 72      | 52.0                                 | 5.1                           | 34.9                    | 29.1 | 23.3 | 17.6 | -    | -    | 46.1                              | 5.7                           | 32.3                    | 26.5 | 20.8 | 15.0 | -    | -    |
|                        | 67      | 44.9                                 | 5.1                           | 44.9                    | 37.7 | 30.6 | 24.9 | 19.1 | -    | 39.1                              | 5.8                           | 39.1                    | 36.2 | 27.9 | 22.2 | 16.4 | -    |
|                        | 62      | 42.7                                 | 5.1                           | 42.7                    | 42.7 | 33.9 | 28.1 | 22.3 | 16.6 | 38.4                              | 5.7                           | 38.4                    | 38.4 | 29.3 | 23.6 | 17.8 | 12.1 |
| 1500                   | 77      | 60.1                                 | 5.0                           | 33.7                    | 24.7 | 17.7 | -    | -    | -    | 53.7                              | 5.7                           | 34.5                    | 22.2 | 15.3 | -    | -    | -    |
|                        | 72      | 52.9                                 | 5.1                           | 39.7                    | 32.8 | 25.8 | 18.9 | -    | -    | 46.6                              | 5.7                           | 37.0                    | 30.1 | 23.2 | 16.3 | -    | -    |
|                        | 67      | 45.7                                 | 5.1                           | 45.7                    | 40.9 | 34.0 | 27.0 | 20.1 | -    | 39.5                              | 5.8                           | 39.5                    | 38.1 | 31.2 | 24.3 | 17.4 | -    |
|                        | 62      | 43.4                                 | 5.1                           | 43.4                    | 43.4 | 37.6 | 30.6 | 23.7 | 16.8 | 38.9                              | 5.7                           | 38.9                    | 38.9 | 32.8 | 25.9 | 19.0 | 12.1 |
|                        | 57      | 44.1                                 | 5.1                           | 44.1                    | 44.1 | 38.2 | 31.2 | 24.3 | 17.4 | 39.6                              | 5.7                           | 39.6                    | 39.6 | 33.5 | 26.6 | 19.7 | 12.8 |
| 1750                   | 77      | 61.1                                 | 5.0                           | 42.5                    | 28.8 | 19.5 | -    | -    | -    | 54.3                              | 5.7                           | 43.6                    | 28.2 | 16.9 | -    | -    | -    |
|                        | 72      | 53.8                                 | 5.1                           | 44.5                    | 36.4 | 28.4 | 20.3 | -    | -    | 47.2                              | 5.7                           | 41.8                    | 33.8 | 25.7 | 17.6 | -    | -    |
|                        | 67      | 46.5                                 | 5.1                           | 46.5                    | 44.1 | 37.3 | 29.2 | 21.1 | -    | 40.0                              | 5.8                           | 40.0                    | 40.0 | 34.5 | 26.4 | 18.4 | -    |
|                        | 62      | 44.2                                 | 5.1                           | 44.2                    | 44.2 | 41.2 | 33.2 | 25.1 | 17.0 | 39.3                              | 5.7                           | 39.3                    | 39.3 | 36.3 | 28.2 | 20.2 | 12.1 |
|                        | 57      | 44.9                                 | 5.1                           | 44.9                    | 44.9 | 41.9 | 33.8 | 25.8 | 17.7 | 40.1                              | 5.7                           | 40.1                    | 40.1 | 37.1 | 29.0 | 21.0 | 12.9 |
| 2000                   | 77      | 62.1                                 | 5.0                           | 51.4                    | 33.0 | 21.2 | -    | -    | -    | 55.0                              | 5.7                           | 52.7                    | 34.3 | 18.5 | -    | -    | -    |
|                        | 72      | 54.7                                 | 5.1                           | 49.3                    | 40.1 | 30.9 | 21.7 | -    | -    | 47.7                              | 5.7                           | 46.6                    | 37.4 | 28.2 | 18.9 | -    | -    |
|                        | 67      | 47.3                                 | 5.1                           | 47.3                    | 47.3 | 40.6 | 31.4 | 22.2 | -    | 40.5                              | 5.8                           | 40.5                    | 40.5 | 37.8 | 28.6 | 19.4 | -    |
|                        | 62      | 44.9                                 | 5.1                           | 44.9                    | 44.9 | 44.9 | 35.7 | 26.5 | 17.2 | 39.8                              | 5.7                           | 39.8                    | 39.8 | 39.8 | 30.6 | 21.4 | 12.2 |
|                        | 57      | 45.6                                 | 5.1                           | 45.6                    | 45.6 | 45.6 | 36.4 | 27.2 | 18.0 | 40.6                              | 5.7                           | 40.6                    | 40.6 | 40.6 | 31.4 | 22.2 | 13.0 |
| 2250                   | 72      | 54.9                                 | 5.0                           | 52.2                    | 43.4 | 33.2 | 22.9 | -    | -    | 47.6                              | 5.7                           | 47.6                    | 40.6 | 30.3 | 20.0 | -    | -    |
|                        | 67      | 47.5                                 | 5.1                           | 47.5                    | 47.5 | 43.6 | 33.4 | 23.1 | -    | 40.3                              | 5.7                           | 40.3                    | 40.3 | 40.3 | 30.4 | 20.1 | -    |
|                        | 62      | 45.1                                 | 5.1                           | 45.1                    | 45.1 | 45.1 | 34.8 | 24.6 | 14.4 | 39.7                              | 5.7                           | 39.7                    | 39.7 | 39.7 | 29.4 | 19.1 | 8.8  |
|                        | 57      | 45.8                                 | 5.1                           | 45.8                    | 45.8 | 45.8 | 35.6 | 25.3 | 15.1 | 40.5                              | 5.7                           | 40.5                    | 40.5 | 40.5 | 30.2 | 19.9 | 9.6  |
| 2500                   | 72      | 55.2                                 | 5.0                           | 55.2                    | 46.8 | 35.5 | 24.2 | -    | -    | 47.4                              | 5.7                           | 47.4                    | 43.8 | 32.4 | 21.1 | -    | -    |
|                        | 67      | 47.7                                 | 5.1                           | 47.7                    | 47.7 | 46.6 | 35.4 | 24.1 | -    | 40.2                              | 5.7                           | 40.2                    | 40.2 | 40.2 | 32.2 | 20.8 | -    |
|                        | 62      | 45.3                                 | 5.1                           | 45.3                    | 45.3 | 45.3 | 34.0 | 22.7 | 11.5 | 39.6                              | 5.6                           | 39.6                    | 39.6 | 39.6 | 28.2 | 16.9 | 5.5  |
|                        | 57      | 46.0                                 | 5.0                           | 46.0                    | 46.0 | 46.0 | 34.8 | 23.5 | 12.2 | 40.4                              | 5.6                           | 40.4                    | 40.4 | 40.4 | 29.0 | 17.6 | 6.3  |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



## ZT090 (7.5 ton) third stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85    | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |       |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1875                   | 77      | 109.6                                | 4.4                           | 54.7                    | 44.1  | 35.2 | -    | -    | -    | 107.4                             | 5.0                           | 50.4                    | 41.9 | 33.0 | -    | -    | -    |
|                        | 72      | 100.0                                | 4.3                           | 64.8                    | 55.9  | 47.0 | 38.1 | -    | -    | 97.6                              | 4.9                           | 62.7                    | 53.8 | 44.8 | 35.9 | -    | -    |
|                        | 67      | 90.4                                 | 4.2                           | 74.9                    | 67.8  | 58.9 | 50.0 | 41.1 | -    | 87.8                              | 4.8                           | 74.9                    | 65.6 | 56.7 | 47.8 | 38.9 | -    |
|                        | 62      | 81.9                                 | 4.2                           | 81.9                    | 81.9  | 72.6 | 63.7 | 54.8 | 45.9 | 79.8                              | 4.8                           | 79.8                    | 79.8 | 68.9 | 60.0 | 51.1 | 42.2 |
| 2250                   | 77      | 116.0                                | 4.4                           | 59.3                    | 49.0  | 38.6 | -    | -    | -    | 111.6                             | 5.0                           | 56.7                    | 46.4 | 36.0 | -    | -    | -    |
|                        | 72      | 105.8                                | 4.3                           | 72.3                    | 62.0  | 51.6 | 41.2 | -    | -    | 101.4                             | 4.9                           | 69.7                    | 59.3 | 49.0 | 38.6 | -    | -    |
|                        | 67      | 95.7                                 | 4.3                           | 85.3                    | 75.0  | 64.6 | 54.2 | 43.9 | -    | 91.2                              | 4.8                           | 82.6                    | 72.3 | 61.9 | 51.6 | 41.2 | -    |
|                        | 62      | 86.6                                 | 4.2                           | 86.6                    | 86.6  | 79.7 | 69.3 | 59.0 | 48.6 | 82.9                              | 4.8                           | 82.9                    | 82.9 | 75.3 | 64.9 | 54.6 | 44.2 |
|                        | 57      | 82.5                                 | 4.2                           | 82.5                    | 82.5  | 77.8 | 67.5 | 57.1 | 46.7 | 81.0                              | 4.8                           | 81.0                    | 81.0 | 74.5 | 64.2 | 53.8 | 43.5 |
| 2625                   | 77      | 122.4                                | 4.4                           | 63.9                    | 53.8  | 42.0 | -    | -    | -    | 115.8                             | 5.0                           | 63.0                    | 50.9 | 39.1 | -    | -    | -    |
|                        | 72      | 111.6                                | 4.4                           | 79.9                    | 68.0  | 56.2 | 44.3 | -    | -    | 105.3                             | 4.9                           | 76.7                    | 64.9 | 53.1 | 41.3 | -    | -    |
|                        | 67      | 100.9                                | 4.3                           | 95.8                    | 82.2  | 70.4 | 58.5 | 46.7 | -    | 94.7                              | 4.9                           | 90.4                    | 79.0 | 67.2 | 55.4 | 43.6 | -    |
|                        | 62      | 91.4                                 | 4.2                           | 91.4                    | 91.4  | 86.8 | 74.9 | 63.1 | 51.3 | 86.0                              | 4.8                           | 86.0                    | 86.0 | 81.6 | 69.8 | 58.1 | 46.3 |
|                        | 57      | 87.1                                 | 4.2                           | 87.1                    | 87.1  | 84.8 | 72.9 | 61.1 | 49.3 | 84.1                              | 4.8                           | 84.1                    | 84.1 | 80.8 | 69.0 | 57.2 | 45.4 |
| 3000                   | 77      | 128.8                                | 4.5                           | 68.6                    | 58.7  | 45.4 | -    | -    | -    | 120.0                             | 5.1                           | 69.3                    | 55.4 | 42.1 | -    | -    | -    |
|                        | 72      | 117.5                                | 4.4                           | 87.4                    | 74.1  | 60.8 | 47.5 | -    | -    | 109.1                             | 5.0                           | 83.7                    | 70.5 | 57.3 | 44.0 | -    | -    |
|                        | 67      | 106.2                                | 4.3                           | 106.2                   | 89.4  | 76.1 | 62.8 | 49.5 | -    | 98.1                              | 4.9                           | 98.1                    | 85.6 | 72.4 | 59.2 | 46.0 | -    |
|                        | 62      | 96.2                                 | 4.3                           | 96.2                    | 96.2  | 93.9 | 80.6 | 67.3 | 53.9 | 89.1                              | 4.8                           | 89.1                    | 89.1 | 88.0 | 74.8 | 61.5 | 48.3 |
|                        | 57      | 91.7                                 | 4.2                           | 91.7                    | 91.7  | 91.7 | 78.4 | 65.1 | 51.8 | 87.1                              | 4.8                           | 87.1                    | 87.1 | 87.1 | 73.9 | 60.7 | 47.4 |
| 3375                   | 72      | 119.0                                | 4.4                           | 93.7                    | 79.2  | 64.7 | 50.2 | -    | -    | 110.5                             | 5.0                           | 90.2                    | 75.7 | 61.2 | 46.8 | -    | -    |
|                        | 67      | 107.6                                | 4.3                           | 107.6                   | 96.5  | 81.0 | 66.5 | 52.0 | -    | 99.4                              | 4.9                           | 99.4                    | 91.9 | 77.4 | 63.0 | 48.5 | -    |
|                        | 62      | 97.4                                 | 4.3                           | 97.4                    | 97.4  | 96.3 | 81.8 | 67.2 | 52.7 | 90.3                              | 4.8                           | 90.3                    | 90.3 | 89.8 | 75.3 | 60.8 | 46.4 |
|                        | 57      | 92.9                                 | 4.2                           | 92.9                    | 92.9  | 92.9 | 78.4 | 63.8 | 49.3 | 88.3                              | 4.9                           | 88.3                    | 88.3 | 88.3 | 73.8 | 59.3 | 44.9 |
| 3750                   | 72      | 120.5                                | 4.4                           | 100.0                   | 84.3  | 68.6 | 52.9 | -    | -    | 112.0                             | 5.0                           | 96.6                    | 80.9 | 65.2 | 49.5 | -    | -    |
|                        | 67      | 108.9                                | 4.3                           | 108.9                   | 103.7 | 85.9 | 70.2 | 54.4 | -    | 100.8                             | 4.9                           | 100.8                   | 98.1 | 82.4 | 66.7 | 51.0 | -    |
|                        | 62      | 98.7                                 | 4.3                           | 98.7                    | 98.7  | 98.7 | 83.0 | 67.2 | 51.5 | 91.5                              | 4.9                           | 91.5                    | 91.5 | 91.5 | 75.8 | 60.1 | 44.4 |
|                        | 57      | 94.1                                 | 4.2                           | 94.1                    | 94.1  | 94.1 | 78.4 | 62.6 | 46.9 | 89.5                              | 4.9                           | 89.5                    | 89.5 | 89.5 | 73.7 | 58.0 | 42.3 |
|                        |         | 95°F                                 |                               |                         |       |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |      |
| 1875                   | 77      | 105.2                                | 5.6                           | 46.2                    | 39.7  | 30.8 | -    | -    | -    | 98.4                              | 6.3                           | 41.5                    | 36.8 | 27.9 | -    | -    | -    |
|                        | 72      | 95.2                                 | 5.5                           | 60.5                    | 51.6  | 42.7 | 33.8 | -    | -    | 88.8                              | 6.2                           | 57.6                    | 48.7 | 39.8 | 30.9 | -    | -    |
|                        | 67      | 85.1                                 | 5.4                           | 74.9                    | 63.5  | 54.6 | 45.6 | 36.7 | -    | 79.2                              | 6.1                           | 73.6                    | 60.6 | 51.7 | 42.8 | 33.9 | -    |
|                        | 62      | 77.6                                 | 5.4                           | 77.6                    | 77.6  | 65.2 | 56.3 | 47.3 | 38.4 | 73.1                              | 6.1                           | 73.1                    | 73.1 | 60.7 | 51.8 | 42.9 | 34.0 |
| 2250                   | 77      | 107.3                                | 5.6                           | 54.1                    | 43.8  | 33.5 | -    | -    | -    | 100.2                             | 6.3                           | 51.0                    | 40.7 | 30.4 | -    | -    | -    |
|                        | 72      | 97.0                                 | 5.5                           | 67.0                    | 56.7  | 46.4 | 36.0 | -    | -    | 90.5                              | 6.2                           | 64.0                    | 53.7 | 43.4 | 33.1 | -    | -    |
|                        | 67      | 86.8                                 | 5.4                           | 79.9                    | 69.6  | 59.3 | 49.0 | 38.6 | -    | 80.7                              | 6.2                           | 77.0                    | 66.7 | 56.4 | 46.1 | 35.8 | -    |
|                        | 62      | 79.1                                 | 5.4                           | 79.1                    | 79.1  | 70.8 | 60.5 | 50.2 | 39.8 | 74.4                              | 6.1                           | 74.4                    | 74.4 | 66.2 | 55.9 | 45.6 | 35.3 |
|                        | 57      | 79.5                                 | 5.4                           | 79.5                    | 79.5  | 71.2 | 60.9 | 50.5 | 40.2 | 74.1                              | 6.1                           | 74.1                    | 74.1 | 65.9 | 55.6 | 45.3 | 35.0 |
| 2625                   | 77      | 109.3                                | 5.6                           | 62.1                    | 47.9  | 36.1 | -    | -    | -    | 102.1                             | 6.3                           | 60.4                    | 44.6 | 32.9 | -    | -    | -    |
|                        | 72      | 98.9                                 | 5.5                           | 73.6                    | 61.8  | 50.1 | 38.3 | -    | -    | 92.1                              | 6.2                           | 70.4                    | 58.7 | 47.0 | 35.3 | -    | -    |
|                        | 67      | 88.4                                 | 5.4                           | 85.0                    | 75.8  | 64.0 | 52.3 | 40.5 | -    | 82.2                              | 6.2                           | 80.3                    | 72.8 | 61.1 | 49.4 | 37.7 | -    |
|                        | 62      | 80.6                                 | 5.4                           | 80.6                    | 80.6  | 76.5 | 64.7 | 53.0 | 41.2 | 75.8                              | 6.1                           | 75.8                    | 75.8 | 71.7 | 60.0 | 48.3 | 36.6 |
|                        | 57      | 81.0                                 | 5.4                           | 81.0                    | 81.0  | 76.9 | 65.1 | 53.4 | 41.6 | 75.5                              | 6.1                           | 75.5                    | 75.5 | 71.3 | 59.7 | 48.0 | 36.3 |
| 3000                   | 77      | 111.3                                | 5.6                           | 70.1                    | 52.0  | 38.8 | -    | -    | -    | 104.0                             | 6.3                           | 69.8                    | 48.5 | 35.5 | -    | -    | -    |
|                        | 72      | 100.7                                | 5.5                           | 80.1                    | 66.9  | 53.8 | 40.6 | -    | -    | 93.8                              | 6.3                           | 76.8                    | 63.7 | 50.6 | 37.6 | -    | -    |
|                        | 67      | 90.1                                 | 5.5                           | 90.1                    | 81.9  | 68.7 | 55.6 | 42.4 | -    | 83.7                              | 6.2                           | 83.7                    | 78.9 | 65.8 | 52.7 | 39.6 | -    |
|                        | 62      | 82.1                                 | 5.4                           | 82.1                    | 82.1  | 82.1 | 69.0 | 55.8 | 42.7 | 77.2                              | 6.2                           | 77.2                    | 77.2 | 77.2 | 64.1 | 51.1 | 38.0 |
|                        | 57      | 82.5                                 | 5.4                           | 82.5                    | 82.5  | 82.5 | 69.4 | 56.2 | 43.1 | 76.8                              | 6.2                           | 76.8                    | 76.8 | 76.8 | 63.8 | 50.7 | 37.6 |
| 3375                   | 72      | 102.1                                | 5.6                           | 86.6                    | 72.2  | 57.8 | 43.4 | -    | -    | 95.0                              | 6.3                           | 82.6                    | 68.3 | 54.1 | 39.9 | -    | -    |
|                        | 67      | 91.3                                 | 5.5                           | 91.3                    | 87.2  | 73.8 | 59.4 | 45.0 | -    | 84.8                              | 6.2                           | 84.8                    | 82.4 | 70.3 | 56.1 | 41.8 | -    |
|                        | 62      | 83.3                                 | 5.4                           | 83.3                    | 83.3  | 83.3 | 68.8 | 54.4 | 40.0 | 78.2                              | 6.2                           | 78.2                    | 78.2 | 78.2 | 63.9 | 49.7 | 35.5 |
|                        | 57      | 83.7                                 | 5.5                           | 83.7                    | 83.7  | 83.7 | 69.3 | 54.8 | 40.4 | 77.8                              | 6.2                           | 77.8                    | 77.8 | 77.8 | 63.6 | 49.4 | 35.1 |
| 3750                   | 72      | 103.5                                | 5.6                           | 93.2                    | 77.5  | 61.8 | 46.1 | -    | -    | 96.2                              | 6.3                           | 88.4                    | 73.0 | 57.6 | 42.2 | -    | -    |
|                        | 67      | 92.6                                 | 5.5                           | 92.6                    | 92.6  | 79.0 | 63.3 | 47.6 | -    | 85.8                              | 6.3                           | 85.8                    | 85.8 | 74.8 | 59.4 | 44.0 | -    |
|                        | 62      | 84.4                                 | 5.5                           | 84.4                    | 84.4  | 84.4 | 68.7 | 53.0 | 37.3 | 79.2                              | 6.2                           | 79.2                    | 79.2 | 79.2 | 63.8 | 48.4 | 33.0 |
|                        | 57      | 84.8                                 | 5.5                           | 84.8                    | 84.8  | 84.8 | 69.1 | 53.4 | 37.7 | 78.8                              | 6.2                           | 78.8                    | 78.8 | 78.8 | 63.4 | 48.0 | 32.6 |

**ZT090 (7.5 ton) third stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |  |  |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |  |  |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   | 125°F                         |                         |      |      |      |      |      |  |  |
| 1875                   | 77      | 91.5                                 | 7.0                           | 36.9                    | 33.8 | 24.9 | -    | -    | -    | 84.7                              | 7.7                           | 36.0                    | 29.9 | 22.0 | -    | -    | -    |  |  |
|                        | 72      | 82.4                                 | 6.9                           | 54.6                    | 45.7 | 36.9 | 28.0 | -    | -    | 76.0                              | 7.6                           | 51.6                    | 42.8 | 34.0 | 25.1 | -    | -    |  |  |
|                        | 67      | 73.2                                 | 6.9                           | 72.3                    | 57.7 | 48.8 | 39.9 | 31.1 | -    | 67.3                              | 7.6                           | 67.3                    | 54.8 | 45.9 | 37.1 | 28.3 | -    |  |  |
|                        | 62      | 68.5                                 | 6.8                           | 68.5                    | 68.5 | 56.1 | 47.3 | 38.4 | 29.5 | 63.9                              | 7.6                           | 63.9                    | 63.9 | 51.6 | 42.8 | 33.9 | 25.1 |  |  |
| 2250                   | 77      | 93.2                                 | 7.0                           | 47.8                    | 37.6 | 27.3 | -    | -    | -    | 86.2                              | 7.7                           | 47.1                    | 34.4 | 24.2 | -    | -    | -    |  |  |
|                        | 72      | 83.9                                 | 6.9                           | 60.9                    | 50.6 | 40.4 | 30.2 | -    | -    | 77.3                              | 7.7                           | 57.8                    | 47.6 | 37.4 | 27.2 | -    | -    |  |  |
|                        | 67      | 74.6                                 | 6.9                           | 74.0                    | 63.7 | 53.5 | 43.2 | 33.0 | -    | 68.5                              | 7.6                           | 68.5                    | 60.8 | 50.6 | 40.4 | 30.2 | -    |  |  |
|                        | 62      | 69.7                                 | 6.8                           | 69.7                    | 69.7 | 61.5 | 51.3 | 41.0 | 30.8 | 65.0                              | 7.6                           | 65.0                    | 65.0 | 56.8 | 46.6 | 36.5 | 26.3 |  |  |
|                        | 57      | 68.6                                 | 6.8                           | 68.6                    | 68.6 | 60.5 | 50.3 | 40.1 | 29.8 | 63.2                              | 7.6                           | 63.2                    | 63.2 | 55.2 | 45.0 | 34.8 | 24.6 |  |  |
| 2625                   | 77      | 94.9                                 | 7.0                           | 58.7                    | 41.3 | 29.7 | -    | -    | -    | 87.7                              | 7.7                           | 58.2                    | 39.0 | 26.5 | -    | -    | -    |  |  |
|                        | 72      | 85.4                                 | 7.0                           | 67.2                    | 55.5 | 43.9 | 32.3 | -    | -    | 78.7                              | 7.7                           | 64.0                    | 52.4 | 40.9 | 29.3 | -    | -    |  |  |
|                        | 67      | 75.9                                 | 6.9                           | 75.6                    | 69.8 | 58.2 | 46.5 | 34.9 | -    | 69.7                              | 7.7                           | 69.7                    | 66.8 | 55.2 | 43.7 | 32.1 | -    |  |  |
|                        | 62      | 71.0                                 | 6.9                           | 71.0                    | 71.0 | 66.9 | 55.3 | 43.7 | 32.0 | 66.2                              | 7.6                           | 66.2                    | 66.2 | 62.1 | 50.5 | 39.0 | 27.4 |  |  |
|                        | 57      | 69.9                                 | 6.9                           | 69.9                    | 69.9 | 65.8 | 54.2 | 42.6 | 31.0 | 64.3                              | 7.6                           | 64.3                    | 64.3 | 60.3 | 48.8 | 37.2 | 25.7 |  |  |
| 3000                   | 77      | 96.6                                 | 7.0                           | 69.6                    | 45.1 | 32.1 | -    | -    | -    | 89.2                              | 7.8                           | 69.3                    | 43.5 | 28.7 | -    | -    | -    |  |  |
|                        | 72      | 86.9                                 | 7.0                           | 73.4                    | 60.5 | 47.5 | 34.5 | -    | -    | 80.0                              | 7.7                           | 70.1                    | 57.2 | 44.3 | 31.4 | -    | -    |  |  |
|                        | 67      | 77.3                                 | 7.0                           | 77.3                    | 75.8 | 62.8 | 49.9 | 36.9 | -    | 70.9                              | 7.7                           | 70.9                    | 70.9 | 59.9 | 47.0 | 34.1 | -    |  |  |
|                        | 62      | 72.3                                 | 6.9                           | 72.3                    | 72.3 | 72.3 | 59.3 | 46.3 | 33.3 | 67.3                              | 7.6                           | 67.3                    | 67.3 | 67.3 | 54.4 | 41.5 | 28.6 |  |  |
|                        | 57      | 71.1                                 | 6.9                           | 71.1                    | 71.1 | 71.1 | 58.1 | 45.1 | 32.2 | 65.4                              | 7.6                           | 65.4                    | 65.4 | 65.4 | 52.5 | 39.6 | 26.7 |  |  |
| 3375                   | 72      | 88.0                                 | 7.0                           | 78.5                    | 64.5 | 50.4 | 36.4 | -    | -    | 80.9                              | 7.8                           | 74.5                    | 60.6 | 46.8 | 32.9 | -    | -    |  |  |
|                        | 67      | 78.2                                 | 7.0                           | 78.2                    | 77.5 | 66.8 | 52.7 | 38.7 | -    | 71.6                              | 7.7                           | 71.6                    | 71.6 | 63.3 | 49.4 | 35.5 | -    |  |  |
|                        | 62      | 73.1                                 | 6.9                           | 73.1                    | 73.1 | 73.1 | 59.1 | 45.0 | 31.0 | 68.0                              | 7.7                           | 68.0                    | 68.0 | 68.0 | 54.2 | 40.3 | 26.5 |  |  |
|                        | 57      | 72.0                                 | 6.9                           | 72.0                    | 72.0 | 72.0 | 57.9 | 43.9 | 29.8 | 66.1                              | 7.7                           | 66.1                    | 66.1 | 66.1 | 52.2 | 38.4 | 24.5 |  |  |
| 3750                   | 72      | 89.0                                 | 7.1                           | 83.6                    | 68.5 | 53.4 | 38.3 | -    | -    | 81.7                              | 7.8                           | 78.9                    | 64.1 | 49.3 | 34.4 | -    | -    |  |  |
|                        | 67      | 79.1                                 | 7.0                           | 79.1                    | 79.1 | 70.7 | 55.6 | 40.5 | -    | 72.4                              | 7.8                           | 72.4                    | 72.4 | 66.6 | 51.8 | 37.0 | -    |  |  |
|                        | 62      | 74.0                                 | 7.0                           | 74.0                    | 74.0 | 74.0 | 58.9 | 43.7 | 28.6 | 68.8                              | 7.7                           | 68.8                    | 68.8 | 68.8 | 53.9 | 39.1 | 24.3 |  |  |
|                        | 57      | 72.8                                 | 7.0                           | 72.8                    | 72.8 | 72.8 | 57.7 | 42.6 | 27.5 | 66.8                              | 7.7                           | 66.8                    | 66.8 | 66.8 | 52.0 | 37.2 | 22.3 |  |  |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT102 (8.5 ton) first stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1000                   | 77      | 51.0                                 | 1.6                           | 24.3                    | 21.8 | 16.1 | -    | -    | -    | 47.3                              | 1.9                           | 23.3                    | 18.9 | 14.5 | -    | -    | -    |
|                        | 72      | 45.7                                 | 1.6                           | 32.3                    | 27.1 | 21.8 | 16.6 | -    | -    | 42.2                              | 2.0                           | 30.1                    | 25.2 | 20.2 | 15.2 | -    | -    |
|                        | 67      | 40.3                                 | 1.7                           | 40.3                    | 32.3 | 27.5 | 22.3 | 17.0 | -    | 37.0                              | 2.0                           | 37.0                    | 31.4 | 25.8 | 20.9 | 15.9 | -    |
|                        | 62      | 36.8                                 | 1.7                           | 36.8                    | 36.8 | 31.0 | 25.7 | 20.5 | 15.3 | 34.2                              | 2.1                           | 34.2                    | 34.2 | 28.4 | 23.4 | 18.4 | 13.4 |
| 1200                   | 77      | 51.7                                 | 1.6                           | 29.6                    | 23.3 | 17.4 | -    | -    | -    | 48.0                              | 1.9                           | 29.3                    | 21.6 | 15.8 | -    | -    | -    |
|                        | 72      | 46.3                                 | 1.6                           | 35.3                    | 29.4 | 23.5 | 17.7 | -    | -    | 42.8                              | 2.0                           | 33.5                    | 27.7 | 21.9 | 16.2 | -    | -    |
|                        | 67      | 40.9                                 | 1.7                           | 40.9                    | 35.5 | 29.7 | 23.8 | 17.9 | -    | 37.6                              | 2.0                           | 37.6                    | 33.8 | 28.1 | 22.3 | 16.5 | -    |
|                        | 62      | 37.3                                 | 1.7                           | 37.3                    | 37.3 | 33.4 | 27.6 | 21.7 | 15.8 | 34.7                              | 2.0                           | 34.7                    | 34.7 | 30.8 | 25.1 | 19.3 | 13.5 |
|                        | 57      | 39.3                                 | 1.7                           | 39.3                    | 39.3 | 35.2 | 29.4 | 23.5 | 17.6 | 35.6                              | 2.0                           | 35.6                    | 35.6 | 31.6 | 25.8 | 20.1 | 14.3 |
| 1400                   | 77      | 52.4                                 | 1.6                           | 35.0                    | 24.7 | 18.7 | -    | -    | -    | 48.7                              | 1.9                           | 35.4                    | 24.2 | 17.0 | -    | -    | -    |
|                        | 72      | 46.9                                 | 1.6                           | 38.2                    | 31.7 | 25.2 | 18.8 | -    | -    | 43.4                              | 2.0                           | 36.8                    | 30.2 | 23.7 | 17.1 | -    | -    |
|                        | 67      | 41.5                                 | 1.7                           | 41.5                    | 38.8 | 31.8 | 25.3 | 18.8 | -    | 38.1                              | 2.0                           | 38.1                    | 36.3 | 30.3 | 23.8 | 17.2 | -    |
|                        | 62      | 37.8                                 | 1.7                           | 37.8                    | 37.8 | 35.9 | 29.4 | 22.9 | 16.4 | 35.2                              | 2.0                           | 35.2                    | 35.2 | 33.3 | 26.7 | 20.2 | 13.6 |
|                        | 57      | 39.9                                 | 1.7                           | 39.9                    | 39.9 | 37.8 | 31.3 | 24.8 | 18.4 | 36.1                              | 2.0                           | 36.1                    | 36.1 | 34.1 | 27.6 | 21.0 | 14.4 |
| 1600                   | 77      | 53.1                                 | 1.6                           | 40.4                    | 26.1 | 20.0 | -    | -    | -    | 49.4                              | 1.9                           | 41.5                    | 26.8 | 18.3 | -    | -    | -    |
|                        | 72      | 47.6                                 | 1.6                           | 41.2                    | 34.1 | 27.0 | 19.8 | -    | -    | 44.1                              | 2.0                           | 40.1                    | 32.8 | 25.4 | 18.1 | -    | -    |
|                        | 67      | 42.0                                 | 1.7                           | 42.0                    | 42.0 | 34.0 | 26.8 | 19.7 | -    | 38.7                              | 2.0                           | 38.7                    | 38.7 | 32.6 | 25.2 | 17.9 | -    |
|                        | 62      | 38.3                                 | 1.7                           | 38.3                    | 38.3 | 38.3 | 31.2 | 24.1 | 16.9 | 35.7                              | 2.0                           | 35.7                    | 35.7 | 35.7 | 28.4 | 21.1 | 13.7 |
|                        | 57      | 40.4                                 | 1.7                           | 40.4                    | 40.4 | 33.3 | 26.2 | 19.1 | -    | 36.6                              | 2.0                           | 36.6                    | 36.6 | 36.6 | 29.3 | 21.9 | 14.6 |
| 1800                   | 72      | 49.3                                 | 1.6                           | 46.1                    | 37.5 | 29.3 | 21.0 | -    | -    | 45.4                              | 2.0                           | 43.5                    | 36.1 | 27.7 | 19.4 | -    | -    |
|                        | 67      | 43.5                                 | 1.7                           | 43.5                    | 43.5 | 36.9 | 28.6 | 20.4 | -    | 39.9                              | 2.0                           | 39.9                    | 39.9 | 35.5 | 27.1 | 18.8 | -    |
|                        | 62      | 39.7                                 | 1.7                           | 39.7                    | 39.7 | 39.7 | 31.4 | 23.1 | 14.9 | 36.9                              | 2.0                           | 36.9                    | 36.9 | 36.9 | 28.5 | 20.1 | 11.8 |
|                        | 57      | 41.8                                 | 1.7                           | 41.8                    | 41.8 | 41.8 | 33.6 | 25.3 | 17.1 | 37.8                              | 2.0                           | 37.8                    | 37.8 | 37.8 | 29.4 | 21.0 | 12.7 |
| 2000                   | 72      | 51.0                                 | 1.6                           | 51.0                    | 41.0 | 31.6 | 22.2 | -    | -    | 46.8                              | 1.9                           | 46.8                    | 39.4 | 30.1 | 20.7 | -    | -    |
|                        | 67      | 45.0                                 | 1.7                           | 45.0                    | 45.0 | 39.8 | 30.4 | 21.0 | -    | 41.1                              | 2.0                           | 41.1                    | 41.1 | 38.5 | 29.1 | 19.7 | -    |
|                        | 62      | 41.0                                 | 1.7                           | 41.0                    | 41.0 | 41.0 | 31.6 | 22.2 | 12.8 | 38.0                              | 2.0                           | 38.0                    | 38.0 | 38.0 | 28.6 | 19.2 | 9.8  |
|                        | 57      | 43.3                                 | 1.7                           | 43.3                    | 43.3 | 43.3 | 33.9 | 24.5 | 15.1 | 38.9                              | 2.0                           | 38.9                    | 38.9 | 38.9 | 29.5 | 20.1 | 10.7 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |      |
| 1000                   | 77      | 43.6                                 | 2.3                           | 22.3                    | 16.0 | 12.9 | -    | -    | -    | 39.2                              | 2.7                           | 23.9                    | 15.1 | 11.8 | -    | -    | -    |
|                        | 72      | 38.7                                 | 2.3                           | 28.0                    | 23.3 | 18.5 | 13.8 | -    | -    | 34.7                              | 2.7                           | 27.1                    | 21.9 | 17.2 | 12.6 | -    | -    |
|                        | 67      | 33.7                                 | 2.4                           | 33.7                    | 30.6 | 24.2 | 19.4 | 14.7 | -    | 30.3                              | 2.7                           | 30.3                    | 28.7 | 22.7 | 18.0 | 13.4 | -    |
|                        | 62      | 31.6                                 | 2.4                           | 31.6                    | 31.6 | 25.8 | 21.1 | 16.3 | 11.6 | 29.1                              | 2.7                           | 29.1                    | 29.1 | 24.0 | 19.3 | 14.7 | 10.0 |
| 1200                   | 77      | 44.3                                 | 2.3                           | 29.1                    | 19.8 | 14.2 | -    | -    | -    | 39.9                              | 2.7                           | 29.2                    | 19.1 | 12.9 | -    | -    | -    |
|                        | 72      | 39.3                                 | 2.3                           | 31.7                    | 26.0 | 20.3 | 14.7 | -    | -    | 35.3                              | 2.7                           | 30.0                    | 24.4 | 18.8 | 13.2 | -    | -    |
|                        | 67      | 34.3                                 | 2.3                           | 34.3                    | 32.2 | 26.5 | 20.8 | 15.2 | -    | 30.8                              | 2.7                           | 30.8                    | 29.7 | 24.7 | 19.2 | 13.6 | -    |
|                        | 62      | 32.2                                 | 2.4                           | 32.2                    | 32.2 | 28.3 | 22.6 | 16.9 | 11.2 | 29.6                              | 2.7                           | 29.6                    | 29.6 | 26.2 | 20.6 | 15.0 | 9.4  |
|                        | 57      | 31.8                                 | 2.4                           | 31.8                    | 31.8 | 28.0 | 22.3 | 16.6 | 10.9 | 29.2                              | 2.7                           | 29.2                    | 29.2 | 25.8 | 20.2 | 14.7 | 9.1  |
| 1400                   | 77      | 45.0                                 | 2.3                           | 35.9                    | 23.7 | 15.4 | -    | -    | -    | 40.5                              | 2.7                           | 34.4                    | 23.1 | 13.9 | -    | -    | -    |
|                        | 72      | 39.9                                 | 2.3                           | 35.4                    | 28.7 | 22.1 | 15.5 | -    | -    | 35.9                              | 2.7                           | 32.8                    | 26.9 | 20.4 | 13.9 | -    | -    |
|                        | 67      | 34.8                                 | 2.3                           | 34.8                    | 33.8 | 28.8 | 22.2 | 15.6 | -    | 31.3                              | 2.7                           | 31.3                    | 30.7 | 26.8 | 20.3 | 13.8 | -    |
|                        | 62      | 32.7                                 | 2.4                           | 32.7                    | 32.7 | 30.7 | 24.1 | 17.5 | 10.9 | 30.1                              | 2.7                           | 30.1                    | 30.1 | 28.4 | 21.9 | 15.4 | 8.8  |
|                        | 57      | 32.3                                 | 2.4                           | 32.3                    | 32.3 | 30.4 | 23.8 | 17.2 | 10.5 | 29.7                              | 2.7                           | 29.7                    | 29.7 | 28.0 | 21.5 | 15.0 | 8.5  |
| 1600                   | 77      | 45.7                                 | 2.3                           | 42.7                    | 27.5 | 16.6 | -    | -    | -    | 41.2                              | 2.7                           | 39.6                    | 27.1 | 15.0 | -    | -    | -    |
|                        | 72      | 40.6                                 | 2.3                           | 39.0                    | 31.5 | 23.9 | 16.3 | -    | -    | 36.5                              | 2.7                           | 35.7                    | 29.4 | 22.0 | 14.5 | -    | -    |
|                        | 67      | 35.4                                 | 2.3                           | 35.4                    | 35.4 | 31.1 | 23.6 | 16.0 | -    | 31.8                              | 2.7                           | 31.8                    | 31.8 | 28.9 | 21.5 | 14.0 | -    |
|                        | 62      | 33.2                                 | 2.3                           | 33.2                    | 33.2 | 33.2 | 25.6 | 18.1 | 10.5 | 30.6                              | 2.7                           | 30.6                    | 30.6 | 30.6 | 23.1 | 15.7 | 8.2  |
|                        | 57      | 32.9                                 | 2.4                           | 32.9                    | 32.9 | 32.9 | 25.3 | 17.7 | 10.2 | 30.2                              | 2.7                           | 30.2                    | 30.2 | 30.2 | 22.7 | 15.3 | 7.8  |
| 1800                   | 72      | 41.6                                 | 2.3                           | 40.8                    | 34.7 | 26.2 | 17.7 | -    | -    | 37.3                              | 2.7                           | 36.9                    | 31.9 | 23.6 | 15.3 | -    | -    |
|                        | 67      | 36.3                                 | 2.3                           | 36.3                    | 36.3 | 34.1 | 25.7 | 17.2 | -    | 32.5                              | 2.7                           | 32.5                    | 32.5 | 31.0 | 22.7 | 14.4 | -    |
|                        | 62      | 34.0                                 | 2.3                           | 34.0                    | 34.0 | 34.0 | 25.6 | 17.1 | 8.6  | 31.3                              | 2.7                           | 31.3                    | 31.3 | 31.3 | 23.0 | 14.6 | 6.3  |
|                        | 57      | 33.7                                 | 2.3                           | 33.7                    | 33.7 | 33.7 | 25.2 | 16.7 | 8.3  | 30.8                              | 2.7                           | 30.8                    | 30.8 | 30.8 | 22.5 | 14.2 | 5.9  |
| 2000                   | 72      | 42.6                                 | 2.3                           | 42.6                    | 37.9 | 28.5 | 19.1 | -    | -    | 38.1                              | 2.7                           | 38.1                    | 34.4 | 25.2 | 16.0 | -    | -    |
|                        | 67      | 37.2                                 | 2.3                           | 37.2                    | 37.2 | 37.1 | 27.8 | 18.4 | -    | 33.2                              | 2.7                           | 33.2                    | 33.2 | 33.2 | 24.0 | 14.8 | -    |
|                        | 62      | 34.9                                 | 2.3                           | 34.9                    | 34.9 | 34.9 | 25.5 | 16.1 | 6.7  | 31.9                              | 2.7                           | 31.9                    | 31.9 | 31.9 | 22.8 | 13.6 | 4.4  |
|                        | 57      | 34.5                                 | 2.3                           | 34.5                    | 34.5 | 34.5 | 25.1 | 15.8 | 6.4  | 31.5                              | 2.7                           | 31.5                    | 31.5 | 31.5 | 22.3 | 13.2 | 4.0  |

**ZT102 (8.5 ton) first stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |     |                                   |                               |                         |      |      |      |      |     |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|-----|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|-----|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |     | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |     |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |     |                                   |                               | Return dry bulb (°F)    |      |      |      |      |     |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65  |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65  |
|                        |         | 115°F                                |                               |                         |      |      |      |      |     |                                   |                               | 125°F                   |      |      |      |      |     |
| 1000                   | 77      | 34.9                                 | 3.1                           | 25.6                    | 14.2 | 10.6 | -    | -    | -   | 30.5                              | 3.4                           | 28.1                    | 14.8 | 9.5  | -    | -    | -   |
|                        | 72      | 30.8                                 | 3.1                           | 26.2                    | 20.5 | 15.9 | 11.3 | -    | -   | 26.9                              | 3.5                           | 25.3                    | 19.1 | 14.6 | 10.1 | -    | -   |
|                        | 67      | 26.8                                 | 3.1                           | 26.8                    | 26.8 | 21.2 | 16.6 | 12.0 | -   | 23.3                              | 3.5                           | 23.3                    | 23.3 | 19.7 | 15.1 | 10.6 | -   |
|                        | 62      | 26.7                                 | 3.1                           | 26.7                    | 26.7 | 22.2 | 17.6 | 13.0 | 8.5 | 24.2                              | 3.4                           | 24.2                    | 24.2 | 20.4 | 15.9 | 11.4 | 6.9 |
| 1200                   | 77      | 35.5                                 | 3.1                           | 29.3                    | 18.3 | 11.6 | -    | -    | -   | 31.0                              | 3.5                           | 29.4                    | 18.6 | 10.3 | -    | -    | -   |
|                        | 72      | 31.4                                 | 3.1                           | 28.3                    | 22.8 | 17.3 | 11.8 | -    | -   | 27.4                              | 3.5                           | 26.6                    | 21.2 | 15.8 | 10.4 | -    | -   |
|                        | 67      | 27.2                                 | 3.1                           | 27.2                    | 27.2 | 23.0 | 17.5 | 12.0 | -   | 23.7                              | 3.5                           | 23.7                    | 23.7 | 21.2 | 15.8 | 10.4 | -   |
|                        | 62      | 27.1                                 | 3.1                           | 27.1                    | 27.1 | 24.1 | 18.6 | 13.1 | 7.6 | 24.5                              | 3.5                           | 24.5                    | 24.5 | 22.0 | 16.6 | 11.2 | 5.8 |
| 1400                   | 57      | 26.6                                 | 3.1                           | 26.6                    | 26.6 | 23.7 | 18.2 | 12.7 | 7.2 | 24.0                              | 3.5                           | 24.0                    | 24.0 | 21.6 | 16.2 | 10.8 | 5.4 |
|                        | 77      | 36.0                                 | 3.1                           | 32.9                    | 22.4 | 12.5 | -    | -    | -   | 31.5                              | 3.5                           | 30.7                    | 22.4 | 11.0 | -    | -    | -   |
|                        | 72      | 31.9                                 | 3.1                           | 30.3                    | 25.1 | 18.7 | 12.2 | -    | -   | 27.8                              | 3.5                           | 27.8                    | 23.2 | 16.9 | 10.6 | -    | -   |
|                        | 67      | 27.7                                 | 3.1                           | 27.7                    | 27.7 | 24.8 | 18.4 | 12.0 | -   | 24.1                              | 3.5                           | 24.1                    | 24.1 | 22.8 | 16.5 | 10.2 | -   |
| 1600                   | 62      | 27.5                                 | 3.1                           | 27.5                    | 27.5 | 26.0 | 19.6 | 13.2 | 6.8 | 24.9                              | 3.5                           | 24.9                    | 24.9 | 23.7 | 17.4 | 11.1 | 4.8 |
|                        | 57      | 27.0                                 | 3.1                           | 27.0                    | 27.0 | 25.6 | 19.2 | 12.8 | 6.4 | 24.4                              | 3.5                           | 24.4                    | 24.4 | 23.2 | 16.9 | 10.6 | 4.3 |
|                        | 77      | 36.6                                 | 3.1                           | 36.6                    | 26.6 | 13.4 | -    | -    | -   | 32.0                              | 3.5                           | 32.0                    | 26.1 | 11.8 | -    | -    | -   |
|                        | 72      | 32.4                                 | 3.1                           | 32.4                    | 27.4 | 20.0 | 12.7 | -    | -   | 28.3                              | 3.5                           | 28.3                    | 25.3 | 18.1 | 10.9 | -    | -   |
| 1800                   | 67      | 28.1                                 | 3.1                           | 28.1                    | 28.1 | 26.7 | 19.3 | 12.0 | -   | 24.5                              | 3.5                           | 24.5                    | 24.5 | 24.4 | 17.2 | 10.0 | -   |
|                        | 62      | 28.0                                 | 3.1                           | 28.0                    | 28.0 | 28.0 | 20.6 | 13.3 | 6.0 | 25.3                              | 3.5                           | 25.3                    | 25.3 | 25.3 | 18.1 | 10.9 | 3.7 |
|                        | 57      | 27.5                                 | 3.1                           | 27.5                    | 27.5 | 27.5 | 20.2 | 12.8 | 5.5 | 24.8                              | 3.5                           | 24.8                    | 24.8 | 24.8 | 17.6 | 10.4 | 3.2 |
|                        | 72      | 33.0                                 | 3.1                           | 33.0                    | 29.1 | 21.0 | 12.8 | -    | -   | 28.7                              | 3.5                           | 28.7                    | 26.4 | 18.4 | 10.4 | -    | -   |
| 2000                   | 67      | 28.6                                 | 3.1                           | 28.6                    | 28.6 | 27.9 | 19.8 | 11.6 | -   | 24.8                              | 3.5                           | 24.8                    | 24.8 | 24.8 | 16.8 | 8.8  | -   |
|                        | 62      | 28.5                                 | 3.1                           | 28.5                    | 28.5 | 28.5 | 20.3 | 12.2 | 4.0 | 25.7                              | 3.5                           | 25.7                    | 25.7 | 25.7 | 17.7 | 9.7  | 1.7 |
|                        | 57      | 28.0                                 | 3.1                           | 28.0                    | 28.0 | 28.0 | 19.8 | 11.7 | 3.5 | 25.1                              | 3.5                           | 25.1                    | 25.1 | 25.1 | 17.2 | 9.2  | 1.2 |
|                        | 72      | 33.6                                 | 3.1                           | 33.6                    | 30.9 | 21.9 | 12.9 | -    | -   | 29.1                              | 3.5                           | 29.1                    | 27.4 | 18.6 | 9.9  | -    | -   |
| 2000                   | 67      | 29.2                                 | 3.1                           | 29.2                    | 29.2 | 29.2 | 20.2 | 11.2 | -   | 25.2                              | 3.5                           | 25.2                    | 25.2 | 25.2 | 16.4 | 7.6  | -   |
|                        | 62      | 29.0                                 | 3.1                           | 29.0                    | 29.0 | 29.0 | 20.0 | 11.1 | 2.1 | 26.1                              | 3.5                           | 26.1                    | 26.1 | 26.1 | 17.3 | 8.5  | -   |
|                        | 57      | 28.5                                 | 3.1                           | 28.5                    | 28.5 | 28.5 | 19.5 | 10.5 | 1.6 | 25.5                              | 3.5                           | 25.5                    | 25.5 | 25.5 | 16.7 | 7.9  | -   |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT102 (8.5 ton) second stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 1500                   | 77      | 89.8                                 | 2.9                           | 41.9                    | 33.6 | 27.0 | -    | -    | -    | 88.4                              | 3.6                           | 39.8                    | 32.9 | 26.0 | -    | -    | -    |
|                        | 72      | 83.2                                 | 3.0                           | 50.1                    | 43.5 | 37.0 | 30.4 | -    | -    | 80.4                              | 3.7                           | 49.4                    | 42.6 | 35.7 | 28.8 | -    | -    |
|                        | 67      | 76.5                                 | 3.2                           | 58.2                    | 53.5 | 46.9 | 40.4 | 33.9 | -    | 72.5                              | 3.8                           | 59.1                    | 52.3 | 45.4 | 38.5 | 31.6 | -    |
|                        | 62      | 67.5                                 | 3.2                           | 67.5                    | 67.5 | 57.2 | 50.7 | 44.1 | 37.6 | 64.5                              | 3.8                           | 64.5                    | 64.5 | 54.7 | 47.8 | 40.9 | 34.1 |
| 1800                   | 77      | 94.2                                 | 2.9                           | 45.9                    | 38.0 | 30.0 | -    | -    | -    | 91.7                              | 3.6                           | 45.0                    | 36.8 | 28.6 | -    | -    | -    |
|                        | 72      | 87.2                                 | 3.0                           | 57.0                    | 49.0 | 41.0 | 33.1 | -    | -    | 83.4                              | 3.7                           | 55.6                    | 47.5 | 39.3 | 31.1 | -    | -    |
|                        | 67      | 80.2                                 | 3.1                           | 68.0                    | 60.0 | 52.1 | 44.1 | 36.1 | -    | 75.2                              | 3.7                           | 66.3                    | 58.1 | 49.9 | 41.8 | 33.6 | -    |
|                        | 62      | 70.7                                 | 3.2                           | 70.7                    | 70.7 | 63.5 | 55.5 | 47.5 | 39.6 | 66.9                              | 3.8                           | 66.9                    | 66.9 | 60.1 | 52.0 | 43.8 | 35.6 |
|                        | 57      | 65.3                                 | 3.2                           | 65.3                    | 65.3 | 59.6 | 51.7 | 43.7 | 35.7 | 64.5                              | 3.8                           | 64.5                    | 64.5 | 58.5 | 50.4 | 42.2 | 34.0 |
| 2100                   | 77      | 98.6                                 | 2.9                           | 50.0                    | 42.4 | 33.0 | -    | -    | -    | 95.0                              | 3.6                           | 50.2                    | 40.7 | 31.2 | -    | -    | -    |
|                        | 72      | 91.3                                 | 3.0                           | 63.9                    | 54.5 | 45.1 | 35.7 | -    | -    | 86.5                              | 3.6                           | 61.8                    | 52.4 | 42.9 | 33.4 | -    | -    |
|                        | 67      | 83.9                                 | 3.1                           | 77.8                    | 66.6 | 57.2 | 47.8 | 38.4 | -    | 77.9                              | 3.7                           | 73.5                    | 64.0 | 54.5 | 45.0 | 35.5 | -    |
|                        | 62      | 74.0                                 | 3.2                           | 74.0                    | 74.0 | 69.7 | 60.3 | 50.9 | 41.5 | 69.3                              | 3.8                           | 69.3                    | 69.3 | 65.6 | 56.1 | 46.7 | 37.2 |
|                        | 57      | 68.4                                 | 3.2                           | 68.4                    | 68.4 | 65.6 | 56.1 | 46.7 | 37.3 | 66.9                              | 3.8                           | 66.9                    | 66.9 | 63.9 | 54.4 | 44.9 | 35.4 |
| 2400                   | 77      | 103.1                                | 2.9                           | 54.1                    | 46.8 | 35.9 | -    | -    | -    | 98.3                              | 3.6                           | 55.4                    | 44.6 | 33.9 | -    | -    | -    |
|                        | 72      | 95.3                                 | 3.0                           | 70.8                    | 60.0 | 49.1 | 38.3 | -    | -    | 89.5                              | 3.6                           | 68.0                    | 57.2 | 46.4 | 35.7 | -    | -    |
|                        | 67      | 87.6                                 | 3.1                           | 87.6                    | 73.2 | 62.4 | 51.5 | 40.7 | -    | 80.7                              | 3.7                           | 80.6                    | 69.8 | 59.0 | 48.2 | 37.5 | -    |
|                        | 62      | 77.3                                 | 3.1                           | 77.3                    | 77.3 | 76.0 | 65.2 | 54.3 | 43.5 | 71.8                              | 3.8                           | 71.8                    | 71.8 | 71.1 | 60.3 | 49.5 | 38.7 |
|                        | 57      | 71.5                                 | 3.2                           | 71.5                    | 71.5 | 71.5 | 60.6 | 49.8 | 39.0 | 69.2                              | 3.8                           | 69.2                    | 69.2 | 69.2 | 58.4 | 47.6 | 36.8 |
| 2700                   | 72      | 96.8                                 | 3.0                           | 76.0                    | 64.0 | 52.0 | 40.0 | -    | -    | 91.1                              | 3.6                           | 73.5                    | 61.5 | 49.6 | 37.6 | -    | -    |
|                        | 67      | 89.0                                 | 3.1                           | 89.0                    | 78.3 | 66.0 | 54.0 | 42.0 | -    | 82.1                              | 3.7                           | 82.1                    | 75.0 | 63.0 | 51.0 | 39.0 | -    |
|                        | 62      | 78.5                                 | 3.1                           | 78.5                    | 78.5 | 77.9 | 65.9 | 53.9 | 41.9 | 73.1                              | 3.7                           | 73.1                    | 73.1 | 72.7 | 60.8 | 48.8 | 36.8 |
|                        | 57      | 72.6                                 | 3.2                           | 72.6                    | 72.6 | 72.6 | 60.6 | 48.6 | 36.6 | 70.5                              | 3.8                           | 70.5                    | 70.5 | 70.5 | 58.5 | 46.5 | 34.5 |
| 3000                   | 72      | 98.3                                 | 2.9                           | 81.2                    | 68.0 | 54.9 | 41.7 | -    | -    | 92.7                              | 3.6                           | 79.0                    | 65.8 | 52.7 | 39.5 | -    | -    |
|                        | 67      | 90.4                                 | 3.0                           | 90.4                    | 83.5 | 69.6 | 56.5 | 43.3 | -    | 83.6                              | 3.7                           | 83.6                    | 80.1 | 66.9 | 53.8 | 40.6 | -    |
|                        | 62      | 79.7                                 | 3.1                           | 79.7                    | 79.7 | 79.7 | 66.6 | 53.4 | 40.3 | 74.3                              | 3.7                           | 74.3                    | 74.3 | 74.3 | 61.2 | 48.0 | 34.9 |
|                        | 57      | 73.7                                 | 3.1                           | 73.7                    | 73.7 | 73.7 | 60.5 | 47.4 | 34.2 | 71.7                              | 3.7                           | 71.7                    | 71.7 | 71.7 | 58.5 | 45.4 | 32.2 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 105°F                   |      |      |      |      |      |
| 1500                   | 77      | 86.9                                 | 4.3                           | 37.7                    | 32.2 | 25.0 | -    | -    | -    | 80.1                              | 5.1                           | 33.8                    | 29.9 | 22.8 | -    | -    | -    |
|                        | 72      | 77.7                                 | 4.3                           | 48.8                    | 41.6 | 34.4 | 27.2 | -    | -    | 71.7                              | 5.1                           | 46.3                    | 39.2 | 32.1 | 25.0 | -    | -    |
|                        | 67      | 68.4                                 | 4.4                           | 60.0                    | 51.0 | 43.8 | 36.6 | 29.4 | -    | 63.3                              | 5.1                           | 58.7                    | 48.4 | 41.3 | 34.2 | 27.1 | -    |
|                        | 62      | 61.5                                 | 4.4                           | 61.5                    | 61.5 | 52.1 | 44.9 | 37.7 | 30.5 | 57.8                              | 5.2                           | 57.8                    | 57.8 | 48.5 | 41.4 | 34.3 | 27.2 |
| 1800                   | 77      | 89.1                                 | 4.3                           | 44.0                    | 35.7 | 27.3 | -    | -    | -    | 81.9                              | 5.1                           | 41.6                    | 33.3 | 24.9 | -    | -    | -    |
|                        | 72      | 79.7                                 | 4.3                           | 54.3                    | 45.9 | 37.5 | 29.1 | -    | -    | 73.4                              | 5.1                           | 51.6                    | 43.3 | 35.0 | 26.7 | -    | -    |
|                        | 67      | 70.2                                 | 4.3                           | 64.6                    | 56.2 | 47.8 | 39.4 | 31.0 | -    | 64.8                              | 5.1                           | 61.7                    | 53.4 | 45.1 | 36.8 | 28.5 | -    |
|                        | 62      | 63.1                                 | 4.4                           | 63.1                    | 63.1 | 56.8 | 48.4 | 40.0 | 31.7 | 59.1                              | 5.2                           | 59.1                    | 59.1 | 52.9 | 44.6 | 36.3 | 28.0 |
|                        | 57      | 63.8                                 | 4.4                           | 63.8                    | 63.8 | 57.5 | 49.1 | 40.7 | 32.3 | 59.3                              | 5.1                           | 59.3                    | 59.3 | 53.1 | 44.8 | 36.5 | 28.2 |
| 2100                   | 77      | 91.4                                 | 4.2                           | 50.4                    | 39.1 | 29.5 | -    | -    | -    | 83.8                              | 5.0                           | 49.3                    | 36.6 | 27.0 | -    | -    | -    |
|                        | 72      | 81.7                                 | 4.3                           | 59.8                    | 50.2 | 40.6 | 31.1 | -    | -    | 75.0                              | 5.1                           | 57.0                    | 47.5 | 38.0 | 28.4 | -    | -    |
|                        | 67      | 71.9                                 | 4.3                           | 69.1                    | 61.3 | 51.8 | 42.2 | 32.6 | -    | 66.3                              | 5.1                           | 64.7                    | 58.4 | 48.9 | 39.3 | 29.8 | -    |
|                        | 62      | 64.7                                 | 4.4                           | 64.7                    | 64.7 | 61.5 | 52.0 | 42.4 | 32.8 | 60.5                              | 5.1                           | 60.5                    | 60.5 | 57.4 | 47.9 | 38.3 | 28.8 |
|                        | 57      | 65.4                                 | 4.4                           | 65.4                    | 65.4 | 62.2 | 52.6 | 43.1 | 33.5 | 60.7                              | 5.1                           | 60.7                    | 60.7 | 57.6 | 48.1 | 38.6 | 29.0 |
| 2400                   | 77      | 93.6                                 | 4.2                           | 56.8                    | 42.5 | 31.8 | -    | -    | -    | 85.7                              | 5.0                           | 57.0                    | 39.9 | 29.1 | -    | -    | -    |
|                        | 72      | 83.6                                 | 4.3                           | 65.3                    | 54.5 | 43.7 | 33.0 | -    | -    | 76.7                              | 5.0                           | 62.4                    | 51.6 | 40.9 | 30.2 | -    | -    |
|                        | 67      | 73.7                                 | 4.3                           | 73.7                    | 66.5 | 55.7 | 45.0 | 34.2 | -    | 67.7                              | 5.1                           | 67.7                    | 63.4 | 52.7 | 41.9 | 31.2 | -    |
|                        | 62      | 66.2                                 | 4.4                           | 66.2                    | 66.2 | 66.2 | 55.5 | 44.7 | 34.0 | 61.8                              | 5.1                           | 61.8                    | 61.8 | 61.8 | 51.1 | 40.4 | 29.6 |
|                        | 57      | 67.0                                 | 4.4                           | 67.0                    | 67.0 | 67.0 | 56.2 | 45.5 | 34.7 | 62.1                              | 5.1                           | 62.1                    | 62.1 | 62.1 | 51.3 | 40.6 | 29.9 |
| 2700                   | 72      | 85.4                                 | 4.3                           | 71.0                    | 59.0 | 47.1 | 35.1 | -    | -    | 78.2                              | 5.0                           | 68.0                    | 56.0 | 44.1 | 32.1 | -    | -    |
|                        | 67      | 75.2                                 | 4.3                           | 75.2                    | 71.6 | 60.0 | 48.0 | 36.0 | -    | 69.0                              | 5.1                           | 69.0                    | 66.8 | 56.7 | 44.8 | 32.9 | -    |
|                        | 62      | 67.6                                 | 4.4                           | 67.6                    | 67.6 | 67.6 | 55.6 | 43.7 | 31.7 | 63.0                              | 5.1                           | 63.0                    | 63.0 | 63.0 | 51.0 | 39.1 | 27.2 |
|                        | 57      | 68.3                                 | 4.4                           | 68.3                    | 68.3 | 68.3 | 56.4 | 44.4 | 32.5 | 63.2                              | 5.1                           | 63.2                    | 63.2 | 63.2 | 51.3 | 39.3 | 27.4 |
| 3000                   | 72      | 87.1                                 | 4.3                           | 76.8                    | 63.6 | 50.4 | 37.3 | -    | -    | 79.6                              | 5.0                           | 73.5                    | 60.4 | 47.2 | 34.1 | -    | -    |
|                        | 67      | 76.7                                 | 4.3                           | 76.7                    | 76.7 | 64.2 | 51.1 | 37.9 | -    | 70.3                              | 5.1                           | 70.3                    | 70.3 | 60.8 | 47.7 | 34.5 | -    |
|                        | 62      | 69.0                                 | 4.4                           | 69.0                    | 69.0 | 69.0 | 55.8 | 42.6 | 29.5 | 64.1                              | 5.1                           | 64.1                    | 64.1 | 64.1 | 51.0 | 37.8 | 24.7 |
|                        | 57      | 69.7                                 | 4.3                           | 69.7                    | 69.7 | 69.7 | 56.6 | 43.4 | 30.2 | 64.4                              | 5.1                           | 64.4                    | 64.4 | 64.4 | 51.2 | 38.1 | 24.9 |

**ZT102 (8.5 ton) second stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      | 125°F                             |                               |                         |      |      |      |      |      |
| 1500                   | 77      | 73.2                                 | 5.9                           | 30.0                    | 27.7 | 20.7 | -    | -    | -    | 66.3                              | 6.7                           | 29.3                    | 24.7 | 18.5 | -    | -    | -    |
|                        | 72      | 65.6                                 | 5.9                           | 43.7                    | 36.7 | 29.7 | 22.7 | -    | -    | 59.6                              | 6.7                           | 41.1                    | 34.2 | 27.3 | 20.5 | -    | -    |
|                        | 67      | 58.1                                 | 5.9                           | 57.4                    | 45.7 | 38.7 | 31.7 | 24.7 | -    | 52.9                              | 6.7                           | 52.9                    | 43.1 | 36.2 | 29.3 | 22.4 | -    |
|                        | 62      | 54.0                                 | 5.9                           | 54.0                    | 54.0 | 44.8 | 37.8 | 30.8 | 23.8 | 50.3                              | 6.7                           | 50.3                    | 50.3 | 41.2 | 34.3 | 27.4 | 20.5 |
| 1800                   | 77      | 74.7                                 | 5.9                           | 39.1                    | 30.9 | 22.6 | -    | -    | -    | 67.5                              | 6.7                           | 38.7                    | 28.4 | 20.3 | -    | -    | -    |
|                        | 72      | 67.0                                 | 5.9                           | 49.0                    | 40.7 | 32.5 | 24.2 | -    | -    | 60.7                              | 6.7                           | 46.3                    | 38.1 | 30.0 | 21.8 | -    | -    |
|                        | 67      | 59.3                                 | 5.9                           | 58.8                    | 50.6 | 42.4 | 34.1 | 25.9 | -    | 53.9                              | 6.7                           | 53.9                    | 47.8 | 39.6 | 31.5 | 23.3 | -    |
|                        | 62      | 55.2                                 | 5.9                           | 55.2                    | 55.2 | 49.0 | 40.8 | 32.6 | 24.3 | 51.2                              | 6.7                           | 51.2                    | 51.2 | 45.2 | 37.0 | 28.8 | 20.7 |
|                        | 57      | 54.9                                 | 5.9                           | 54.9                    | 54.9 | 48.8 | 40.6 | 32.3 | 24.1 | 50.5                              | 6.6                           | 50.5                    | 50.5 | 44.5 | 36.3 | 28.2 | 20.0 |
| 2100                   | 77      | 76.3                                 | 5.8                           | 48.2                    | 34.0 | 24.5 | -    | -    | -    | 68.8                              | 6.7                           | 48.0                    | 32.2 | 22.1 | -    | -    | -    |
|                        | 72      | 68.4                                 | 5.9                           | 54.2                    | 44.8 | 35.3 | 25.8 | -    | -    | 61.8                              | 6.6                           | 51.5                    | 42.0 | 32.6 | 23.1 | -    | -    |
|                        | 67      | 60.6                                 | 5.9                           | 60.3                    | 55.5 | 46.0 | 36.5 | 27.0 | -    | 54.9                              | 6.6                           | 54.9                    | 52.5 | 43.1 | 33.7 | 24.2 | -    |
|                        | 62      | 56.3                                 | 5.9                           | 56.3                    | 56.3 | 53.2 | 43.8 | 34.3 | 24.8 | 52.1                              | 6.7                           | 52.1                    | 52.1 | 49.1 | 39.7 | 30.2 | 20.8 |
|                        | 57      | 56.0                                 | 5.9                           | 56.0                    | 56.0 | 53.0 | 43.5 | 34.0 | 24.6 | 51.4                              | 6.6                           | 51.4                    | 51.4 | 48.4 | 39.0 | 29.5 | 20.1 |
| 2400                   | 77      | 77.8                                 | 5.8                           | 57.2                    | 37.2 | 26.5 | -    | -    | -    | 70.0                              | 6.6                           | 57.4                    | 36.0 | 23.8 | -    | -    | -    |
|                        | 72      | 69.8                                 | 5.8                           | 59.5                    | 48.8 | 38.1 | 27.3 | -    | -    | 62.9                              | 6.6                           | 56.6                    | 45.9 | 35.2 | 24.5 | -    | -    |
|                        | 67      | 61.8                                 | 5.8                           | 61.8                    | 60.3 | 49.6 | 38.9 | 28.2 | -    | 55.8                              | 6.6                           | 55.8                    | 55.8 | 46.6 | 35.9 | 25.1 | -    |
|                        | 62      | 57.4                                 | 5.9                           | 57.4                    | 57.4 | 57.4 | 46.7 | 36.0 | 25.3 | 53.0                              | 6.6                           | 53.0                    | 53.0 | 53.0 | 42.3 | 31.6 | 20.9 |
|                        | 57      | 57.2                                 | 5.8                           | 57.2                    | 57.2 | 57.2 | 46.5 | 35.7 | 25.0 | 52.3                              | 6.6                           | 52.3                    | 52.3 | 52.3 | 41.6 | 30.9 | 20.2 |
| 2700                   | 72      | 71.0                                 | 5.8                           | 64.9                    | 53.0 | 41.0 | 29.1 | -    | -    | 63.8                              | 6.6                           | 61.9                    | 49.9 | 38.0 | 26.1 | -    | -    |
|                        | 67      | 62.8                                 | 5.8                           | 62.8                    | 62.1 | 53.5 | 41.6 | 29.7 | -    | 56.6                              | 6.6                           | 56.6                    | 56.6 | 50.3 | 38.4 | 26.5 | -    |
|                        | 62      | 58.4                                 | 5.9                           | 58.4                    | 58.4 | 58.4 | 46.5 | 34.5 | 22.6 | 53.8                              | 6.6                           | 53.8                    | 53.8 | 53.8 | 41.9 | 29.9 | 18.0 |
|                        | 57      | 58.1                                 | 5.8                           | 58.1                    | 58.1 | 58.1 | 46.2 | 34.3 | 22.3 | 53.0                              | 6.6                           | 53.0                    | 53.0 | 53.0 | 41.1 | 29.2 | 17.3 |
| 3000                   | 72      | 72.1                                 | 5.8                           | 70.3                    | 57.2 | 44.0 | 30.9 | -    | -    | 64.6                              | 6.6                           | 64.6                    | 54.0 | 40.8 | 27.7 | -    | -    |
|                        | 67      | 63.8                                 | 5.8                           | 63.8                    | 63.8 | 57.4 | 44.3 | 31.2 | -    | 57.4                              | 6.6                           | 57.4                    | 57.4 | 54.0 | 40.9 | 27.8 | -    |
|                        | 62      | 59.3                                 | 5.9                           | 59.3                    | 59.3 | 59.3 | 46.2 | 33.1 | 19.9 | 54.5                              | 6.6                           | 54.5                    | 54.5 | 54.5 | 41.4 | 28.3 | 15.1 |
|                        | 57      | 59.1                                 | 5.8                           | 59.1                    | 59.1 | 59.1 | 45.9 | 32.8 | 19.6 | 53.7                              | 6.6                           | 53.7                    | 53.7 | 53.7 | 40.6 | 27.5 | 14.4 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT102 (8.5 ton) third stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |      |      |      |                                   |                               |                         |       |       |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |      |      |      |                                   |                               | Return dry bulb (°F)    |       |       |      |      |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75   | 70   | 65   |                                   |                               | 90                      | 85    | 80    | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |       |       |      |      |      |                                   |                               | 85°F                    |       |       |      |      |      |
| 2125                   | 77      | 128.1                                | 5.0                           | 58.8                    | 48.3  | 38.9  | -    | -    | -    | 124.1                             | 5.7                           | 55.6                    | 46.0  | 36.3  | -    | -    | -    |
|                        | 72      | 119.5                                | 4.9                           | 72.7                    | 63.3  | 53.9  | 44.5 | -    | -    | 114.7                             | 5.7                           | 70.3                    | 60.6  | 51.0  | 41.3 | -    | -    |
|                        | 67      | 111.0                                | 4.9                           | 86.6                    | 78.2  | 68.8  | 59.4 | 50.0 | -    | 105.3                             | 5.6                           | 84.9                    | 75.3  | 65.6  | 56.0 | 46.3 | -    |
|                        | 62      | 102.4                                | 4.7                           | 102.4                   | 102.4 | 86.1  | 76.7 | 67.3 | 57.9 | 95.8                              | 5.5                           | 95.8                    | 95.8  | 80.2  | 70.5 | 60.9 | 51.2 |
| 2550                   | 77      | 132.9                                | 5.1                           | 65.0                    | 53.7  | 42.3  | -    | -    | -    | 127.9                             | 5.8                           | 62.3                    | 51.0  | 39.6  | -    | -    | -    |
|                        | 72      | 124.0                                | 5.0                           | 81.3                    | 69.9  | 58.5  | 47.1 | -    | -    | 118.3                             | 5.7                           | 78.3                    | 66.9  | 55.6  | 44.2 | -    | -    |
|                        | 67      | 115.1                                | 4.9                           | 97.5                    | 86.1  | 74.7  | 63.4 | 52.0 | -    | 108.6                             | 5.6                           | 94.3                    | 82.9  | 71.6  | 60.2 | 48.8 | -    |
|                        | 62      | 106.2                                | 4.8                           | 106.2                   | 106.2 | 93.5  | 82.1 | 70.8 | 59.4 | 98.8                              | 5.5                           | 98.8                    | 98.8  | 87.4  | 76.1 | 64.7 | 53.3 |
|                        | 57      | 102.0                                | 4.8                           | 102.0                   | 102.0 | 94.3  | 83.0 | 71.6 | 60.2 | 97.2                              | 5.5                           | 97.2                    | 97.2  | 88.4  | 77.0 | 65.6 | 54.3 |
| 2975                   | 77      | 137.7                                | 5.1                           | 71.2                    | 59.0  | 45.6  | -    | -    | -    | 131.8                             | 5.8                           | 69.1                    | 56.0  | 42.9  | -    | -    | -    |
|                        | 72      | 128.4                                | 5.0                           | 89.8                    | 76.5  | 63.1  | 49.8 | -    | -    | 121.8                             | 5.7                           | 86.4                    | 73.3  | 60.2  | 47.1 | -    | -    |
|                        | 67      | 119.2                                | 5.0                           | 108.4                   | 94.0  | 80.6  | 67.3 | 54.0 | -    | 111.8                             | 5.6                           | 103.7                   | 90.6  | 77.5  | 64.4 | 51.3 | -    |
|                        | 62      | 110.0                                | 4.8                           | 110.0                   | 110.0 | 100.9 | 87.6 | 74.3 | 60.9 | 101.7                             | 5.5                           | 101.7                   | 101.7 | 94.7  | 81.6 | 68.5 | 55.4 |
| 3400                   | 57      | 105.6                                | 4.8                           | 105.6                   | 105.6 | 101.8 | 88.5 | 75.1 | 61.8 | 100.1                             | 5.5                           | 100.1                   | 100.1 | 95.7  | 82.6 | 69.5 | 56.4 |
|                        | 77      | 142.4                                | 5.2                           | 77.4                    | 64.3  | 49.0  | -    | -    | -    | 135.6                             | 5.8                           | 75.8                    | 61.0  | 46.2  | -    | -    | -    |
|                        | 72      | 132.9                                | 5.1                           | 98.4                    | 83.1  | 67.8  | 52.5 | -    | -    | 125.3                             | 5.7                           | 94.4                    | 79.6  | 64.8  | 50.0 | -    | -    |
|                        | 67      | 123.4                                | 5.0                           | 119.3                   | 101.9 | 86.5  | 71.2 | 55.9 | -    | 115.1                             | 5.6                           | 113.1                   | 98.2  | 83.4  | 68.6 | 53.8 | -    |
|                        | 62      | 113.8                                | 4.9                           | 113.8                   | 113.8 | 108.3 | 93.0 | 77.7 | 62.4 | 104.7                             | 5.6                           | 104.7                   | 104.7 | 101.9 | 87.1 | 72.3 | 57.5 |
| 3825                   | 57      | 109.3                                | 4.9                           | 109.3                   | 109.3 | 109.3 | 94.0 | 78.7 | 63.4 | 103.0                             | 5.5                           | 103.0                   | 103.0 | 103.0 | 88.2 | 73.4 | 58.6 |
|                        | 72      | 133.1                                | 5.2                           | 103.6                   | 87.4  | 71.3  | 55.1 | -    | -    | 126.6                             | 5.8                           | 100.5                   | 84.6  | 68.6  | 52.7 | -    | -    |
|                        | 67      | 123.6                                | 5.1                           | 121.6                   | 107.2 | 91.0  | 74.9 | 58.7 | -    | 116.3                             | 5.7                           | 115.3                   | 104.3 | 88.3  | 72.4 | 56.4 | -    |
|                        | 62      | 114.0                                | 5.0                           | 114.0                   | 114.0 | 111.3 | 95.1 | 79.0 | 62.8 | 105.7                             | 5.6                           | 105.7                   | 105.7 | 104.4 | 88.4 | 72.5 | 56.5 |
|                        | 57      | 109.5                                | 5.0                           | 109.5                   | 109.5 | 109.5 | 93.3 | 77.2 | 61.0 | 104.1                             | 5.6                           | 104.1                   | 104.1 | 104.1 | 88.1 | 72.2 | 56.2 |
| 4250                   | 72      | 133.3                                | 5.3                           | 108.8                   | 91.8  | 74.8  | 57.8 | -    | -    | 127.9                             | 5.8                           | 106.6                   | 89.5  | 72.4  | 55.3 | -    | -    |
|                        | 67      | 123.8                                | 5.2                           | 123.8                   | 112.5 | 95.5  | 78.5 | 61.5 | -    | 117.5                             | 5.7                           | 117.5                   | 110.3 | 93.3  | 76.2 | 59.1 | -    |
|                        | 62      | 114.3                                | 5.1                           | 114.3                   | 114.3 | 114.3 | 97.2 | 80.2 | 63.2 | 106.8                             | 5.6                           | 106.8                   | 106.8 | 106.8 | 89.7 | 72.6 | 55.6 |
|                        | 57      | 109.7                                | 5.1                           | 109.7                   | 109.7 | 109.7 | 92.6 | 75.6 | 58.6 | 105.2                             | 5.6                           | 105.2                   | 105.2 | 105.2 | 88.1 | 71.0 | 53.9 |
|                        |         | 95°F                                 |                               |                         |       |       |      |      |      |                                   |                               | 105°F                   |       |       |      |      |      |
| 2125                   | 77      | 120.1                                | 6.5                           | 52.4                    | 43.6  | 33.7  | -    | -    | -    | 113.8                             | 7.3                           | 47.8                    | 41.3  | 31.4  | -    | -    | -    |
|                        | 72      | 109.9                                | 6.4                           | 67.8                    | 57.9  | 48.0  | 38.2 | -    | -    | 103.8                             | 7.2                           | 65.1                    | 55.2  | 45.4  | 35.6 | -    | -    |
|                        | 67      | 99.7                                 | 6.3                           | 83.3                    | 72.3  | 62.4  | 52.5 | 42.6 | -    | 93.7                              | 7.1                           | 82.3                    | 69.2  | 59.4  | 49.6 | 39.7 | -    |
|                        | 62      | 89.2                                 | 6.2                           | 89.2                    | 89.2  | 74.2  | 64.3 | 54.5 | 44.6 | 84.3                              | 7.0                           | 84.3                    | 84.3  | 69.1  | 59.3 | 49.5 | 39.6 |
| 2550                   | 77      | 123.0                                | 6.5                           | 59.6                    | 48.3  | 36.9  | -    | -    | -    | 116.0                             | 7.3                           | 57.2                    | 45.9  | 34.5  | -    | -    | -    |
|                        | 72      | 112.5                                | 6.4                           | 75.4                    | 64.0  | 52.6  | 41.3 | -    | -    | 105.8                             | 7.2                           | 72.6                    | 61.2  | 49.8  | 38.4 | -    | -    |
|                        | 67      | 102.1                                | 6.3                           | 91.1                    | 79.7  | 68.4  | 57.0 | 45.6 | -    | 95.6                              | 7.1                           | 87.9                    | 76.5  | 65.1  | 53.8 | 42.4 | -    |
|                        | 62      | 91.3                                 | 6.2                           | 91.3                    | 91.3  | 81.3  | 70.0 | 58.6 | 47.2 | 85.9                              | 7.1                           | 85.9                    | 85.9  | 75.8  | 64.4 | 53.0 | 41.6 |
|                        | 57      | 92.5                                 | 6.2                           | 92.5                    | 92.5  | 82.4  | 71.0 | 59.6 | 48.3 | 87.3                              | 7.0                           | 87.3                    | 87.3  | 77.0  | 65.6 | 54.2 | 42.8 |
| 2975                   | 77      | 125.9                                | 6.5                           | 66.9                    | 53.0  | 40.1  | -    | -    | -    | 118.2                             | 7.3                           | 66.7                    | 50.5  | 37.5  | -    | -    | -    |
|                        | 72      | 115.2                                | 6.4                           | 82.9                    | 70.1  | 57.2  | 44.4 | -    | -    | 107.8                             | 7.2                           | 80.1                    | 67.2  | 54.2  | 41.3 | -    | -    |
|                        | 67      | 104.4                                | 6.3                           | 99.0                    | 87.2  | 74.3  | 61.5 | 48.7 | -    | 97.4                              | 7.1                           | 93.5                    | 83.8  | 70.9  | 57.9 | 45.0 | -    |
|                        | 62      | 93.4                                 | 6.2                           | 93.4                    | 93.4  | 88.4  | 75.6 | 62.7 | 49.9 | 87.6                              | 7.1                           | 87.6                    | 87.6  | 82.5  | 69.5 | 56.6 | 43.6 |
|                        | 57      | 94.6                                 | 6.2                           | 94.6                    | 94.6  | 89.6  | 76.7 | 63.9 | 51.0 | 89.0                              | 7.0                           | 89.0                    | 89.0  | 83.8  | 70.9 | 57.9 | 45.0 |
| 3400                   | 77      | 128.7                                | 6.5                           | 74.2                    | 57.7  | 43.3  | -    | -    | -    | 120.4                             | 7.3                           | 76.1                    | 55.1  | 40.6  | -    | -    | -    |
|                        | 72      | 117.8                                | 6.4                           | 90.5                    | 76.2  | 61.8  | 47.5 | -    | -    | 109.8                             | 7.2                           | 87.6                    | 73.1  | 58.6  | 44.1 | -    | -    |
|                        | 67      | 106.8                                | 6.3                           | 106.8                   | 94.6  | 80.3  | 66.0 | 51.7 | -    | 99.2                              | 7.1                           | 99.2                    | 91.2  | 76.6  | 62.1 | 47.6 | -    |
|                        | 62      | 95.5                                 | 6.2                           | 95.5                    | 95.5  | 95.5  | 81.2 | 66.9 | 52.6 | 89.2                              | 7.1                           | 89.2                    | 89.2  | 89.2  | 74.7 | 60.2 | 45.7 |
|                        | 57      | 96.8                                 | 6.2                           | 96.8                    | 96.8  | 96.8  | 82.4 | 68.1 | 53.8 | 90.6                              | 7.1                           | 90.6                    | 90.6  | 90.6  | 76.1 | 61.6 | 47.1 |
| 3825                   | 72      | 120.1                                | 6.3                           | 97.4                    | 81.7  | 65.9  | 50.2 | -    | -    | 111.5                             | 7.2                           | 94.2                    | 78.3  | 62.5  | 46.7 | -    | -    |
|                        | 67      | 109.0                                | 6.2                           | 109.0                   | 101.4 | 85.7  | 69.9 | 54.2 | -    | 100.7                             | 7.1                           | 100.7                   | 96.0  | 81.7  | 65.9 | 50.0 | -    |
|                        | 62      | 97.5                                 | 6.2                           | 97.5                    | 97.5  | 97.5  | 81.7 | 66.0 | 50.2 | 90.6                              | 7.1                           | 90.6                    | 90.6  | 90.6  | 74.7 | 58.9 | 43.1 |
|                        | 57      | 98.7                                 | 6.1                           | 98.7                    | 98.7  | 98.7  | 83.0 | 67.2 | 51.5 | 92.0                              | 7.0                           | 92.0                    | 92.0  | 92.0  | 76.2 | 60.3 | 44.5 |
| 4250                   | 72      | 122.5                                | 6.3                           | 104.4                   | 87.2  | 70.0  | 52.9 | -    | -    | 113.2                             | 7.2                           | 100.7                   | 83.5  | 66.4  | 49.2 | -    | -    |
|                        | 67      | 111.1                                | 6.2                           | 111.1                   | 108.2 | 91.0  | 73.8 | 56.7 | -    | 102.3                             | 7.1                           | 102.3                   | 100.8 | 86.8  | 69.6 | 52.5 | -    |
|                        | 62      | 99.4                                 | 6.1                           | 99.4                    | 99.4  | 99.4  | 82.2 | 65.1 | 47.9 | 92.0                              | 7.0                           | 92.0                    | 92.0  | 92.0  | 74.8 | 57.6 | 40.5 |
|                        | 57      | 100.7                                | 6.1                           | 100.7                   | 100.7 | 100.7 | 83.5 | 66.3 | 49.2 | 93.4                              | 7.0                           | 93.4                    | 93.4  | 93.4  | 76.3 | 59.1 | 41.9 |

## ZT102 (8.5 ton) third stage cooling (continued)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      | 125°F                             |                               |                         |      |      |      |      |      |
| 2125                   | 77      | 107.5                                | 8.1                           | 43.3                    | 38.9 | 29.2 | -    | -    | -    | 101.1                             | 8.9                           | 38.8                    | 36.5 | 26.9 | -    | -    | -    |
|                        | 72      | 97.6                                 | 8.0                           | 62.3                    | 52.5 | 42.8 | 33.0 | -    | -    | 91.5                              | 8.8                           | 59.5                    | 49.8 | 40.1 | 30.4 | -    | -    |
|                        | 67      | 87.8                                 | 7.9                           | 81.3                    | 66.1 | 56.4 | 46.6 | 36.8 | -    | 81.9                              | 8.8                           | 80.3                    | 63.0 | 53.3 | 43.6 | 34.0 | -    |
|                        | 62      | 79.5                                 | 7.9                           | 79.5                    | 79.5 | 64.0 | 54.2 | 44.5 | 34.7 | 74.6                              | 8.7                           | 74.6                    | 74.6 | 58.9 | 49.2 | 39.5 | 29.8 |
| 2550                   | 77      | 109.0                                | 8.1                           | 54.9                    | 43.5 | 32.1 | -    | -    | -    | 102.0                             | 8.9                           | 52.5                    | 41.1 | 29.6 | -    | -    | -    |
|                        | 72      | 99.0                                 | 8.0                           | 69.8                    | 58.4 | 47.0 | 35.6 | -    | -    | 92.3                              | 8.9                           | 67.0                    | 55.6 | 44.1 | 32.7 | -    | -    |
|                        | 67      | 89.1                                 | 8.0                           | 84.7                    | 73.3 | 61.9 | 50.5 | 39.1 | -    | 82.6                              | 8.8                           | 81.5                    | 70.1 | 58.7 | 47.2 | 35.8 | -    |
|                        | 62      | 80.6                                 | 7.9                           | 80.6                    | 80.6 | 70.3 | 58.9 | 47.5 | 36.1 | 75.2                              | 8.7                           | 75.2                    | 75.2 | 64.7 | 53.3 | 41.9 | 30.5 |
|                        | 57      | 82.1                                 | 7.9                           | 82.1                    | 82.1 | 71.6 | 60.2 | 48.8 | 37.4 | 77.0                              | 8.7                           | 77.0                    | 77.0 | 66.3 | 54.8 | 43.4 | 32.0 |
| 2975                   | 77      | 110.5                                | 8.1                           | 66.4                    | 48.0 | 34.9 | -    | -    | -    | 102.8                             | 9.0                           | 66.2                    | 45.6 | 32.3 | -    | -    | -    |
|                        | 72      | 100.4                                | 8.1                           | 77.3                    | 64.2 | 51.2 | 38.1 | -    | -    | 93.0                              | 8.9                           | 74.5                    | 61.3 | 48.2 | 35.0 | -    | -    |
|                        | 67      | 90.3                                 | 8.0                           | 88.1                    | 80.5 | 67.4 | 54.4 | 41.3 | -    | 83.2                              | 8.8                           | 82.7                    | 77.1 | 64.0 | 50.8 | 37.7 | -    |
|                        | 62      | 81.7                                 | 7.9                           | 81.7                    | 81.7 | 76.6 | 63.5 | 50.5 | 37.4 | 75.9                              | 8.7                           | 75.9                    | 75.9 | 70.6 | 57.5 | 44.3 | 31.1 |
|                        | 57      | 83.3                                 | 7.9                           | 83.3                    | 83.3 | 78.0 | 65.0 | 51.9 | 38.9 | 77.6                              | 8.7                           | 77.6                    | 77.6 | 72.3 | 59.1 | 46.0 | 32.8 |
| 3400                   | 77      | 112.1                                | 8.1                           | 78.0                    | 52.5 | 37.8 | -    | -    | -    | 103.7                             | 9.0                           | 80.0                    | 50.2 | 35.0 | -    | -    | -    |
|                        | 72      | 101.8                                | 8.1                           | 84.8                    | 70.1 | 55.4 | 40.7 | -    | -    | 93.8                              | 8.9                           | 81.9                    | 67.0 | 52.2 | 37.3 | -    | -    |
|                        | 67      | 91.6                                 | 8.0                           | 91.6                    | 87.7 | 73.0 | 58.3 | 43.6 | -    | 83.9                              | 8.9                           | 83.9                    | 83.9 | 69.3 | 54.4 | 39.5 | -    |
|                        | 62      | 82.8                                 | 7.9                           | 82.8                    | 82.8 | 82.8 | 68.1 | 53.4 | 38.7 | 76.5                              | 8.7                           | 76.5                    | 76.5 | 76.5 | 61.6 | 46.7 | 31.8 |
|                        | 57      | 84.4                                 | 7.9                           | 84.4                    | 84.4 | 84.4 | 69.7 | 55.0 | 40.3 | 78.3                              | 8.7                           | 78.3                    | 78.3 | 78.3 | 63.4 | 48.5 | 33.6 |
| 3825                   | 72      | 102.9                                | 8.1                           | 90.9                    | 75.0 | 59.0 | 43.1 | -    | -    | 94.2                              | 9.0                           | 87.7                    | 71.6 | 55.6 | 39.6 | -    | -    |
|                        | 67      | 92.5                                 | 8.0                           | 92.5                    | 90.6 | 77.8 | 61.9 | 45.9 | -    | 84.3                              | 8.9                           | 84.3                    | 84.3 | 73.9 | 57.8 | 41.8 | -    |
|                        | 62      | 83.7                                 | 7.9                           | 83.7                    | 83.7 | 83.7 | 67.8 | 51.8 | 35.9 | 76.8                              | 8.8                           | 76.8                    | 76.8 | 76.8 | 60.8 | 44.8 | 28.7 |
|                        | 57      | 85.3                                 | 7.9                           | 85.3                    | 85.3 | 85.3 | 69.4 | 53.5 | 37.5 | 78.6                              | 8.8                           | 78.6                    | 78.6 | 78.6 | 62.6 | 46.6 | 30.5 |
| 4250                   | 72      | 103.9                                | 8.1                           | 97.1                    | 79.9 | 62.7 | 45.5 | -    | -    | 94.7                              | 9.0                           | 93.4                    | 76.2 | 59.0 | 41.9 | -    | -    |
|                        | 67      | 93.5                                 | 8.0                           | 93.5                    | 93.5 | 82.6 | 65.5 | 48.3 | -    | 84.7                              | 9.0                           | 84.7                    | 84.7 | 78.5 | 61.3 | 44.1 | -    |
|                        | 62      | 84.6                                 | 7.9                           | 84.6                    | 84.6 | 84.6 | 67.4 | 50.2 | 33.1 | 77.2                              | 8.8                           | 77.2                    | 77.2 | 77.2 | 60.0 | 42.8 | 25.7 |
|                        | 57      | 86.2                                 | 7.9                           | 86.2                    | 86.2 | 86.2 | 69.0 | 51.9 | 34.7 | 79.0                              | 8.8                           | 79.0                    | 79.0 | 79.0 | 61.8 | 44.7 | 27.5 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



## ZT120 (10 ton) first stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 1250                   | 77      | 60.5                                 | 2.0                           | 31.0                    | 26.8 | 19.9 | -    | -    | -    | 56.9                              | 2.3                           | 27.9                    | 22.6 | 17.5 | -    | -    | -    |
|                        | 72      | 52.9                                 | 2.0                           | 38.1                    | 32.2 | 26.3 | 20.4 | -    | -    | 49.5                              | 2.3                           | 35.0                    | 29.4 | 23.8 | 18.2 | -    | -    |
|                        | 67      | 45.2                                 | 2.0                           | 45.2                    | 37.6 | 32.7 | 26.8 | 20.9 | -    | 42.2                              | 2.4                           | 42.2                    | 36.2 | 30.0 | 24.4 | 18.8 | -    |
|                        | 62      | 45.8                                 | 1.9                           | 45.8                    | 45.8 | 39.9 | 33.9 | 28.0 | 22.1 | 40.4                              | 2.4                           | 40.4                    | 40.4 | 33.6 | 28.0 | 22.4 | 16.7 |
| 1500                   | 77      | 63.6                                 | 1.9                           | 37.3                    | 28.5 | 21.6 | -    | -    | -    | 58.9                              | 2.2                           | 35.3                    | 25.9 | 19.3 | -    | -    | -    |
|                        | 72      | 55.5                                 | 1.9                           | 42.4                    | 35.5 | 28.6 | 21.7 | -    | -    | 51.3                              | 2.3                           | 39.5                    | 32.8 | 26.2 | 19.5 | -    | -    |
|                        | 67      | 47.5                                 | 2.0                           | 47.5                    | 42.4 | 35.5 | 28.6 | 21.7 | -    | 43.7                              | 2.3                           | 43.7                    | 39.7 | 33.1 | 26.4 | 19.7 | -    |
|                        | 62      | 48.1                                 | 1.9                           | 48.1                    | 48.1 | 43.4 | 36.5 | 29.6 | 22.7 | 41.8                              | 2.4                           | 41.8                    | 41.8 | 37.0 | 30.3 | 23.7 | 17.0 |
|                        | 57      | 44.6                                 | 2.0                           | 44.6                    | 44.6 | 41.4 | 34.5 | 27.6 | 20.7 | 41.0                              | 2.4                           | 41.0                    | 41.0 | 36.7 | 30.1 | 23.4 | 16.7 |
| 1750                   | 77      | 66.7                                 | 1.9                           | 43.5                    | 30.3 | 23.4 | -    | -    | -    | 61.0                              | 2.2                           | 42.7                    | 29.3 | 21.1 | -    | -    | -    |
|                        | 72      | 58.2                                 | 1.9                           | 46.6                    | 38.7 | 30.9 | 23.0 | -    | -    | 53.1                              | 2.3                           | 44.0                    | 36.3 | 28.6 | 20.9 | -    | -    |
|                        | 67      | 49.8                                 | 1.9                           | 49.8                    | 47.2 | 38.4 | 30.5 | 22.6 | -    | 45.3                              | 2.3                           | 45.3                    | 43.3 | 36.1 | 28.4 | 20.7 | -    |
|                        | 62      | 50.3                                 | 1.9                           | 50.3                    | 50.3 | 47.0 | 39.1 | 31.2 | 23.4 | 43.3                              | 2.3                           | 43.3                    | 43.3 | 40.4 | 32.7 | 25.0 | 17.3 |
|                        | 57      | 46.8                                 | 1.9                           | 46.8                    | 46.8 | 44.8 | 36.9 | 29.0 | 21.1 | 42.4                              | 2.3                           | 42.4                    | 42.4 | 40.1 | 32.4 | 24.7 | 17.0 |
| 2000                   | 77      | 69.7                                 | 1.8                           | 49.7                    | 32.0 | 25.1 | -    | -    | -    | 63.0                              | 2.2                           | 50.1                    | 32.6 | 22.8 | -    | -    | -    |
|                        | 72      | 60.9                                 | 1.8                           | 50.9                    | 42.0 | 33.2 | 24.3 | -    | -    | 54.9                              | 2.2                           | 48.4                    | 39.7 | 31.0 | 22.2 | -    | -    |
|                        | 67      | 52.0                                 | 1.9                           | 52.0                    | 52.0 | 41.2 | 32.4 | 23.5 | -    | 46.8                              | 2.3                           | 46.8                    | 46.8 | 39.1 | 30.4 | 21.7 | -    |
|                        | 62      | 52.5                                 | 1.8                           | 52.5                    | 52.5 | 50.5 | 41.7 | 32.8 | 24.0 | 44.7                              | 2.3                           | 44.7                    | 44.7 | 43.8 | 35.0 | 26.3 | 17.6 |
|                        | 57      | 48.9                                 | 1.9                           | 48.9                    | 48.9 | 48.1 | 39.3 | 30.4 | 21.6 | 43.8                              | 2.3                           | 43.8                    | 43.8 | 43.4 | 34.7 | 26.0 | 17.3 |
| 2250                   | 72      | 63.1                                 | 1.8                           | 58.7                    | 48.1 | 37.6 | 27.1 | -    | -    | 56.9                              | 2.2                           | 53.5                    | 43.5 | 33.6 | 23.7 | -    | -    |
|                        | 67      | 54.0                                 | 1.8                           | 54.0                    | 54.0 | 46.9 | 36.4 | 25.9 | -    | 48.5                              | 2.2                           | 48.5                    | 48.5 | 42.4 | 32.5 | 22.6 | -    |
|                        | 62      | 54.5                                 | 1.8                           | 54.5                    | 54.5 | 53.7 | 43.2 | 32.7 | 22.2 | 46.3                              | 2.3                           | 46.3                    | 46.3 | 45.9 | 35.9 | 26.0 | 16.1 |
|                        | 57      | 50.7                                 | 1.8                           | 50.7                    | 50.7 | 50.6 | 40.1 | 29.6 | 19.1 | 45.4                              | 2.3                           | 45.4                    | 45.4 | 45.2 | 35.3 | 25.4 | 15.4 |
| 2500                   | 72      | 65.4                                 | 1.7                           | 65.4                    | 54.3 | 42.1 | 30.0 | -    | -    | 58.8                              | 2.2                           | 58.5                    | 47.4 | 36.2 | 25.1 | -    | -    |
|                        | 67      | 55.9                                 | 1.8                           | 55.9                    | 55.9 | 52.5 | 40.4 | 28.2 | -    | 50.1                              | 2.2                           | 50.1                    | 50.1 | 45.8 | 34.7 | 23.5 | -    |
|                        | 62      | 56.4                                 | 1.7                           | 56.4                    | 56.4 | 56.4 | 44.8 | 32.6 | 20.5 | 48.0                              | 2.2                           | 48.0                    | 48.0 | 48.0 | 36.8 | 25.7 | 14.6 |
|                        | 57      | 52.6                                 | 1.8                           | 52.6                    | 52.6 | 52.6 | 40.9 | 28.8 | 16.6 | 47.0                              | 2.3                           | 47.0                    | 47.0 | 47.0 | 35.9 | 24.7 | 13.6 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 105°F                   |      |      |      |      |      |
| 1250                   | 77      | 53.2                                 | 2.6                           | 24.7                    | 18.5 | 15.2 | -    | -    | -    | 45.4                              | 3.1                           | 26.5                    | 17.2 | 14.2 | -    | -    | -    |
|                        | 72      | 46.2                                 | 2.7                           | 32.0                    | 26.6 | 21.3 | 15.9 | -    | -    | 40.1                              | 3.2                           | 30.6                    | 24.8 | 19.7 | 14.5 | -    | -    |
|                        | 67      | 39.2                                 | 2.8                           | 39.2                    | 34.8 | 27.4 | 22.0 | 16.7 | -    | 34.7                              | 3.3                           | 34.7                    | 32.5 | 25.2 | 20.0 | 14.9 | -    |
|                        | 62      | 34.9                                 | 2.9                           | 34.9                    | 34.9 | 27.4 | 22.0 | 16.7 | 11.3 | 32.4                              | 3.3                           | 32.4                    | 32.4 | 25.6 | 20.4 | 15.3 | 10.1 |
| 1500                   | 77      | 54.2                                 | 2.5                           | 33.3                    | 23.4 | 17.0 | -    | -    | -    | 46.8                              | 3.0                           | 33.3                    | 22.2 | 15.8 | -    | -    | -    |
|                        | 72      | 47.1                                 | 2.6                           | 36.6                    | 30.2 | 23.8 | 17.4 | -    | -    | 41.3                              | 3.1                           | 34.5                    | 28.3 | 22.0 | 15.7 | -    | -    |
|                        | 67      | 40.0                                 | 2.7                           | 40.0                    | 37.0 | 30.6 | 24.2 | 17.7 | -    | 35.8                              | 3.2                           | 35.8                    | 34.3 | 28.2 | 21.9 | 15.6 | -    |
|                        | 62      | 35.6                                 | 2.8                           | 35.6                    | 35.6 | 30.6 | 24.1 | 17.7 | 11.3 | 33.5                              | 3.3                           | 33.5                    | 33.5 | 28.6 | 22.3 | 16.0 | 9.8  |
|                        | 57      | 37.3                                 | 2.8                           | 37.3                    | 37.3 | 32.1 | 25.6 | 19.2 | 12.8 | 33.9                              | 3.3                           | 33.9                    | 33.9 | 29.3 | 23.0 | 16.7 | 10.5 |
| 1750                   | 77      | 55.3                                 | 2.5                           | 41.8                    | 28.3 | 18.7 | -    | -    | -    | 48.3                              | 3.0                           | 40.0                    | 27.2 | 17.5 | -    | -    | -    |
|                        | 72      | 48.0                                 | 2.6                           | 41.3                    | 33.8 | 26.3 | 18.8 | -    | -    | 42.6                              | 3.1                           | 38.5                    | 31.7 | 24.3 | 16.9 | -    | -    |
|                        | 67      | 40.8                                 | 2.7                           | 40.8                    | 39.3 | 33.8 | 26.3 | 18.8 | -    | 36.9                              | 3.2                           | 36.9                    | 36.2 | 31.1 | 23.7 | 16.3 | -    |
|                        | 62      | 36.3                                 | 2.8                           | 36.3                    | 36.3 | 33.8 | 26.3 | 18.7 | 11.2 | 34.6                              | 3.3                           | 34.6                    | 34.6 | 31.6 | 24.2 | 16.8 | 9.4  |
|                        | 57      | 38.1                                 | 2.8                           | 38.1                    | 38.1 | 35.4 | 27.9 | 20.4 | 12.9 | 34.9                              | 3.3                           | 34.9                    | 34.9 | 32.4 | 25.0 | 17.6 | 10.2 |
| 2000                   | 77      | 56.3                                 | 2.5                           | 50.4                    | 33.2 | 20.5 | -    | -    | -    | 49.7                              | 3.0                           | 46.8                    | 32.3 | 19.2 | -    | -    | -    |
|                        | 72      | 48.9                                 | 2.6                           | 46.0                    | 37.4 | 28.8 | 20.2 | -    | -    | 43.9                              | 3.1                           | 42.4                    | 35.2 | 26.6 | 18.1 | -    | -    |
|                        | 67      | 41.5                                 | 2.7                           | 41.5                    | 41.5 | 37.0 | 28.4 | 19.8 | -    | 38.1                              | 3.2                           | 38.1                    | 38.1 | 34.1 | 25.6 | 17.1 | -    |
|                        | 62      | 37.0                                 | 2.8                           | 37.0                    | 37.0 | 37.0 | 28.4 | 19.8 | 11.2 | 35.6                              | 3.2                           | 35.6                    | 35.6 | 34.6 | 26.1 | 17.6 | 9.1  |
|                        | 57      | 38.8                                 | 2.7                           | 38.8                    | 38.8 | 38.8 | 30.2 | 21.6 | 13.0 | 36.0                              | 3.2                           | 36.0                    | 36.0 | 35.5 | 27.0 | 18.4 | 9.9  |
| 2250                   | 72      | 50.6                                 | 2.6                           | 48.3                    | 38.9 | 29.6 | 20.2 | -    | -    | 44.8                              | 3.1                           | 43.6                    | 36.5 | 27.3 | 18.1 | -    | -    |
|                        | 67      | 43.0                                 | 2.7                           | 43.0                    | 43.0 | 38.0 | 28.7 | 19.3 | -    | 38.8                              | 3.2                           | 38.8                    | 38.8 | 34.9 | 25.8 | 16.6 | -    |
|                        | 62      | 38.2                                 | 2.8                           | 38.2                    | 38.2 | 38.0 | 28.6 | 19.3 | 10.0 | 36.3                              | 3.3                           | 36.3                    | 36.3 | 35.5 | 26.3 | 17.1 | 7.9  |
|                        | 57      | 40.1                                 | 2.7                           | 40.1                    | 40.1 | 39.8 | 30.5 | 21.2 | 11.8 | 36.7                              | 3.3                           | 36.7                    | 36.7 | 36.3 | 27.2 | 18.0 | 8.8  |
| 2500                   | 72      | 52.3                                 | 2.6                           | 50.5                    | 40.4 | 30.4 | 20.3 | -    | -    | 45.7                              | 3.1                           | 44.8                    | 37.8 | 27.9 | 18.1 | -    | -    |
|                        | 67      | 44.4                                 | 2.7                           | 44.4                    | 44.4 | 39.0 | 29.0 | 18.9 | -    | 39.6                              | 3.2                           | 39.6                    | 39.6 | 35.8 | 25.9 | 16.1 | -    |
|                        | 62      | 39.5                                 | 2.8                           | 39.5                    | 39.5 | 39.0 | 28.9 | 18.8 | 8.7  | 37.0                              | 3.3                           | 37.0                    | 37.0 | 36.3 | 26.5 | 16.6 | 6.8  |
|                        | 57      | 41.4                                 | 2.7                           | 41.4                    | 41.4 | 40.9 | 30.8 | 20.7 | 10.6 | 37.5                              | 3.3                           | 37.5                    | 37.5 | 37.2 | 27.4 | 17.5 | 7.7  |

**ZT120 (10 ton) first stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |     |                                   |                               |                         |      |      |      |      |     |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|-----|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|-----|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |     | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |     |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |     |                                   |                               | Return dry bulb (°F)    |      |      |      |      |     |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65  |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65  |
|                        |         | 115°F                                |                               |                         |      |      |      |      |     | 125°F                             |                               |                         |      |      |      |      |     |
| 1250                   | 77      | 37.7                                 | 3.5                           | 28.3                    | 15.8 | 13.1 | -    | -    | -   | 29.9                              | 4.0                           | 29.9                    | 16.7 | 12.1 | -    | -    | -   |
|                        | 72      | 33.9                                 | 3.7                           | 29.2                    | 23.0 | 18.0 | 13.1 | -    | -   | 27.8                              | 4.2                           | 27.8                    | 21.2 | 16.4 | 11.7 | -    | -   |
|                        | 67      | 30.2                                 | 3.8                           | 30.2                    | 30.2 | 23.0 | 18.0 | 13.1 | -   | 25.7                              | 4.3                           | 25.7                    | 25.7 | 20.8 | 16.0 | 11.2 | -   |
|                        | 62      | 30.0                                 | 3.8                           | 30.0                    | 30.0 | 23.7 | 18.8 | 13.8 | 8.9 | 27.5                              | 4.3                           | 27.5                    | 27.5 | 21.9 | 17.2 | 12.4 | 7.6 |
| 1500                   | 77      | 39.5                                 | 3.5                           | 33.2                    | 21.0 | 14.7 | -    | -    | -   | 32.1                              | 4.0                           | 32.1                    | 21.3 | 13.5 | -    | -    | -   |
|                        | 72      | 35.6                                 | 3.6                           | 32.4                    | 26.3 | 20.2 | 14.1 | -    | -   | 29.8                              | 4.1                           | 29.8                    | 24.4 | 18.4 | 12.5 | -    | -   |
|                        | 67      | 31.6                                 | 3.8                           | 31.6                    | 31.6 | 25.7 | 19.6 | 13.5 | -   | 27.5                              | 4.3                           | 27.5                    | 27.5 | 23.3 | 17.3 | 11.4 | -   |
|                        | 62      | 31.4                                 | 3.8                           | 31.4                    | 31.4 | 26.6 | 20.5 | 14.3 | 8.2 | 29.3                              | 4.2                           | 29.3                    | 29.3 | 24.6 | 18.6 | 12.7 | 6.7 |
|                        | 57      | 30.4                                 | 3.8                           | 30.4                    | 30.4 | 26.5 | 20.4 | 14.3 | 8.2 | 27.0                              | 4.3                           | 27.0                    | 27.0 | 23.7 | 17.8 | 11.8 | 5.8 |
| 1750                   | 77      | 41.3                                 | 3.5                           | 38.2                    | 26.2 | 16.3 | -    | -    | -   | 34.3                              | 3.9                           | 34.3                    | 25.8 | 15.0 | -    | -    | -   |
|                        | 72      | 37.2                                 | 3.6                           | 35.7                    | 29.6 | 22.4 | 15.1 | -    | -   | 31.8                              | 4.1                           | 31.8                    | 27.6 | 20.4 | 13.3 | -    | -   |
|                        | 67      | 33.1                                 | 3.7                           | 33.1                    | 33.1 | 28.5 | 21.2 | 13.9 | -   | 29.3                              | 4.2                           | 29.3                    | 29.3 | 25.8 | 18.7 | 11.5 | -   |
|                        | 62      | 32.9                                 | 3.7                           | 32.9                    | 32.9 | 29.4 | 22.1 | 14.9 | 7.6 | 31.2                              | 4.2                           | 31.2                    | 31.2 | 27.2 | 20.1 | 12.9 | 5.8 |
|                        | 57      | 31.8                                 | 3.8                           | 31.8                    | 31.8 | 29.3 | 22.1 | 14.8 | 7.5 | 28.7                              | 4.3                           | 28.7                    | 28.7 | 26.3 | 19.1 | 12.0 | 4.8 |
| 2000                   | 77      | 43.1                                 | 3.4                           | 43.1                    | 31.3 | 17.8 | -    | -    | -   | 36.6                              | 3.9                           | 36.6                    | 30.4 | 16.5 | -    | -    | -   |
|                        | 72      | 38.9                                 | 3.5                           | 38.9                    | 33.0 | 24.5 | 16.1 | -    | -   | 33.8                              | 4.0                           | 33.8                    | 30.8 | 22.4 | 14.0 | -    | -   |
|                        | 67      | 34.6                                 | 3.7                           | 34.6                    | 34.6 | 31.2 | 22.8 | 14.4 | -   | 31.1                              | 4.2                           | 31.1                    | 31.1 | 28.3 | 20.0 | 11.6 | -   |
|                        | 62      | 34.3                                 | 3.7                           | 34.3                    | 34.3 | 32.3 | 23.8 | 15.4 | 7.0 | 33.0                              | 4.1                           | 33.0                    | 33.0 | 29.9 | 21.6 | 13.2 | 4.8 |
|                        | 57      | 33.2                                 | 3.7                           | 33.2                    | 33.2 | 32.2 | 23.7 | 15.3 | 6.9 | 30.5                              | 4.2                           | 30.5                    | 30.5 | 28.9 | 20.5 | 12.2 | 3.8 |
| 2250                   | 72      | 39.0                                 | 3.6                           | 39.0                    | 34.0 | 25.0 | 16.0 | -    | -   | 33.2                              | 4.1                           | 33.2                    | 31.6 | 22.8 | 13.9 | -    | -   |
|                        | 67      | 34.7                                 | 3.7                           | 34.7                    | 34.7 | 31.9 | 22.9 | 13.8 | -   | 30.6                              | 4.2                           | 30.6                    | 30.6 | 28.8 | 19.9 | 11.1 | -   |
|                        | 62      | 34.5                                 | 3.7                           | 34.5                    | 34.5 | 32.9 | 23.9 | 14.9 | 5.9 | 32.6                              | 4.2                           | 32.6                    | 32.6 | 30.4 | 21.5 | 12.7 | 3.8 |
|                        | 57      | 33.4                                 | 3.8                           | 33.4                    | 33.4 | 32.8 | 23.8 | 14.8 | 5.8 | 30.0                              | 4.3                           | 30.0                    | 30.0 | 29.3 | 20.5 | 11.6 | 2.8 |
| 2500                   | 72      | 39.2                                 | 3.6                           | 39.2                    | 35.1 | 25.5 | 15.9 | -    | -   | 32.6                              | 4.1                           | 32.6                    | 32.5 | 23.1 | 13.8 | -    | -   |
|                        | 67      | 34.8                                 | 3.8                           | 34.8                    | 34.8 | 32.5 | 22.9 | 13.3 | -   | 30.1                              | 4.3                           | 30.1                    | 30.1 | 29.2 | 19.9 | 10.5 | -   |
|                        | 62      | 34.6                                 | 3.8                           | 34.6                    | 34.6 | 33.6 | 24.0 | 14.4 | 4.8 | 32.1                              | 4.3                           | 32.1                    | 32.1 | 30.9 | 21.5 | 12.2 | 2.8 |
|                        | 57      | 33.5                                 | 3.8                           | 33.5                    | 33.5 | 33.5 | 23.9 | 14.3 | 4.7 | 29.5                              | 4.3                           | 29.5                    | 29.5 | 29.5 | 20.4 | 11.1 | 1.7 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT120 (10 ton) second stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 1750                   | 77      | 114.2                                | 3.4                           | 50.9                    | 40.9 | 32.5 | -    | -    | -    | 107.6                             | 4.2                           | 46.9                    | 38.7 | 30.5 | -    | -    | -    |
|                        | 72      | 103.5                                | 3.4                           | 61.2                    | 52.8 | 44.3 | 35.9 | -    | -    | 96.7                              | 4.2                           | 58.4                    | 50.2 | 41.9 | 33.7 | -    | -    |
|                        | 67      | 92.7                                 | 3.4                           | 71.5                    | 64.7 | 56.2 | 47.8 | 39.4 | -    | 85.9                              | 4.3                           | 69.9                    | 61.7 | 53.4 | 45.2 | 37.0 | -    |
|                        | 62      | 83.4                                 | 3.5                           | 83.4                    | 83.4 | 69.6 | 61.1 | 52.7 | 44.3 | 76.5                              | 4.4                           | 76.5                    | 76.5 | 64.2 | 55.9 | 47.7 | 39.5 |
| 2100                   | 77      | 118.9                                | 3.4                           | 55.2                    | 45.4 | 35.5 | -    | -    | -    | 111.5                             | 4.1                           | 52.6                    | 43.0 | 33.4 | -    | -    | -    |
|                        | 72      | 107.7                                | 3.4                           | 68.3                    | 58.4 | 48.6 | 38.7 | -    | -    | 100.2                             | 4.2                           | 65.2                    | 55.6 | 46.0 | 36.3 | -    | -    |
|                        | 67      | 96.6                                 | 3.4                           | 81.3                    | 71.4 | 61.6 | 51.7 | 41.9 | -    | 89.0                              | 4.2                           | 77.8                    | 68.2 | 58.5 | 48.9 | 39.3 | -    |
|                        | 62      | 86.9                                 | 3.5                           | 86.9                    | 86.9 | 76.2 | 66.3 | 56.5 | 46.6 | 79.3                              | 4.4                           | 79.3                    | 79.3 | 70.3 | 60.7 | 51.1 | 41.5 |
|                        | 57      | 84.4                                 | 3.6                           | 84.4                    | 84.4 | 75.6 | 65.7 | 55.9 | 46.0 | 78.9                              | 4.4                           | 78.9                    | 78.9 | 70.9 | 61.3 | 51.7 | 42.0 |
| 2450                   | 77      | 123.6                                | 3.3                           | 59.6                    | 49.9 | 38.6 | -    | -    | -    | 115.4                             | 4.1                           | 58.3                    | 47.3 | 36.3 | -    | -    | -    |
|                        | 72      | 112.0                                | 3.4                           | 75.3                    | 64.1 | 52.8 | 41.5 | -    | -    | 103.8                             | 4.1                           | 72.0                    | 61.0 | 50.0 | 39.0 | -    | -    |
|                        | 67      | 100.4                                | 3.4                           | 91.1                    | 78.2 | 66.9 | 55.7 | 44.4 | -    | 92.1                              | 4.2                           | 85.6                    | 74.6 | 63.6 | 52.6 | 41.6 | -    |
|                        | 62      | 90.3                                 | 3.5                           | 90.3                    | 90.3 | 82.8 | 71.5 | 60.3 | 49.0 | 82.0                              | 4.3                           | 82.0                    | 82.0 | 76.4 | 65.4 | 54.4 | 43.4 |
| 2800                   | 57      | 87.7                                 | 3.6                           | 87.7                    | 87.7 | 82.2 | 70.9 | 59.6 | 48.4 | 81.6                              | 4.3                           | 81.6                    | 81.6 | 77.0 | 66.0 | 55.0 | 44.0 |
|                        | 77      | 128.4                                | 3.3                           | 63.9                    | 54.4 | 41.7 | -    | -    | -    | 119.3                             | 4.1                           | 64.0                    | 51.6 | 39.2 | -    | -    | -    |
|                        | 72      | 116.3                                | 3.4                           | 82.4                    | 69.7 | 57.0 | 44.3 | -    | -    | 107.3                             | 4.1                           | 78.7                    | 66.4 | 54.0 | 41.6 | -    | -    |
|                        | 67      | 104.2                                | 3.4                           | 100.8                   | 85.0 | 72.3 | 59.6 | 46.9 | -    | 95.2                              | 4.2                           | 93.5                    | 81.1 | 68.7 | 56.4 | 44.0 | -    |
|                        | 62      | 93.7                                 | 3.4                           | 93.7                    | 93.7 | 89.4 | 76.8 | 64.1 | 51.4 | 84.8                              | 4.3                           | 84.8                    | 84.8 | 82.5 | 70.1 | 57.7 | 45.3 |
| 3150                   | 57      | 91.1                                 | 3.6                           | 91.1                    | 91.1 | 88.7 | 76.1 | 63.4 | 50.7 | 84.4                              | 4.3                           | 84.4                    | 84.4 | 83.2 | 70.8 | 58.4 | 46.0 |
|                        | 72      | 116.8                                | 3.4                           | 88.0                    | 74.2 | 60.4 | 46.6 | -    | -    | 108.8                             | 4.1                           | 84.5                    | 70.9 | 57.3 | 43.7 | -    | -    |
|                        | 67      | 104.7                                | 3.4                           | 103.0                   | 90.4 | 76.6 | 62.8 | 48.9 | -    | 96.6                              | 4.2                           | 95.7                    | 86.6 | 73.0 | 59.4 | 45.8 | -    |
|                        | 62      | 94.2                                 | 3.5                           | 94.2                    | 94.2 | 92.0 | 78.2 | 64.4 | 50.6 | 86.0                              | 4.3                           | 86.0                    | 86.0 | 84.9 | 71.3 | 57.7 | 44.1 |
|                        | 57      | 91.5                                 | 3.6                           | 91.5                    | 91.5 | 90.3 | 76.5 | 62.7 | 48.9 | 85.6                              | 4.3                           | 85.6                    | 85.6 | 85.0 | 71.4 | 57.8 | 44.2 |
| 3500                   | 72      | 117.3                                | 3.4                           | 93.6                    | 78.7 | 63.7 | 48.8 | -    | -    | 110.3                             | 4.1                           | 90.2                    | 75.4 | 60.6 | 45.8 | -    | -    |
|                        | 67      | 105.2                                | 3.4                           | 105.2                   | 95.7 | 80.8 | 65.9 | 51.0 | -    | 97.9                              | 4.2                           | 97.9                    | 92.0 | 77.2 | 62.5 | 47.7 | -    |
|                        | 62      | 94.6                                 | 3.5                           | 94.6                    | 94.6 | 94.6 | 79.7 | 64.8 | 49.9 | 87.2                              | 4.3                           | 87.2                    | 87.2 | 87.2 | 72.4 | 57.6 | 42.8 |
|                        | 57      | 91.9                                 | 3.6                           | 91.9                    | 91.9 | 91.9 | 77.0 | 62.1 | 47.1 | 86.8                              | 4.3                           | 86.8                    | 86.8 | 86.8 | 72.0 | 57.2 | 42.4 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 105°F                   |      |      |      |      |      |
| 1750                   | 77      | 101.0                                | 4.9                           | 42.9                    | 36.4 | 28.4 | -    | -    | -    | 90.8                              | 5.9                           | 38.5                    | 33.4 | 25.5 | -    | -    | -    |
|                        | 72      | 90.0                                 | 5.0                           | 55.6                    | 47.6 | 39.6 | 31.6 | -    | -    | 81.6                              | 5.9                           | 52.3                    | 44.5 | 36.6 | 28.7 | -    | -    |
|                        | 67      | 79.0                                 | 5.1                           | 68.2                    | 58.7 | 50.7 | 42.7 | 34.7 | -    | 72.5                              | 6.0                           | 66.2                    | 55.5 | 47.6 | 39.7 | 31.8 | -    |
|                        | 62      | 69.5                                 | 5.3                           | 69.5                    | 69.5 | 58.8 | 50.8 | 42.8 | 34.8 | 65.1                              | 6.1                           | 65.1                    | 65.1 | 55.4 | 47.5 | 39.6 | 31.7 |
| 2100                   | 77      | 104.1                                | 4.9                           | 49.9                    | 40.5 | 31.2 | -    | -    | -    | 93.7                              | 5.8                           | 46.5                    | 37.2 | 28.0 | -    | -    | -    |
|                        | 72      | 92.7                                 | 5.0                           | 62.1                    | 52.7 | 43.3 | 34.0 | -    | -    | 84.3                              | 5.9                           | 58.6                    | 49.3 | 40.1 | 30.8 | -    | -    |
|                        | 67      | 81.4                                 | 5.1                           | 74.2                    | 64.9 | 55.5 | 46.1 | 36.8 | -    | 74.8                              | 5.9                           | 70.6                    | 61.4 | 52.1 | 42.9 | 33.6 | -    |
|                        | 62      | 71.6                                 | 5.2                           | 71.6                    | 71.6 | 64.4 | 55.0 | 45.6 | 36.3 | 67.2                              | 6.1                           | 67.2                    | 67.2 | 60.7 | 51.4 | 42.2 | 32.9 |
|                        | 57      | 73.3                                 | 5.1                           | 73.3                    | 73.3 | 66.2 | 56.8 | 47.4 | 38.1 | 68.6                              | 6.0                           | 68.6                    | 68.6 | 61.5 | 52.2 | 43.0 | 33.7 |
| 2450                   | 77      | 107.2                                | 4.8                           | 56.9                    | 44.6 | 33.9 | -    | -    | -    | 96.7                              | 5.8                           | 54.5                    | 41.0 | 30.4 | -    | -    | -    |
|                        | 72      | 95.5                                 | 4.9                           | 68.6                    | 57.9 | 47.1 | 36.4 | -    | -    | 86.9                              | 5.8                           | 64.8                    | 54.2 | 43.5 | 32.9 | -    | -    |
|                        | 67      | 83.8                                 | 5.0                           | 80.2                    | 71.1 | 60.4 | 49.6 | 38.9 | -    | 77.1                              | 5.9                           | 75.1                    | 67.3 | 56.7 | 46.1 | 35.4 | -    |
|                        | 62      | 73.8                                 | 5.2                           | 73.8                    | 73.8 | 70.0 | 59.3 | 48.5 | 37.8 | 69.3                              | 6.0                           | 69.3                    | 69.3 | 65.9 | 55.3 | 44.7 | 34.1 |
|                        | 57      | 75.5                                 | 5.1                           | 75.5                    | 75.5 | 71.9 | 61.2 | 50.5 | 39.7 | 70.8                              | 6.0                           | 70.8                    | 70.8 | 66.8 | 56.2 | 45.6 | 35.0 |
| 2800                   | 77      | 110.3                                | 4.8                           | 64.0                    | 48.7 | 36.6 | -    | -    | -    | 99.6                              | 5.7                           | 62.5                    | 44.8 | 32.8 | -    | -    | -    |
|                        | 72      | 98.3                                 | 4.9                           | 75.1                    | 63.0 | 50.9 | 38.8 | -    | -    | 89.5                              | 5.8                           | 71.0                    | 59.0 | 47.0 | 35.0 | -    | -    |
|                        | 67      | 86.2                                 | 5.0                           | 86.2                    | 77.3 | 65.2 | 53.1 | 41.0 | -    | 79.5                              | 5.8                           | 79.5                    | 73.2 | 61.2 | 49.2 | 37.2 | -    |
|                        | 62      | 75.9                                 | 5.1                           | 75.9                    | 75.9 | 75.6 | 63.5 | 51.4 | 39.3 | 71.4                              | 6.0                           | 71.4                    | 71.4 | 71.2 | 59.2 | 47.3 | 35.3 |
|                        | 57      | 77.7                                 | 5.0                           | 77.7                    | 77.7 | 77.7 | 65.6 | 53.5 | 41.4 | 72.9                              | 5.9                           | 72.9                    | 72.9 | 72.2 | 60.2 | 48.2 | 36.3 |
| 3150                   | 72      | 100.8                                | 4.8                           | 81.0                    | 67.6 | 54.2 | 40.8 | -    | -    | 91.0                              | 5.8                           | 76.7                    | 63.5 | 50.3 | 37.1 | -    | -    |
|                        | 67      | 88.4                                 | 4.9                           | 88.4                    | 82.8 | 69.4 | 56.1 | 42.7 | -    | 80.8                              | 5.8                           | 80.8                    | 77.1 | 65.5 | 52.3 | 39.1 | -    |
|                        | 62      | 77.9                                 | 5.1                           | 77.9                    | 77.9 | 77.7 | 64.3 | 50.9 | 37.6 | 72.5                              | 5.9                           | 72.5                    | 72.5 | 72.5 | 59.3 | 46.1 | 32.9 |
|                        | 57      | 79.7                                 | 5.0                           | 79.7                    | 79.7 | 79.7 | 66.3 | 52.9 | 39.5 | 74.1                              | 5.9                           | 74.1                    | 74.1 | 73.8 | 60.6 | 47.4 | 34.2 |
| 3500                   | 72      | 103.3                                | 4.8                           | 86.8                    | 72.2 | 57.5 | 42.9 | -    | -    | 92.5                              | 5.7                           | 82.4                    | 68.0 | 53.6 | 39.2 | -    | -    |
|                        | 67      | 90.6                                 | 4.9                           | 90.6                    | 88.3 | 73.7 | 59.0 | 44.4 | -    | 82.1                              | 5.8                           | 82.1                    | 80.9 | 69.8 | 55.3 | 40.9 | -    |
|                        | 62      | 79.8                                 | 5.0                           | 79.8                    | 79.8 | 79.8 | 65.1 | 50.5 | 35.8 | 73.7                              | 5.9                           | 73.7                    | 73.7 | 73.7 | 59.3 | 44.9 | 30.5 |
|                        | 57      | 81.7                                 | 5.0                           | 81.7                    | 81.7 | 81.7 | 67.0 | 52.3 | 37.7 | 75.3                              | 5.9                           | 75.3                    | 75.3 | 75.3 | 60.9 | 46.5 | 32.1 |

**ZT120 (10 ton) second stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      | 125°F                             |                               |                         |      |      |      |      |      |
| 1750                   | 77      | 80.6                                 | 6.9                           | 34.1                    | 30.4 | 22.6 | -    | -    | -    | 70.5                              | 7.8                           | 32.4                    | 27.4 | 19.7 | -    | -    | -    |
|                        | 72      | 73.3                                 | 6.9                           | 49.1                    | 41.4 | 33.6 | 25.8 | -    | -    | 65.0                              | 7.8                           | 45.9                    | 38.3 | 30.6 | 22.9 | -    | -    |
|                        | 67      | 65.9                                 | 6.9                           | 64.2                    | 52.3 | 44.5 | 36.8 | 29.0 | -    | 59.4                              | 7.8                           | 59.4                    | 49.1 | 41.5 | 33.8 | 26.1 | -    |
|                        | 62      | 60.6                                 | 7.0                           | 60.6                    | 60.6 | 52.0 | 44.2 | 36.5 | 28.7 | 56.2                              | 7.8                           | 56.2                    | 56.2 | 48.6 | 41.0 | 33.3 | 25.6 |
| 2100                   | 77      | 83.4                                 | 6.8                           | 43.1                    | 33.9 | 24.8 | -    | -    | -    | 73.0                              | 7.8                           | 41.5                    | 30.6 | 21.6 | -    | -    | -    |
|                        | 72      | 75.8                                 | 6.8                           | 55.0                    | 45.9 | 36.8 | 27.6 | -    | -    | 67.3                              | 7.7                           | 51.5                    | 42.5 | 33.5 | 24.5 | -    | -    |
|                        | 67      | 68.2                                 | 6.8                           | 67.0                    | 57.9 | 48.8 | 39.6 | 30.5 | -    | 61.6                              | 7.7                           | 61.6                    | 54.4 | 45.4 | 36.4 | 27.3 | -    |
|                        | 62      | 62.7                                 | 6.9                           | 62.7                    | 62.7 | 56.9 | 47.8 | 38.7 | 29.5 | 58.2                              | 7.8                           | 58.2                    | 58.2 | 53.2 | 44.2 | 35.2 | 26.2 |
| 2450                   | 57      | 64.0                                 | 6.9                           | 64.0                    | 64.0 | 56.8 | 47.7 | 38.6 | 29.4 | 59.3                              | 7.8                           | 59.3                    | 59.3 | 52.2 | 43.2 | 34.1 | 25.1 |
|                        | 77      | 86.1                                 | 6.7                           | 52.0                    | 37.4 | 26.9 | -    | -    | -    | 75.6                              | 7.7                           | 50.5                    | 33.8 | 23.5 | -    | -    | -    |
|                        | 72      | 78.3                                 | 6.8                           | 60.9                    | 50.4 | 40.0 | 29.5 | -    | -    | 69.7                              | 7.7                           | 57.1                    | 46.7 | 36.4 | 26.0 | -    | -    |
|                        | 67      | 70.4                                 | 6.8                           | 69.9                    | 63.5 | 53.0 | 42.5 | 32.0 | -    | 63.8                              | 7.7                           | 63.8                    | 59.7 | 49.3 | 38.9 | 28.6 | -    |
| 2800                   | 62      | 64.7                                 | 6.9                           | 64.7                    | 64.7 | 61.9 | 51.4 | 40.9 | 30.4 | 60.2                              | 7.7                           | 60.2                    | 60.2 | 57.8 | 47.5 | 37.1 | 26.7 |
|                        | 57      | 66.1                                 | 6.8                           | 66.1                    | 66.1 | 61.8 | 51.3 | 40.8 | 30.3 | 61.4                              | 7.7                           | 61.4                    | 61.4 | 56.7 | 46.3 | 35.9 | 25.6 |
|                        | 77      | 88.9                                 | 6.7                           | 61.0                    | 40.9 | 29.1 | -    | -    | -    | 78.2                              | 7.6                           | 59.5                    | 37.0 | 25.3 | -    | -    | -    |
|                        | 72      | 80.8                                 | 6.7                           | 66.8                    | 55.0 | 43.1 | 31.3 | -    | -    | 72.1                              | 7.6                           | 62.7                    | 51.0 | 39.3 | 27.5 | -    | -    |
| 3150                   | 67      | 72.7                                 | 6.7                           | 72.7                    | 69.1 | 57.2 | 45.4 | 33.5 | -    | 65.9                              | 7.6                           | 65.9                    | 64.9 | 53.2 | 41.5 | 29.8 | -    |
|                        | 62      | 66.8                                 | 6.8                           | 66.8                    | 66.8 | 66.8 | 55.0 | 43.1 | 31.3 | 62.3                              | 7.7                           | 62.3                    | 62.3 | 62.3 | 50.7 | 39.0 | 27.3 |
|                        | 57      | 68.2                                 | 6.8                           | 68.2                    | 68.2 | 66.7 | 54.8 | 43.0 | 31.1 | 63.4                              | 7.7                           | 63.4                    | 63.4 | 61.2 | 49.5 | 37.7 | 26.0 |
|                        | 72      | 81.3                                 | 6.7                           | 72.4                    | 59.4 | 46.4 | 33.4 | -    | -    | 71.5                              | 7.6                           | 68.1                    | 55.3 | 42.5 | 29.7 | -    | -    |
| 3500                   | 67      | 73.1                                 | 6.7                           | 73.1                    | 71.3 | 61.5 | 48.5 | 35.5 | -    | 65.5                              | 7.6                           | 65.5                    | 65.5 | 57.6 | 44.7 | 31.9 | -    |
|                        | 62      | 67.2                                 | 6.8                           | 67.2                    | 67.2 | 67.2 | 54.2 | 41.2 | 28.2 | 61.9                              | 7.7                           | 61.9                    | 61.9 | 61.9 | 49.2 | 36.3 | 23.5 |
|                        | 57      | 68.6                                 | 6.8                           | 68.6                    | 68.6 | 67.8 | 54.8 | 41.8 | 28.8 | 63.0                              | 7.7                           | 63.0                    | 63.0 | 61.9 | 49.1 | 36.3 | 23.5 |
|                        | 72      | 81.7                                 | 6.7                           | 77.9                    | 63.8 | 49.6 | 35.5 | -    | -    | 71.0                              | 7.7                           | 71.0                    | 59.6 | 45.7 | 31.8 | -    | -    |
| 3500                   | 67      | 73.5                                 | 6.7                           | 73.5                    | 73.5 | 65.8 | 51.7 | 37.5 | -    | 65.0                              | 7.6                           | 65.0                    | 65.0 | 61.9 | 48.0 | 34.1 | -    |
|                        | 62      | 67.6                                 | 6.8                           | 67.6                    | 67.6 | 67.6 | 53.5 | 39.3 | 25.2 | 61.5                              | 7.7                           | 61.5                    | 61.5 | 61.5 | 47.6 | 33.7 | 19.8 |
|                        | 57      | 69.0                                 | 6.8                           | 69.0                    | 69.0 | 69.0 | 54.8 | 40.7 | 26.5 | 62.7                              | 7.7                           | 62.7                    | 62.7 | 62.7 | 48.8 | 34.9 | 21.0 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT120 (10 ton) third stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |      |      |      |                                   |                               |                         |       |       |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |      |      |      |                                   |                               | Return dry bulb (°F)    |       |       |      |      |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75   | 70   | 65   |                                   |                               | 90                      | 85    | 80    | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |       |       |      |      |      |                                   |                               | 85°F                    |       |       |      |      |      |
| 2500                   | 77      | 167.4                                | 5.8                           | 71.3                    | 59.7  | 48.2  | -    | -    | -    | 155.1                             | 6.5                           | 66.5                    | 55.0  | 43.5  | -    | -    | -    |
|                        | 72      | 151.1                                | 5.7                           | 88.2                    | 76.6  | 65.0  | 53.5 | -    | -    | 140.7                             | 6.5                           | 83.8                    | 72.3  | 60.8  | 49.3 | -    | -    |
|                        | 67      | 134.9                                | 5.6                           | 105.1                   | 93.5  | 81.9  | 70.4 | 58.8 | -    | 126.3                             | 6.4                           | 101.1                   | 89.6  | 78.1  | 66.6 | 55.1 | -    |
|                        | 62      | 72.2                                 | 1.1                           | 72.2                    | 72.2  | 59.8  | 48.2 | 36.6 | 25.0 | 88.1                              | 4.1                           | 88.1                    | 88.1  | 74.4  | 62.9 | 51.4 | 39.9 |
| 3000                   | 77      | 171.9                                | 5.8                           | 78.8                    | 65.5  | 52.2  | -    | -    | -    | 159.1                             | 6.6                           | 73.6                    | 60.4  | 47.2  | -    | -    | -    |
|                        | 72      | 155.3                                | 5.7                           | 97.2                    | 83.8  | 70.5  | 57.2 | -    | -    | 144.4                             | 6.5                           | 92.3                    | 79.1  | 65.9  | 52.7 | -    | -    |
|                        | 67      | 138.6                                | 5.6                           | 115.5                   | 102.1 | 88.8  | 75.5 | 62.1 | -    | 129.6                             | 6.4                           | 111.0                   | 97.8  | 84.6  | 71.4 | 58.2 | -    |
|                        | 62      | 74.3                                 | 1.1                           | 74.3                    | 74.3  | 64.8  | 51.4 | 38.1 | 24.8 | 90.4                              | 4.1                           | 90.4                    | 90.4  | 80.6  | 67.4 | 54.2 | 41.0 |
|                        | 57      | 70.2                                 | 1.1                           | 70.2                    | 70.2  | 64.2  | 50.9 | 37.6 | 24.2 | 88.7                              | 4.1                           | 88.7                    | 88.7  | 80.7  | 67.5 | 54.3 | 41.1 |
| 3500                   | 77      | 176.5                                | 5.8                           | 86.4                    | 71.3  | 56.2  | -    | -    | -    | 163.1                             | 6.6                           | 80.7                    | 65.8  | 50.8  | -    | -    | -    |
|                        | 72      | 159.4                                | 5.7                           | 106.1                   | 91.0  | 76.0  | 60.9 | -    | -    | 148.0                             | 6.5                           | 100.8                   | 85.9  | 71.0  | 56.1 | -    | -    |
|                        | 67      | 142.3                                | 5.7                           | 125.9                   | 110.8 | 95.7  | 80.6 | 65.5 | -    | 132.9                             | 6.5                           | 121.0                   | 106.1 | 91.2  | 76.3 | 61.4 | -    |
|                        | 62      | 76.3                                 | 1.1                           | 76.3                    | 76.3  | 69.8  | 54.7 | 39.6 | 24.5 | 92.6                              | 4.1                           | 92.6                    | 92.6  | 86.9  | 71.9 | 57.0 | 42.1 |
|                        | 57      | 72.2                                 | 1.1                           | 72.2                    | 72.2  | 69.2  | 54.1 | 39.0 | 23.9 | 91.0                              | 4.1                           | 91.0                    | 91.0  | 87.0  | 72.1 | 57.1 | 42.2 |
| 4000                   | 77      | 181.1                                | 5.9                           | 94.0                    | 77.1  | 60.3  | -    | -    | -    | 167.1                             | 6.6                           | 87.7                    | 71.1  | 54.5  | -    | -    | -    |
|                        | 72      | 163.6                                | 5.8                           | 115.1                   | 98.3  | 81.4  | 64.6 | -    | -    | 151.6                             | 6.6                           | 109.4                   | 92.7  | 76.1  | 59.5 | -    | -    |
|                        | 67      | 146.0                                | 5.7                           | 136.2                   | 119.4 | 102.5 | 85.7 | 68.9 | -    | 136.1                             | 6.5                           | 131.0                   | 114.4 | 97.7  | 81.1 | 64.5 | -    |
|                        | 62      | 78.4                                 | 1.1                           | 78.4                    | 78.4  | 74.8  | 57.9 | 41.1 | 24.2 | 94.9                              | 4.1                           | 94.9                    | 94.9  | 93.1  | 76.5 | 59.9 | 43.2 |
|                        | 57      | 74.2                                 | 1.1                           | 74.2                    | 74.2  | 74.2  | 57.3 | 40.5 | 23.6 | 93.2                              | 4.1                           | 93.2                    | 93.2  | 93.2  | 76.6 | 60.0 | 43.4 |
| 4500                   | 72      | 166.2                                | 5.8                           | 122.6                   | 104.3 | 86.0  | 67.7 | -    | -    | 154.4                             | 6.6                           | 117.1                   | 99.0  | 80.9  | 62.8 | -    | -    |
|                        | 67      | 148.3                                | 5.7                           | 143.5                   | 126.6 | 108.3 | 90.0 | 71.7 | -    | 138.6                             | 6.5                           | 136.0                   | 122.0 | 103.9 | 85.8 | 67.7 | -    |
|                        | 62      | 79.5                                 | 1.1                           | 79.5                    | 79.5  | 77.7  | 59.4 | 41.1 | 22.8 | 96.6                              | 4.1                           | 96.6                    | 96.6  | 95.7  | 77.6 | 59.5 | 41.4 |
|                        | 57      | 75.2                                 | 1.1                           | 75.2                    | 75.2  | 75.2  | 56.9 | 38.6 | 20.3 | 94.9                              | 4.1                           | 94.9                    | 94.9  | 94.9  | 76.8 | 58.7 | 40.6 |
| 5000                   | 72      | 168.8                                | 5.8                           | 130.0                   | 110.3 | 90.5  | 70.8 | -    | -    | 157.1                             | 6.6                           | 124.8                   | 105.3 | 85.7  | 66.1 | -    | -    |
|                        | 67      | 150.7                                | 5.7                           | 150.7                   | 133.7 | 114.0 | 94.2 | 74.5 | -    | 141.1                             | 6.5                           | 141.1                   | 129.6 | 110.0 | 90.5 | 70.9 | -    |
|                        | 62      | 80.7                                 | 1.1                           | 80.7                    | 80.7  | 80.7  | 60.9 | 41.2 | 21.4 | 98.3                              | 4.1                           | 98.3                    | 98.3  | 98.3  | 78.8 | 59.2 | 39.6 |
|                        | 57      | 76.3                                 | 1.1                           | 76.3                    | 76.3  | 76.3  | 56.6 | 36.8 | 17.1 | 96.6                              | 4.1                           | 96.6                    | 96.6  | 96.6  | 77.0 | 57.5 | 37.9 |
|                        |         | 95°F                                 |                               |                         |       |       |      |      |      |                                   |                               | 105°F                   |       |       |      |      |      |
| 2500                   | 77      | 142.9                                | 7.3                           | 61.8                    | 50.4  | 38.9  | -    | -    | -    | 133.2                             | 8.3                           | 56.1                    | 46.9  | 35.6  | -    | -    | -    |
|                        | 72      | 130.3                                | 7.2                           | 79.4                    | 68.0  | 56.6  | 45.1 | -    | -    | 121.7                             | 8.2                           | 75.4                    | 64.1  | 52.8  | 41.5 | -    | -    |
|                        | 67      | 117.8                                | 7.2                           | 97.1                    | 85.6  | 74.2  | 62.8 | 51.3 | -    | 110.2                             | 8.2                           | 94.8                    | 81.4  | 70.1  | 58.8 | 47.5 | -    |
|                        | 62      | 103.9                                | 7.1                           | 103.9                   | 103.9 | 89.0  | 77.5 | 66.1 | 54.7 | 101.3                             | 8.1                           | 101.3                   | 99.5  | 83.4  | 72.1 | 60.8 | 49.5 |
| 3000                   | 77      | 146.3                                | 7.3                           | 68.4                    | 55.3  | 42.2  | -    | -    | -    | 136.0                             | 8.3                           | 64.6                    | 51.7  | 38.7  | -    | -    | -    |
|                        | 72      | 133.5                                | 7.3                           | 87.5                    | 74.4  | 61.3  | 48.2 | -    | -    | 124.2                             | 8.3                           | 83.4                    | 70.4  | 57.5  | 44.5 | -    | -    |
|                        | 67      | 120.6                                | 7.2                           | 106.6                   | 93.5  | 80.4  | 67.4 | 54.3 | -    | 112.5                             | 8.2                           | 102.1                   | 89.2  | 76.2  | 63.3 | 50.4 | -    |
|                        | 62      | 106.4                                | 7.1                           | 106.4                   | 106.4 | 96.5  | 83.4 | 70.3 | 57.2 | 103.3                             | 8.1                           | 103.3                   | 102.2 | 90.8  | 77.8 | 64.9 | 52.0 |
|                        | 57      | 107.3                                | 7.1                           | 107.3                   | 107.3 | 97.2  | 84.1 | 71.0 | 57.9 | 104.4                             | 8.0                           | 104.4                   | 103.2 | 91.7  | 78.8 | 65.9 | 52.9 |
| 3500                   | 77      | 149.7                                | 7.4                           | 75.0                    | 60.2  | 45.5  | -    | -    | -    | 138.7                             | 8.4                           | 73.1                    | 56.4  | 41.9  | -    | -    | -    |
|                        | 72      | 136.6                                | 7.3                           | 95.6                    | 80.8  | 66.1  | 51.3 | -    | -    | 126.7                             | 8.3                           | 91.3                    | 76.7  | 62.1  | 47.6 | -    | -    |
|                        | 67      | 123.4                                | 7.2                           | 116.2                   | 101.4 | 86.7  | 71.9 | 57.2 | -    | 114.8                             | 8.2                           | 109.5                   | 97.0  | 82.4  | 67.8 | 53.3 | -    |
|                        | 62      | 108.9                                | 7.2                           | 108.9                   | 108.9 | 104.0 | 89.2 | 74.5 | 59.7 | 105.4                             | 8.1                           | 105.4                   | 104.8 | 98.1  | 83.6 | 69.0 | 54.4 |
|                        | 57      | 109.8                                | 7.1                           | 109.8                   | 109.8 | 104.7 | 90.0 | 75.3 | 60.5 | 106.5                             | 8.0                           | 106.5                   | 105.9 | 99.2  | 84.6 | 70.0 | 55.4 |
| 4000                   | 77      | 153.2                                | 7.4                           | 81.5                    | 65.1  | 48.7  | -    | -    | -    | 141.5                             | 8.4                           | 81.6                    | 61.2  | 45.0  | -    | -    | -    |
|                        | 72      | 139.7                                | 7.3                           | 103.6                   | 87.2  | 70.8  | 54.4 | -    | -    | 129.3                             | 8.3                           | 99.2                    | 83.0  | 66.8  | 50.6 | -    | -    |
|                        | 67      | 126.3                                | 7.3                           | 125.7                   | 109.3 | 92.9  | 76.5 | 60.1 | -    | 117.1                             | 8.3                           | 116.8                   | 104.8 | 88.6  | 72.4 | 56.2 | -    |
|                        | 62      | 111.4                                | 7.2                           | 111.4                   | 111.4 | 111.4 | 95.0 | 78.6 | 62.2 | 107.5                             | 8.2                           | 107.5                   | 107.5 | 105.5 | 89.3 | 73.1 | 56.9 |
|                        | 57      | 112.3                                | 7.2                           | 112.3                   | 112.3 | 112.3 | 95.9 | 79.5 | 63.1 | 108.6                             | 8.0                           | 108.6                   | 108.6 | 106.6 | 90.4 | 74.2 | 58.0 |
| 4500                   | 72      | 142.6                                | 7.3                           | 111.6                   | 93.7  | 75.8  | 58.0 | -    | -    | 131.3                             | 8.3                           | 106.8                   | 89.1  | 71.5  | 53.8 | -    | -    |
|                        | 67      | 128.9                                | 7.3                           | 128.6                   | 117.4 | 99.5  | 81.6 | 63.7 | -    | 118.9                             | 8.2                           | 118.8                   | 111.3 | 94.8  | 77.1 | 59.4 | -    |
|                        | 62      | 113.7                                | 7.2                           | 113.7                   | 113.7 | 113.7 | 95.8 | 77.9 | 60.0 | 109.2                             | 8.2                           | 109.2                   | 109.2 | 108.2 | 90.5 | 72.8 | 55.1 |
|                        | 57      | 114.6                                | 7.2                           | 114.6                   | 114.6 | 114.6 | 96.7 | 78.8 | 60.9 | 110.3                             | 8.0                           | 110.3                   | 110.3 | 109.3 | 91.6 | 73.9 | 56.3 |
| 5000                   | 72      | 145.5                                | 7.3                           | 119.7                   | 100.3 | 80.9  | 61.5 | -    | -    | 133.4                             | 8.3                           | 114.4                   | 95.3  | 76.1  | 57.0 | -    | -    |
|                        | 67      | 131.5                                | 7.3                           | 131.5                   | 125.5 | 106.1 | 86.7 | 67.3 | -    | 120.8                             | 8.2                           | 120.8                   | 117.8 | 101.0 | 81.8 | 62.7 | -    |
|                        | 62      | 116.0                                | 7.2                           | 116.0                   | 116.0 | 116.0 | 96.6 | 77.2 | 57.8 | 110.9                             | 8.1                           | 110.9                   | 110.9 | 110.9 | 91.7 | 72.6 | 53.4 |
|                        | 57      | 116.9                                | 7.2                           | 116.9                   | 116.9 | 116.9 | 97.5 | 78.1 | 58.7 | 112.0                             | 8.0                           | 112.0                   | 112.0 | 112.0 | 92.8 | 73.7 | 54.5 |

**ZT120 (10 ton) third stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |      |      |      |                                   |                               |                         |       |       |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |      |      |      |                                   |                               | Return dry bulb (°F)    |       |       |      |      |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75   | 70   | 65   |                                   |                               | 90                      | 85    | 80    | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |       |       |      |      |      |                                   |                               | 125°F                   |       |       |      |      |      |
| 2500                   | 77      | 123.5                                | 9.3                           | 50.4                    | 43.4  | 32.3  | -    | -    | -    | 113.9                             | 10.3                          | 44.6                    | 40.0  | 29.0  | -    | -    | -    |
|                        | 72      | 113.1                                | 9.2                           | 71.4                    | 60.3  | 49.1  | 37.9 | -    | -    | 104.5                             | 10.2                          | 67.5                    | 56.4  | 45.4  | 34.3 | -    | -    |
|                        | 67      | 102.7                                | 9.2                           | 92.5                    | 77.1  | 65.9  | 54.8 | 43.6 | -    | 95.1                              | 10.2                          | 90.2                    | 72.8  | 61.8  | 50.7 | 39.7 | -    |
|                        | 62      | 98.6                                 | 9.1                           | 98.6                    | 95.1  | 77.9  | 66.7 | 55.6 | 44.4 | 95.9                              | 10.1                          | 95.9                    | 90.6  | 72.4  | 61.3 | 50.3 | 39.2 |
| 3000                   | 77      | 125.6                                | 9.3                           | 60.8                    | 48.1  | 35.3  | -    | -    | -    | 115.3                             | 10.3                          | 57.1                    | 44.4  | 31.8  | -    | -    | -    |
|                        | 72      | 115.0                                | 9.3                           | 79.2                    | 66.4  | 53.6  | 40.9 | -    | -    | 105.8                             | 10.3                          | 75.1                    | 62.4  | 49.8  | 37.2 | -    | -    |
|                        | 67      | 104.4                                | 9.2                           | 97.6                    | 84.8  | 72.0  | 59.2 | 46.4 | -    | 96.3                              | 10.2                          | 93.1                    | 80.5  | 67.8  | 55.2 | 42.5 | -    |
|                        | 62      | 100.2                                | 9.1                           | 100.2                   | 97.9  | 85.1  | 72.3 | 59.5 | 46.7 | 97.1                              | 10.1                          | 97.1                    | 93.6  | 79.4  | 66.8 | 54.2 | 41.5 |
|                        | 57      | 101.5                                | 8.9                           | 101.5                   | 99.1  | 86.3  | 73.5 | 60.7 | 47.9 | 98.6                              | 9.8                           | 98.6                    | 95.0  | 80.8  | 68.2 | 55.5 | 42.9 |
| 3500                   | 77      | 127.7                                | 9.3                           | 71.3                    | 52.7  | 38.2  | -    | -    | -    | 116.7                             | 10.3                          | 69.6                    | 48.9  | 34.6  | -    | -    | -    |
|                        | 72      | 116.9                                | 9.3                           | 87.0                    | 72.6  | 58.2  | 43.8 | -    | -    | 107.1                             | 10.3                          | 82.7                    | 68.5  | 54.2  | 40.0 | -    | -    |
|                        | 67      | 106.1                                | 9.2                           | 102.7                   | 92.5  | 78.1  | 63.7 | 49.3 | -    | 97.5                              | 10.2                          | 96.0                    | 88.1  | 73.8  | 59.6 | 45.4 | -    |
|                        | 62      | 101.9                                | 9.1                           | 101.9                   | 100.7 | 92.3  | 77.9 | 63.5 | 49.1 | 98.4                              | 10.1                          | 98.4                    | 96.6  | 86.5  | 72.3 | 58.0 | 43.8 |
|                        | 57      | 103.2                                | 8.9                           | 103.2                   | 102.0 | 93.6  | 79.2 | 64.8 | 50.4 | 99.9                              | 9.8                           | 99.9                    | 98.1  | 88.0  | 73.8 | 59.5 | 45.3 |
| 4000                   | 77      | 129.8                                | 9.4                           | 81.7                    | 57.3  | 41.2  | -    | -    | -    | 118.1                             | 10.4                          | 82.1                    | 53.3  | 37.5  | -    | -    | -    |
|                        | 72      | 118.8                                | 9.3                           | 94.8                    | 78.8  | 62.7  | 46.7 | -    | -    | 108.4                             | 10.3                          | 90.3                    | 74.5  | 58.7  | 42.8 | -    | -    |
|                        | 67      | 107.8                                | 9.2                           | 107.8                   | 100.2 | 84.2  | 68.2 | 52.2 | -    | 98.6                              | 10.2                          | 98.6                    | 95.7  | 79.9  | 64.0 | 48.2 | -    |
|                        | 62      | 103.6                                | 9.1                           | 103.6                   | 103.6 | 99.5  | 83.5 | 67.5 | 51.5 | 99.6                              | 10.1                          | 99.6                    | 99.6  | 93.6  | 77.7 | 61.9 | 46.1 |
|                        | 57      | 104.9                                | 8.9                           | 104.9                   | 104.9 | 100.9 | 84.9 | 68.9 | 52.8 | 101.2                             | 9.8                           | 101.2                   | 101.2 | 95.2  | 79.4 | 63.5 | 47.7 |
| 4500                   | 72      | 120.1                                | 9.3                           | 102.0                   | 84.5  | 67.1  | 49.6 | -    | -    | 108.8                             | 10.3                          | 97.2                    | 79.9  | 62.7  | 45.5 | -    | -    |
|                        | 67      | 109.0                                | 9.2                           | 109.0                   | 105.2 | 90.1  | 72.6 | 55.1 | -    | 99.0                              | 10.2                          | 99.0                    | 99.0  | 85.3  | 68.1 | 50.9 | -    |
|                        | 62      | 104.6                                | 9.1                           | 104.6                   | 104.6 | 102.6 | 85.2 | 67.7 | 50.3 | 100.1                             | 10.1                          | 100.1                   | 100.1 | 97.1  | 79.8 | 62.6 | 45.4 |
|                        | 57      | 106.0                                | 8.9                           | 106.0                   | 106.0 | 104.0 | 86.5 | 69.1 | 51.6 | 101.7                             | 9.8                           | 101.7                   | 101.7 | 98.7  | 81.4 | 64.2 | 47.0 |
| 5000                   | 72      | 121.3                                | 9.3                           | 109.2                   | 90.3  | 71.4  | 52.5 | -    | -    | 109.2                             | 10.2                          | 104.0                   | 85.4  | 66.7  | 48.1 | -    | -    |
|                        | 67      | 110.1                                | 9.2                           | 110.1                   | 110.1 | 95.9  | 77.0 | 58.1 | -    | 99.4                              | 10.2                          | 99.4                    | 99.4  | 90.8  | 72.2 | 53.5 | -    |
|                        | 62      | 105.7                                | 9.1                           | 105.7                   | 105.7 | 105.7 | 86.8 | 67.9 | 49.0 | 100.6                             | 10.1                          | 100.6                   | 100.6 | 100.6 | 81.9 | 63.3 | 44.6 |
|                        | 57      | 107.1                                | 8.9                           | 107.1                   | 107.1 | 107.1 | 88.2 | 69.3 | 50.4 | 102.2                             | 9.7                           | 102.2                   | 102.2 | 102.2 | 83.5 | 64.9 | 46.2 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**ZT150 (12.5 ton) first stage cooling**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 1500                   | 77      | 78.0                                 | 2.3                           | 33.1                    | 32.1 | 23.3 | -    | -    | -    | 70.7                              | 2.8                           | 33.7                    | 29.2 | 21.6 | -    | -    | -    |
|                        | 72      | 69.4                                 | 2.4                           | 47.0                    | 39.3 | 31.6 | 24.0 | -    | -    | 64.0                              | 2.9                           | 45.6                    | 38.0 | 30.4 | 22.9 | -    | -    |
|                        | 67      | 60.8                                 | 2.4                           | 60.8                    | 46.5 | 39.9 | 32.3 | 24.6 | -    | 57.4                              | 2.9                           | 57.4                    | 46.8 | 39.3 | 31.7 | 24.1 | -    |
|                        | 62      | 55.9                                 | 2.4                           | 55.9                    | 55.9 | 48.5 | 40.9 | 33.2 | 25.5 | 54.0                              | 2.9                           | 54.0                    | 54.0 | 45.4 | 37.8 | 30.2 | 22.7 |
| 1800                   | 77      | 80.3                                 | 2.3                           | 42.6                    | 34.6 | 25.7 | -    | -    | -    | 72.7                              | 2.8                           | 43.1                    | 32.5 | 23.7 | -    | -    | -    |
|                        | 72      | 71.5                                 | 2.4                           | 52.6                    | 43.8 | 34.9 | 26.0 | -    | -    | 65.8                              | 2.9                           | 51.0                    | 42.2 | 33.3 | 24.5 | -    | -    |
|                        | 67      | 62.7                                 | 2.4                           | 62.7                    | 52.9 | 44.0 | 35.2 | 26.3 | -    | 59.0                              | 2.9                           | 59.0                    | 51.8 | 43.0 | 34.1 | 25.3 | -    |
|                        | 62      | 57.6                                 | 2.4                           | 57.6                    | 57.6 | 53.5 | 44.6 | 35.7 | 26.8 | 55.5                              | 2.9                           | 55.5                    | 55.5 | 49.7 | 40.8 | 32.0 | 23.1 |
|                        | 57      | 60.1                                 | 2.4                           | 60.1                    | 60.1 | 51.4 | 42.5 | 33.6 | 24.7 | 57.0                              | 2.9                           | 57.0                    | 57.0 | 48.7 | 39.8 | 31.0 | 22.1 |
| 2100                   | 77      | 82.7                                 | 2.3                           | 52.1                    | 37.1 | 28.1 | -    | -    | -    | 74.6                              | 2.8                           | 52.4                    | 35.9 | 25.7 | -    | -    | -    |
|                        | 72      | 73.6                                 | 2.4                           | 58.3                    | 48.2 | 38.1 | 28.0 | -    | -    | 67.6                              | 2.9                           | 56.5                    | 46.4 | 36.2 | 26.1 | -    | -    |
|                        | 67      | 64.5                                 | 2.4                           | 64.5                    | 59.4 | 48.2 | 38.1 | 27.9 | -    | 60.6                              | 2.9                           | 60.6                    | 56.9 | 46.7 | 36.6 | 26.5 | -    |
|                        | 62      | 59.3                                 | 2.4                           | 59.3                    | 59.3 | 58.5 | 48.4 | 38.3 | 28.1 | 57.0                              | 2.9                           | 57.0                    | 57.0 | 54.0 | 43.9 | 33.8 | 23.6 |
|                        | 57      | 61.9                                 | 2.4                           | 61.9                    | 61.9 | 56.1 | 46.0 | 35.9 | 25.8 | 58.5                              | 2.9                           | 58.5                    | 58.5 | 52.9 | 42.8 | 32.7 | 22.5 |
| 2400                   | 77      | 85.0                                 | 2.3                           | 61.7                    | 39.6 | 30.5 | -    | -    | -    | 76.6                              | 2.8                           | 61.7                    | 39.2 | 27.8 | -    | -    | -    |
|                        | 72      | 75.7                                 | 2.4                           | 64.0                    | 52.7 | 41.4 | 30.1 | -    | -    | 69.4                              | 2.9                           | 62.0                    | 50.5 | 39.1 | 27.7 | -    | -    |
|                        | 67      | 66.4                                 | 2.4                           | 66.4                    | 65.8 | 52.3 | 40.9 | 29.6 | -    | 62.2                              | 2.9                           | 62.2                    | 61.9 | 50.5 | 39.1 | 27.6 | -    |
|                        | 62      | 61.0                                 | 2.4                           | 61.0                    | 61.0 | 61.0 | 52.1 | 40.8 | 29.5 | 58.5                              | 2.9                           | 58.5                    | 58.5 | 58.3 | 46.9 | 35.5 | 24.1 |
|                        | 57      | 63.6                                 | 2.4                           | 63.6                    | 63.6 | 60.9 | 49.6 | 38.3 | 27.0 | 60.0                              | 2.9                           | 60.0                    | 60.0 | 57.2 | 45.7 | 34.3 | 22.9 |
| 2700                   | 72      | 78.2                                 | 2.4                           | 72.3                    | 57.1 | 44.4 | 31.7 | -    | -    | 71.0                              | 2.9                           | 67.2                    | 54.5 | 41.8 | 29.1 | -    | -    |
|                        | 67      | 68.6                                 | 2.4                           | 68.6                    | 68.3 | 56.1 | 43.5 | 30.8 | -    | 63.6                              | 2.9                           | 63.6                    | 63.4 | 53.9 | 41.2 | 28.5 | -    |
|                        | 62      | 63.1                                 | 2.4                           | 63.1                    | 63.1 | 63.1 | 51.7 | 39.0 | 26.3 | 59.8                              | 2.9                           | 59.8                    | 59.8 | 59.8 | 47.0 | 34.3 | 21.6 |
|                        | 57      | 65.8                                 | 2.4                           | 65.8                    | 65.8 | 64.4 | 51.8 | 39.1 | 26.5 | 61.4                              | 2.9                           | 61.4                    | 61.4 | 60.0 | 47.3 | 34.5 | 21.8 |
| 3000                   | 72      | 80.7                                 | 2.3                           | 80.6                    | 61.4 | 47.4 | 33.4 | -    | -    | 72.5                              | 2.8                           | 72.4                    | 58.4 | 44.4 | 30.4 | -    | -    |
|                        | 67      | 70.9                                 | 2.4                           | 70.9                    | 70.9 | 60.0 | 46.0 | 32.0 | -    | 65.0                              | 2.9                           | 65.0                    | 65.0 | 57.3 | 43.3 | 29.3 | -    |
|                        | 62      | 65.2                                 | 2.4                           | 65.2                    | 65.2 | 65.2 | 51.2 | 37.2 | 23.2 | 61.2                              | 2.9                           | 61.2                    | 61.2 | 61.2 | 47.2 | 33.2 | 19.2 |
|                        | 57      | 68.0                                 | 2.4                           | 68.0                    | 68.0 | 68.0 | 54.0 | 40.0 | 26.0 | 62.8                              | 2.9                           | 62.8                    | 62.8 | 62.8 | 48.8 | 34.8 | 20.8 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 105°F                   |      |      |      |      |      |
| 1500                   | 77      | 63.4                                 | 3.3                           | 34.4                    | 26.2 | 19.9 | -    | -    | -    | 57.6                              | 3.9                           | 35.7                    | 23.1 | 18.0 | -    | -    | -    |
|                        | 72      | 58.7                                 | 3.4                           | 44.2                    | 36.7 | 29.2 | 21.8 | -    | -    | 53.1                              | 4.0                           | 42.2                    | 34.2 | 26.9 | 19.6 | -    | -    |
|                        | 67      | 53.9                                 | 3.4                           | 53.9                    | 47.2 | 38.6 | 31.1 | 23.7 | -    | 48.6                              | 4.0                           | 48.6                    | 45.2 | 35.7 | 28.4 | 21.2 | -    |
|                        | 62      | 52.1                                 | 3.4                           | 52.1                    | 52.1 | 42.2 | 34.7 | 27.3 | 19.8 | 47.3                              | 4.0                           | 47.3                    | 47.3 | 38.8 | 31.5 | 24.2 | 16.9 |
| 1800                   | 77      | 65.0                                 | 3.3                           | 43.5                    | 30.4 | 21.6 | -    | -    | -    | 59.1                              | 3.9                           | 43.4                    | 28.4 | 19.7 | -    | -    | -    |
|                        | 72      | 60.1                                 | 3.4                           | 49.4                    | 40.6 | 31.8 | 23.0 | -    | -    | 54.4                              | 3.9                           | 46.6                    | 38.0 | 29.4 | 20.8 | -    | -    |
|                        | 67      | 55.3                                 | 3.4                           | 55.3                    | 50.8 | 42.0 | 33.1 | 24.3 | -    | 49.8                              | 4.0                           | 49.8                    | 47.6 | 39.1 | 30.4 | 21.8 | -    |
|                        | 62      | 53.4                                 | 3.4                           | 53.4                    | 53.4 | 45.9 | 37.1 | 28.3 | 19.5 | 48.6                              | 4.0                           | 48.6                    | 48.6 | 42.4 | 33.8 | 25.1 | 16.5 |
|                        | 57      | 53.8                                 | 3.4                           | 53.8                    | 53.8 | 46.0 | 37.2 | 28.4 | 19.6 | 49.3                              | 4.0                           | 49.3                    | 49.3 | 42.0 | 33.4 | 24.7 | 16.1 |
| 2100                   | 77      | 66.6                                 | 3.3                           | 52.7                    | 34.6 | 23.4 | -    | -    | -    | 60.5                              | 3.9                           | 51.1                    | 33.8 | 21.4 | -    | -    | -    |
|                        | 72      | 61.6                                 | 3.4                           | 54.6                    | 44.5 | 34.3 | 24.2 | -    | -    | 55.8                              | 3.9                           | 51.1                    | 41.9 | 31.9 | 21.9 | -    | -    |
|                        | 67      | 56.6                                 | 3.4                           | 56.6                    | 54.4 | 45.3 | 35.2 | 25.0 | -    | 51.1                              | 4.0                           | 51.1                    | 50.0 | 42.4 | 32.4 | 22.4 | -    |
|                        | 62      | 54.7                                 | 3.4                           | 54.7                    | 54.7 | 49.6 | 39.4 | 29.2 | 19.1 | 49.8                              | 4.0                           | 49.8                    | 49.8 | 46.0 | 36.0 | 26.1 | 16.1 |
|                        | 57      | 55.1                                 | 3.4                           | 55.1                    | 55.1 | 49.7 | 39.5 | 29.4 | 19.2 | 50.6                              | 4.0                           | 50.6                    | 50.6 | 45.6 | 35.6 | 25.6 | 15.6 |
| 2400                   | 77      | 68.1                                 | 3.3                           | 61.8                    | 38.8 | 25.1 | -    | -    | -    | 62.0                              | 3.9                           | 58.9                    | 39.1 | 23.1 | -    | -    | -    |
|                        | 72      | 63.0                                 | 3.4                           | 59.9                    | 48.4 | 36.9 | 25.4 | -    | -    | 57.2                              | 3.9                           | 55.6                    | 45.7 | 34.4 | 23.1 | -    | -    |
|                        | 67      | 58.0                                 | 3.4                           | 58.0                    | 58.0 | 48.7 | 37.2 | 25.7 | -    | 52.3                              | 4.0                           | 52.3                    | 52.3 | 45.7 | 34.4 | 23.1 | -    |
|                        | 62      | 56.0                                 | 3.4                           | 56.0                    | 56.0 | 53.2 | 41.7 | 30.2 | 18.7 | 51.0                              | 4.0                           | 51.0                    | 51.0 | 49.6 | 38.3 | 27.0 | 15.7 |
|                        | 57      | 56.4                                 | 3.4                           | 56.4                    | 56.4 | 53.4 | 41.9 | 30.4 | 18.9 | 51.8                              | 4.0                           | 51.8                    | 51.8 | 49.1 | 37.8 | 26.5 | 15.2 |
| 2700                   | 72      | 63.7                                 | 3.3                           | 62.1                    | 51.9 | 39.2 | 26.4 | -    | -    | 58.0                              | 3.9                           | 57.2                    | 48.9 | 36.3 | 23.7 | -    | -    |
|                        | 67      | 58.5                                 | 3.4                           | 58.5                    | 58.5 | 51.7 | 38.9 | 26.2 | -    | 53.1                              | 4.0                           | 53.1                    | 53.1 | 48.2 | 35.6 | 23.0 | -    |
|                        | 62      | 56.6                                 | 3.4                           | 56.6                    | 56.6 | 55.2 | 42.4 | 29.7 | 16.9 | 51.7                              | 4.0                           | 51.7                    | 51.7 | 51.0 | 38.4 | 25.8 | 13.2 |
|                        | 57      | 57.0                                 | 3.4                           | 57.0                    | 57.0 | 55.5 | 42.7 | 30.0 | 17.2 | 52.6                              | 4.0                           | 52.6                    | 52.6 | 51.2 | 38.6 | 26.0 | 13.4 |
| 3000                   | 72      | 64.3                                 | 3.3                           | 64.3                    | 55.4 | 41.4 | 27.4 | -    | -    | 58.8                              | 3.9                           | 58.8                    | 52.1 | 38.2 | 24.3 | -    | -    |
|                        | 67      | 59.1                                 | 3.4                           | 59.1                    | 59.1 | 54.7 | 40.7 | 26.7 | -    | 53.8                              | 4.0                           | 53.8                    | 53.8 | 50.7 | 36.8 | 22.9 | -    |
|                        | 62      | 57.1                                 | 3.4                           | 57.1                    | 57.1 | 57.1 | 43.1 | 29.1 | 15.1 | 52.5                              | 4.0                           | 52.5                    | 52.5 | 52.5 | 38.5 | 24.6 | 10.7 |
|                        | 57      | 57.6                                 | 3.4                           | 57.6                    | 57.6 | 57.6 | 43.6 | 29.6 | 15.6 | 53.3                              | 4.0                           | 53.3                    | 53.3 | 53.3 | 39.4 | 25.5 | 11.6 |

**ZT150 (12.5 ton) first stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 1500                   | 77      | 51.7                                 | 4.5                           | 37.0                    | 20.0 | 16.2 | -    | -    | -    | 45.9                              | 5.1                           | 40.0                    | 20.2 | 14.3 | -    | -    | -    |
|                        | 72      | 47.5                                 | 4.5                           | 40.2                    | 31.6 | 24.5 | 17.4 | -    | -    | 41.9                              | 5.1                           | 38.2                    | 29.1 | 22.2 | 15.2 | -    | -    |
|                        | 67      | 43.3                                 | 4.6                           | 43.3                    | 43.3 | 32.9 | 25.8 | 18.7 | -    | 37.9                              | 5.1                           | 37.9                    | 37.9 | 30.0 | 23.1 | 16.1 | -    |
|                        | 62      | 42.6                                 | 4.6                           | 42.6                    | 42.6 | 35.3 | 28.2 | 21.1 | 14.0 | 37.8                              | 5.2                           | 37.8                    | 37.8 | 31.9 | 25.0 | 18.1 | 11.1 |
| 1800                   | 77      | 53.1                                 | 4.5                           | 43.3                    | 26.4 | 17.8 | -    | -    | -    | 47.2                              | 5.1                           | 43.2                    | 26.7 | 15.9 | -    | -    | -    |
|                        | 72      | 48.8                                 | 4.5                           | 43.9                    | 35.4 | 27.0 | 18.5 | -    | -    | 43.1                              | 5.1                           | 41.1                    | 32.8 | 24.6 | 16.3 | -    | -    |
|                        | 67      | 44.4                                 | 4.6                           | 44.4                    | 44.4 | 36.1 | 27.7 | 19.3 | -    | 39.0                              | 5.2                           | 39.0                    | 39.0 | 33.2 | 25.0 | 16.7 | -    |
|                        | 62      | 43.7                                 | 4.6                           | 43.7                    | 43.7 | 38.9 | 30.4 | 22.0 | 13.6 | 38.9                              | 5.2                           | 38.9                    | 38.9 | 35.4 | 27.1 | 18.9 | 10.6 |
|                        | 57      | 44.9                                 | 4.6                           | 44.9                    | 44.9 | 38.0 | 29.5 | 21.1 | 12.6 | 40.4                              | 5.1                           | 40.4                    | 40.4 | 33.9 | 25.7 | 17.4 | 9.2  |
| 2100                   | 77      | 54.5                                 | 4.5                           | 49.6                    | 32.9 | 19.4 | -    | -    | -    | 48.5                              | 5.1                           | 46.5                    | 33.2 | 17.5 | -    | -    | -    |
|                        | 72      | 50.0                                 | 4.5                           | 47.6                    | 39.2 | 29.4 | 19.7 | -    | -    | 44.2                              | 5.1                           | 44.0                    | 36.6 | 27.0 | 17.4 | -    | -    |
|                        | 67      | 45.6                                 | 4.6                           | 45.6                    | 45.6 | 39.4 | 29.7 | 19.9 | -    | 40.0                              | 5.2                           | 40.0                    | 40.0 | 36.5 | 26.9 | 17.3 | -    |
|                        | 62      | 44.8                                 | 4.6                           | 44.8                    | 44.8 | 42.4 | 32.6 | 22.9 | 13.1 | 39.9                              | 5.2                           | 39.9                    | 39.9 | 38.9 | 29.3 | 19.7 | 10.1 |
|                        | 57      | 46.0                                 | 4.6                           | 46.0                    | 46.0 | 41.4 | 31.6 | 21.8 | 12.1 | 41.5                              | 5.2                           | 41.5                    | 41.5 | 37.3 | 27.7 | 18.1 | 8.5  |
| 2400                   | 77      | 55.9                                 | 4.5                           | 55.9                    | 39.3 | 21.1 | -    | -    | -    | 49.7                              | 5.1                           | 49.7                    | 39.6 | 19.1 | -    | -    | -    |
|                        | 72      | 51.3                                 | 4.5                           | 51.3                    | 43.0 | 31.9 | 20.8 | -    | -    | 45.4                              | 5.1                           | 45.4                    | 40.3 | 29.4 | 18.5 | -    | -    |
|                        | 67      | 46.7                                 | 4.6                           | 46.7                    | 46.7 | 42.7 | 31.6 | 20.5 | -    | 41.1                              | 5.2                           | 41.1                    | 41.1 | 39.8 | 28.8 | 17.9 | -    |
|                        | 62      | 46.0                                 | 4.6                           | 46.0                    | 46.0 | 46.0 | 34.8 | 23.7 | 12.6 | 41.0                              | 5.2                           | 41.0                    | 41.0 | 41.0 | 31.4 | 20.5 | 9.5  |
|                        | 57      | 47.2                                 | 4.6                           | 47.2                    | 47.2 | 44.9 | 33.7 | 22.6 | 11.5 | 42.6                              | 5.2                           | 42.6                    | 42.6 | 40.6 | 29.7 | 18.7 | 7.8  |
| 2700                   | 72      | 52.3                                 | 4.5                           | 52.3                    | 45.9 | 33.4 | 20.9 | -    | -    | 46.6                              | 5.1                           | 46.6                    | 42.8 | 30.5 | 18.2 | -    | -    |
|                        | 67      | 47.6                                 | 4.6                           | 47.6                    | 47.6 | 44.7 | 32.3 | 19.8 | -    | 42.2                              | 5.1                           | 42.2                    | 42.2 | 41.3 | 29.0 | 16.6 | -    |
|                        | 62      | 46.9                                 | 4.6                           | 46.9                    | 46.9 | 46.9 | 34.4 | 22.0 | 9.5  | 42.0                              | 5.2                           | 42.0                    | 42.0 | 42.0 | 30.4 | 18.1 | 5.8  |
|                        | 57      | 48.1                                 | 4.6                           | 48.1                    | 48.1 | 47.0 | 34.5 | 22.0 | 9.6  | 43.7                              | 5.1                           | 43.7                    | 43.7 | 42.7 | 30.4 | 18.1 | 5.7  |
| 3000                   | 72      | 53.3                                 | 4.5                           | 53.3                    | 48.7 | 34.9 | 21.1 | -    | -    | 47.8                              | 5.1                           | 47.8                    | 45.3 | 31.6 | 17.9 | -    | -    |
|                        | 67      | 48.5                                 | 4.5                           | 48.5                    | 48.5 | 46.8 | 33.0 | 19.2 | -    | 43.3                              | 5.1                           | 43.3                    | 43.3 | 42.8 | 29.1 | 15.4 | -    |
|                        | 62      | 47.8                                 | 4.6                           | 47.8                    | 47.8 | 47.8 | 34.0 | 20.2 | 6.4  | 43.1                              | 5.1                           | 43.1                    | 43.1 | 43.1 | 29.4 | 15.7 | 2.0  |
|                        | 57      | 49.0                                 | 4.5                           | 49.0                    | 49.0 | 49.0 | 35.2 | 21.4 | 7.6  | 44.8                              | 5.1                           | 44.8                    | 44.8 | 44.8 | 31.1 | 17.4 | 3.7  |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



**ZT150 (12.5 ton) second stage cooling**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |      |      |                                   |                               |                         |       |       |      |      |      |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |      |      |                                   |                               | Return dry bulb (°F)    |       |       |      |      |      |  |  |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70   | 65   |                                   |                               | 90                      | 85    | 80    | 75   | 70   | 65   |  |  |
|                        |         | 75°F                                 |                               |                         |       |       |       |      |      |                                   | 85°F                          |                         |       |       |      |      |      |  |  |
| 2250                   | 77      | 142.7                                | 4.9                           | 63.9                    | 52.4  | 41.7  | -     | -    | -    | 134.6                             | 5.8                           | 60.4                    | 49.7  | 39.0  | -    | -    | -    |  |  |
|                        | 72      | 130.8                                | 5.0                           | 79.5                    | 68.8  | 58.0  | 47.3  | -    | -    | 123.4                             | 5.8                           | 76.2                    | 65.5  | 54.8  | 44.1 | -    | -    |  |  |
|                        | 67      | 118.9                                | 5.0                           | 95.1                    | 85.2  | 74.4  | 63.7  | 53.0 | -    | 112.2                             | 5.9                           | 91.9                    | 81.2  | 70.5  | 59.8 | 49.1 | -    |  |  |
|                        | 62      | 106.6                                | 5.0                           | 106.6                   | 104.7 | 88.9  | 78.2  | 67.5 | 56.7 | 102.7                             | 5.9                           | 102.7                   | 100.4 | 84.5  | 73.8 | 63.1 | 52.4 |  |  |
| 2700                   | 77      | 148.6                                | 4.9                           | 70.6                    | 58.1  | 45.6  | -     | -    | -    | 139.3                             | 5.7                           | 67.5                    | 55.1  | 42.7  | -    | -    | -    |  |  |
|                        | 72      | 136.2                                | 4.9                           | 88.5                    | 76.0  | 63.5  | 51.0  | -    | -    | 127.7                             | 5.8                           | 84.7                    | 72.3  | 59.8  | 47.4 | -    | -    |  |  |
|                        | 67      | 123.8                                | 5.0                           | 106.5                   | 94.0  | 81.4  | 68.9  | 56.4 | -    | 116.2                             | 5.9                           | 101.9                   | 89.5  | 77.0  | 64.6 | 52.2 | -    |  |  |
|                        | 62      | 111.1                                | 5.0                           | 111.1                   | 109.8 | 97.2  | 84.7  | 72.2 | 59.7 | 106.3                             | 5.9                           | 106.3                   | 104.7 | 92.3  | 79.9 | 67.5 | 55.1 |  |  |
|                        | 57      | 112.5                                | 5.0                           | 112.5                   | 111.7 | 99.2  | 86.7  | 74.1 | 61.6 | 107.3                             | 5.9                           | 107.3                   | 105.8 | 93.4  | 80.9 | 68.5 | 56.1 |  |  |
| 3150                   | 77      | 154.5                                | 4.8                           | 77.3                    | 63.8  | 49.5  | -     | -    | -    | 144.0                             | 5.7                           | 74.6                    | 60.4  | 46.3  | -    | -    | -    |  |  |
|                        | 72      | 141.6                                | 4.9                           | 97.6                    | 83.3  | 69.0  | 54.7  | -    | -    | 132.1                             | 5.8                           | 93.2                    | 79.1  | 64.9  | 50.8 | -    | -    |  |  |
|                        | 67      | 128.7                                | 4.9                           | 117.8                   | 102.7 | 88.4  | 74.1  | 59.8 | -    | 120.1                             | 5.8                           | 111.9                   | 97.7  | 83.6  | 69.4 | 55.3 | -    |  |  |
|                        | 62      | 115.5                                | 4.9                           | 115.5                   | 114.8 | 105.6 | 91.3  | 77.0 | 62.7 | 109.9                             | 5.9                           | 109.9                   | 109.1 | 100.1 | 86.0 | 71.8 | 57.7 |  |  |
| 3600                   | 57      | 117.0                                | 4.9                           | 117.0                   | 116.6 | 107.7 | 93.4  | 79.1 | 64.8 | 110.9                             | 5.9                           | 110.9                   | 110.2 | 101.3 | 87.1 | 73.0 | 58.8 |  |  |
|                        | 77      | 160.4                                | 4.8                           | 84.0                    | 69.5  | 53.4  | -     | -    | -    | 148.8                             | 5.7                           | 81.6                    | 65.8  | 49.9  | -    | -    | -    |  |  |
|                        | 72      | 147.0                                | 4.8                           | 106.6                   | 90.5  | 74.4  | 58.3  | -    | -    | 136.4                             | 5.7                           | 101.7                   | 85.9  | 70.0  | 54.1 | -    | -    |  |  |
|                        | 67      | 133.7                                | 4.9                           | 129.2                   | 111.5 | 95.4  | 79.4  | 63.3 | -    | 124.1                             | 5.8                           | 121.8                   | 106.0 | 90.1  | 74.2 | 58.3 | -    |  |  |
|                        | 62      | 119.9                                | 4.9                           | 119.9                   | 119.9 | 114.0 | 97.9  | 81.8 | 65.7 | 113.5                             | 5.9                           | 113.5                   | 113.5 | 108.0 | 92.1 | 76.2 | 60.3 |  |  |
| 4050                   | 57      | 121.5                                | 4.9                           | 121.5                   | 121.5 | 116.2 | 100.1 | 84.0 | 67.9 | 114.6                             | 5.9                           | 114.6                   | 114.6 | 109.2 | 93.3 | 77.4 | 61.5 |  |  |
|                        | 72      | 149.5                                | 4.8                           | 113.3                   | 95.8  | 78.3  | 60.8  | -    | -    | 138.7                             | 5.7                           | 108.8                   | 91.5  | 74.2  | 56.9 | -    | -    |  |  |
|                        | 67      | 135.9                                | 4.8                           | 133.7                   | 117.9 | 100.4 | 82.9  | 65.4 | -    | 126.2                             | 5.8                           | 125.0                   | 112.8 | 95.5  | 78.2 | 60.9 | -    |  |  |
|                        | 62      | 122.0                                | 4.8                           | 122.0                   | 122.0 | 119.0 | 101.5 | 83.9 | 66.4 | 115.4                             | 5.8                           | 115.4                   | 115.4 | 112.7 | 95.3 | 78.0 | 60.7 |  |  |
|                        | 57      | 123.5                                | 4.8                           | 123.5                   | 123.5 | 120.9 | 103.4 | 85.9 | 68.4 | 116.5                             | 5.8                           | 116.5                   | 116.5 | 113.8 | 96.5 | 79.1 | 61.8 |  |  |
| 4500                   | 72      | 152.0                                | 4.7                           | 120.1                   | 101.1 | 82.2  | 63.3  | -    | -    | 141.0                             | 5.7                           | 116.0                   | 97.2  | 78.4  | 59.6 | -    | -    |  |  |
|                        | 67      | 138.2                                | 4.8                           | 138.2                   | 124.3 | 105.4 | 86.5  | 67.6 | -    | 128.2                             | 5.7                           | 128.2                   | 119.7 | 100.9 | 82.2 | 63.4 | -    |  |  |
|                        | 62      | 124.0                                | 4.8                           | 124.0                   | 124.0 | 124.0 | 105.0 | 86.1 | 67.2 | 117.3                             | 5.8                           | 117.3                   | 117.3 | 117.3 | 98.6 | 79.8 | 61.0 |  |  |
|                        | 57      | 125.6                                | 4.8                           | 125.6                   | 125.6 | 125.6 | 106.6 | 87.7 | 68.8 | 118.4                             | 5.8                           | 118.4                   | 118.4 | 118.4 | 99.6 | 80.9 | 62.1 |  |  |
|                        |         | 95°F                                 |                               |                         |       |       |       |      |      |                                   | 105°F                         |                         |       |       |      |      |      |  |  |
| 2250                   | 77      | 126.4                                | 6.6                           | 57.0                    | 47.1  | 36.4  | -     | -    | -    | 116.2                             | 7.8                           | 50.8                    | 43.6  | 33.0  | -    | -    | -    |  |  |
|                        | 72      | 116.0                                | 6.7                           | 72.9                    | 62.2  | 51.5  | 40.8  | -    | -    | 106.5                             | 7.8                           | 68.9                    | 58.3  | 47.7  | 37.2 | -    | -    |  |  |
|                        | 67      | 105.6                                | 6.8                           | 88.7                    | 77.2  | 66.6  | 55.9  | 45.2 | -    | 96.9                              | 7.9                           | 87.0                    | 73.0  | 62.4  | 51.9 | 41.3 | -    |  |  |
|                        | 62      | 98.8                                 | 6.9                           | 98.8                    | 96.1  | 80.1  | 69.4  | 58.8 | 48.1 | 91.7                              | 8.0                           | 91.7                    | 89.0  | 73.2  | 62.6 | 52.0 | 41.4 |  |  |
| 2700                   | 77      | 130.0                                | 6.6                           | 64.4                    | 52.1  | 39.7  | -     | -    | -    | 119.5                             | 7.8                           | 60.7                    | 48.5  | 36.2  | -    | -    | -    |  |  |
|                        | 72      | 119.3                                | 6.7                           | 80.9                    | 68.5  | 56.2  | 43.8  | -    | -    | 109.6                             | 7.8                           | 76.9                    | 64.6  | 52.4  | 40.1 | -    | -    |  |  |
|                        | 67      | 108.5                                | 6.7                           | 97.3                    | 85.0  | 72.6  | 60.3  | 47.9 | -    | 99.7                              | 7.9                           | 93.0                    | 80.8  | 68.5  | 56.2 | 44.0 | -    |  |  |
|                        | 62      | 101.6                                | 6.9                           | 101.6                   | 99.7  | 87.4  | 75.1  | 62.7 | 50.4 | 94.3                              | 8.0                           | 94.3                    | 92.5  | 80.2  | 68.0 | 55.7 | 43.4 |  |  |
|                        | 57      | 102.1                                | 6.9                           | 102.1                   | 99.9  | 87.6  | 75.2  | 62.9 | 50.5 | 94.7                              | 8.0                           | 94.7                    | 92.5  | 80.3  | 68.0 | 55.7 | 43.5 |  |  |
| 3150                   | 77      | 133.6                                | 6.6                           | 71.8                    | 57.1  | 43.1  | -     | -    | -    | 122.7                             | 7.8                           | 70.7                    | 53.4  | 39.4  | -    | -    | -    |  |  |
|                        | 72      | 122.5                                | 6.7                           | 88.9                    | 74.9  | 60.9  | 46.9  | -    | -    | 112.6                             | 7.8                           | 84.9                    | 70.9  | 57.0  | 43.0 | -    | -    |  |  |
|                        | 67      | 111.5                                | 6.7                           | 105.9                   | 92.7  | 78.7  | 64.7  | 50.7 | -    | 102.4                             | 7.9                           | 99.1                    | 88.5  | 74.5  | 60.6 | 46.6 | -    |  |  |
|                        | 62      | 104.3                                | 6.9                           | 104.3                   | 103.4 | 94.7  | 80.7  | 66.7 | 52.7 | 96.9                              | 8.0                           | 96.9                    | 96.0  | 87.3  | 73.3 | 59.4 | 45.4 |  |  |
|                        | 57      | 104.9                                | 6.9                           | 104.9                   | 103.8 | 94.9  | 80.9  | 66.9 | 52.9 | 97.3                              | 8.0                           | 97.3                    | 96.2  | 87.3  | 73.4 | 59.4 | 45.5 |  |  |
| 3600                   | 77      | 137.1                                | 6.6                           | 79.3                    | 62.0  | 46.4  | -     | -    | -    | 126.0                             | 7.8                           | 80.6                    | 58.2  | 42.6  | -    | -    | -    |  |  |
|                        | 72      | 125.8                                | 6.7                           | 96.9                    | 81.2  | 65.5  | 49.9  | -    | -    | 115.6                             | 7.8                           | 92.9                    | 77.2  | 61.6  | 45.9 | -    | -    |  |  |
|                        | 67      | 114.5                                | 6.7                           | 114.5                   | 100.4 | 84.7  | 69.1  | 53.4 | -    | 105.1                             | 7.9                           | 105.1                   | 96.2  | 80.6  | 64.9 | 49.3 | -    |  |  |
|                        | 62      | 107.1                                | 6.9                           | 107.1                   | 107.1 | 102.0 | 86.3  | 70.6 | 55.0 | 99.5                              | 8.0                           | 99.5                    | 99.5  | 94.4  | 78.7 | 63.1 | 47.4 |  |  |
|                        | 57      | 107.6                                | 6.9                           | 107.6                   | 107.6 | 102.2 | 86.5  | 70.8 | 55.2 | 99.9                              | 8.0                           | 99.9                    | 99.9  | 94.4  | 78.8 | 63.1 | 47.5 |  |  |
| 4050                   | 72      | 127.9                                | 6.6                           | 104.4                   | 87.2  | 70.1  | 52.9  | -    | -    | 117.2                             | 7.8                           | 100.2                   | 83.1  | 66.0  | 48.8 | -    | -    |  |  |
|                        | 67      | 116.4                                | 6.7                           | 116.4                   | 107.7 | 90.6  | 73.4  | 56.3 | -    | 106.6                             | 7.9                           | 106.6                   | 101.3 | 86.3  | 69.2 | 52.0 | -    |  |  |
|                        | 62      | 108.9                                | 6.8                           | 108.9                   | 108.9 | 106.3 | 89.2  | 72.1 | 54.9 | 100.9                             | 8.0                           | 100.9                   | 100.9 | 98.3  | 81.2 | 64.0 | 46.9 |  |  |
|                        | 57      | 109.5                                | 6.9                           | 109.5                   | 109.5 | 106.7 | 89.6  | 72.4 | 55.3 | 101.3                             | 8.0                           | 101.3                   | 101.3 | 98.6  | 81.4 | 64.3 | 47.2 |  |  |
| 4500                   | 72      | 130.0                                | 6.6                           | 111.9                   | 93.2  | 74.6  | 56.0  | -    | -    | 118.8                             | 7.8                           | 107.5                   | 88.9  | 70.3  | 51.7 | -    | -    |  |  |
|                        | 67      | 118.3                                | 6.7                           | 118.3                   | 115.1 | 96.4  | 77.8  | 59.2 | -    | 108.1                             | 7.9                           | 108.1                   | 106.5 | 92.0  | 73.4 | 54.8 | -    |  |  |
|                        | 62      | 110.7                                | 6.8                           | 110.7                   | 110.7 | 110.7 | 92.1  | 73.5 | 54.8 | 102.2                             | 8.0                           | 102.2                   | 102.2 | 102.2 | 83.6 | 65.0 | 46.4 |  |  |
|                        | 57      | 111.3                                | 6.8                           | 111.3                   | 111.3 | 111.3 | 92.6  | 74.0 | 55.4 | 102.7                             | 8.0                           | 102.7                   | 102.7 | 102.7 | 84.1 | 65.5 | 46.9 |  |  |

**ZT150 (12.5 ton) second stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      |                                   |                               | 125°F                   |      |      |      |      |      |
| 2250                   | 77      | 105.9                                | 8.9                           | 44.6                    | 40.1 | 29.6 | -    | -    | -    | 95.6                              | 10.1                          | 42.3                    | 35.8 | 26.2 | -    | -    | -    |
|                        | 72      | 97.1                                 | 9.0                           | 64.9                    | 54.4 | 44.0 | 33.5 | -    | -    | 87.6                              | 10.2                          | 61.0                    | 50.6 | 40.2 | 29.8 | -    | -    |
|                        | 67      | 88.3                                 | 9.1                           | 85.2                    | 68.8 | 58.3 | 47.8 | 37.4 | -    | 79.6                              | 10.3                          | 79.6                    | 64.6 | 54.2 | 43.8 | 33.4 | -    |
|                        | 62      | 84.6                                 | 9.2                           | 84.6                    | 82.0 | 66.2 | 55.7 | 45.2 | 34.8 | 77.5                              | 10.3                          | 77.5                    | 74.9 | 59.2 | 48.8 | 38.5 | 28.1 |
| 2700                   | 77      | 108.9                                | 8.9                           | 57.1                    | 44.9 | 32.7 | -    | -    | -    | 98.4                              | 10.1                          | 56.0                    | 41.3 | 29.2 | -    | -    | -    |
|                        | 72      | 99.8                                 | 9.0                           | 72.9                    | 60.7 | 48.5 | 36.3 | -    | -    | 90.1                              | 10.2                          | 68.9                    | 56.8 | 44.7 | 32.6 | -    | -    |
|                        | 67      | 90.8                                 | 9.1                           | 88.8                    | 76.6 | 64.4 | 52.2 | 40.0 | -    | 81.9                              | 10.3                          | 81.9                    | 72.4 | 60.2 | 48.1 | 36.0 | -    |
|                        | 62      | 87.0                                 | 9.2                           | 87.0                    | 85.2 | 73.0 | 60.8 | 48.7 | 36.5 | 79.7                              | 10.3                          | 79.7                    | 78.0 | 65.9 | 53.7 | 41.6 | 29.5 |
|                        | 57      | 87.4                                 | 9.2                           | 87.4                    | 85.2 | 73.0 | 60.8 | 48.6 | 36.4 | 80.0                              | 10.4                          | 80.0                    | 77.8 | 65.7 | 53.6 | 41.4 | 29.3 |
| 3150                   | 77      | 111.9                                | 9.0                           | 69.5                    | 49.7 | 35.8 | -    | -    | -    | 101.1                             | 10.1                          | 69.7                    | 46.7 | 32.1 | -    | -    | -    |
|                        | 72      | 102.6                                | 9.0                           | 80.9                    | 67.0 | 53.1 | 39.2 | -    | -    | 92.6                              | 10.2                          | 76.9                    | 63.1 | 49.2 | 35.3 | -    | -    |
|                        | 67      | 93.3                                 | 9.1                           | 92.3                    | 84.3 | 70.4 | 56.5 | 42.6 | -    | 84.2                              | 10.3                          | 84.2                    | 80.1 | 66.3 | 52.4 | 38.5 | -    |
|                        | 62      | 89.4                                 | 9.2                           | 89.4                    | 88.5 | 79.9 | 66.0 | 52.1 | 38.2 | 81.9                              | 10.3                          | 81.9                    | 81.1 | 72.5 | 58.6 | 44.8 | 30.9 |
|                        | 57      | 89.8                                 | 9.2                           | 89.8                    | 88.7 | 79.8 | 65.9 | 52.0 | 38.1 | 82.3                              | 10.4                          | 82.3                    | 81.1 | 72.3 | 58.4 | 44.6 | 30.7 |
| 3600                   | 77      | 114.9                                | 9.0                           | 82.0                    | 54.5 | 38.8 | -    | -    | -    | 103.8                             | 10.2                          | 83.4                    | 52.1 | 35.0 | -    | -    | -    |
|                        | 72      | 105.4                                | 9.0                           | 88.9                    | 73.3 | 57.6 | 42.0 | -    | -    | 95.1                              | 10.2                          | 84.9                    | 69.3 | 53.7 | 38.1 | -    | -    |
|                        | 67      | 95.8                                 | 9.1                           | 95.8                    | 92.1 | 76.4 | 60.8 | 45.2 | -    | 86.5                              | 10.3                          | 86.5                    | 86.5 | 72.3 | 56.7 | 41.1 | -    |
|                        | 62      | 91.8                                 | 9.2                           | 91.8                    | 91.8 | 86.8 | 71.1 | 55.5 | 39.9 | 84.2                              | 10.4                          | 84.2                    | 84.2 | 79.2 | 63.5 | 47.9 | 32.3 |
|                        | 57      | 92.2                                 | 9.2                           | 92.2                    | 92.2 | 86.7 | 71.0 | 55.4 | 39.8 | 84.5                              | 10.4                          | 84.5                    | 84.5 | 78.9 | 63.3 | 47.7 | 32.1 |
| 4050                   | 72      | 106.5                                | 9.0                           | 96.1                    | 78.9 | 61.8 | 44.7 | -    | -    | 95.8                              | 10.2                          | 91.9                    | 74.8 | 57.7 | 40.6 | -    | -    |
|                        | 67      | 96.8                                 | 9.1                           | 96.8                    | 95.0 | 82.0 | 64.9 | 47.8 | -    | 87.0                              | 10.3                          | 87.0                    | 87.0 | 77.7 | 60.6 | 43.5 | -    |
|                        | 62      | 92.8                                 | 9.1                           | 92.8                    | 92.8 | 90.3 | 73.1 | 56.0 | 38.9 | 84.7                              | 10.3                          | 84.7                    | 84.7 | 82.2 | 65.1 | 48.0 | 30.9 |
|                        | 57      | 93.2                                 | 9.2                           | 93.2                    | 93.2 | 90.4 | 73.3 | 56.2 | 39.1 | 85.1                              | 10.4                          | 85.1                    | 85.1 | 82.3 | 65.2 | 48.1 | 31.0 |
| 4500                   | 72      | 107.6                                | 9.0                           | 103.2                   | 84.6 | 66.0 | 47.4 | -    | -    | 96.4                              | 10.1                          | 96.4                    | 80.3 | 61.7 | 43.1 | -    | -    |
|                        | 67      | 97.8                                 | 9.0                           | 97.8                    | 97.8 | 87.6 | 69.0 | 50.4 | -    | 87.6                              | 10.2                          | 87.6                    | 87.6 | 83.1 | 64.5 | 45.9 | -    |
|                        | 62      | 93.8                                 | 9.1                           | 93.8                    | 93.8 | 93.8 | 75.2 | 56.6 | 37.9 | 85.3                              | 10.2                          | 85.3                    | 85.3 | 85.3 | 66.7 | 48.1 | 29.5 |
|                        | 57      | 94.2                                 | 9.1                           | 94.2                    | 94.2 | 94.2 | 75.6 | 57.0 | 38.4 | 85.6                              | 10.3                          | 85.6                    | 85.6 | 85.6 | 67.0 | 48.4 | 29.8 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT150 (12.5 ton) third stage cooling

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |       |       |                                   |                               |                         |       |       |       |       |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|-------|-------|-----------------------------------|-------------------------------|-------------------------|-------|-------|-------|-------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |       |       | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |       |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |       |       |                                   |                               | Return dry bulb (°F)    |       |       |       |       |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70    | 65    |                                   |                               | 90                      | 85    | 80    | 75    | 70    | 65   |
|                        |         | 75°F                                 |                               |                         |       |       |       |       |       |                                   |                               | 85°F                    |       |       |       |       |      |
| 3125                   | 77      | 165.1                                | 7.3                           | 46.3                    | 30.7  | 14.9  | -     | -     | -     | 167.9                             | 8.4                           | 60.9                    | 46.4  | 31.5  | -     | -     | -    |
|                        | 72      | 160.9                                | 7.3                           | 81.4                    | 65.7  | 49.9  | 34.1  | -     | -     | 159.3                             | 8.3                           | 89.8                    | 75.0  | 60.1  | 45.2  | -     | -    |
|                        | 67      | 156.7                                | 7.2                           | 116.5                   | 100.6 | 84.9  | 69.1  | 53.4  | -     | 150.7                             | 8.2                           | 118.8                   | 103.6 | 88.7  | 73.8  | 58.9  | -    |
|                        | 62      | 156.8                                | 7.3                           | 81.5                    | 55.5  | 46.8  | 31.1  | 15.3  | -0.4  | 146.2                             | 8.2                           | 108.5                   | 93.6  | 78.8  | 63.9  | 49.0  | 34.1 |
| 3750                   | 77      | 176.4                                | 7.4                           | 53.8                    | 37.9  | 22.0  | -     | -     | -     | 175.6                             | 8.4                           | 69.0                    | 53.0  | 37.1  | -     | -     | -    |
|                        | 72      | 171.8                                | 7.3                           | 97.1                    | 81.1  | 65.2  | 49.2  | -     | -     | 166.6                             | 8.3                           | 102.7                   | 86.7  | 70.8  | 54.9  | -     | -    |
|                        | 67      | 167.1                                | 7.3                           | 140.3                   | 124.4 | 108.4 | 92.5  | 76.5  | -     | 157.6                             | 8.3                           | 136.3                   | 120.4 | 104.5 | 88.6  | 72.7  | -    |
|                        | 62      | 167.0                                | 7.3                           | 110.5                   | 81.2  | 65.2  | 49.3  | 33.4  | 17.4  | 152.9                             | 8.2                           | 124.7                   | 108.7 | 92.8  | 76.9  | 61.0  | 45.0 |
|                        | 57      | 145.3                                | 7.2                           | 145.3                   | 122.4 | 106.4 | 90.5  | 74.6  | 58.6  | 143.0                             | 8.2                           | 143.0                   | 129.5 | 113.6 | 97.7  | 81.7  | 65.8 |
| 4375                   | 77      | 187.7                                | 7.4                           | 61.4                    | 45.1  | 29.0  | -     | -     | -     | 183.3                             | 8.4                           | 77.0                    | 59.7  | 42.7  | -     | -     | -    |
|                        | 72      | 182.6                                | 7.4                           | 112.7                   | 96.6  | 80.5  | 64.3  | -     | -     | 173.9                             | 8.4                           | 115.5                   | 98.5  | 81.5  | 64.6  | -     | -    |
|                        | 67      | 177.5                                | 7.3                           | 164.1                   | 148.1 | 132.0 | 115.8 | 99.7  | -     | 164.5                             | 8.3                           | 153.9                   | 137.3 | 120.3 | 103.4 | 86.4  | -    |
|                        | 62      | 177.2                                | 7.3                           | 139.6                   | 106.9 | 83.7  | 67.5  | 51.4  | 35.3  | 159.6                             | 8.3                           | 140.8                   | 123.8 | 106.9 | 89.9  | 72.9  | 55.9 |
|                        | 57      | 154.5                                | 7.2                           | 154.5                   | 143.1 | 131.1 | 115.0 | 98.9  | 82.7  | 149.3                             | 8.2                           | 149.3                   | 142.6 | 130.8 | 113.8 | 96.8  | 79.9 |
| 5000                   | 77      | 199.1                                | 7.5                           | 69.0                    | 52.3  | 36.0  | -     | -     | -     | 191.0                             | 8.4                           | 85.1                    | 66.4  | 48.4  | -     | -     | -    |
|                        | 72      | 193.5                                | 7.4                           | 128.4                   | 112.1 | 95.8  | 79.4  | -     | -     | 181.2                             | 8.4                           | 128.3                   | 110.3 | 92.3  | 74.2  | -     | -    |
|                        | 67      | 187.8                                | 7.4                           | 187.8                   | 171.8 | 155.5 | 139.2 | 122.9 | -     | 171.5                             | 8.3                           | 171.5                   | 154.2 | 136.1 | 118.1 | 100.1 | -    |
|                        | 62      | 187.4                                | 7.4                           | 168.6                   | 132.6 | 102.1 | 85.7  | 69.4  | 53.1  | 166.3                             | 8.3                           | 157.0                   | 138.9 | 120.9 | 102.9 | 84.9  | 66.9 |
|                        | 57      | 163.8                                | 7.3                           | 163.8                   | 163.8 | 155.8 | 139.5 | 123.1 | 106.8 | 155.6                             | 8.2                           | 155.6                   | 155.6 | 148.0 | 130.0 | 111.9 | 93.9 |
| 5625                   | 72      | 191.1                                | 7.4                           | 128.8                   | 109.4 | 90.1  | 70.7  | -     | -     | 181.2                             | 8.4                           | 132.8                   | 112.5 | 92.3  | 72.0  | -     | -    |
|                        | 67      | 185.7                                | 7.4                           | 185.7                   | 167.4 | 148.0 | 128.6 | 109.3 | -     | 171.5                             | 8.3                           | 171.5                   | 156.4 | 136.1 | 115.9 | 95.6  | -    |
|                        | 62      | 185.4                                | 7.4                           | 175.7                   | 135.1 | 97.3  | 77.9  | 58.6  | 39.2  | 166.3                             | 8.3                           | 161.5                   | 141.2 | 120.9 | 100.6 | 80.4  | 60.1 |
|                        | 57      | 161.8                                | 7.2                           | 161.8                   | 161.8 | 150.2 | 130.8 | 111.4 | 92.0  | 155.6                             | 8.2                           | 155.6                   | 155.6 | 148.0 | 127.7 | 107.4 | 87.2 |
| 6250                   | 72      | 188.8                                | 7.4                           | 129.2                   | 106.8 | 84.4  | 61.9  | -     | -     | 181.2                             | 8.4                           | 137.3                   | 114.8 | 92.3  | 69.7  | -     | -    |
|                        | 67      | 183.6                                | 7.3                           | 183.6                   | 163.0 | 140.5 | 118.1 | 95.7  | -     | 171.5                             | 8.3                           | 171.5                   | 158.7 | 136.1 | 113.6 | 91.1  | -    |
|                        | 62      | 183.4                                | 7.3                           | 182.7                   | 137.6 | 92.6  | 70.1  | 47.7  | 25.3  | 166.3                             | 8.3                           | 166.0                   | 143.4 | 120.9 | 98.4  | 75.9  | 53.3 |
|                        | 57      | 159.8                                | 7.2                           | 159.8                   | 159.8 | 144.5 | 122.1 | 99.7  | 77.2  | 155.6                             | 8.2                           | 155.6                   | 155.6 | 148.0 | 125.5 | 102.9 | 80.4 |
|                        |         | 95°F                                 |                               |                         |       |       |       |       |       |                                   |                               | 105°F                   |       |       |       |       |      |
| 3125                   | 77      | 170.6                                | 9.4                           | 75.5                    | 62.1  | 48.1  | -     | -     | -     | 159.2                             | 10.7                          | 68.0                    | 57.5  | 43.6  | -     | -     | -    |
|                        | 72      | 157.6                                | 9.3                           | 98.3                    | 84.3  | 70.3  | 56.3  | -     | -     | 147.2                             | 10.6                          | 93.4                    | 79.4  | 65.5  | 51.5  | -     | -    |
|                        | 67      | 144.6                                | 9.2                           | 121.0                   | 106.5 | 92.5  | 78.5  | 64.5  | -     | 135.2                             | 10.5                          | 118.8                   | 101.3 | 87.4  | 73.4  | 59.5  | -    |
|                        | 62      | 135.5                                | 9.2                           | 135.5                   | 131.8 | 110.7 | 96.7  | 82.7  | 68.7  | 128.9                             | 10.4                          | 128.9                   | 124.1 | 103.1 | 89.1  | 75.2  | 61.2 |
| 3750                   | 77      | 174.7                                | 9.4                           | 84.1                    | 68.2  | 52.3  | -     | -     | -     | 162.5                             | 10.7                          | 79.2                    | 63.4  | 47.5  | -     | -     | -    |
|                        | 72      | 161.4                                | 9.3                           | 108.2                   | 92.3  | 76.4  | 60.5  | -     | -     | 150.2                             | 10.6                          | 103.1                   | 87.3  | 71.5  | 55.6  | -     | -    |
|                        | 67      | 148.1                                | 9.2                           | 132.4                   | 116.5 | 100.6 | 84.7  | 68.8  | -     | 138.0                             | 10.5                          | 127.0                   | 111.2 | 95.4  | 79.5  | 63.7  | -    |
|                        | 62      | 138.8                                | 9.2                           | 138.8                   | 136.3 | 120.4 | 104.5 | 88.6  | 72.7  | 131.6                             | 10.4                          | 131.6                   | 128.3 | 112.5 | 96.7  | 80.8  | 65.0 |
|                        | 57      | 140.8                                | 9.2                           | 140.8                   | 136.6 | 120.7 | 104.8 | 88.9  | 73.0  | 132.7                             | 10.4                          | 132.7                   | 128.0 | 112.2 | 96.4  | 80.6  | 64.7 |
| 4375                   | 77      | 178.8                                | 9.4                           | 92.7                    | 74.3  | 56.5  | -     | -     | -     | 165.7                             | 10.7                          | 90.4                    | 69.2  | 51.5  | -     | -     | -    |
|                        | 72      | 165.2                                | 9.3                           | 118.2                   | 100.4 | 82.6  | 64.8  | -     | -     | 153.2                             | 10.6                          | 112.8                   | 95.1  | 77.4  | 59.7  | -     | -    |
|                        | 67      | 151.6                                | 9.2                           | 143.7                   | 126.5 | 108.7 | 90.9  | 73.1  | -     | 140.8                             | 10.5                          | 135.3                   | 121.1 | 103.4 | 85.6  | 67.9  | -    |
|                        | 62      | 142.0                                | 9.2                           | 142.0                   | 140.8 | 130.1 | 112.3 | 94.4  | 76.6  | 134.2                             | 10.4                          | 134.2                   | 132.6 | 121.9 | 104.2 | 86.5  | 68.8 |
|                        | 57      | 144.1                                | 9.2                           | 144.1                   | 142.0 | 130.5 | 112.6 | 94.8  | 77.0  | 135.4                             | 10.4                          | 135.4                   | 133.1 | 121.6 | 103.9 | 86.2  | 68.5 |
| 5000                   | 77      | 183.0                                | 9.4                           | 101.3                   | 80.4  | 60.7  | -     | -     | -     | 169.0                             | 10.7                          | 101.6                   | 75.1  | 55.5  | -     | -     | -    |
|                        | 72      | 169.0                                | 9.3                           | 128.2                   | 108.5 | 88.7  | 69.0  | -     | -     | 156.3                             | 10.6                          | 122.6                   | 103.0 | 83.4  | 63.8  | -     | -    |
|                        | 67      | 155.1                                | 9.2                           | 155.1                   | 136.5 | 116.8 | 97.1  | 77.3  | -     | 143.6                             | 10.4                          | 143.6                   | 130.9 | 111.3 | 91.8  | 72.2  | -    |
|                        | 62      | 145.3                                | 9.2                           | 145.3                   | 145.3 | 139.8 | 120.0 | 100.3 | 80.6  | 136.8                             | 10.4                          | 136.8                   | 136.8 | 131.3 | 111.7 | 92.2  | 72.6 |
|                        | 57      | 147.4                                | 9.2                           | 147.4                   | 147.4 | 140.2 | 120.5 | 100.7 | 81.0  | 138.1                             | 10.4                          | 138.1                   | 138.1 | 131.0 | 111.4 | 91.8  | 72.2 |
| 5625                   | 72      | 171.3                                | 9.3                           | 136.8                   | 115.6 | 94.4  | 73.3  | -     | -     | 158.1                             | 10.6                          | 131.1                   | 110.0 | 88.9  | 67.8  | -     | -    |
|                        | 67      | 157.2                                | 9.2                           | 157.2                   | 145.4 | 124.3 | 103.1 | 81.9  | -     | 145.2                             | 10.5                          | 145.2                   | 137.7 | 118.7 | 97.6  | 76.5  | -    |
|                        | 62      | 147.3                                | 9.2                           | 147.3                   | 147.3 | 144.5 | 123.3 | 102.2 | 81.0  | 138.4                             | 10.4                          | 138.4                   | 138.4 | 135.7 | 114.6 | 93.5  | 72.4 |
|                        | 57      | 149.4                                | 9.2                           | 149.4                   | 149.4 | 145.8 | 124.6 | 103.5 | 82.3  | 139.7                             | 10.4                          | 139.7                   | 139.7 | 136.1 | 115.0 | 93.9  | 72.8 |
| 6250                   | 72      | 173.6                                | 9.4                           | 145.4                   | 122.7 | 100.1 | 77.5  | -     | -     | 159.9                             | 10.6                          | 139.6                   | 117.0 | 94.4  | 71.8  | -     | -    |
|                        | 67      | 159.3                                | 9.3                           | 159.3                   | 154.4 | 131.8 | 109.1 | 86.5  | -     | 146.9                             | 10.5                          | 146.9                   | 144.4 | 126.0 | 103.4 | 80.8  | -    |
|                        | 62      | 149.3                                | 9.2                           | 149.3                   | 149.3 | 149.3 | 126.6 | 104.0 | 81.4  | 140.0                             | 10.5                          | 140.0                   | 140.0 | 140.0 | 117.4 | 94.8  | 72.2 |
|                        | 57      | 151.4                                | 9.2                           | 151.4                   | 151.4 | 151.4 | 128.8 | 106.2 | 83.6  | 141.3                             | 10.4                          | 141.3                   | 141.3 | 141.3 | 118.7 | 96.1  | 73.5 |

**ZT150 (12.5 ton) third stage cooling (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |      |      |                                   |                               |                         |       |       |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |      |      |                                   |                               | Return dry bulb (°F)    |       |       |      |      |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70   | 65   |                                   |                               | 90                      | 85    | 80    | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |       |       |       |      |      | 125°F                             |                               |                         |       |       |      |      |      |
| 3125                   | 77      | 147.7                                | 12.0                          | 60.5                    | 53.0  | 39.1  | -     | -    | -    | 136.3                             | 13.3                          | 53.1                    | 48.5  | 34.6  | -    | -    | -    |
|                        | 72      | 136.8                                | 11.9                          | 88.5                    | 74.6  | 60.7  | 46.8  | -    | -    | 126.4                             | 13.1                          | 83.7                    | 69.8  | 55.9  | 42.0 | -    | -    |
|                        | 67      | 125.8                                | 11.7                          | 116.5                   | 96.2  | 82.3  | 68.4  | 54.5 | -    | 116.4                             | 13.0                          | 114.3                   | 91.1  | 77.2  | 63.4 | 49.5 | -    |
|                        | 62      | 122.4                                | 11.7                          | 122.4                   | 116.4 | 95.5  | 81.6  | 67.7 | 53.8 | 115.8                             | 13.0                          | 115.8                   | 108.7 | 88.0  | 74.1 | 60.2 | 46.3 |
| 3750                   | 77      | 150.2                                | 12.0                          | 74.3                    | 58.6  | 42.8  | -     | -    | -    | 137.9                             | 13.2                          | 69.4                    | 53.8  | 38.1  | -    | -    | -    |
|                        | 72      | 139.0                                | 11.8                          | 98.0                    | 82.2  | 66.5  | 50.7  | -    | -    | 127.8                             | 13.1                          | 92.9                    | 77.2  | 61.5  | 45.8 | -    | -    |
|                        | 67      | 127.9                                | 11.7                          | 121.7                   | 105.9 | 90.2  | 74.4  | 58.7 | -    | 117.8                             | 13.0                          | 116.3                   | 100.6 | 85.0  | 69.3 | 53.6 | -    |
|                        | 62      | 124.4                                | 11.7                          | 124.4                   | 120.4 | 104.6 | 88.9  | 73.1 | 57.4 | 117.2                             | 12.9                          | 117.2                   | 112.5 | 96.8  | 81.1 | 65.4 | 49.7 |
|                        | 57      | 124.7                                | 11.7                          | 124.7                   | 119.5 | 103.7 | 87.9  | 72.2 | 56.4 | 116.7                             | 12.9                          | 116.7                   | 110.9 | 95.2  | 79.5 | 63.8 | 48.1 |
| 4375                   | 77      | 152.6                                | 11.9                          | 88.1                    | 64.1  | 46.5  | -     | -    | -    | 139.4                             | 13.2                          | 85.8                    | 59.0  | 41.6  | -    | -    | -    |
|                        | 72      | 141.3                                | 11.8                          | 107.5                   | 89.9  | 72.3  | 54.7  | -    | -    | 129.3                             | 13.1                          | 102.1                   | 84.6  | 67.1  | 49.6 | -    | -    |
|                        | 67      | 130.0                                | 11.7                          | 126.8                   | 115.6 | 98.0  | 80.4  | 62.8 | -    | 119.1                             | 12.9                          | 118.4                   | 110.2 | 92.7  | 75.2 | 57.7 | -    |
|                        | 62      | 126.4                                | 11.7                          | 126.4                   | 124.4 | 113.8 | 96.2  | 78.6 | 61.0 | 118.6                             | 12.9                          | 118.6                   | 116.2 | 105.6 | 88.1 | 70.6 | 53.1 |
|                        | 57      | 126.7                                | 11.6                          | 126.7                   | 124.1 | 112.7 | 95.1  | 77.5 | 59.9 | 118.0                             | 12.9                          | 118.0                   | 115.1 | 103.9 | 86.4 | 68.9 | 51.4 |
| 5000                   | 77      | 155.0                                | 11.9                          | 101.9                   | 69.7  | 50.3  | -     | -    | -    | 141.0                             | 13.2                          | 102.2                   | 64.3  | 45.0  | -    | -    | -    |
|                        | 72      | 143.5                                | 11.8                          | 116.9                   | 97.5  | 78.1  | 58.6  | -    | -    | 130.7                             | 13.0                          | 111.3                   | 92.0  | 72.7  | 53.4 | -    | -    |
|                        | 67      | 132.0                                | 11.7                          | 132.0                   | 125.3 | 105.9 | 86.4  | 67.0 | -    | 120.5                             | 12.9                          | 120.5                   | 119.7 | 100.4 | 81.1 | 61.8 | -    |
|                        | 62      | 128.4                                | 11.6                          | 128.4                   | 128.4 | 122.9 | 103.4 | 84.0 | 64.6 | 120.0                             | 12.9                          | 120.0                   | 120.0 | 114.4 | 95.1 | 75.8 | 56.5 |
|                        | 57      | 128.7                                | 11.6                          | 128.7                   | 128.7 | 121.8 | 102.3 | 82.9 | 63.5 | 119.4                             | 12.8                          | 119.4                   | 119.4 | 112.6 | 93.3 | 74.0 | 54.7 |
| 5625                   | 72      | 144.9                                | 11.8                          | 125.4                   | 104.4 | 83.4  | 62.3  | -    | -    | 131.6                             | 13.1                          | 119.7                   | 98.8  | 77.8  | 56.9 | -    | -    |
|                        | 67      | 133.3                                | 11.7                          | 133.3                   | 129.9 | 113.1 | 92.0  | 71.0 | -    | 121.3                             | 12.9                          | 121.3                   | 121.3 | 107.4 | 86.5 | 65.5 | -    |
|                        | 62      | 129.6                                | 11.7                          | 129.6                   | 129.6 | 126.8 | 105.8 | 84.8 | 63.8 | 120.8                             | 12.9                          | 120.8                   | 120.8 | 118.0 | 97.1 | 76.1 | 55.2 |
|                        | 57      | 129.9                                | 11.6                          | 129.9                   | 129.9 | 126.5 | 105.4 | 84.4 | 63.4 | 120.2                             | 12.9                          | 120.2                   | 120.2 | 116.8 | 95.8 | 74.9 | 53.9 |
| 6250                   | 72      | 146.2                                | 11.8                          | 133.9                   | 111.3 | 88.7  | 66.1  | -    | -    | 132.5                             | 13.1                          | 128.1                   | 105.5 | 82.9  | 60.3 | -    | -    |
|                        | 67      | 134.5                                | 11.7                          | 134.5                   | 134.5 | 120.2 | 97.6  | 75.0 | -    | 122.1                             | 13.0                          | 122.1                   | 122.1 | 114.5 | 91.9 | 69.3 | -    |
|                        | 62      | 130.8                                | 11.7                          | 130.8                   | 130.8 | 130.8 | 108.2 | 85.6 | 63.0 | 121.6                             | 12.9                          | 121.6                   | 121.6 | 121.6 | 99.0 | 76.4 | 53.8 |
|                        | 57      | 131.1                                | 11.7                          | 131.1                   | 131.1 | 131.1 | 108.5 | 85.9 | 63.3 | 121.0                             | 12.9                          | 121.0                   | 121.0 | 121.0 | 98.4 | 75.8 | 53.2 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT037 (3.0 ton) reheater

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      | 45°F                              |                               |                         |      |      |      |      |      |
| 750                    | 77      | 40.5                                 | 1.6                           | 6.1                     | 4.9  | 3.7  | -    | -    | -    | 39.2                              | 1.7                           | 7.5                     | 6.4  | 5.3  | -    | -    | -    |
|                        | 72      | 32.2                                 | 1.7                           | 10.4                    | 9.1  | 7.9  | 6.7  | -    | -    | 31.0                              | 1.7                           | 10.4                    | 9.3  | 8.2  | 7.0  | -    | -    |
|                        | 67      | 23.9                                 | 1.7                           | 14.6                    | 13.4 | 12.2 | 11.0 | 9.7  | -    | 22.8                              | 1.7                           | 13.2                    | 12.1 | 11.0 | 9.9  | 8.8  | -    |
|                        | 62      | 20.1                                 | 1.7                           | 14.9                    | 13.8 | 12.6 | 11.4 | 10.2 | 8.9  | 18.3                              | 1.7                           | 14.1                    | 13.0 | 11.9 | 10.8 | 9.7  | 8.6  |
| 900                    | 77      | 37.4                                 | 1.7                           | 5.8                     | 4.6  | 3.4  | -    | -    | -    | 37.9                              | 1.7                           | 7.8                     | 6.7  | 5.5  | -    | -    | -    |
|                        | 72      | 29.7                                 | 1.7                           | 10.1                    | 9.0  | 7.8  | 6.6  | -    | -    | 29.9                              | 1.7                           | 10.8                    | 9.7  | 8.5  | 7.4  | -    | -    |
|                        | 67      | 22.1                                 | 1.7                           | 14.5                    | 13.3 | 12.2 | 11.0 | 9.8  | -    | 22.0                              | 1.7                           | 13.8                    | 12.6 | 11.5 | 10.3 | 9.2  | -    |
|                        | 62      | 18.7                                 | 1.7                           | 14.9                    | 13.7 | 12.5 | 11.4 | 10.2 | 9.0  | 17.7                              | 1.7                           | 14.7                    | 13.5 | 12.4 | 11.3 | 10.1 | 9.0  |
|                        | 57      | 13.4                                 | 1.8                           | 12.8                    | 11.3 | 10.2 | 9.0  | 7.9  | 6.7  | 14.2                              | 1.8                           | 13.9                    | 12.7 | 11.6 | 10.4 | 9.3  | 8.1  |
| 1050                   | 77      | 34.3                                 | 1.7                           | 5.4                     | 4.3  | 3.2  | -    | -    | -    | 36.5                              | 1.7                           | 8.1                     | 6.9  | 5.7  | -    | -    | -    |
|                        | 72      | 27.3                                 | 1.7                           | 9.9                     | 8.8  | 7.7  | 6.6  | -    | -    | 28.9                              | 1.8                           | 11.2                    | 10.0 | 8.9  | 7.7  | -    | -    |
|                        | 67      | 20.3                                 | 1.8                           | 14.4                    | 13.3 | 12.2 | 11.1 | 10.0 | -    | 21.2                              | 1.8                           | 14.3                    | 13.1 | 12.0 | 10.8 | 9.6  | -    |
|                        | 62      | 17.3                                 | 1.8                           | 14.8                    | 13.6 | 12.5 | 11.4 | 10.3 | 9.2  | 17.1                              | 1.8                           | 15.3                    | 14.1 | 12.9 | 11.7 | 10.6 | 9.4  |
|                        | 57      | 12.2                                 | 1.9                           | 11.9                    | 11.2 | 10.0 | 8.9  | 7.8  | 6.7  | 13.7                              | 1.8                           | 13.5                    | 12.9 | 12.0 | 10.9 | 9.7  | 8.5  |
| 1200                   | 77      | 31.3                                 | 1.8                           | 5.1                     | 4.0  | 3.0  | -    | -    | -    | 35.2                              | 1.8                           | 8.4                     | 7.2  | 6.0  | -    | -    | -    |
|                        | 72      | 24.9                                 | 1.8                           | 9.7                     | 8.6  | 7.6  | 6.5  | -    | -    | 27.8                              | 1.8                           | 11.6                    | 10.4 | 9.2  | 8.0  | -    | -    |
|                        | 67      | 18.6                                 | 1.8                           | 14.2                    | 13.2 | 12.2 | 11.1 | 10.1 | -    | 20.4                              | 1.8                           | 14.9                    | 13.7 | 12.4 | 11.2 | 10.0 | -    |
|                        | 62      | 15.9                                 | 1.8                           | 14.7                    | 13.5 | 12.4 | 11.4 | 10.3 | 9.3  | 16.4                              | 1.8                           | 15.9                    | 14.6 | 13.4 | 12.2 | 11.0 | 9.8  |
|                        | 57      | 11.1                                 | 1.9                           | 11.1                    | 11.1 | 9.8  | 8.8  | 7.7  | 6.7  | 13.2                              | 1.8                           | 13.2                    | 13.2 | 12.5 | 11.3 | 10.1 | 8.9  |
| 1350                   | 72      | 26.1                                 | 1.8                           | 10.4                    | 9.3  | 8.2  | 7.1  | -    | -    | 28.4                              | 1.8                           | 12.1                    | 10.8 | 9.6  | 8.4  | -    | -    |
|                        | 67      | 19.5                                 | 1.8                           | 15.2                    | 14.1 | 13.0 | 11.9 | 10.8 | -    | 20.8                              | 1.8                           | 15.4                    | 14.2 | 13.0 | 11.7 | 10.5 | -    |
|                        | 62      | 16.6                                 | 1.8                           | 16.0                    | 14.4 | 13.3 | 12.2 | 11.1 | 10.0 | 16.7                              | 1.8                           | 16.4                    | 15.2 | 14.0 | 12.8 | 11.5 | 10.3 |
|                        | 57      | 11.7                                 | 1.9                           | 11.7                    | 11.7 | 10.9 | 9.8  | 8.7  | 7.6  | 13.4                              | 1.8                           | 13.4                    | 13.4 | 13.0 | 11.8 | 10.6 | 9.3  |
| 1500                   | 72      | 27.4                                 | 1.7                           | 11.1                    | 10.0 | 8.8  | 7.6  | -    | -    | 28.9                              | 1.7                           | 12.5                    | 11.2 | 10.0 | 8.7  | -    | -    |
|                        | 67      | 20.3                                 | 1.7                           | 16.2                    | 15.0 | 13.8 | 12.6 | 11.5 | -    | 21.2                              | 1.8                           | 16.0                    | 14.7 | 13.5 | 12.2 | 11.0 | -    |
|                        | 62      | 17.3                                 | 1.8                           | 17.3                    | 15.4 | 14.2 | 13.0 | 11.8 | 10.7 | 17.1                              | 1.8                           | 17.0                    | 15.8 | 14.5 | 13.3 | 12.0 | 10.8 |
|                        | 57      | 12.3                                 | 1.9                           | 12.3                    | 12.3 | 12.0 | 10.8 | 9.7  | 8.5  | 13.7                              | 1.8                           | 13.7                    | 13.7 | 13.6 | 12.3 | 11.1 | 9.8  |
|                        |         | 55°F                                 |                               |                         |      |      |      |      |      | 65°F                              |                               |                         |      |      |      |      |      |
| 750                    | 77      | 38.0                                 | 1.8                           | 8.9                     | 7.9  | 6.9  | -    | -    | -    | 31.5                              | 1.9                           | 5.4                     | 4.5  | 3.6  | -    | -    | -    |
|                        | 72      | 29.8                                 | 1.8                           | 10.4                    | 9.4  | 8.4  | 7.4  | -    | -    | 25.9                              | 1.9                           | 8.0                     | 7.1  | 6.2  | 5.3  | -    | -    |
|                        | 67      | 21.6                                 | 1.8                           | 11.9                    | 10.9 | 9.9  | 8.9  | 7.9  | -    | 20.2                              | 1.8                           | 10.6                    | 9.7  | 8.8  | 7.9  | 7.0  | -    |
|                        | 62      | 16.5                                 | 1.8                           | 13.3                    | 12.2 | 11.2 | 10.2 | 9.2  | 8.2  | 16.2                              | 1.8                           | 12.6                    | 11.7 | 10.8 | 9.9  | 9.0  | 8.1  |
| 900                    | 77      | 38.4                                 | 1.8                           | 9.9                     | 8.7  | 7.6  | -    | -    | -    | 32.0                              | 1.9                           | 6.0                     | 5.0  | 3.9  | -    | -    | -    |
|                        | 72      | 30.1                                 | 1.8                           | 11.5                    | 10.3 | 9.2  | 8.1  | -    | -    | 26.3                              | 1.9                           | 8.9                     | 7.8  | 6.8  | 5.8  | -    | -    |
|                        | 67      | 21.9                                 | 1.8                           | 13.1                    | 11.9 | 10.8 | 9.7  | 8.6  | -    | 20.5                              | 1.8                           | 11.7                    | 10.7 | 9.7  | 8.6  | 7.6  | -    |
|                        | 62      | 16.6                                 | 1.8                           | 14.5                    | 13.4 | 12.3 | 11.1 | 10.0 | 8.9  | 16.4                              | 1.8                           | 13.8                    | 12.8 | 11.8 | 10.8 | 9.7  | 8.7  |
|                        | 57      | 14.9                                 | 1.8                           | 14.9                    | 14.1 | 12.9 | 11.8 | 10.7 | 9.6  | 14.8                              | 1.8                           | 14.8                    | 14.0 | 12.9 | 11.9 | 10.9 | 9.8  |
| 1050                   | 77      | 38.7                                 | 1.8                           | 10.8                    | 9.5  | 8.3  | -    | -    | -    | 32.4                              | 1.9                           | 6.6                     | 5.4  | 4.3  | -    | -    | -    |
|                        | 72      | 30.4                                 | 1.8                           | 12.5                    | 11.3 | 10.0 | 8.8  | -    | -    | 26.6                              | 1.9                           | 9.7                     | 8.5  | 7.4  | 6.2  | -    | -    |
|                        | 67      | 22.1                                 | 1.8                           | 14.3                    | 13.0 | 11.8 | 10.5 | 9.3  | -    | 20.8                              | 1.8                           | 12.8                    | 11.6 | 10.5 | 9.3  | 8.2  | -    |
|                        | 62      | 16.8                                 | 1.8                           | 15.7                    | 14.6 | 13.3 | 12.1 | 10.8 | 9.6  | 16.7                              | 1.8                           | 15.0                    | 13.9 | 12.8 | 11.6 | 10.5 | 9.3  |
|                        | 57      | 15.1                                 | 1.8                           | 15.1                    | 14.6 | 14.1 | 12.8 | 11.6 | 10.3 | 15.0                              | 1.8                           | 15.0                    | 14.6 | 14.0 | 12.9 | 11.7 | 10.6 |
| 1200                   | 77      | 39.1                                 | 1.8                           | 11.7                    | 10.3 | 9.0  | -    | -    | -    | 32.9                              | 1.9                           | 7.2                     | 5.9  | 4.6  | -    | -    | -    |
|                        | 72      | 30.7                                 | 1.8                           | 13.6                    | 12.2 | 10.8 | 9.5  | -    | -    | 27.0                              | 1.9                           | 10.5                    | 9.3  | 8.0  | 6.7  | -    | -    |
|                        | 67      | 22.3                                 | 1.8                           | 15.5                    | 14.1 | 12.7 | 11.3 | 10.0 | -    | 21.1                              | 1.8                           | 13.9                    | 12.6 | 11.3 | 10.0 | 8.8  | -    |
|                        | 62      | 17.0                                 | 1.8                           | 17.0                    | 15.8 | 14.4 | 13.0 | 11.7 | 10.3 | 16.9                              | 1.8                           | 16.2                    | 15.1 | 13.8 | 12.5 | 11.2 | 10.0 |
|                        | 57      | 15.2                                 | 1.8                           | 15.2                    | 15.2 | 13.8 | 12.5 | 11.1 | -    | 15.2                              | 1.8                           | 15.2                    | 15.2 | 15.1 | 13.9 | 12.6 | 11.3 |
| 1350                   | 72      | 30.6                                 | 1.8                           | 13.7                    | 12.4 | 11.0 | 9.7  | -    | -    | 26.5                              | 1.9                           | 10.5                    | 9.3  | 8.1  | 6.8  | -    | -    |
|                        | 67      | 22.2                                 | 1.8                           | 15.6                    | 14.3 | 12.9 | 11.6 | 10.2 | -    | 20.7                              | 1.8                           | 13.9                    | 12.7 | 11.4 | 10.2 | 9.0  | -    |
|                        | 62      | 16.9                                 | 1.8                           | 16.9                    | 16.0 | 14.6 | 13.3 | 12.0 | 10.6 | 16.6                              | 1.8                           | 16.1                    | 15.1 | 13.9 | 12.7 | 11.5 | 10.3 |
|                        | 57      | 15.2                                 | 1.8                           | 15.2                    | 15.2 | 13.8 | 12.5 | 11.1 | -    | 14.9                              | 1.8                           | 14.9                    | 14.9 | 14.9 | 13.6 | 12.4 | 11.2 |
| 1500                   | 72      | 30.4                                 | 1.8                           | 13.8                    | 12.5 | 11.2 | 9.9  | -    | -    | 26.0                              | 1.9                           | 10.5                    | 9.3  | 8.2  | 7.0  | -    | -    |
|                        | 67      | 22.1                                 | 1.8                           | 15.7                    | 14.4 | 13.1 | 11.8 | 10.5 | -    | 20.3                              | 1.8                           | 13.9                    | 12.7 | 11.5 | 10.4 | 9.2  | -    |
|                        | 62      | 16.8                                 | 1.8                           | 16.8                    | 16.2 | 14.9 | 13.6 | 12.2 | 10.9 | 16.2                              | 1.8                           | 16.0                    | 15.2 | 14.1 | 12.9 | 11.7 | 10.6 |
|                        | 57      | 15.1                                 | 1.8                           | 15.1                    | 15.1 | 13.8 | 12.5 | 11.2 | -    | 14.6                              | 1.8                           | 14.6                    | 14.6 | 14.6 | 13.4 | 12.2 | 11.1 |

## ZT037 (3.0 ton) reheater (continued)

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 750                    | 77      | 25.1                                 | 2.0                           | 1.9                     | 1.1  | 0.3  | -    | -    | -    | 18.7                              | 2.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 22.0                                 | 2.0                           | 5.6                     | 4.8  | 4.0  | 3.2  | -    | -    | 18.1                              | 2.1                           | 3.3                     | 2.6  | 1.8  | 1.1  | -    | -    |
|                        | 67      | 18.8                                 | 1.9                           | 9.4                     | 8.6  | 7.8  | 7.0  | 6.2  | -    | 17.4                              | 2.0                           | 8.2                     | 7.5  | 6.8  | 6.1  | 5.4  | -    |
|                        | 62      | 15.9                                 | 1.9                           | 12.0                    | 11.2 | 10.4 | 9.6  | 8.8  | 8.0  | 15.7                              | 1.9                           | 11.3                    | 10.7 | 10.0 | 9.3  | 8.6  | 7.9  |
| 900                    | 77      | 25.6                                 | 2.0                           | 2.1                     | 1.2  | 0.3  | -    | -    | -    | 19.2                              | 2.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 22.4                                 | 2.0                           | 6.2                     | 5.3  | 4.4  | 3.5  | -    | -    | 18.6                              | 2.1                           | 3.6                     | 2.8  | 2.0  | 1.2  | -    | -    |
|                        | 67      | 19.2                                 | 1.9                           | 10.4                    | 9.4  | 8.5  | 7.6  | 6.7  | -    | 17.9                              | 2.0                           | 9.0                     | 8.2  | 7.4  | 6.5  | 5.7  | -    |
|                        | 62      | 16.2                                 | 1.9                           | 13.2                    | 12.2 | 11.3 | 10.4 | 9.5  | 8.5  | 16.0                              | 1.9                           | 12.5                    | 11.7 | 10.8 | 10.0 | 9.2  | 8.3  |
|                        | 57      | 14.6                                 | 1.8                           | 14.6                    | 13.9 | 12.9 | 12.0 | 11.1 | 10.1 | 14.4                              | 1.9                           | 14.4                    | 13.7 | 12.9 | 12.1 | 11.3 | 10.4 |
| 1050                   | 77      | 26.1                                 | 2.0                           | 2.4                     | 1.4  | 0.3  | -    | -    | -    | 19.8                              | 2.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 22.8                                 | 2.0                           | 6.9                     | 5.8  | 4.8  | 3.7  | -    | -    | 19.1                              | 2.1                           | 4.0                     | 3.1  | 2.1  | 1.2  | -    | -    |
|                        | 67      | 19.6                                 | 1.9                           | 11.3                    | 10.3 | 9.2  | 8.2  | 7.1  | -    | 18.3                              | 2.0                           | 9.8                     | 8.9  | 7.9  | 7.0  | 6.0  | -    |
|                        | 62      | 16.6                                 | 1.9                           | 14.3                    | 13.3 | 12.2 | 11.2 | 10.1 | 9.1  | 16.4                              | 1.9                           | 13.6                    | 12.6 | 11.7 | 10.7 | 9.8  | 8.8  |
|                        | 57      | 14.9                                 | 1.8                           | 14.9                    | 14.5 | 14.0 | 12.9 | 11.9 | 10.8 | 14.8                              | 1.9                           | 14.8                    | 14.4 | 14.0 | 13.0 | 12.1 | 11.1 |
| 1200                   | 77      | 26.6                                 | 2.0                           | 2.7                     | 1.5  | 0.3  | -    | -    | -    | 20.3                              | 2.2                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 23.3                                 | 2.0                           | 7.5                     | 6.3  | 5.1  | 3.9  | -    | -    | 19.5                              | 2.1                           | 4.4                     | 3.3  | 2.3  | 1.2  | -    | -    |
|                        | 67      | 20.0                                 | 1.9                           | 12.3                    | 11.1 | 9.9  | 8.7  | 7.6  | -    | 18.8                              | 2.0                           | 10.6                    | 9.6  | 8.5  | 7.4  | 6.4  | -    |
|                        | 62      | 16.9                                 | 1.9                           | 15.5                    | 14.3 | 13.2 | 12.0 | 10.8 | 9.7  | 16.8                              | 1.9                           | 14.8                    | 13.6 | 12.5 | 11.5 | 10.4 | 9.3  |
|                        | 57      | 15.2                                 | 1.8                           | 15.2                    | 15.2 | 15.1 | 13.9 | 12.7 | 11.5 | 15.1                              | 1.9                           | 15.1                    | 15.1 | 15.0 | 13.9 | 12.9 | 11.8 |
| 1350                   | 72      | 22.4                                 | 2.0                           | 7.3                     | 6.2  | 5.1  | 4.0  | -    | -    | 18.3                              | 2.1                           | 4.1                     | 3.2  | 2.2  | 1.2  | -    | -    |
|                        | 67      | 19.2                                 | 1.9                           | 12.1                    | 11.0 | 9.9  | 8.8  | 7.7  | -    | 17.7                              | 2.0                           | 10.4                    | 9.4  | 8.4  | 7.5  | 6.5  | -    |
|                        | 62      | 16.2                                 | 1.9                           | 15.4                    | 14.3 | 13.2 | 12.1 | 11.0 | 9.9  | 15.9                              | 1.9                           | 14.7                    | 13.5 | 12.5 | 11.5 | 10.5 | 9.6  |
|                        | 57      | 14.6                                 | 1.8                           | 14.6                    | 14.6 | 14.6 | 13.5 | 12.4 | 11.3 | 14.3                              | 1.9                           | 14.3                    | 14.3 | 14.3 | 13.3 | 12.3 | 11.3 |
| 1500                   | 72      | 21.6                                 | 2.0                           | 7.2                     | 6.2  | 5.1  | 4.1  | -    | -    | 17.1                              | 2.1                           | 3.9                     | 3.0  | 2.1  | 1.3  | -    | -    |
|                        | 67      | 18.5                                 | 1.9                           | 12.0                    | 11.0 | 10.0 | 8.9  | 7.9  | -    | 16.7                              | 2.0                           | 10.1                    | 9.3  | 8.4  | 7.5  | 6.6  | -    |
|                        | 62      | 15.6                                 | 1.9                           | 15.3                    | 14.3 | 13.2 | 12.2 | 11.2 | 10.2 | 15.0                              | 1.9                           | 14.5                    | 13.3 | 12.4 | 11.5 | 10.7 | 9.8  |
|                        | 57      | 14.0                                 | 1.8                           | 14.0                    | 14.0 | 14.0 | 13.0 | 12.0 | 11.0 | 13.5                              | 1.9                           | 13.5                    | 13.5 | 13.5 | 12.6 | 11.8 | 10.9 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**ZT049 (4.0 ton) reheat**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      | 45°F                              |                               |                         |      |      |      |      |      |
| 1000                   | 77      | 43.0                                 | 2.3                           | 5.6                     | 3.3  | 1.1  | -    | -    | -    | 46.0                              | 2.4                           | 7.2                     | 5.1  | 3.0  | -    | -    | -    |
|                        | 72      | 42.0                                 | 2.3                           | 13.5                    | 11.3 | 9.1  | 6.8  | -    | -    | 42.5                              | 2.4                           | 13.6                    | 11.5 | 9.4  | 7.3  | -    | -    |
|                        | 67      | 41.0                                 | 2.4                           | 21.5                    | 19.2 | 17.0 | 14.8 | 12.5 | -    | 39.0                              | 2.3                           | 20.0                    | 17.9 | 15.8 | 13.7 | 11.6 | -    |
|                        | 62      | 42.3                                 | 2.3                           | 29.4                    | 27.8 | 25.5 | 23.3 | 21.1 | 18.8 | 35.7                              | 2.3                           | 26.0                    | 23.9 | 21.8 | 19.7 | 17.6 | 15.5 |
| 1200                   | 77      | 40.3                                 | 2.2                           | 5.3                     | 3.1  | 0.9  | -    | -    | -    | 46.3                              | 2.4                           | 8.1                     | 5.8  | 3.4  | -    | -    | -    |
|                        | 72      | 39.7                                 | 2.3                           | 13.9                    | 11.7 | 9.4  | 7.2  | -    | -    | 42.7                              | 2.3                           | 15.3                    | 13.0 | 10.6 | 8.3  | -    | -    |
|                        | 67      | 39.0                                 | 2.3                           | 22.5                    | 20.3 | 18.0 | 15.8 | 13.6 | -    | 39.2                              | 2.3                           | 22.5                    | 20.1 | 17.8 | 15.5 | 13.1 | -    |
|                        | 62      | 40.8                                 | 2.3                           | 31.9                    | 29.6 | 27.4 | 25.1 | 22.9 | 20.7 | 35.9                              | 2.3                           | 29.2                    | 26.9 | 24.5 | 22.2 | 19.9 | 17.5 |
|                        | 57      | 37.6                                 | 2.3                           | 35.7                    | 32.9 | 30.7 | 28.5 | 26.2 | 24.0 | 32.2                              | 2.3                           | 31.3                    | 28.9 | 26.6 | 24.3 | 21.9 | 19.6 |
| 1400                   | 77      | 37.6                                 | 2.1                           | 5.1                     | 2.9  | 0.6  | -    | -    | -    | 46.5                              | 2.3                           | 9.0                     | 6.4  | 3.8  | -    | -    | -    |
|                        | 72      | 37.4                                 | 2.2                           | 14.3                    | 12.1 | 9.8  | 7.6  | -    | -    | 43.0                              | 2.3                           | 17.0                    | 14.4 | 11.8 | 9.2  | -    | -    |
|                        | 67      | 37.1                                 | 2.3                           | 23.6                    | 21.3 | 19.1 | 16.8 | 14.6 | -    | 39.4                              | 2.3                           | 25.0                    | 22.4 | 19.8 | 17.2 | 14.6 | -    |
|                        | 62      | 39.3                                 | 2.2                           | 34.3                    | 31.5 | 29.2 | 27.0 | 24.7 | 22.5 | 36.1                              | 2.3                           | 32.5                    | 29.9 | 27.3 | 24.7 | 22.1 | 19.5 |
|                        | 57      | 36.3                                 | 2.2                           | 35.4                    | 34.0 | 32.9 | 30.6 | 28.4 | 26.1 | 32.4                              | 2.2                           | 31.9                    | 30.7 | 29.6 | 27.0 | 24.4 | 21.8 |
| 1600                   | 77      | 35.0                                 | 2.1                           | 4.9                     | 2.6  | 0.4  | -    | -    | -    | 46.7                              | 2.3                           | 9.9                     | 7.0  | 4.2  | -    | -    | -    |
|                        | 72      | 35.0                                 | 2.1                           | 14.8                    | 12.5 | 10.2 | 8.0  | -    | -    | 43.2                              | 2.3                           | 18.7                    | 15.8 | 13.0 | 10.2 | -    | -    |
|                        | 67      | 35.1                                 | 2.2                           | 24.6                    | 22.4 | 20.1 | 17.8 | 15.6 | -    | 39.6                              | 2.3                           | 27.5                    | 24.6 | 21.8 | 18.9 | 16.1 | -    |
|                        | 62      | 37.8                                 | 2.2                           | 36.8                    | 33.3 | 31.1 | 28.8 | 26.6 | 24.3 | 36.2                              | 2.2                           | 35.7                    | 32.9 | 30.0 | 27.2 | 24.4 | 21.5 |
|                        | 57      | 35.0                                 | 2.1                           | 35.0                    | 35.0 | 35.0 | 32.8 | 30.5 | 28.3 | 32.5                              | 2.2                           | 32.5                    | 32.5 | 32.5 | 29.7 | 26.9 | 24.0 |
| 1800                   | 72      | 34.2                                 | 2.1                           | 15.2                    | 12.9 | 10.5 | 8.1  | -    | -    | 43.3                              | 2.3                           | 20.2                    | 17.1 | 14.0 | 10.9 | -    | -    |
|                        | 67      | 34.3                                 | 2.2                           | 25.6                    | 23.2 | 20.8 | 18.5 | 16.1 | -    | 39.7                              | 2.3                           | 29.6                    | 26.5 | 23.4 | 20.3 | 17.2 | -    |
|                        | 62      | 37.2                                 | 2.2                           | 36.7                    | 35.0 | 32.5 | 30.1 | 27.7 | 25.4 | 36.3                              | 2.2                           | 36.1                    | 34.6 | 32.3 | 29.2 | 26.1 | 23.0 |
|                        | 57      | 34.6                                 | 2.1                           | 34.6                    | 34.6 | 34.6 | 32.2 | 29.8 | 27.5 | 32.6                              | 2.2                           | 32.6                    | 32.6 | 32.6 | 29.5 | 26.4 | 23.3 |
| 2000                   | 72      | 33.3                                 | 2.1                           | 15.7                    | 13.2 | 10.8 | 8.3  | -    | -    | 43.3                              | 2.3                           | 21.6                    | 18.3 | 14.9 | 11.6 | -    | -    |
|                        | 67      | 33.6                                 | 2.2                           | 26.5                    | 24.1 | 21.6 | 19.1 | 16.7 | -    | 39.8                              | 2.3                           | 31.7                    | 28.4 | 25.0 | 21.7 | 18.3 | -    |
|                        | 62      | 36.7                                 | 2.1                           | 36.7                    | 36.7 | 33.8 | 31.4 | 28.9 | 26.4 | 36.4                              | 2.2                           | 36.4                    | 36.4 | 34.5 | 31.1 | 27.8 | 24.4 |
|                        | 57      | 34.1                                 | 2.1                           | 34.1                    | 34.1 | 34.1 | 31.6 | 29.1 | 26.7 | 32.7                              | 2.2                           | 32.7                    | 32.7 | 32.7 | 29.3 | 25.9 | 22.6 |
|                        |         | 55°F                                 |                               |                         |      |      |      |      |      | 65°F                              |                               |                         |      |      |      |      |      |
| 1000                   | 77      | 49.1                                 | 2.5                           | 8.9                     | 6.9  | 5.0  | -    | -    | -    | 46.7                              | 2.7                           | 6.1                     | 4.4  | 2.6  | -    | -    | -    |
|                        | 72      | 43.1                                 | 2.4                           | 13.7                    | 11.8 | 9.8  | 7.9  | -    | -    | 40.6                              | 2.6                           | 11.2                    | 9.5  | 7.8  | 6.0  | -    | -    |
|                        | 67      | 37.1                                 | 2.3                           | 18.5                    | 16.6 | 14.6 | 12.7 | 10.7 | -    | 34.4                              | 2.5                           | 16.4                    | 14.6 | 12.9 | 11.2 | 9.4  | -    |
|                        | 62      | 29.1                                 | 2.3                           | 22.6                    | 20.0 | 18.1 | 16.1 | 14.2 | 12.2 | 27.7                              | 2.4                           | 21.6                    | 19.0 | 17.3 | 15.6 | 13.8 | 12.1 |
| 1200                   | 77      | 52.2                                 | 2.5                           | 10.9                    | 8.5  | 6.0  | -    | -    | -    | 48.7                              | 2.7                           | 7.5                     | 5.3  | 3.1  | -    | -    | -    |
|                        | 72      | 45.8                                 | 2.4                           | 16.7                    | 14.2 | 11.8 | 9.3  | -    | -    | 42.3                              | 2.6                           | 13.5                    | 11.4 | 9.2  | 7.1  | -    | -    |
|                        | 67      | 39.4                                 | 2.3                           | 22.5                    | 20.0 | 17.6 | 15.1 | 12.7 | -    | 35.9                              | 2.5                           | 19.6                    | 17.5 | 15.3 | 13.2 | 11.0 | -    |
|                        | 62      | 30.9                                 | 2.3                           | 26.6                    | 24.2 | 21.7 | 19.3 | 16.8 | 14.4 | 28.9                              | 2.4                           | 24.8                    | 22.6 | 20.5 | 18.3 | 16.2 | 14.0 |
|                        | 57      | 26.8                                 | 2.3                           | 26.8                    | 24.9 | 22.5 | 20.0 | 17.6 | 15.2 | 25.6                              | 2.4                           | 25.2                    | 23.3 | 21.1 | 19.0 | 16.8 | 14.7 |
| 1400                   | 77      | 55.4                                 | 2.5                           | 12.9                    | 10.0 | 7.0  | -    | -    | -    | 50.7                              | 2.7                           | 8.8                     | 6.2  | 3.7  | -    | -    | -    |
|                        | 72      | 48.6                                 | 2.4                           | 19.7                    | 16.7 | 13.8 | 10.8 | -    | -    | 44.1                              | 2.6                           | 15.8                    | 13.3 | 10.7 | 8.1  | -    | -    |
|                        | 67      | 41.8                                 | 2.3                           | 26.4                    | 23.5 | 20.5 | 17.6 | 14.7 | -    | 37.4                              | 2.5                           | 22.9                    | 20.3 | 17.7 | 15.1 | 12.6 | -    |
|                        | 62      | 32.8                                 | 2.3                           | 30.6                    | 28.3 | 25.4 | 22.4 | 19.5 | 16.5 | 30.0                              | 2.4                           | 28.0                    | 26.3 | 23.7 | 21.1 | 18.5 | 16.0 |
|                        | 57      | 28.4                                 | 2.3                           | 28.4                    | 27.5 | 26.3 | 23.3 | 20.4 | 17.4 | 26.7                              | 2.4                           | 26.4                    | 25.5 | 24.4 | 21.9 | 19.3 | 16.7 |
| 1600                   | 77      | 58.5                                 | 2.5                           | 14.9                    | 11.5 | 8.0  | -    | -    | -    | 52.7                              | 2.7                           | 10.2                    | 7.2  | 4.2  | -    | -    | -    |
|                        | 72      | 51.3                                 | 2.4                           | 22.6                    | 19.2 | 15.8 | 12.3 | -    | -    | 45.8                              | 2.6                           | 18.1                    | 15.1 | 12.1 | 9.2  | -    | -    |
|                        | 67      | 44.2                                 | 2.4                           | 30.4                    | 26.9 | 23.5 | 20.1 | 16.6 | -    | 38.9                              | 2.5                           | 26.1                    | 23.1 | 20.1 | 17.1 | 14.1 | -    |
|                        | 62      | 34.7                                 | 2.3                           | 34.7                    | 32.4 | 29.0 | 25.6 | 22.1 | 18.7 | 31.2                              | 2.5                           | 31.2                    | 29.9 | 26.9 | 23.9 | 20.9 | 17.9 |
|                        | 57      | 30.0                                 | 2.3                           | 30.0                    | 30.0 | 30.0 | 26.6 | 23.2 | 19.7 | 27.7                              | 2.4                           | 27.7                    | 27.7 | 27.7 | 24.7 | 21.7 | 18.7 |
| 1800                   | 72      | 52.4                                 | 2.4                           | 25.1                    | 21.3 | 17.4 | 13.6 | -    | -    | 46.7                              | 2.6                           | 20.2                    | 16.8 | 13.5 | 10.1 | -    | -    |
|                        | 67      | 45.0                                 | 2.3                           | 33.7                    | 29.8 | 26.0 | 22.1 | 18.3 | -    | 39.6                              | 2.5                           | 29.0                    | 25.7 | 22.3 | 18.9 | 15.5 | -    |
|                        | 62      | 35.4                                 | 2.3                           | 35.4                    | 34.3 | 32.1 | 28.2 | 24.4 | 20.5 | 31.8                              | 2.5                           | 31.8                    | 31.1 | 29.4 | 26.0 | 22.6 | 19.3 |
|                        | 57      | 30.7                                 | 2.3                           | 30.7                    | 30.7 | 30.7 | 26.8 | 23.0 | 19.1 | 28.2                              | 2.4                           | 28.2                    | 28.2 | 28.2 | 24.9 | 21.5 | 18.1 |
| 2000                   | 72      | 53.4                                 | 2.4                           | 27.6                    | 23.3 | 19.1 | 14.8 | -    | -    | 47.5                              | 2.6                           | 22.3                    | 18.5 | 14.8 | 11.0 | -    | -    |
|                        | 67      | 45.9                                 | 2.3                           | 36.9                    | 32.7 | 28.4 | 24.2 | 19.9 | -    | 40.3                              | 2.5                           | 32.0                    | 28.2 | 24.5 | 20.7 | 16.9 | -    |
|                        | 62      | 36.1                                 | 2.3                           | 36.1                    | 36.1 | 35.1 | 30.9 | 26.6 | 22.4 | 32.4                              | 2.4                           | 32.4                    | 32.4 | 31.9 | 28.2 | 24.4 | 20.7 |
|                        | 57      | 31.3                                 | 2.3                           | 31.3                    | 31.3 | 31.3 | 27.0 | 22.8 | 18.5 | 28.7                              | 2.4                           | 28.7                    | 28.7 | 28.7 | 25.0 | 21.2 | 17.5 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



**ZT061 (5.0 ton) reheater**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      | 45°F                              |                               |                         |      |      |      |      |      |
| 1250                   | 77      | 58.9                                 | 2.8                           | 6.0                     | 4.2  | 2.4  | -    | -    | -    | 55.3                              | 3.0                           | 5.4                     | 3.8  | 2.2  | -    | -    | -    |
|                        | 72      | 49.4                                 | 2.8                           | 11.3                    | 9.6  | 7.8  | 6.0  | -    | -    | 47.0                              | 3.0                           | 10.5                    | 8.9  | 7.3  | 5.7  | -    | -    |
|                        | 67      | 39.9                                 | 2.9                           | 16.7                    | 14.9 | 13.2 | 11.4 | 9.6  | -    | 38.7                              | 2.9                           | 15.6                    | 14.0 | 12.4 | 10.8 | 9.2  | -    |
|                        | 62      | 38.5                                 | 3.0                           | 26.7                    | 26.0 | 24.2 | 22.5 | 20.7 | 19.0 | 32.1                              | 3.0                           | 22.2                    | 20.6 | 19.0 | 17.4 | 15.8 | 14.2 |
| 1500                   | 77      | 53.9                                 | 2.8                           | 5.5                     | 4.0  | 2.4  | -    | -    | -    | 54.9                              | 3.0                           | 6.1                     | 4.3  | 2.5  | -    | -    | -    |
|                        | 72      | 45.1                                 | 2.8                           | 10.7                    | 9.1  | 7.5  | 6.0  | -    | -    | 46.7                              | 3.0                           | 12.0                    | 10.1 | 8.3  | 6.5  | -    | -    |
|                        | 67      | 36.3                                 | 2.9                           | 15.8                    | 14.2 | 12.7 | 11.1 | 9.5  | -    | 38.5                              | 2.9                           | 17.8                    | 16.0 | 14.1 | 12.3 | 10.5 | -    |
|                        | 62      | 35.9                                 | 3.0                           | 28.0                    | 26.4 | 24.9 | 23.3 | 21.7 | 20.2 | 31.8                              | 3.0                           | 25.2                    | 23.4 | 21.6 | 19.7 | 17.9 | 16.0 |
| 1750                   | 57      | 30.8                                 | 2.9                           | 28.3                    | 26.7 | 25.2 | 23.6 | 22.0 | 20.5 | 28.2                              | 2.9                           | 26.1                    | 24.2 | 22.4 | 20.6 | 18.7 | 16.9 |
|                        | 77      | 48.8                                 | 2.7                           | 5.1                     | 3.7  | 2.4  | -    | -    | -    | 54.6                              | 3.0                           | 6.9                     | 4.8  | 2.8  | -    | -    | -    |
|                        | 72      | 40.7                                 | 2.8                           | 10.0                    | 8.6  | 7.3  | 5.9  | -    | -    | 46.4                              | 3.0                           | 13.4                    | 11.4 | 9.3  | 7.2  | -    | -    |
|                        | 67      | 32.6                                 | 2.9                           | 14.9                    | 13.5 | 12.2 | 10.8 | 9.4  | -    | 38.2                              | 2.9                           | 20.0                    | 17.9 | 15.8 | 13.7 | 11.7 | -    |
| 2000                   | 62      | 33.3                                 | 3.0                           | 29.3                    | 26.8 | 25.5 | 24.1 | 22.7 | 21.4 | 31.6                              | 2.9                           | 28.3                    | 26.2 | 24.1 | 22.1 | 20.0 | 17.9 |
|                        | 57      | 28.4                                 | 2.9                           | 27.2                    | 26.4 | 25.6 | 24.3 | 22.9 | 21.5 | 28.0                              | 2.9                           | 26.9                    | 26.0 | 25.1 | 23.0 | 21.0 | 18.9 |
|                        | 77      | 43.8                                 | 2.7                           | 4.7                     | 3.5  | 2.3  | -    | -    | -    | 54.2                              | 3.0                           | 7.7                     | 5.4  | 3.0  | -    | -    | -    |
|                        | 72      | 36.4                                 | 2.8                           | 9.3                     | 8.2  | 7.0  | 5.8  | -    | -    | 46.1                              | 2.9                           | 14.9                    | 12.6 | 10.3 | 8.0  | -    | -    |
| 2250                   | 67      | 29.0                                 | 2.9                           | 14.0                    | 12.8 | 11.7 | 10.5 | 9.3  | -    | 38.0                              | 2.9                           | 22.1                    | 19.8 | 17.5 | 15.2 | 12.9 | -    |
|                        | 62      | 30.8                                 | 2.9                           | 30.6                    | 27.3 | 26.1 | 24.9 | 23.8 | 22.6 | 31.4                              | 2.9                           | 31.3                    | 29.0 | 26.7 | 24.4 | 22.1 | 19.8 |
|                        | 57      | 26.1                                 | 2.9                           | 26.1                    | 26.1 | 24.9 | 23.8 | 22.6 | 21.5 | 27.8                              | 2.9                           | 27.8                    | 27.8 | 27.8 | 25.5 | 23.2 | 20.9 |
|                        | 72      | 47.8                                 | 2.8                           | 14.8                    | 12.0 | 9.2  | 6.3  | -    | -    | 52.9                              | 3.0                           | 19.1                    | 15.7 | 12.3 | 8.8  | -    | -    |
| 2500                   | 67      | 38.4                                 | 2.9                           | 21.0                    | 18.2 | 15.3 | 12.5 | 9.7  | -    | 43.6                              | 2.9                           | 27.7                    | 24.3 | 20.9 | 17.5 | 14.0 | -    |
|                        | 62      | 38.8                                 | 3.0                           | 38.7                    | 37.0 | 32.8 | 30.0 | 27.1 | 24.3 | 36.1                              | 3.0                           | 36.0                    | 34.9 | 31.9 | 28.4 | 25.0 | 21.6 |
|                        | 57      | 33.2                                 | 2.9                           | 33.2                    | 33.2 | 30.3 | 27.5 | 24.7 | 21.5 | 31.9                              | 2.9                           | 31.9                    | 31.9 | 31.9 | 28.5 | 25.0 | 21.6 |
|                        | 72      | 59.3                                 | 2.8                           | 20.4                    | 15.9 | 11.4 | 6.9  | -    | -    | 59.7                              | 3.0                           | 23.3                    | 18.8 | 14.2 | 9.7  | -    | -    |
| 2000                   | 67      | 47.7                                 | 2.9                           | 28.0                    | 23.5 | 19.0 | 14.5 | 10.0 | -    | 49.2                              | 2.9                           | 33.4                    | 28.8 | 24.3 | 19.7 | 15.2 | -    |
|                        | 62      | 46.8                                 | 3.0                           | 46.8                    | 46.8 | 39.5 | 35.0 | 30.5 | 26.0 | 40.7                              | 3.0                           | 40.7                    | 40.7 | 37.0 | 32.5 | 27.9 | 23.4 |
|                        | 57      | 40.2                                 | 2.9                           | 40.2                    | 40.2 | 40.2 | 35.7 | 31.2 | 26.7 | 36.0                              | 2.9                           | 36.0                    | 36.0 | 36.0 | 31.5 | 26.9 | 22.4 |
|                        |         |                                      | 55°F                          |                         |      |      |      |      |      |                                   | 65°F                          |                         |      |      |      |      |      |
| 1250                   | 77      | 51.7                                 | 3.2                           | 4.8                     | 3.3  | 1.9  | -    | -    | -    | 48.7                              | 3.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 44.6                                 | 3.1                           | 9.7                     | 8.2  | 6.8  | 5.4  | -    | -    | 41.4                              | 3.3                           | 6.1                     | 5.0  | 3.9  | 2.8  | -    | -    |
|                        | 67      | 37.6                                 | 3.0                           | 14.6                    | 13.2 | 11.7 | 10.3 | 8.8  | -    | 34.2                              | 3.1                           | 11.1                    | 10.0 | 8.9  | 7.8  | 6.7  | -    |
|                        | 62      | 25.7                                 | 3.0                           | 17.7                    | 15.2 | 13.7 | 12.3 | 10.8 | 9.4  | 25.2                              | 3.1                           | 15.1                    | 13.5 | 12.4 | 11.3 | 10.2 | 9.1  |
| 1500                   | 77      | 56.0                                 | 3.2                           | 6.7                     | 4.6  | 2.5  | -    | -    | -    | 51.2                              | 3.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 48.4                                 | 3.1                           | 13.3                    | 11.2 | 9.1  | 6.9  | -    | -    | 43.6                              | 3.3                           | 8.3                     | 6.7  | 5.1  | 3.5  | -    | -    |
|                        | 67      | 40.7                                 | 3.0                           | 19.8                    | 17.7 | 15.6 | 13.5 | 11.4 | -    | 36.0                              | 3.1                           | 15.1                    | 13.5 | 11.9 | 10.3 | 8.7  | -    |
|                        | 62      | 27.8                                 | 2.9                           | 22.5                    | 20.4 | 18.3 | 16.1 | 14.0 | 11.9 | 26.5                              | 3.1                           | 19.7                    | 18.1 | 16.5 | 14.9 | 13.3 | 11.7 |
| 1750                   | 57      | 25.5                                 | 2.9                           | 23.9                    | 21.8 | 19.7 | 17.6 | 15.4 | 13.3 | 24.5                              | 3.0                           | 21.1                    | 19.5 | 17.9 | 16.3 | 14.7 | 13.1 |
|                        | 77      | 60.3                                 | 3.2                           | 8.7                     | 5.9  | 3.1  | -    | -    | -    | 53.7                              | 3.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 52.1                                 | 3.1                           | 16.9                    | 14.1 | 11.3 | 8.5  | -    | -    | 45.7                              | 3.3                           | 10.6                    | 8.5  | 6.4  | 4.3  | -    | -    |
|                        | 67      | 43.9                                 | 3.0                           | 25.0                    | 22.3 | 19.5 | 16.7 | 13.9 | -    | 37.8                              | 3.1                           | 19.0                    | 16.9 | 14.8 | 12.7 | 10.6 | -    |
| 2000                   | 62      | 29.9                                 | 2.9                           | 27.3                    | 25.6 | 22.8 | 20.0 | 17.2 | 14.5 | 27.8                              | 3.1                           | 24.2                    | 22.7 | 20.6 | 18.5 | 16.4 | 14.2 |
|                        | 57      | 27.5                                 | 2.9                           | 26.7                    | 25.6 | 24.6 | 21.8 | 19.0 | 16.2 | 25.7                              | 3.1                           | 24.0                    | 23.2 | 22.4 | 20.3 | 18.2 | 16.0 |
|                        | 77      | 64.6                                 | 3.2                           | 10.7                    | 7.2  | 3.8  | -    | -    | -    | 56.2                              | 3.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 55.8                                 | 3.1                           | 20.5                    | 17.0 | 13.6 | 10.1 | -    | -    | 47.9                              | 3.3                           | 12.9                    | 10.3 | 7.7  | 5.1  | -    | -    |
| 2250                   | 67      | 47.0                                 | 2.9                           | 30.3                    | 26.8 | 23.4 | 19.9 | 16.5 | -    | 39.6                              | 3.1                           | 23.0                    | 20.4 | 17.8 | 15.2 | 12.6 | -    |
|                        | 62      | 32.1                                 | 2.9                           | 32.1                    | 30.8 | 27.3 | 23.9 | 20.4 | 17.0 | 29.0                              | 3.1                           | 28.8                    | 27.3 | 24.7 | 22.1 | 19.4 | 16.8 |
|                        | 57      | 29.5                                 | 2.9                           | 29.5                    | 29.5 | 26.0 | 22.6 | 19.1 | 15.1 | 26.8                              | 3.1                           | 26.8                    | 26.8 | 26.8 | 24.2 | 21.6 | 19.0 |
|                        | 72      | 58.0                                 | 3.1                           | 23.4                    | 19.4 | 15.4 | 11.3 | -    | -    | 49.3                              | 3.3                           | 14.9                    | 11.9 | 8.8  | 5.7  | -    | -    |
| 2500                   | 67      | 48.9                                 | 3.0                           | 34.5                    | 30.5 | 26.4 | 22.4 | 18.4 | -    | 40.7                              | 3.1                           | 26.6                    | 23.6 | 20.5 | 17.4 | 14.3 | -    |
|                        | 62      | 33.4                                 | 2.9                           | 33.4                    | 32.7 | 30.9 | 26.9 | 22.9 | 18.9 | 29.8                              | 3.1                           | 29.7                    | 29.0 | 27.6 | 24.6 | 21.5 | 18.4 |
|                        | 57      | 30.6                                 | 2.9                           | 30.6                    | 30.6 | 30.6 | 26.6 | 22.6 | 18.6 | 27.6                              | 3.1                           | 27.6                    | 27.6 | 27.6 | 24.5 | 21.4 | 18.3 |
|                        | 72      | 60.2                                 | 3.1                           | 26.3                    | 21.7 | 17.1 | 12.6 | -    | -    | 50.7                              | 3.3                           | 16.9                    | 13.4 | 9.8  | 6.3  | -    | -    |
| 2500                   | 67      | 50.7                                 | 3.0                           | 38.7                    | 34.1 | 29.5 | 24.9 | 20.4 | -    | 41.9                              | 3.2                           | 30.3                    | 26.7 | 23.2 | 19.6 | 16.1 | -    |
|                        | 62      | 34.6                                 | 3.0                           | 34.6                    | 34.6 | 34.6 | 30.0 | 25.4 | 20.8 | 30.6                              | 3.1                           | 30.6                    | 30.6 | 30.6 | 27.1 | 23.5 | 20.0 |
|                        | 57      | 31.8                                 | 2.9                           | 31.8                    | 31.8 | 31.8 | 27.2 | 22.6 | 18.0 | 28.3                              | 3.1                           | 28.3                    | 28.3 | 28.3 | 24.8 | 21.2 | 17.7 |

**ZT061 (5.0 ton) reheat (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1250                   | 77      | 45.7                                 | 3.5                           | -                       | -    | -    | -    | -    | -    | 42.7                              | 3.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 38.2                                 | 3.4                           | 2.4                     | 1.7  | 0.9  | 0.2  | -    | -    | 35.0                              | 3.6                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 30.8                                 | 3.3                           | 7.6                     | 6.9  | 6.1  | 5.4  | 4.6  | -    | 27.4                              | 3.4                           | 4.1                     | 3.7  | 3.3  | 2.9  | 2.5  | -    |
|                        | 62      | 24.8                                 | 3.2                           | 12.5                    | 11.8 | 11.0 | 10.3 | 9.6  | 8.8  | 24.4                              | 3.3                           | 10.0                    | 10.1 | 9.7  | 9.3  | 8.9  | 8.5  |
| 1500                   | 77      | 46.4                                 | 3.6                           | -                       | -    | -    | -    | -    | -    | 41.6                              | 3.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 38.8                                 | 3.4                           | 3.4                     | 2.3  | 1.2  | 0.1  | -    | -    | 34.0                              | 3.6                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 31.2                                 | 3.3                           | 10.3                    | 9.2  | 8.2  | 7.1  | 6.0  | -    | 26.5                              | 3.5                           | 5.6                     | 5.0  | 4.4  | 3.9  | 3.3  | -    |
|                        | 62      | 25.2                                 | 3.2                           | 16.9                    | 15.8 | 14.7 | 13.6 | 12.5 | 11.4 | 23.9                              | 3.3                           | 14.1                    | 13.5 | 12.9 | 12.3 | 11.8 | 11.2 |
|                        | 57      | 23.5                                 | 3.2                           | 18.3                    | 17.2 | 16.2 | 15.1 | 14.0 | 12.9 | 22.4                              | 3.3                           | 15.6                    | 15.0 | 14.4 | 13.8 | 13.2 | 12.7 |
| 1750                   | 77      | 47.1                                 | 3.6                           | -                       | -    | -    | -    | -    | -    | 40.5                              | 3.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 39.4                                 | 3.4                           | 4.4                     | 3.0  | 1.5  | 0.1  | -    | -    | 33.1                              | 3.6                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 31.7                                 | 3.3                           | 13.0                    | 11.6 | 10.2 | 8.7  | 7.3  | -    | 25.7                              | 3.5                           | 7.1                     | 6.3  | 5.5  | 4.8  | 4.0  | -    |
|                        | 62      | 25.6                                 | 3.2                           | 21.2                    | 19.8 | 18.3 | 16.9 | 15.5 | 14.0 | 23.4                              | 3.3                           | 18.2                    | 16.9 | 16.1 | 15.4 | 14.6 | 13.8 |
|                        | 57      | 23.8                                 | 3.2                           | 21.3                    | 20.7 | 20.2 | 18.7 | 17.3 | 15.9 | 22.0                              | 3.3                           | 18.5                    | 18.3 | 18.0 | 17.2 | 16.4 | 15.7 |
| 2000                   | 77      | 47.8                                 | 3.6                           | -                       | -    | -    | -    | -    | -    | 39.4                              | 3.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 40.0                                 | 3.5                           | 5.4                     | 3.6  | 1.8  | 0.1  | -    | -    | 32.1                              | 3.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 32.2                                 | 3.3                           | 15.8                    | 14.0 | 12.2 | 10.4 | 8.7  | -    | 24.8                              | 3.5                           | 8.5                     | 7.6  | 6.6  | 5.7  | 4.7  | -    |
|                        | 62      | 26.0                                 | 3.2                           | 25.5                    | 23.8 | 22.0 | 20.2 | 18.4 | 16.7 | 22.9                              | 3.4                           | 22.3                    | 20.3 | 19.3 | 18.4 | 17.4 | 16.5 |
|                        | 57      | 24.2                                 | 3.2                           | 24.2                    | 24.2 | 24.2 | 22.4 | 20.6 | 18.8 | 21.5                              | 3.3                           | 21.5                    | 21.5 | 21.5 | 20.6 | 19.7 | 18.7 |
| 2250                   | 72      | 40.5                                 | 3.5                           | 6.5                     | 4.3  | 2.2  | 0.1  | -    | -    | 31.8                              | 3.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 32.6                                 | 3.3                           | 18.8                    | 16.7 | 14.5 | 12.4 | 10.2 | -    | 24.5                              | 3.5                           | 11.0                    | 9.8  | 8.6  | 7.3  | 6.1  | -    |
|                        | 62      | 26.3                                 | 3.2                           | 26.1                    | 25.2 | 24.3 | 22.2 | 20.0 | 17.9 | 22.8                              | 3.4                           | 22.5                    | 21.5 | 21.0 | 19.8 | 18.6 | 17.4 |
|                        | 57      | 24.5                                 | 3.2                           | 24.5                    | 24.5 | 24.5 | 22.4 | 20.2 | 18.1 | 21.4                              | 3.4                           | 21.4                    | 21.4 | 21.4 | 20.2 | 19.0 | 17.8 |
| 2500                   | 72      | 41.1                                 | 3.5                           | 7.6                     | 5.0  | 2.5  | 0.1  | -    | -    | 31.5                              | 3.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 33.1                                 | 3.4                           | 21.9                    | 19.3 | 16.8 | 14.3 | 11.8 | -    | 24.2                              | 3.6                           | 13.4                    | 12.0 | 10.5 | 9.0  | 7.5  | -    |
|                        | 62      | 26.7                                 | 3.2                           | 26.7                    | 26.7 | 26.7 | 24.1 | 21.6 | 19.1 | 22.7                              | 3.4                           | 22.7                    | 22.7 | 22.7 | 21.2 | 19.8 | 18.3 |
|                        | 57      | 24.8                                 | 3.2                           | 24.8                    | 24.8 | 24.8 | 22.3 | 19.8 | 17.3 | 21.3                              | 3.4                           | 21.3                    | 21.3 | 21.3 | 19.9 | 18.4 | 16.9 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**ZT078 (6.5 ton) reheat**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |  |  |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|--|--|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |  |  |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |  |  |  |  |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |  |  |  |  |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 45°F                    |      |      |      |      |      |  |  |  |  |
| 1625                   | 77      | 61.5                                 | 2.0                           | 24.7                    | 21.4 | 18.0 | -    | -    | -    | 52.9                              | 2.4                           | 14.8                    | 12.0 | 9.2  | -    | -    | -    |  |  |  |  |
|                        | 72      | 52.3                                 | 1.9                           | 28.3                    | 25.0 | 21.6 | 18.2 | -    | -    | 46.0                              | 2.3                           | 20.2                    | 17.4 | 14.6 | 11.8 | -    | -    |  |  |  |  |
|                        | 67      | 43.1                                 | 1.9                           | 31.9                    | 28.6 | 25.2 | 21.8 | 18.5 | -    | 39.1                              | 2.2                           | 25.6                    | 22.8 | 20.0 | 17.2 | 14.4 | -    |  |  |  |  |
|                        | 62      | 48.8                                 | 1.8                           | 48.8                    | 44.2 | 41.0 | 37.6 | 34.3 | 30.9 | 40.1                              | 2.1                           | 37.5                    | 32.7 | 29.9 | 27.1 | 24.3 | 21.5 |  |  |  |  |
| 1950                   | 77      | 59.3                                 | 2.0                           | 26.5                    | 22.8 | 19.2 | -    | -    | -    | 53.3                              | 2.4                           | 16.5                    | 13.1 | 9.8  | -    | -    | -    |  |  |  |  |
|                        | 72      | 50.3                                 | 2.0                           | 28.9                    | 25.3 | 21.6 | 18.0 | -    | -    | 46.3                              | 2.3                           | 22.3                    | 18.9 | 15.5 | 12.2 | -    | -    |  |  |  |  |
|                        | 67      | 41.3                                 | 2.0                           | 31.4                    | 27.7 | 24.1 | 20.4 | 16.8 | -    | 39.4                              | 2.2                           | 28.1                    | 24.7 | 21.3 | 17.9 | 14.6 | -    |  |  |  |  |
|                        | 62      | 47.3                                 | 1.9                           | 47.3                    | 43.8 | 40.2 | 36.5 | 32.8 | 29.2 | 40.4                              | 2.1                           | 38.7                    | 35.3 | 31.9 | 28.6 | 25.2 | 21.8 |  |  |  |  |
| 2275                   | 77      | 57.0                                 | 2.1                           | 28.2                    | 24.3 | 20.3 | -    | -    | -    | 53.7                              | 2.4                           | 18.2                    | 14.3 | 10.4 | -    | -    | -    |  |  |  |  |
|                        | 72      | 48.3                                 | 2.1                           | 29.6                    | 25.6 | 21.6 | 17.7 | -    | -    | 46.7                              | 2.3                           | 24.4                    | 20.5 | 16.5 | 12.6 | -    | -    |  |  |  |  |
|                        | 67      | 39.5                                 | 2.1                           | 30.9                    | 26.9 | 23.0 | 19.0 | 15.0 | -    | 39.7                              | 2.2                           | 30.5                    | 26.6 | 22.7 | 18.7 | 14.8 | -    |  |  |  |  |
|                        | 62      | 45.7                                 | 1.9                           | 45.7                    | 43.5 | 39.3 | 35.4 | 31.4 | 27.4 | 40.7                              | 2.1                           | 39.8                    | 37.9 | 33.9 | 30.0 | 26.1 | 22.1 |  |  |  |  |
| 2600                   | 77      | 54.8                                 | 2.2                           | 30.0                    | 25.7 | 21.5 | -    | -    | -    | 54.1                              | 2.4                           | 20.0                    | 15.5 | 11.0 | -    | -    | -    |  |  |  |  |
|                        | 72      | 46.2                                 | 2.1                           | 30.2                    | 25.9 | 21.6 | 17.4 | -    | -    | 47.0                              | 2.3                           | 26.5                    | 22.0 | 17.5 | 13.0 | -    | -    |  |  |  |  |
|                        | 67      | 37.7                                 | 2.1                           | 30.4                    | 26.1 | 21.8 | 17.6 | 13.3 | -    | 40.0                              | 2.2                           | 33.0                    | 28.5 | 24.0 | 19.5 | 15.0 | -    |  |  |  |  |
|                        | 62      | 44.2                                 | 2.0                           | 44.2                    | 43.1 | 38.5 | 34.2 | 29.9 | 25.7 | 41.0                              | 2.1                           | 41.0                    | 40.4 | 35.9 | 31.5 | 27.0 | 22.5 |  |  |  |  |
| 2925                   | 77      | 54.7                                 | 2.1                           | 37.2                    | 32.9 | 28.5 | 24.1 | -    | -    | 51.9                              | 2.3                           | 31.2                    | 26.4 | 21.7 | 16.9 | -    | -    |  |  |  |  |
|                        | 67      | 44.9                                 | 2.1                           | 39.1                    | 34.8 | 30.4 | 26.0 | 21.6 | -    | 44.1                              | 2.2                           | 39.2                    | 34.5 | 29.7 | 24.9 | 20.2 | -    |  |  |  |  |
|                        | 62      | 51.7                                 | 2.0                           | 51.7                    | 51.2 | 48.9 | 44.5 | 40.1 | 35.7 | 45.2                              | 2.1                           | 45.2                    | 45.0 | 42.7 | 38.0 | 33.2 | 28.4 |  |  |  |  |
|                        | 57      | 48.5                                 | 2.0                           | 48.5                    | 48.5 | 47.4 | 43.1 | 38.7 | 34.3 | 42.4                              | 2.1                           | 42.4                    | 42.4 | 41.3 | 36.6 | 31.8 | 27.0 |  |  |  |  |
| 3250                   | 72      | 63.3                                 | 2.1                           | 44.3                    | 39.8 | 35.4 | 30.9 | -    | -    | 56.8                              | 2.2                           | 35.9                    | 30.8 | 25.8 | 20.8 | -    | -    |  |  |  |  |
|                        | 67      | 52.1                                 | 2.1                           | 47.9                    | 43.4 | 38.9 | 34.4 | 30.0 | -    | 48.3                              | 2.2                           | 45.4                    | 40.4 | 35.4 | 30.4 | 25.4 | -    |  |  |  |  |
|                        | 62      | 59.2                                 | 2.0                           | 59.2                    | 59.2 | 59.2 | 54.8 | 50.3 | 45.8 | 49.5                              | 2.1                           | 49.5                    | 49.5 | 49.5 | 44.5 | 39.4 | 34.4 |  |  |  |  |
|                        | 57      | 55.5                                 | 2.0                           | 55.5                    | 55.5 | 55.5 | 51.0 | 46.6 | 42.1 | 46.4                              | 2.1                           | 46.4                    | 46.4 | 46.4 | 41.3 | 36.3 | 31.3 |  |  |  |  |
|                        |         | 55°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 65°F                    |      |      |      |      |      |  |  |  |  |
| 1625                   | 77      | 44.2                                 | 2.7                           | 4.8                     | 2.6  | 0.3  | -    | -    | -    | 40.9                              | 2.9                           | 4.7                     | 2.7  | 0.6  | -    | -    | -    |  |  |  |  |
|                        | 72      | 39.6                                 | 2.6                           | 12.0                    | 9.8  | 7.5  | 5.3  | -    | -    | 36.0                              | 2.8                           | 10.9                    | 8.9  | 6.8  | 4.8  | -    | -    |  |  |  |  |
|                        | 67      | 35.1                                 | 2.5                           | 19.3                    | 17.0 | 14.8 | 12.5 | 10.2 | -    | 31.2                              | 2.7                           | 17.1                    | 15.1 | 13.0 | 11.0 | 8.9  | -    |  |  |  |  |
|                        | 62      | 31.3                                 | 2.4                           | 25.9                    | 21.3 | 18.8 | 16.6 | 14.3 | 12.1 | 27.5                              | 2.6                           | 24.2                    | 20.0 | 16.9 | 14.8 | 12.8 | 10.7 |  |  |  |  |
| 1950                   | 77      | 47.3                                 | 2.7                           | 6.5                     | 3.5  | 0.4  | -    | -    | -    | 43.4                              | 2.8                           | 6.4                     | 3.6  | 0.8  | -    | -    | -    |  |  |  |  |
|                        | 72      | 42.4                                 | 2.6                           | 15.6                    | 12.5 | 9.5  | 6.4  | -    | -    | 38.2                              | 2.7                           | 14.2                    | 11.4 | 8.6  | 5.8  | -    | -    |  |  |  |  |
|                        | 67      | 37.5                                 | 2.5                           | 24.7                    | 21.6 | 18.6 | 15.5 | 12.4 | -    | 33.0                              | 2.6                           | 22.1                    | 19.3 | 16.5 | 13.7 | 10.9 | -    |  |  |  |  |
|                        | 62      | 33.5                                 | 2.4                           | 29.8                    | 26.8 | 23.7 | 20.6 | 17.5 | 14.5 | 29.2                              | 2.6                           | 27.0                    | 24.2 | 21.4 | 18.6 | 15.8 | 13.0 |  |  |  |  |
| 2275                   | 77      | 50.3                                 | 2.6                           | 8.2                     | 4.4  | 0.5  | -    | -    | -    | 45.8                              | 2.8                           | 8.1                     | 4.5  | 1.0  | -    | -    | -    |  |  |  |  |
|                        | 72      | 45.1                                 | 2.5                           | 19.2                    | 15.3 | 11.4 | 7.5  | -    | -    | 40.4                              | 2.7                           | 17.6                    | 14.0 | 10.4 | 6.9  | -    | -    |  |  |  |  |
|                        | 67      | 39.9                                 | 2.4                           | 30.1                    | 26.3 | 22.4 | 18.5 | 14.6 | -    | 34.9                              | 2.6                           | 27.0                    | 23.5 | 19.9 | 16.4 | 12.8 | -    |  |  |  |  |
|                        | 62      | 35.6                                 | 2.3                           | 33.8                    | 32.3 | 28.5 | 24.6 | 20.8 | 16.9 | 30.8                              | 2.5                           | 29.7                    | 28.3 | 25.8 | 22.3 | 18.7 | 15.2 |  |  |  |  |
| 2600                   | 77      | 53.4                                 | 2.5                           | 10.0                    | 5.3  | 0.5  | -    | -    | -    | 48.2                              | 2.7                           | 9.8                     | 5.5  | 1.1  | -    | -    | -    |  |  |  |  |
|                        | 72      | 47.8                                 | 2.4                           | 22.8                    | 18.1 | 13.3 | 8.6  | -    | -    | 42.5                              | 2.6                           | 20.9                    | 16.6 | 12.3 | 7.9  | -    | -    |  |  |  |  |
|                        | 67      | 42.3                                 | 2.3                           | 35.6                    | 30.9 | 26.2 | 21.4 | 16.7 | -    | 36.8                              | 2.5                           | 32.0                    | 27.7 | 23.4 | 19.0 | 14.7 | -    |  |  |  |  |
|                        | 62      | 37.8                                 | 2.3                           | 37.8                    | 37.8 | 33.4 | 28.7 | 24.0 | 19.3 | 32.5                              | 2.5                           | 32.5                    | 32.5 | 30.3 | 26.0 | 21.7 | 17.4 |  |  |  |  |
| 2925                   | 77      | 53.4                                 | 2.5                           | 10.0                    | 5.3  | 0.5  | -    | -    | -    | 48.2                              | 2.7                           | 9.8                     | 5.5  | 1.1  | -    | -    | -    |  |  |  |  |
|                        | 72      | 47.8                                 | 2.4                           | 22.8                    | 18.1 | 13.3 | 8.6  | -    | -    | 42.5                              | 2.6                           | 20.9                    | 16.6 | 12.3 | 7.9  | -    | -    |  |  |  |  |
|                        | 67      | 42.3                                 | 2.3                           | 35.6                    | 30.9 | 26.2 | 21.4 | 16.7 | -    | 36.8                              | 2.5                           | 32.0                    | 27.7 | 23.4 | 19.0 | 14.7 | -    |  |  |  |  |
|                        | 62      | 37.8                                 | 2.3                           | 37.8                    | 37.8 | 33.4 | 28.7 | 24.0 | 19.3 | 32.5                              | 2.5                           | 32.5                    | 32.5 | 30.3 | 26.0 | 21.7 | 17.4 |  |  |  |  |
| 3250                   | 72      | 49.1                                 | 2.4                           | 25.1                    | 20.0 | 14.8 | 9.7  | -    | -    | 43.4                              | 2.6                           | 23.7                    | 18.8 | 13.9 | 9.0  | -    | -    |  |  |  |  |
|                        | 67      | 43.4                                 | 2.3                           | 39.3                    | 34.2 | 29.0 | 23.9 | 18.7 | -    | 37.5                              | 2.5                           | 34.8                    | 31.2 | 26.5 | 21.7 | 16.8 | -    |  |  |  |  |
|                        | 62      | 38.8                                 | 2.2                           | 38.8                    | 38.8 | 36.6 | 31.4 | 26.3 | 21.1 | 33.2                              | 2.4                           | 33.2                    | 33.2 | 32.1 | 27.2 | 22.3 | 17.4 |  |  |  |  |
|                        | 57      | 36.3                                 | 2.2                           | 36.3                    | 36.3 | 35.2 | 30.1 | 24.9 | 19.8 | 31.2                              | 2.4                           | 31.2                    | 31.2 | 30.7 | 25.8 | 20.9 | 16.0 |  |  |  |  |
| 3250                   | 72      | 50.3                                 | 2.4                           | 27.4                    | 21.8 | 16.3 | 10.7 | -    | -    | 44.3                              | 2.5                           | 26.5                    | 21.1 | 15.6 | 10.2 | -    | -    |  |  |  |  |
|                        | 67      | 44.5                                 | 2.3                           | 43.0                    | 37.5 | 31.9 | 26.3 | 20.7 | -    | 38.3                              | 2.4                           | 37.6                    | 34.8 | 29.7 | 24.3 | 18.8 | -    |  |  |  |  |
|                        | 62      | 39.7                                 | 2.2                           | 39.7                    | 39.7 | 34.2 | 28.6 | 23.0 | 17.5 | 33.8                              | 2.4                           | 33.8                    | 33.8 | 33.8 | 28.4 | 23.0 | 17.5 |  |  |  |  |
|                        | 57      | 37.2                                 | 2.2                           | 37.2                    | 37.2 | 37.2 | 31.6 | 26.0 | 20.5 | 31.8                              | 2.3                           | 31.8                    | 31.8 | 31.8 | 26.4 | 20.9 | 15.5 |  |  |  |  |

**ZT078 (6.5 ton) reheater (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1625                   | 77      | 37.6                                 | 3.1                           | 4.7                     | 2.8  | 1.0  | -    | -    | -    | 34.4                              | 3.2                           | 4.6                     | 2.9  | 1.3  | -    | -    | -    |
|                        | 72      | 32.5                                 | 2.9                           | 9.8                     | 8.0  | 6.1  | 4.3  | -    | -    | 28.9                              | 3.1                           | 8.7                     | 7.1  | 5.4  | 3.8  | -    | -    |
|                        | 67      | 27.3                                 | 2.8                           | 15.0                    | 13.1 | 11.3 | 9.5  | 7.6  | -    | 23.4                              | 3.0                           | 12.8                    | 11.2 | 9.6  | 7.9  | 6.3  | -    |
|                        | 62      | 23.8                                 | 2.8                           | 22.6                    | 18.8 | 15.0 | 13.1 | 11.3 | 9.4  | 20.0                              | 2.9                           | 20.0                    | 17.5 | 13.0 | 11.4 | 9.7  | 8.1  |
| 1950                   | 77      | 39.5                                 | 3.0                           | 6.3                     | 3.8  | 1.2  | -    | -    | -    | 35.6                              | 3.2                           | 6.2                     | 3.9  | 1.7  | -    | -    | -    |
|                        | 72      | 34.0                                 | 2.9                           | 12.9                    | 10.3 | 7.8  | 5.3  | -    | -    | 29.9                              | 3.1                           | 11.5                    | 9.2  | 7.0  | 4.7  | -    | -    |
|                        | 67      | 28.6                                 | 2.8                           | 19.4                    | 16.9 | 14.4 | 11.8 | 9.3  | -    | 24.1                              | 3.0                           | 16.8                    | 14.6 | 12.3 | 10.0 | 7.8  | -    |
|                        | 62      | 24.9                                 | 2.7                           | 24.1                    | 21.6 | 19.0 | 16.5 | 14.0 | 11.4 | 20.6                              | 2.9                           | 20.6                    | 19.0 | 16.7 | 14.5 | 12.2 | 9.9  |
|                        | 57      | 23.6                                 | 2.6                           | 23.1                    | 20.6 | 18.0 | 15.5 | 13.0 | 10.4 | 19.7                              | 2.8                           | 19.7                    | 17.5 | 15.3 | 13.0 | 10.8 | 8.5  |
| 2275                   | 77      | 41.3                                 | 3.0                           | 7.9                     | 4.7  | 1.5  | -    | -    | -    | 36.8                              | 3.1                           | 7.8                     | 4.9  | 2.0  | -    | -    | -    |
|                        | 72      | 35.6                                 | 2.9                           | 15.9                    | 12.7 | 9.5  | 6.3  | -    | -    | 30.8                              | 3.0                           | 14.3                    | 11.4 | 8.5  | 5.6  | -    | -    |
|                        | 67      | 29.9                                 | 2.8                           | 23.9                    | 20.7 | 17.5 | 14.2 | 11.0 | -    | 24.9                              | 2.9                           | 20.8                    | 17.9 | 15.0 | 12.1 | 9.3  | -    |
|                        | 62      | 26.1                                 | 2.7                           | 25.7                    | 24.4 | 23.1 | 19.9 | 16.7 | 13.5 | 21.3                              | 2.9                           | 21.3                    | 20.5 | 20.4 | 17.5 | 14.7 | 11.8 |
|                        | 57      | 24.7                                 | 2.6                           | 24.4                    | 23.2 | 21.9 | 18.7 | 15.5 | 12.2 | 20.3                              | 2.7                           | 20.3                    | 19.3 | 18.7 | 15.8 | 12.9 | 10.0 |
| 2600                   | 77      | 43.1                                 | 2.9                           | 9.6                     | 5.7  | 1.8  | -    | -    | -    | 38.0                              | 3.1                           | 9.4                     | 5.9  | 2.4  | -    | -    | -    |
|                        | 72      | 37.2                                 | 2.8                           | 19.0                    | 15.1 | 11.2 | 7.2  | -    | -    | 31.8                              | 3.0                           | 17.1                    | 13.6 | 10.1 | 6.6  | -    | -    |
|                        | 67      | 31.2                                 | 2.7                           | 28.4                    | 24.5 | 20.5 | 16.6 | 12.7 | -    | 25.7                              | 2.9                           | 24.7                    | 21.2 | 17.7 | 14.2 | 10.7 | -    |
|                        | 62      | 27.2                                 | 2.7                           | 27.2                    | 27.2 | 27.2 | 23.3 | 19.4 | 15.5 | 21.9                              | 2.9                           | 21.9                    | 21.9 | 21.9 | 20.6 | 17.1 | 13.6 |
|                        | 57      | 25.8                                 | 2.6                           | 25.8                    | 25.8 | 25.8 | 21.9 | 18.0 | 14.1 | 21.0                              | 2.7                           | 21.0                    | 21.0 | 21.0 | 18.5 | 15.0 | 11.5 |
| 2925                   | 72      | 37.7                                 | 2.8                           | 22.3                    | 17.7 | 13.0 | 8.4  | -    | -    | 32.0                              | 2.9                           | 20.9                    | 16.5 | 12.2 | 7.8  | -    | -    |
|                        | 67      | 31.7                                 | 2.7                           | 30.2                    | 28.3 | 24.0 | 19.4 | 14.8 | -    | 25.8                              | 2.8                           | 25.7                    | 25.3 | 21.6 | 17.2 | 12.8 | -    |
|                        | 62      | 27.6                                 | 2.6                           | 27.6                    | 27.6 | 27.6 | 23.0 | 18.4 | 13.7 | 22.0                              | 2.8                           | 22.0                    | 22.0 | 22.0 | 18.7 | 14.4 | 10.0 |
|                        | 57      | 26.1                                 | 2.5                           | 26.1                    | 26.1 | 26.1 | 21.5 | 16.9 | 12.3 | 21.0                              | 2.7                           | 21.0                    | 21.0 | 21.0 | 17.2 | 12.9 | 8.5  |
| 3250                   | 72      | 38.2                                 | 2.7                           | 25.6                    | 20.3 | 14.9 | 9.6  | -    | -    | 32.1                              | 2.9                           | 24.7                    | 19.5 | 14.3 | 9.1  | -    | -    |
|                        | 67      | 32.1                                 | 2.6                           | 32.1                    | 32.1 | 27.5 | 22.2 | 16.9 | -    | 25.9                              | 2.8                           | 25.9                    | 25.9 | 25.4 | 20.2 | 15.0 | -    |
|                        | 62      | 28.0                                 | 2.5                           | 28.0                    | 28.0 | 28.0 | 22.6 | 17.3 | 12.0 | 22.1                              | 2.7                           | 22.1                    | 22.1 | 22.1 | 16.9 | 11.7 | 6.5  |
|                        | 57      | 26.5                                 | 2.5                           | 26.5                    | 26.5 | 26.5 | 21.2 | 15.8 | 10.5 | 21.1                              | 2.6                           | 21.1                    | 21.1 | 21.1 | 15.9 | 10.7 | 5.5  |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT090 (7.5 ton) reheater

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      | 45°F                              |                               |                         |      |      |      |      |      |
| 1875                   | 77      | 57.3                                 | 1.9                           | 20.2                    | 16.3 | 12.3 | -    | -    | -    | 58.5                              | 2.1                           | 15.4                    | 11.5 | 7.7  | -    | -    | -    |
|                        | 72      | 56.2                                 | 1.9                           | 29.3                    | 25.3 | 21.3 | 17.4 | -    | -    | 55.3                              | 2.1                           | 24.7                    | 20.9 | 17.0 | 13.2 | -    | -    |
|                        | 67      | 55.0                                 | 1.8                           | 38.3                    | 34.3 | 30.4 | 26.4 | 22.4 | -    | 52.1                              | 2.0                           | 34.0                    | 30.2 | 26.3 | 22.5 | 18.7 | -    |
|                        | 62      | 51.0                                 | 1.8                           | 42.2                    | 35.2 | 34.3 | 30.3 | 26.3 | 22.4 | 47.7                              | 1.9                           | 43.3                    | 36.8 | 33.0 | 29.1 | 25.3 | 21.4 |
| 2250                   | 77      | 59.3                                 | 2.0                           | 22.2                    | 18.0 | 13.9 | -    | -    | -    | 60.3                              | 2.2                           | 17.4                    | 13.1 | 8.7  | -    | -    | -    |
|                        | 72      | 58.0                                 | 1.9                           | 32.1                    | 28.0 | 23.8 | 19.7 | -    | -    | 56.9                              | 2.1                           | 28.0                    | 23.7 | 19.4 | 15.0 | -    | -    |
|                        | 67      | 56.8                                 | 1.8                           | 42.1                    | 38.0 | 33.8 | 29.7 | 25.5 | -    | 53.6                              | 2.0                           | 38.6                    | 34.3 | 30.0 | 25.6 | 21.3 | -    |
|                        | 62      | 52.7                                 | 1.8                           | 46.9                    | 42.1 | 37.9 | 33.8 | 29.7 | 25.5 | 49.1                              | 1.9                           | 46.2                    | 41.8 | 37.5 | 33.2 | 28.8 | 24.5 |
|                        | 57      | 49.8                                 | 1.8                           | 49.2                    | 45.0 | 40.9 | 36.7 | 32.6 | 28.4 | 46.9                              | 1.9                           | 46.6                    | 42.2 | 37.9 | 33.6 | 29.2 | 24.9 |
| 2625                   | 77      | 61.2                                 | 2.0                           | 24.1                    | 19.8 | 15.5 | -    | -    | -    | 62.0                              | 2.2                           | 19.5                    | 14.6 | 9.8  | -    | -    | -    |
|                        | 72      | 59.9                                 | 1.9                           | 35.0                    | 30.7 | 26.4 | 22.0 | -    | -    | 58.6                              | 2.1                           | 31.4                    | 26.5 | 21.7 | 16.9 | -    | -    |
|                        | 67      | 58.6                                 | 1.9                           | 45.9                    | 41.6 | 37.3 | 32.9 | 28.6 | -    | 55.2                              | 2.0                           | 43.3                    | 38.4 | 33.6 | 28.7 | 23.9 | -    |
|                        | 62      | 54.4                                 | 1.8                           | 51.5                    | 49.0 | 41.6 | 37.3 | 33.0 | 28.7 | 50.5                              | 1.9                           | 49.1                    | 46.9 | 42.0 | 37.2 | 32.3 | 27.5 |
|                        | 57      | 51.4                                 | 1.8                           | 51.1                    | 49.0 | 44.9 | 40.6 | 36.3 | 32.0 | 48.2                              | 1.9                           | 48.1                    | 45.9 | 42.5 | 37.6 | 32.8 | 28.0 |
| 3000                   | 77      | 63.1                                 | 2.0                           | 26.0                    | 21.5 | 17.0 | -    | -    | -    | 63.7                              | 2.2                           | 21.5                    | 16.2 | 10.9 | -    | -    | -    |
|                        | 72      | 61.8                                 | 2.0                           | 37.9                    | 33.4 | 28.9 | 24.4 | -    | -    | 60.2                              | 2.1                           | 34.7                    | 29.4 | 24.0 | 18.7 | -    | -    |
|                        | 67      | 60.4                                 | 1.9                           | 49.7                    | 45.2 | 40.7 | 36.2 | 31.7 | -    | 56.7                              | 2.0                           | 47.9                    | 42.5 | 37.2 | 31.9 | 26.5 | -    |
|                        | 62      | 56.1                                 | 1.9                           | 56.1                    | 56.0 | 45.3 | 40.8 | 36.3 | 31.8 | 52.0                              | 1.9                           | 52.0                    | 51.9 | 46.6 | 41.2 | 35.9 | 30.5 |
|                        | 57      | 53.0                                 | 1.8                           | 53.0                    | 53.0 | 49.0 | 44.5 | 40.0 | 35.5 | 49.6                              | 1.9                           | 49.6                    | 49.6 | 47.0 | 41.7 | 36.4 | 31.0 |
| 3375                   | 72      | 61.6                                 | 2.0                           | 40.1                    | 35.4 | 30.6 | 25.9 | -    | -    | 60.8                              | 2.1                           | 37.4                    | 31.7 | 26.0 | 20.3 | -    | -    |
|                        | 67      | 60.3                                 | 1.9                           | 52.6                    | 47.7 | 42.9 | 38.2 | 33.5 | -    | 57.2                              | 2.0                           | 51.7                    | 46.0 | 40.3 | 34.6 | 28.9 | -    |
|                        | 62      | 56.0                                 | 1.9                           | 56.0                    | 55.9 | 50.6 | 45.9 | 41.1 | 36.4 | 52.4                              | 1.9                           | 52.4                    | 52.4 | 49.7 | 44.1 | 38.4 | 32.7 |
|                        | 57      | 52.9                                 | 1.8                           | 52.9                    | 52.9 | 50.9 | 46.2 | 41.4 | 36.7 | 50.0                              | 1.9                           | 50.0                    | 50.0 | 48.8 | 43.1 | 37.4 | 31.7 |
| 3750                   | 72      | 61.4                                 | 2.0                           | 42.3                    | 37.4 | 32.4 | 27.4 | -    | -    | 61.4                              | 2.1                           | 40.1                    | 34.1 | 28.0 | 22.0 | -    | -    |
|                        | 67      | 60.2                                 | 1.9                           | 55.6                    | 50.2 | 45.2 | 40.2 | 35.2 | -    | 57.8                              | 2.0                           | 55.4                    | 49.4 | 43.4 | 37.4 | 31.3 | -    |
|                        | 62      | 55.9                                 | 1.9                           | 55.9                    | 55.9 | 55.9 | 50.9 | 45.9 | 41.0 | 52.9                              | 2.0                           | 52.9                    | 52.9 | 52.9 | 46.9 | 40.9 | 34.9 |
|                        | 57      | 52.8                                 | 1.8                           | 52.8                    | 52.8 | 52.8 | 47.8 | 42.8 | 37.8 | 50.5                              | 2.0                           | 50.5                    | 50.5 | 50.5 | 44.5 | 38.5 | 32.4 |
|                        |         | 55°F                                 |                               |                         |      |      |      |      |      | 65°F                              |                               |                         |      |      |      |      |      |
| 1875                   | 77      | 59.7                                 | 2.4                           | 10.5                    | 6.8  | 3.1  | -    | -    | -    | 54.9                              | 2.6                           | 9.3                     | 5.9  | 2.5  | -    | -    | -    |
|                        | 72      | 54.4                                 | 2.2                           | 20.1                    | 16.4 | 12.7 | 9.0  | -    | -    | 49.3                              | 2.5                           | 17.7                    | 14.3 | 11.0 | 7.6  | -    | -    |
|                        | 67      | 49.1                                 | 2.1                           | 29.7                    | 26.0 | 22.3 | 18.6 | 14.9 | -    | 43.8                              | 2.4                           | 26.2                    | 22.8 | 19.4 | 16.0 | 12.6 | -    |
|                        | 62      | 44.3                                 | 2.0                           | 44.3                    | 38.5 | 31.7 | 28.0 | 24.2 | 20.5 | 39.5                              | 2.3                           | 38.1                    | 32.2 | 25.9 | 22.6 | 19.2 | 15.8 |
| 2250                   | 77      | 61.2                                 | 2.4                           | 12.7                    | 8.2  | 3.6  | -    | -    | -    | 56.6                              | 2.6                           | 11.6                    | 7.4  | 3.1  | -    | -    | -    |
|                        | 72      | 55.8                                 | 2.2                           | 23.9                    | 19.4 | 14.9 | 10.3 | -    | -    | 50.8                              | 2.4                           | 21.9                    | 17.6 | 13.4 | 9.1  | -    | -    |
|                        | 67      | 50.4                                 | 2.1                           | 35.2                    | 30.6 | 26.1 | 21.6 | 17.0 | -    | 45.1                              | 2.3                           | 32.2                    | 27.9 | 23.6 | 19.4 | 15.1 | -    |
|                        | 62      | 45.5                                 | 2.0                           | 45.5                    | 41.6 | 37.1 | 32.5 | 28.0 | 23.4 | 40.7                              | 2.3                           | 39.8                    | 35.8 | 31.5 | 27.3 | 23.0 | 18.7 |
|                        | 57      | 43.9                                 | 2.1                           | 43.9                    | 39.5 | 34.9 | 30.4 | 25.9 | 21.3 | 39.1                              | 2.3                           | 38.6                    | 34.4 | 30.1 | 25.8 | 21.6 | 17.3 |
| 2625                   | 77      | 62.8                                 | 2.3                           | 14.9                    | 9.5  | 4.2  | -    | -    | -    | 58.2                              | 2.5                           | 14.0                    | 8.8  | 3.6  | -    | -    | -    |
|                        | 72      | 57.2                                 | 2.2                           | 27.7                    | 22.4 | 17.0 | 11.7 | -    | -    | 52.3                              | 2.4                           | 26.1                    | 20.9 | 15.8 | 10.6 | -    | -    |
|                        | 67      | 51.7                                 | 2.1                           | 40.6                    | 35.3 | 29.9 | 24.5 | 19.2 | -    | 46.4                              | 2.3                           | 38.2                    | 33.1 | 27.9 | 22.7 | 17.6 | -    |
|                        | 62      | 46.7                                 | 2.0                           | 46.7                    | 44.7 | 42.4 | 37.1 | 31.7 | 26.4 | 41.9                              | 2.3                           | 41.4                    | 39.5 | 37.1 | 31.9 | 26.8 | 21.6 |
|                        | 57      | 45.0                                 | 2.0                           | 45.0                    | 42.8 | 40.0 | 34.7 | 29.3 | 24.0 | 40.2                              | 2.3                           | 40.0                    | 37.9 | 35.5 | 30.3 | 25.1 | 20.0 |
| 3000                   | 77      | 64.4                                 | 2.3                           | 17.0                    | 10.9 | 4.7  | -    | -    | -    | 59.9                              | 2.5                           | 16.3                    | 10.2 | 4.2  | -    | -    | -    |
|                        | 72      | 58.7                                 | 2.2                           | 31.5                    | 25.4 | 19.2 | 13.0 | -    | -    | 53.8                              | 2.4                           | 30.3                    | 24.2 | 18.2 | 12.1 | -    | -    |
|                        | 67      | 53.0                                 | 2.1                           | 46.0                    | 39.9 | 33.7 | 27.5 | 21.3 | -    | 47.8                              | 2.3                           | 44.3                    | 38.2 | 32.2 | 26.1 | 20.0 | -    |
|                        | 62      | 47.8                                 | 2.0                           | 47.8                    | 47.8 | 47.8 | 41.6 | 35.5 | 29.3 | 43.1                              | 2.3                           | 43.1                    | 43.1 | 42.7 | 36.6 | 30.6 | 24.5 |
|                        | 57      | 46.2                                 | 2.0                           | 46.2                    | 46.2 | 45.1 | 38.9 | 32.7 | 26.6 | 41.4                              | 2.3                           | 41.4                    | 41.4 | 40.8 | 34.8 | 28.7 | 22.6 |
| 3375                   | 72      | 60.0                                 | 2.2                           | 34.7                    | 28.1 | 21.4 | 14.8 | -    | -    | 54.6                              | 2.4                           | 33.7                    | 27.0 | 20.3 | 13.7 | -    | -    |
|                        | 67      | 54.1                                 | 2.1                           | 50.7                    | 44.3 | 37.6 | 31.0 | 24.4 | -    | 48.4                              | 2.3                           | 46.7                    | 42.0 | 36.0 | 29.3 | 22.6 | -    |
|                        | 62      | 48.9                                 | 2.0                           | 48.9                    | 48.9 | 48.9 | 42.3 | 35.6 | 29.0 | 43.7                              | 2.3                           | 43.7                    | 43.7 | 43.5 | 36.8 | 30.1 | 23.4 |
|                        | 57      | 47.2                                 | 2.1                           | 47.2                    | 47.2 | 46.6 | 40.0 | 33.4 | 26.8 | 42.0                              | 2.3                           | 42.0                    | 42.0 | 41.7 | 35.0 | 28.3 | 21.6 |
| 3750                   | 72      | 61.3                                 | 2.2                           | 37.8                    | 30.8 | 23.7 | 16.6 | -    | -    | 55.3                              | 2.4                           | 37.1                    | 29.8 | 22.5 | 15.2 | -    | -    |
|                        | 67      | 55.3                                 | 2.1                           | 55.3                    | 48.7 | 41.6 | 34.5 | 27.5 | -    | 49.1                              | 2.3                           | 49.1                    | 45.8 | 39.9 | 32.6 | 25.3 | -    |
|                        | 62      | 49.9                                 | 2.0                           | 49.9                    | 49.9 | 49.9 | 42.9 | 35.8 | 28.7 | 44.3                              | 2.3                           | 44.3                    | 44.3 | 44.3 | 37.0 | 29.7 | 22.4 |
|                        | 57      | 48.2                                 | 2.1                           | 48.2                    | 48.2 | 48.2 | 41.1 | 34.1 | 27.0 | 42.5                              | 2.3                           | 42.5                    | 42.5 | 42.5 | 35.2 | 27.9 | 20.6 |

**ZT090 (7.5 ton) reheat (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1875                   | 77      | 50.1                                 | 2.8                           | 8.1                     | 5.0  | 2.0  | -    | -    | -    | 45.3                              | 3.0                           | 5.1                     | 4.1  | 1.4  | -    | -    | -    |
|                        | 72      | 44.3                                 | 2.7                           | 15.3                    | 12.3 | 9.2  | 6.2  | -    | -    | 39.2                              | 2.9                           | 12.9                    | 10.2 | 7.5  | 4.7  | -    | -    |
|                        | 67      | 38.5                                 | 2.6                           | 22.6                    | 19.5 | 16.5 | 13.4 | 10.4 | -    | 33.2                              | 2.8                           | 19.0                    | 16.3 | 13.5 | 10.8 | 8.1  | -    |
|                        | 62      | 34.7                                 | 2.6                           | 31.9                    | 25.9 | 20.2 | 17.2 | 14.1 | 11.1 | 29.9                              | 2.8                           | 25.7                    | 19.5 | 14.5 | 11.8 | 9.0  | 6.3  |
| 2250                   | 77      | 51.9                                 | 2.8                           | 10.6                    | 6.6  | 2.5  | -    | -    | -    | 47.2                              | 3.0                           | 9.5                     | 5.7  | 2.0  | -    | -    | -    |
|                        | 72      | 45.9                                 | 2.7                           | 19.9                    | 15.9 | 11.9 | 7.8  | -    | -    | 40.9                              | 2.9                           | 17.9                    | 14.1 | 10.4 | 6.6  | -    | -    |
|                        | 67      | 39.8                                 | 2.6                           | 29.2                    | 25.2 | 21.2 | 17.2 | 13.1 | -    | 34.5                              | 2.8                           | 26.3                    | 22.5 | 18.7 | 15.0 | 11.2 | -    |
|                        | 62      | 36.0                                 | 2.5                           | 34.1                    | 30.0 | 26.0 | 22.0 | 18.0 | 13.9 | 31.2                              | 2.8                           | 28.3                    | 24.3 | 20.5 | 16.7 | 13.0 | 9.2  |
|                        | 57      | 34.3                                 | 2.5                           | 33.4                    | 29.3 | 25.3 | 21.3 | 17.3 | 13.2 | 29.4                              | 2.8                           | 28.1                    | 24.3 | 20.5 | 16.7 | 13.0 | 9.2  |
| 2625                   | 77      | 53.6                                 | 2.7                           | 13.1                    | 8.1  | 3.1  | -    | -    | -    | 49.1                              | 2.9                           | 13.9                    | 7.4  | 2.6  | -    | -    | -    |
|                        | 72      | 47.4                                 | 2.6                           | 24.5                    | 19.5 | 14.5 | 9.5  | -    | -    | 42.5                              | 2.9                           | 22.9                    | 18.0 | 13.2 | 8.4  | -    | -    |
|                        | 67      | 41.2                                 | 2.5                           | 35.9                    | 30.9 | 25.9 | 20.9 | 15.9 | -    | 35.9                              | 2.8                           | 33.5                    | 28.7 | 23.9 | 19.1 | 14.3 | -    |
|                        | 62      | 37.2                                 | 2.5                           | 36.2                    | 34.2 | 31.8 | 26.8 | 21.8 | 16.8 | 32.4                              | 2.8                           | 31.0                    | 29.0 | 26.5 | 21.7 | 16.9 | 12.1 |
|                        | 57      | 35.4                                 | 2.5                           | 35.0                    | 33.0 | 31.0 | 26.0 | 21.0 | 16.0 | 30.6                              | 2.8                           | 30.0                    | 28.0 | 26.4 | 21.6 | 16.8 | 12.0 |
| 3000                   | 77      | 55.4                                 | 2.7                           | 15.6                    | 9.6  | 3.7  | -    | -    | -    | 50.9                              | 2.9                           | 18.3                    | 9.0  | 3.1  | -    | -    | -    |
|                        | 72      | 49.0                                 | 2.6                           | 29.1                    | 23.1 | 17.1 | 11.2 | -    | -    | 44.1                              | 2.8                           | 27.8                    | 22.0 | 16.1 | 10.3 | -    | -    |
|                        | 67      | 42.5                                 | 2.5                           | 42.5                    | 36.6 | 30.6 | 24.7 | 18.7 | -    | 37.3                              | 2.7                           | 37.3                    | 35.0 | 29.1 | 23.2 | 17.4 | -    |
|                        | 62      | 38.4                                 | 2.5                           | 38.4                    | 38.4 | 37.6 | 31.6 | 25.7 | 19.7 | 33.7                              | 2.8                           | 33.7                    | 33.7 | 32.5 | 26.6 | 20.8 | 14.9 |
|                        | 57      | 36.6                                 | 2.5                           | 36.6                    | 36.6 | 36.6 | 30.6 | 24.7 | 18.7 | 31.8                              | 2.7                           | 31.8                    | 31.8 | 31.8 | 26.5 | 20.6 | 14.8 |
| 3375                   | 72      | 49.2                                 | 2.6                           | 32.8                    | 26.0 | 19.2 | 12.5 | -    | -    | 43.8                              | 2.8                           | 31.8                    | 25.0 | 18.1 | 11.3 | -    | -    |
|                        | 67      | 42.7                                 | 2.5                           | 42.7                    | 39.7 | 34.4 | 27.6 | 20.9 | -    | 37.0                              | 2.7                           | 37.0                    | 37.0 | 32.8 | 25.9 | 19.1 | -    |
|                        | 62      | 38.6                                 | 2.5                           | 38.6                    | 38.6 | 38.2 | 31.4 | 24.6 | 17.9 | 33.4                              | 2.7                           | 33.4                    | 33.4 | 32.8 | 26.0 | 19.1 | 12.3 |
|                        | 57      | 36.7                                 | 2.5                           | 36.7                    | 36.7 | 36.7 | 30.0 | 23.2 | 16.5 | 31.5                              | 2.7                           | 31.5                    | 31.5 | 31.5 | 25.0 | 18.1 | 11.3 |
| 3750                   | 72      | 49.4                                 | 2.6                           | 36.5                    | 28.9 | 21.4 | 13.8 | -    | -    | 43.4                              | 2.8                           | 35.8                    | 28.0 | 20.2 | 12.4 | -    | -    |
|                        | 67      | 42.9                                 | 2.5                           | 42.9                    | 42.9 | 38.2 | 30.6 | 23.0 | -    | 36.6                              | 2.7                           | 36.6                    | 36.6 | 36.4 | 28.6 | 20.8 | -    |
|                        | 62      | 38.7                                 | 2.5                           | 38.7                    | 38.7 | 38.7 | 31.1 | 23.6 | 16.0 | 33.1                              | 2.7                           | 33.1                    | 33.1 | 33.1 | 25.3 | 17.5 | 9.7  |
|                        | 57      | 36.9                                 | 2.5                           | 36.9                    | 36.9 | 36.9 | 29.3 | 21.8 | 14.2 | 31.2                              | 2.7                           | 31.2                    | 31.2 | 31.2 | 23.4 | 15.6 | 7.8  |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZT102 (8.5 ton) reheater

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 45°F                    |      |      |      |      |      |
| 2125                   | 77      | 48.6                                 | 2.6                           | 28.6                    | 25.8 | 22.4 | -    | -    | -    | 51.5                              | 2.7                           | 28.4                    | 24.2 | 20.0 | -    | -    | -    |
|                        | 72      | 46.6                                 | 2.6                           | 34.8                    | 31.5 | 28.1 | 24.7 | -    | -    | 49.0                              | 2.7                           | 36.5                    | 32.3 | 28.1 | 23.9 | -    | -    |
|                        | 67      | 44.7                                 | 2.6                           | 41.1                    | 37.1 | 33.8 | 30.4 | 27.0 | -    | 46.5                              | 2.7                           | 44.7                    | 40.5 | 36.3 | 32.1 | 27.9 | -    |
|                        | 62      | 42.2                                 | 2.5                           | 42.2                    | 42.2 | 42.2 | 41.1 | 37.8 | 34.4 | 44.4                              | 2.6                           | 44.4                    | 44.4 | 42.7 | 38.5 | 34.3 | 30.1 |
| 2550                   | 77      | 51.2                                 | 2.6                           | 28.5                    | 26.9 | 23.4 | -    | -    | -    | 53.6                              | 2.7                           | 29.7                    | 25.3 | 21.0 | -    | -    | -    |
|                        | 72      | 49.1                                 | 2.6                           | 36.3                    | 32.8 | 29.3 | 25.8 | -    | -    | 51.0                              | 2.7                           | 38.3                    | 33.9 | 29.6 | 25.2 | -    | -    |
|                        | 67      | 47.1                                 | 2.6                           | 44.1                    | 38.7 | 35.2 | 31.7 | 28.2 | -    | 48.4                              | 2.7                           | 46.9                    | 42.5 | 38.1 | 33.8 | 29.4 | -    |
|                        | 62      | 44.5                                 | 2.5                           | 44.5                    | 44.5 | 44.5 | 43.0 | 39.5 | 36.1 | 46.2                              | 2.6                           | 46.2                    | 46.2 | 44.9 | 40.5 | 36.1 | 31.7 |
|                        | 57      | 42.8                                 | 2.5                           | 42.8                    | 42.8 | 42.2 | 38.7 | 35.3 | 31.8 | 44.5                              | 2.7                           | 44.5                    | 44.5 | 42.8 | 38.4 | 34.1 | 29.7 |
| 2975                   | 77      | 53.8                                 | 2.6                           | 28.4                    | 28.0 | 24.4 | -    | -    | -    | 55.8                              | 2.8                           | 31.1                    | 26.5 | 22.0 | -    | -    | -    |
|                        | 72      | 51.6                                 | 2.6                           | 37.7                    | 34.1 | 30.5 | 27.0 | -    | -    | 53.0                              | 2.7                           | 40.1                    | 35.5 | 31.0 | 26.4 | -    | -    |
|                        | 67      | 49.4                                 | 2.6                           | 47.0                    | 40.2 | 36.6 | 33.1 | 29.5 | -    | 50.3                              | 2.7                           | 49.1                    | 44.5 | 40.0 | 35.4 | 30.8 | -    |
|                        | 62      | 46.8                                 | 2.5                           | 46.8                    | 46.8 | 46.8 | 44.9 | 41.3 | 37.8 | 48.0                              | 2.7                           | 48.0                    | 48.0 | 47.0 | 42.4 | 37.9 | 33.3 |
|                        | 57      | 45.0                                 | 2.6                           | 45.0                    | 45.0 | 44.0 | 40.4 | 36.8 | 33.3 | 46.3                              | 2.7                           | 46.3                    | 46.3 | 44.9 | 40.3 | 35.7 | 31.2 |
| 3400                   | 77      | 56.4                                 | 2.6                           | 28.3                    | 29.1 | 25.4 | -    | -    | -    | 57.9                              | 2.8                           | 32.4                    | 27.7 | 23.0 | -    | -    | -    |
|                        | 72      | 54.1                                 | 2.6                           | 39.1                    | 35.4 | 31.8 | 28.1 | -    | -    | 55.0                              | 2.8                           | 41.9                    | 37.1 | 32.4 | 27.6 | -    | -    |
|                        | 67      | 51.8                                 | 2.6                           | 49.9                    | 41.8 | 38.1 | 34.4 | 30.8 | -    | 52.2                              | 2.7                           | 51.3                    | 46.5 | 41.8 | 37.0 | 32.3 | -    |
|                        | 62      | 49.0                                 | 2.6                           | 49.0                    | 49.0 | 49.0 | 46.8 | 43.1 | 39.5 | 49.8                              | 2.7                           | 49.8                    | 49.8 | 49.1 | 44.4 | 39.6 | 34.9 |
|                        | 57      | 47.1                                 | 2.6                           | 47.1                    | 47.1 | 45.8 | 42.1 | 38.4 | 34.8 | 48.1                              | 2.7                           | 48.1                    | 48.1 | 46.9 | 42.2 | 37.4 | 32.7 |
| 3825                   | 72      | 56.5                                 | 2.6                           | 40.0                    | 36.3 | 32.6 | 28.9 | -    | -    | 56.8                              | 2.8                           | 43.4                    | 38.5 | 33.6 | 28.8 | -    | -    |
|                        | 67      | 54.1                                 | 2.6                           | 52.6                    | 43.5 | 39.0 | 35.3 | 31.6 | -    | 53.9                              | 2.7                           | 53.2                    | 48.3 | 43.4 | 38.5 | 33.7 | -    |
|                        | 62      | 51.1                                 | 2.6                           | 51.1                    | 51.1 | 51.1 | 48.1 | 44.4 | 40.7 | 51.4                              | 2.7                           | 51.4                    | 51.4 | 51.1 | 46.2 | 41.3 | 36.4 |
|                        | 57      | 49.2                                 | 2.6                           | 49.2                    | 49.2 | 47.9 | 44.2 | 40.5 | 36.8 | 49.6                              | 2.7                           | 49.6                    | 49.6 | 48.7 | 43.9 | 39.0 | 34.1 |
| 4250                   | 72      | 58.8                                 | 2.6                           | 40.8                    | 37.1 | 33.3 | 29.6 | -    | -    | 58.6                              | 2.8                           | 45.0                    | 39.9 | 34.9 | 29.9 | -    | -    |
|                        | 67      | 56.3                                 | 2.6                           | 55.4                    | 45.3 | 39.8 | 36.1 | 32.4 | -    | 55.6                              | 2.7                           | 55.1                    | 50.1 | 45.1 | 40.1 | 35.0 | -    |
|                        | 62      | 53.3                                 | 2.6                           | 53.3                    | 53.3 | 53.2 | 49.5 | 45.7 | 42.0 | 53.0                              | 2.7                           | 53.0                    | 53.0 | 53.0 | 48.0 | 43.0 | 37.9 |
|                        | 57      | 51.2                                 | 2.6                           | 51.2                    | 51.2 | 50.1 | 46.4 | 42.6 | 38.9 | 51.1                              | 2.7                           | 51.1                    | 51.1 | 50.6 | 45.6 | 40.6 | 35.5 |
|                        |         | 55°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 65°F                    |      |      |      |      |      |
| 2125                   | 77      | 54.5                                 | 2.9                           | 28.2                    | 22.5 | 17.5 | -    | -    | -    | 52.1                              | 3.1                           | 30.2                    | 22.4 | 17.5 | -    | -    | -    |
|                        | 72      | 51.4                                 | 2.8                           | 38.2                    | 33.2 | 28.2 | 23.2 | -    | -    | 48.2                              | 3.0                           | 37.3                    | 32.3 | 27.3 | 22.4 | -    | -    |
|                        | 67      | 48.3                                 | 2.8                           | 48.3                    | 43.9 | 38.9 | 33.9 | 28.9 | -    | 44.4                              | 3.0                           | 44.4                    | 42.2 | 37.1 | 32.2 | 27.2 | -    |
|                        | 62      | 46.5                                 | 2.8                           | 46.5                    | 46.5 | 40.9 | 35.9 | 30.9 | 25.9 | 42.7                              | 3.0                           | 42.7                    | 42.7 | 38.3 | 33.4 | 28.4 | 23.4 |
| 2550                   | 77      | 56.1                                 | 2.9                           | 31.0                    | 23.8 | 18.5 | -    | -    | -    | 53.7                              | 3.1                           | 33.4                    | 24.5 | 18.6 | -    | -    | -    |
|                        | 72      | 52.9                                 | 2.8                           | 40.4                    | 35.1 | 29.8 | 24.5 | -    | -    | 49.7                              | 3.1                           | 39.6                    | 34.3 | 29.0 | 23.7 | -    | -    |
|                        | 67      | 49.7                                 | 2.8                           | 49.7                    | 46.4 | 41.1 | 35.8 | 30.5 | -    | 45.7                              | 3.0                           | 45.7                    | 44.1 | 39.4 | 34.1 | 28.7 | -    |
|                        | 62      | 47.9                                 | 2.8                           | 47.9                    | 47.9 | 43.2 | 37.9 | 32.6 | 27.4 | 44.1                              | 3.0                           | 44.1                    | 44.1 | 40.6 | 35.3 | 30.0 | 24.7 |
|                        | 57      | 46.3                                 | 2.8                           | 46.3                    | 46.3 | 43.4 | 38.1 | 32.9 | 27.6 | 42.4                              | 3.0                           | 42.4                    | 42.4 | 40.0 | 34.7 | 29.4 | 24.1 |
| 2975                   | 77      | 57.7                                 | 2.9                           | 33.8                    | 25.0 | 19.5 | -    | -    | -    | 55.3                              | 3.1                           | 36.7                    | 26.5 | 19.6 | -    | -    | -    |
|                        | 72      | 54.4                                 | 2.9                           | 42.5                    | 36.9 | 31.4 | 25.8 | -    | -    | 51.2                              | 3.1                           | 41.9                    | 36.2 | 30.6 | 24.9 | -    | -    |
|                        | 67      | 51.2                                 | 2.8                           | 51.2                    | 48.8 | 43.3 | 37.7 | 32.2 | -    | 47.1                              | 3.0                           | 47.1                    | 45.9 | 41.6 | 35.9 | 30.3 | -    |
|                        | 62      | 49.3                                 | 2.8                           | 49.3                    | 49.3 | 45.5 | 40.0 | 34.4 | 28.9 | 45.4                              | 3.0                           | 45.4                    | 45.4 | 42.9 | 37.3 | 31.6 | 25.9 |
|                        | 57      | 47.6                                 | 2.8                           | 47.6                    | 47.6 | 45.7 | 40.2 | 34.6 | 29.1 | 43.7                              | 3.0                           | 43.7                    | 43.7 | 42.3 | 36.6 | 31.0 | 25.3 |
| 3400                   | 77      | 59.3                                 | 2.9                           | 36.6                    | 26.3 | 20.5 | -    | -    | -    | 57.0                              | 3.1                           | 39.9                    | 28.6 | 20.7 | -    | -    | -    |
|                        | 72      | 56.0                                 | 2.9                           | 44.6                    | 38.8 | 33.0 | 27.2 | -    | -    | 52.7                              | 3.1                           | 44.2                    | 38.2 | 32.2 | 26.2 | -    | -    |
|                        | 67      | 52.6                                 | 2.8                           | 52.6                    | 51.3 | 45.5 | 39.6 | 33.8 | -    | 48.5                              | 3.0                           | 48.5                    | 47.8 | 43.8 | 37.8 | 31.8 | -    |
|                        | 62      | 50.6                                 | 2.8                           | 50.6                    | 50.6 | 47.8 | 42.0 | 36.2 | 30.3 | 46.8                              | 3.0                           | 46.8                    | 46.8 | 45.2 | 39.2 | 33.2 | 27.2 |
|                        | 57      | 49.0                                 | 2.8                           | 49.0                    | 49.0 | 48.0 | 42.2 | 36.4 | 30.6 | 45.0                              | 3.0                           | 45.0                    | 45.0 | 44.5 | 38.5 | 32.5 | 26.6 |
| 3825                   | 72      | 57.2                                 | 2.9                           | 46.8                    | 40.8 | 34.7 | 28.7 | -    | -    | 54.0                              | 3.1                           | 46.5                    | 40.2 | 34.0 | 27.7 | -    | -    |
|                        | 67      | 53.7                                 | 2.8                           | 53.7                    | 53.1 | 47.9 | 41.8 | 35.8 | -    | 49.7                              | 3.0                           | 49.7                    | 49.3 | 46.2 | 39.9 | 33.6 | -    |
|                        | 62      | 51.7                                 | 2.8                           | 51.7                    | 51.7 | 50.3 | 44.2 | 38.2 | 32.1 | 47.9                              | 3.0                           | 47.9                    | 47.9 | 47.1 | 40.8 | 34.6 | 28.3 |
|                        | 57      | 50.0                                 | 2.8                           | 50.0                    | 50.0 | 49.6 | 43.5 | 37.4 | 31.4 | 46.1                              | 3.0                           | 46.1                    | 46.1 | 45.8 | 39.6 | 33.3 | 27.0 |
| 4250                   | 72      | 58.4                                 | 2.9                           | 49.1                    | 42.8 | 36.5 | 30.2 | -    | -    | 55.3                              | 3.1                           | 48.8                    | 42.3 | 35.7 | 29.2 | -    | -    |
|                        | 67      | 54.9                                 | 2.8                           | 54.9                    | 54.9 | 50.3 | 44.0 | 37.7 | -    | 50.8                              | 3.1                           | 50.8                    | 50.8 | 48.6 | 42.0 | 35.5 | -    |
|                        | 62      | 52.8                                 | 2.8                           | 52.8                    | 52.8 | 52.8 | 46.5 | 40.2 | 33.9 | 49.0                              | 3.0                           | 49.0                    | 49.0 | 49.0 | 42.5 | 35.9 | 29.4 |
|                        | 57      | 51.1                                 | 2.8                           | 51.1                    | 51.1 | 51.1 | 44.8 | 38.5 | 32.2 | 47.1                              | 3.0                           | 47.1                    | 47.1 | 47.1 | 40.6 | 34.1 | 27.5 |

**ZT102 (8.5 ton) reheater (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 2125                   | 77      | 49.7                                 | 3.3                           | 32.2                    | 22.4 | 17.5 | -    | -    | -    | 47.3                              | 3.5                           | 34.3                    | 24.5 | 17.4 | -    | -    | -    |
|                        | 72      | 45.0                                 | 3.3                           | 36.3                    | 31.4 | 26.5 | 21.5 | -    | -    | 41.9                              | 3.5                           | 35.4                    | 30.5 | 25.6 | 20.7 | -    | -    |
|                        | 67      | 40.4                                 | 3.2                           | 40.4                    | 40.4 | 35.4 | 30.5 | 25.5 | -    | 36.5                              | 3.5                           | 36.5                    | 36.5 | 33.7 | 28.8 | 23.9 | -    |
|                        | 62      | 39.0                                 | 3.2                           | 39.0                    | 39.0 | 35.8 | 30.8 | 25.9 | 21.0 | 35.3                              | 3.4                           | 35.3                    | 35.3 | 33.2 | 28.3 | 23.4 | 18.5 |
| 2550                   | 77      | 51.3                                 | 3.3                           | 35.9                    | 25.2 | 18.6 | -    | -    | -    | 48.9                              | 3.5                           | 38.4                    | 27.6 | 18.7 | -    | -    | -    |
|                        | 72      | 46.5                                 | 3.3                           | 38.8                    | 33.5 | 28.1 | 22.8 | -    | -    | 43.3                              | 3.5                           | 38.0                    | 32.7 | 27.3 | 21.9 | -    | -    |
|                        | 67      | 41.7                                 | 3.2                           | 41.7                    | 41.7 | 37.6 | 32.3 | 27.0 | -    | 37.7                              | 3.5                           | 37.7                    | 37.7 | 35.9 | 30.6 | 25.2 | -    |
|                        | 62      | 40.3                                 | 3.2                           | 40.3                    | 40.3 | 38.0 | 32.7 | 27.4 | 22.0 | 36.5                              | 3.4                           | 36.5                    | 36.5 | 35.5 | 30.1 | 24.7 | 19.3 |
|                        | 57      | 38.6                                 | 3.2                           | 38.6                    | 38.6 | 36.6 | 31.3 | 26.0 | 20.6 | 34.7                              | 3.4                           | 34.7                    | 34.7 | 33.3 | 27.9 | 22.5 | 17.1 |
| 2975                   | 77      | 53.0                                 | 3.3                           | 39.6                    | 28.1 | 19.7 | -    | -    | -    | 50.6                              | 3.5                           | 42.4                    | 30.7 | 19.9 | -    | -    | -    |
|                        | 72      | 48.0                                 | 3.3                           | 41.3                    | 35.6 | 29.8 | 24.1 | -    | -    | 44.8                              | 3.5                           | 40.7                    | 34.9 | 29.0 | 23.2 | -    | -    |
|                        | 67      | 43.1                                 | 3.2                           | 43.1                    | 43.1 | 39.9 | 34.1 | 28.4 | -    | 39.0                              | 3.5                           | 39.0                    | 39.0 | 38.2 | 32.3 | 26.5 | -    |
|                        | 62      | 41.6                                 | 3.2                           | 41.6                    | 41.6 | 40.3 | 34.6 | 28.8 | 23.0 | 37.8                              | 3.4                           | 37.8                    | 37.8 | 37.7 | 31.9 | 26.0 | 20.1 |
|                        | 57      | 39.8                                 | 3.2                           | 39.8                    | 39.8 | 38.8 | 33.1 | 27.3 | 21.6 | 35.9                              | 3.4                           | 35.9                    | 35.9 | 35.4 | 29.5 | 23.7 | 17.8 |
| 3400                   | 77      | 54.6                                 | 3.3                           | 43.2                    | 30.9 | 20.8 | -    | -    | -    | 52.2                              | 3.5                           | 46.5                    | 33.9 | 21.2 | -    | -    | -    |
|                        | 72      | 49.5                                 | 3.3                           | 43.8                    | 37.6 | 31.5 | 25.3 | -    | -    | 46.3                              | 3.5                           | 43.4                    | 37.1 | 30.7 | 24.4 | -    | -    |
|                        | 67      | 44.4                                 | 3.2                           | 44.4                    | 44.4 | 42.1 | 36.0 | 29.8 | -    | 40.3                              | 3.5                           | 40.3                    | 40.3 | 40.3 | 34.1 | 27.8 | -    |
|                        | 62      | 42.9                                 | 3.2                           | 42.9                    | 42.9 | 42.6 | 36.4 | 30.2 | 24.1 | 39.0                              | 3.4                           | 39.0                    | 39.0 | 39.0 | 33.6 | 27.3 | 20.9 |
|                        | 57      | 41.0                                 | 3.2                           | 41.0                    | 41.0 | 41.0 | 34.8 | 28.7 | 22.5 | 37.0                              | 3.4                           | 37.0                    | 37.0 | 37.0 | 31.2 | 24.8 | 18.5 |
| 3825                   | 72      | 50.8                                 | 3.3                           | 46.2                    | 39.7 | 33.2 | 26.8 | -    | -    | 47.7                              | 3.5                           | 45.8                    | 39.2 | 32.5 | 25.8 | -    | -    |
|                        | 67      | 45.6                                 | 3.3                           | 45.6                    | 45.6 | 44.5 | 38.0 | 31.5 | -    | 41.5                              | 3.5                           | 41.5                    | 41.5 | 41.5 | 36.1 | 29.4 | -    |
|                        | 62      | 44.0                                 | 3.2                           | 44.0                    | 44.0 | 43.9 | 37.4 | 30.9 | 24.5 | 40.2                              | 3.4                           | 40.2                    | 40.2 | 40.2 | 34.0 | 27.3 | 20.6 |
|                        | 57      | 42.1                                 | 3.2                           | 42.1                    | 42.1 | 42.1 | 35.7 | 29.2 | 22.7 | 38.2                              | 3.4                           | 38.2                    | 38.2 | 38.2 | 31.7 | 25.0 | 18.4 |
| 4250                   | 72      | 52.2                                 | 3.3                           | 48.5                    | 41.7 | 35.0 | 28.2 | -    | -    | 49.1                              | 3.5                           | 48.2                    | 41.2 | 34.2 | 27.2 | -    | -    |
|                        | 67      | 46.8                                 | 3.3                           | 46.8                    | 46.8 | 46.8 | 40.0 | 33.2 | -    | 42.8                              | 3.5                           | 42.8                    | 42.8 | 42.8 | 38.0 | 31.0 | -    |
|                        | 62      | 45.2                                 | 3.2                           | 45.2                    | 45.2 | 45.2 | 38.4 | 31.6 | 24.9 | 41.4                              | 3.4                           | 41.4                    | 41.4 | 41.4 | 34.4 | 27.3 | 20.3 |
|                        | 57      | 43.2                                 | 3.2                           | 43.2                    | 43.2 | 43.2 | 36.5 | 29.7 | 22.9 | 39.3                              | 3.4                           | 39.3                    | 39.3 | 39.3 | 32.3 | 25.3 | 18.3 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



## ZT120 (10 ton) reheat

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      | 45°F                              |                               |                         |      |      |      |      |      |
| 2500                   | 77      | 72.5                                 | 3.4                           | 14.4                    | 10.7 | 7.0  | -    | -    | -    | 69.4                              | 3.6                           | 6.5                     | 3.2  | -    | -    | -    | -    |
|                        | 72      | 66.9                                 | 3.1                           | 25.4                    | 21.7 | 18.1 | 14.4 | -    | -    | 64.1                              | 3.4                           | 18.9                    | 15.6 | 12.4 | 9.1  | -    | -    |
|                        | 67      | 61.4                                 | 2.9                           | 36.4                    | 32.8 | 29.1 | 25.4 | 21.7 | -    | 58.7                              | 3.1                           | 31.3                    | 28.0 | 24.8 | 21.5 | 18.3 | -    |
|                        | 62      | 55.2                                 | 2.7                           | 44.0                    | 37.7 | 35.1 | 31.4 | 27.7 | 24.1 | 53.2                              | 3.0                           | 42.4                    | 36.4 | 33.2 | 29.9 | 26.7 | 23.4 |
| 3000                   | 77      | 76.4                                 | 3.4                           | 17.2                    | 13.0 | 8.7  | -    | -    | -    | 72.7                              | 3.6                           | 8.0                     | 4.0  | 0.0  | -    | -    | -    |
|                        | 72      | 70.5                                 | 3.2                           | 30.4                    | 26.2 | 21.9 | 17.6 | -    | -    | 67.1                              | 3.4                           | 23.1                    | 19.1 | 15.1 | 11.1 | -    | -    |
|                        | 67      | 64.6                                 | 2.9                           | 43.6                    | 39.3 | 35.1 | 30.8 | 26.5 | -    | 61.5                              | 3.1                           | 38.3                    | 34.3 | 30.2 | 26.2 | 22.2 | -    |
|                        | 62      | 58.2                                 | 2.8                           | 50.7                    | 46.4 | 42.2 | 37.9 | 33.6 | 29.4 | 55.7                              | 3.0                           | 48.5                    | 44.5 | 40.5 | 36.4 | 32.4 | 28.4 |
| 3500                   | 57      | 56.2                                 | 2.8                           | 52.1                    | 47.8 | 43.6 | 39.3 | 35.1 | 30.8 | 53.6                              | 3.0                           | 49.2                    | 45.2 | 41.2 | 37.1 | 33.1 | 29.1 |
|                        | 77      | 80.2                                 | 3.5                           | 20.1                    | 15.3 | 10.4 | -    | -    | -    | 76.0                              | 3.6                           | 9.5                     | 4.7  | -    | -    | -    | -    |
|                        | 72      | 74.1                                 | 3.2                           | 35.4                    | 30.6 | 25.7 | 20.9 | -    | -    | 70.1                              | 3.4                           | 27.4                    | 22.6 | 17.8 | 13.0 | -    | -    |
|                        | 67      | 67.9                                 | 3.0                           | 50.8                    | 45.9 | 41.1 | 36.2 | 31.4 | -    | 64.2                              | 3.1                           | 45.3                    | 40.5 | 35.7 | 30.9 | 26.1 | -    |
| 4000                   | 62      | 61.1                                 | 2.8                           | 57.4                    | 55.2 | 49.2 | 44.4 | 39.5 | 34.7 | 58.2                              | 3.0                           | 54.6                    | 52.5 | 47.7 | 43.0 | 38.2 | 33.4 |
|                        | 57      | 59.0                                 | 2.8                           | 57.0                    | 54.8 | 50.9 | 46.1 | 41.2 | 36.4 | 56.0                              | 3.0                           | 53.8                    | 51.8 | 48.6 | 43.8 | 39.0 | 34.2 |
|                        | 77      | 84.1                                 | 3.6                           | 23.0                    | 17.5 | 12.1 | -    | -    | -    | 79.2                              | 3.6                           | 11.1                    | 5.5  | -    | -    | -    | -    |
|                        | 72      | 77.6                                 | 3.3                           | 40.4                    | 35.0 | 29.6 | 24.1 | -    | -    | 73.1                              | 3.4                           | 31.7                    | 26.1 | 20.5 | 15.0 | -    | -    |
| 4500                   | 67      | 71.2                                 | 3.0                           | 57.9                    | 52.5 | 47.0 | 41.6 | 36.2 | -    | 67.0                              | 3.1                           | 52.2                    | 46.7 | 41.1 | 35.6 | 30.0 | -    |
|                        | 62      | 64.1                                 | 2.8                           | 64.1                    | 63.9 | 56.3 | 50.9 | 45.5 | 40.0 | 60.7                              | 3.0                           | 60.7                    | 60.6 | 55.0 | 49.5 | 43.9 | 38.4 |
|                        | 57      | 61.9                                 | 2.8                           | 61.9                    | 61.9 | 58.3 | 52.8 | 47.4 | 42.0 | 58.4                              | 3.0                           | 58.4                    | 58.4 | 56.0 | 50.4 | 44.9 | 39.3 |
|                        | 72      | 80.3                                 | 3.3                           | 42.9                    | 37.3 | 31.8 | 26.2 | -    | -    | 75.2                              | 3.4                           | 34.2                    | 28.2 | 22.3 | 16.4 | -    | -    |
| 5000                   | 67      | 73.7                                 | 3.1                           | 61.1                    | 55.5 | 50.0 | 44.4 | 38.8 | -    | 68.9                              | 3.2                           | 56.5                    | 50.6 | 44.7 | 38.8 | 32.9 | -    |
|                        | 62      | 66.3                                 | 2.9                           | 66.3                    | 66.2 | 62.4 | 56.8 | 51.3 | 45.7 | 62.4                              | 3.0                           | 62.4                    | 62.4 | 59.6 | 53.7 | 47.8 | 41.8 |
|                        | 57      | 64.0                                 | 2.9                           | 64.0                    | 64.0 | 62.2 | 56.6 | 51.0 | 45.4 | 60.1                              | 3.0                           | 60.1                    | 60.1 | 58.9 | 53.0 | 47.0 | 41.1 |
|                        | 72      | 83.0                                 | 3.4                           | 45.4                    | 39.7 | 34.0 | 28.2 | -    | -    | 77.3                              | 3.4                           | 36.7                    | 30.4 | 24.1 | 17.9 | -    | -    |
| 5500                   | 67      | 76.1                                 | 3.1                           | 64.3                    | 58.6 | 52.9 | 47.2 | 41.4 | -    | 70.8                              | 3.2                           | 60.8                    | 54.6 | 48.3 | 42.0 | 35.8 | -    |
|                        | 62      | 68.5                                 | 2.9                           | 68.5                    | 68.5 | 68.5 | 62.8 | 57.1 | 51.3 | 64.1                              | 3.0                           | 64.1                    | 64.1 | 64.1 | 57.9 | 51.6 | 45.3 |
|                        | 57      | 66.1                                 | 2.9                           | 66.1                    | 66.1 | 66.1 | 60.4 | 54.7 | 48.9 | 61.7                              | 3.0                           | 61.7                    | 61.7 | 61.7 | 55.5 | 49.2 | 42.9 |
|                        |         |                                      | 55°F                          |                         |      |      |      |      |      |                                   | 65°F                          |                         |      |      |      |      |      |
| 2500                   | 77      | 66.3                                 | 3.8                           | -                       | -    | -    | -    | -    | -    | 63.5                              | 4.0                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 61.2                                 | 3.6                           | 12.4                    | 9.5  | 6.7  | 3.9  | -    | -    | 57.5                              | 3.8                           | 9.5                     | 7.0  | 4.5  | 2.1  | -    | -    |
|                        | 67      | 56.0                                 | 3.3                           | 26.2                    | 23.3 | 20.5 | 17.7 | 14.8 | -    | 51.6                              | 3.6                           | 22.5                    | 20.0 | 17.5 | 15.1 | 12.6 | -    |
|                        | 62      | 51.1                                 | 3.3                           | 40.8                    | 35.1 | 31.3 | 28.4 | 25.6 | 22.7 | 47.1                              | 3.5                           | 36.4                    | 31.2 | 27.0 | 24.5 | 22.1 | 19.6 |
| 3000                   | 77      | 69.0                                 | 3.8                           | -                       | -    | -    | -    | -    | -    | 65.5                              | 4.0                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 63.6                                 | 3.5                           | 15.9                    | 12.1 | 8.3  | 4.5  | -    | -    | 59.4                              | 3.8                           | 12.6                    | 9.2  | 5.8  | 2.3  | -    | -    |
|                        | 67      | 58.3                                 | 3.3                           | 33.0                    | 29.2 | 25.4 | 21.6 | 17.8 | -    | 53.3                              | 3.6                           | 29.4                    | 25.9 | 22.5 | 19.1 | 15.7 | -    |
|                        | 62      | 53.2                                 | 3.2                           | 46.3                    | 42.5 | 38.7 | 35.0 | 31.2 | 27.4 | 48.7                              | 3.5                           | 41.5                    | 38.1 | 34.6 | 31.2 | 27.8 | 24.4 |
| 3500                   | 57      | 51.0                                 | 3.2                           | 46.3                    | 42.5 | 38.7 | 35.0 | 31.2 | 27.4 | 46.1                              | 3.5                           | 40.5                    | 37.1 | 33.6 | 30.2 | 26.8 | 23.3 |
|                        | 77      | 71.7                                 | 3.7                           | -                       | -    | -    | -    | -    | -    | 67.6                              | 3.9                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 66.1                                 | 3.5                           | 19.4                    | 14.6 | 9.9  | 5.2  | -    | -    | 61.3                              | 3.7                           | 15.8                    | 11.4 | 7.0  | 2.6  | -    | -    |
|                        | 67      | 60.5                                 | 3.3                           | 39.8                    | 35.0 | 30.3 | 25.6 | 20.9 | -    | 54.9                              | 3.5                           | 36.3                    | 31.9 | 27.5 | 23.1 | 18.7 | -    |
| 4000                   | 62      | 55.2                                 | 3.2                           | 51.8                    | 49.9 | 46.2 | 41.5 | 36.8 | 32.1 | 50.2                              | 3.4                           | 46.6                    | 44.9 | 42.3 | 37.9 | 33.5 | 29.1 |
|                        | 57      | 53.0                                 | 3.2                           | 50.6                    | 48.7 | 46.2 | 41.5 | 36.8 | 32.1 | 47.5                              | 3.4                           | 44.7                    | 43.0 | 41.0 | 36.6 | 32.2 | 27.8 |
|                        | 77      | 74.4                                 | 3.7                           | -                       | -    | -    | -    | -    | -    | 69.7                              | 3.9                           | -5.3                    | -    | -    | -    | -    | -    |
|                        | 72      | 68.6                                 | 3.5                           | 22.9                    | 17.2 | 11.5 | 5.9  | -    | -    | 63.2                              | 3.7                           | 18.9                    | 13.6 | 8.2  | 2.8  | -    | -    |
| 4500                   | 67      | 62.8                                 | 3.2                           | 46.6                    | 40.9 | 35.2 | 29.6 | 23.9 | -    | 56.6                              | 3.5                           | 43.2                    | 37.8 | 32.5 | 27.1 | 21.7 | -    |
|                        | 62      | 57.3                                 | 3.1                           | 57.3                    | 57.3 | 53.7 | 48.1 | 42.4 | 36.7 | 51.8                              | 3.4                           | 51.8                    | 51.8 | 50.0 | 44.6 | 39.2 | 33.8 |
|                        | 57      | 54.9                                 | 3.1                           | 54.9                    | 54.9 | 53.7 | 48.1 | 42.4 | 36.7 | 49.0                              | 3.4                           | 49.0                    | 49.0 | 48.4 | 43.0 | 37.7 | 32.3 |
|                        | 72      | 70.1                                 | 3.5                           | 25.4                    | 19.2 | 12.9 | 6.7  | -    | -    | 64.6                              | 3.7                           | 21.3                    | 15.3 | 9.3  | -    | -    | -    |
| 5000                   | 67      | 64.2                                 | 3.2                           | 52.0                    | 45.7 | 39.5 | 33.2 | 27.0 | -    | 57.9                              | 3.5                           | 49.0                    | 43.0 | 37.0 | 30.9 | 24.9 | -    |
|                        | 62      | 58.5                                 | 3.1                           | 58.5                    | 58.5 | 56.8 | 50.5 | 44.3 | 38.0 | 53.0                              | 3.4                           | 53.0                    | 53.0 | 52.0 | 46.0 | 40.0 | 34.0 |
|                        | 57      | 56.1                                 | 3.1                           | 56.1                    | 56.1 | 55.5 | 49.3 | 43.0 | 36.8 | 50.1                              | 3.4                           | 50.1                    | 50.1 | 49.8 | 43.8 | 37.8 | 31.7 |
|                        | 72      | 71.6                                 | 3.5                           | 27.9                    | 21.1 | 14.3 | 7.5  | -    | -    | 66.0                              | 3.7                           | 23.7                    | 17.0 | 10.4 | -    | -    | -    |
| 5500                   | 67      | 65.5                                 | 3.2                           | 57.4                    | 50.5 | 43.7 | 36.9 | 30.1 | -    | 59.2                              | 3.5                           | 54.8                    | 48.2 | 41.5 | 34.8 | 28.1 | -    |
|                        | 62      | 59.8                                 | 3.1                           | 59.8                    | 59.8 | 59.8 | 53.0 | 46.1 | 39.3 | 54.1                              | 3.4                           | 54.1                    | 54.1 | 54.1 | 47.4 | 40.8 | 34.1 |
|                        | 57      | 57.3                                 | 3.1                           | 57.3                    | 57.3 | 57.3 | 50.5 | 43.7 | 36.9 | 51.3                              | 3.4                           | 51.3                    | 51.3 | 51.3 | 44.6 | 37.9 | 31.2 |

**ZT120 (10 ton) reheat (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |      |      |      |                                   |                               |                         |      |      |      |      |    |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|----|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |    |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |    |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65 |
|                        |         | 75°F                                 |                               |                         |       |       |      |      |      |                                   |                               | 85°F                    |      |      |      |      |    |
| 2500                   | 77      | 60.6                                 | 4.3                           | -                       | -     | -     | -    | -    | -    | 57.8                              | 4.5                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 53.9                                 | 4.1                           | 6.5                     | 4.5   | 2.4   | 0.3  | -    | -    | 50.2                              | 4.3                           | 3.6                     | 1.9  | 0.2  | -    | -    |    |
|                        | 67      | 47.1                                 | 3.9                           | 18.8                    | 16.7  | 14.6  | 12.5 | 10.5 | -    | 42.7                              | 4.2                           | 15.1                    | 13.4 | 11.7 | 10.0 | 8.3  |    |
|                        | 62      | 43.2                                 | 3.8                           | 31.9                    | 27.3  | 22.7  | 20.6 | 18.6 | 16.5 | 39.2                              | 4.1                           | 27.4                    | 23.4 | 18.5 | 16.8 | 15.1 |    |
| 3000                   | 77      | 62.1                                 | 4.2                           | -7.1                    | -10.1 | -13.2 | -    | -    | -    | 58.6                              | 4.4                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 55.1                                 | 4.0                           | 9.4                     | 6.3   | 3.2   | 0.1  | -    | -    | 50.9                              | 4.3                           | 6.1                     | 3.4  | 0.7  | -2.1 | -    |    |
|                        | 67      | 48.2                                 | 3.8                           | 25.8                    | 22.7  | 19.6  | 16.6 | 13.5 | -    | 43.2                              | 4.1                           | 22.2                    | 19.5 | 16.7 | 14.0 | 11.3 |    |
|                        | 62      | 44.2                                 | 3.8                           | 36.7                    | 33.6  | 30.5  | 27.5 | 24.4 | 21.3 | 39.7                              | 4.0                           | 31.9                    | 29.1 | 26.4 | 23.7 | 21.0 |    |
| 3500                   | 77      | 63.5                                 | 4.2                           | -                       | -     | -     | -    | -    | -    | 59.4                              | 4.4                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 56.4                                 | 4.0                           | 12.2                    | 8.1   | 4.0   | 0.0  | -    | -    | 51.6                              | 4.2                           | 8.6                     | 4.8  | 1.1  | -    | -    |    |
|                        | 67      | 49.4                                 | 3.8                           | 32.8                    | 28.7  | 24.7  | 20.6 | 16.5 | -    | 43.8                              | 4.1                           | 29.3                    | 25.6 | 21.8 | 18.1 | 14.3 |    |
|                        | 62      | 45.2                                 | 3.7                           | 41.5                    | 39.9  | 38.3  | 34.3 | 30.2 | 26.1 | 40.2                              | 4.0                           | 36.3                    | 34.9 | 34.4 | 30.7 | 26.9 |    |
| 4000                   | 77      | 64.9                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 60.2                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 57.7                                 | 3.9                           | 15.0                    | 9.9   | 4.8   | -0.2 | -    | -    | 52.2                              | 4.2                           | 11.1                    | 6.3  | 1.5  | -    | -    |    |
|                        | 67      | 50.5                                 | 3.7                           | 39.8                    | 34.7  | 29.7  | 24.6 | 19.5 | -    | 44.3                              | 4.0                           | 36.4                    | 31.7 | 26.9 | 22.1 | 17.4 |    |
|                        | 62      | 46.3                                 | 3.7                           | 46.3                    | 46.3  | 46.2  | 41.1 | 36.0 | 30.9 | 40.7                              | 3.9                           | 40.7                    | 40.7 | 40.7 | 37.6 | 32.8 |    |
| 4500                   | 77      | 66.3                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 61.8                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 59.1                                 | 3.9                           | 17.3                    | 11.4  | 5.6   | -    | -    | -    | 53.6                              | 4.1                           | 13.2                    | 7.6  | 2.0  | -    | -    |    |
|                        | 67      | 51.7                                 | 3.7                           | 46.1                    | 40.3  | 34.4  | 28.6 | 22.8 | -    | 45.5                              | 4.0                           | 43.1                    | 37.5 | 31.9 | 26.3 | 20.7 |    |
|                        | 62      | 47.4                                 | 3.7                           | 47.4                    | 47.4  | 47.3  | 41.5 | 35.7 | 29.9 | 41.8                              | 3.9                           | 41.8                    | 41.8 | 41.8 | 37.0 | 31.4 |    |
| 5000                   | 77      | 67.9                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 63.4                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 60.5                                 | 3.9                           | 19.5                    | 13.0  | 6.4   | -    | -    | -    | 55.0                              | 4.1                           | 15.3                    | 8.9  | 2.5  | -    | -    |    |
|                        | 67      | 52.9                                 | 3.7                           | 52.3                    | 45.8  | 39.2  | 32.7 | 26.1 | -    | 46.6                              | 4.0                           | 46.6                    | 43.4 | 37.0 | 30.5 | 24.1 |    |
|                        | 62      | 48.5                                 | 3.6                           | 48.5                    | 48.5  | 48.5  | 41.9 | 35.4 | 28.8 | 42.9                              | 3.9                           | 42.9                    | 42.9 | 42.9 | 36.4 | 30.0 |    |
| 5500                   | 77      | 69.5                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 65.0                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 62.1                                 | 3.9                           | 21.1                    | 14.6  | 7.9   | -    | -    | -    | 56.6                              | 4.1                           | 16.9                    | 10.4 | 3.1  | -    | -    |    |
|                        | 67      | 54.5                                 | 3.7                           | 54.5                    | 48.0  | 41.4  | 34.9 | 28.3 | -    | 48.1                              | 4.0                           | 48.1                    | 44.9 | 38.5 | 31.9 | 25.3 |    |
|                        | 62      | 50.2                                 | 3.6                           | 50.2                    | 50.2  | 50.2  | 43.7 | 37.1 | 30.5 | 44.6                              | 3.9                           | 44.6                    | 44.6 | 44.6 | 39.1 | 32.5 |    |
| 6000                   | 77      | 70.9                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 66.4                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 63.5                                 | 3.9                           | 23.7                    | 17.2  | 10.5  | -    | -    | -    | 58.0                              | 4.1                           | 18.5                    | 12.0 | 4.5  | -    | -    |    |
|                        | 67      | 56.1                                 | 3.7                           | 56.1                    | 50.6  | 44.0  | 37.5 | 30.9 | -    | 50.6                              | 4.0                           | 50.6                    | 47.4 | 41.0 | 34.4 | 27.8 |    |
|                        | 62      | 51.8                                 | 3.6                           | 51.8                    | 51.8  | 51.8  | 45.3 | 38.7 | 32.1 | 46.1                              | 3.9                           | 46.1                    | 46.1 | 46.1 | 40.6 | 34.0 |    |
| 6500                   | 77      | 72.5                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 67.8                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 65.1                                 | 3.9                           | 25.9                    | 19.4  | 12.7  | -    | -    | -    | 59.4                              | 4.1                           | 19.7                    | 13.2 | 5.1  | -    | -    |    |
|                        | 67      | 57.7                                 | 3.7                           | 57.7                    | 52.2  | 45.6  | 39.1 | 32.5 | -    | 52.2                              | 4.0                           | 52.2                    | 49.0 | 42.6 | 36.0 | 29.4 |    |
|                        | 62      | 53.4                                 | 3.6                           | 53.4                    | 53.4  | 53.4  | 46.9 | 40.3 | 33.7 | 47.7                              | 3.9                           | 47.7                    | 47.7 | 47.7 | 42.2 | 35.6 |    |
| 7000                   | 77      | 74.1                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 69.4                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 66.7                                 | 3.9                           | 27.3                    | 20.8  | 14.1  | -    | -    | -    | 61.0                              | 4.1                           | 20.9                    | 14.4 | 5.9  | -    | -    |    |
|                        | 67      | 59.3                                 | 3.7                           | 59.3                    | 53.8  | 47.2  | 40.7 | 34.1 | -    | 54.8                              | 4.0                           | 54.8                    | 51.6 | 45.2 | 38.6 | 32.0 |    |
|                        | 62      | 55.0                                 | 3.6                           | 55.0                    | 55.0  | 55.0  | 48.5 | 41.9 | 35.3 | 50.3                              | 3.9                           | 50.3                    | 50.3 | 50.3 | 44.8 | 38.2 |    |
| 7500                   | 77      | 75.7                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 70.0                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 68.3                                 | 3.9                           | 29.5                    | 23.0  | 16.3  | -    | -    | -    | 61.6                              | 4.1                           | 21.9                    | 15.4 | 6.3  | -    | -    |    |
|                        | 67      | 60.9                                 | 3.7                           | 60.9                    | 55.4  | 48.8  | 42.3 | 35.7 | -    | 55.4                              | 4.0                           | 55.4                    | 52.2 | 45.8 | 39.2 | 32.6 |    |
|                        | 62      | 56.6                                 | 3.6                           | 56.6                    | 56.6  | 56.6  | 50.1 | 43.5 | 36.9 | 51.9                              | 3.9                           | 51.9                    | 51.9 | 51.9 | 46.4 | 39.8 |    |
| 8000                   | 77      | 77.3                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 71.6                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 69.9                                 | 3.9                           | 31.7                    | 25.2  | 18.5  | -    | -    | -    | 63.2                              | 4.1                           | 22.9                    | 16.4 | 6.7  | -    | -    |    |
|                        | 67      | 62.5                                 | 3.7                           | 62.5                    | 57.0  | 50.4  | 43.9 | 37.3 | -    | 57.0                              | 4.0                           | 57.0                    | 53.8 | 47.4 | 40.8 | 34.2 |    |
|                        | 62      | 58.2                                 | 3.6                           | 58.2                    | 58.2  | 58.2  | 51.7 | 45.1 | 38.5 | 53.5                              | 3.9                           | 53.5                    | 53.5 | 53.5 | 48.0 | 41.4 |    |
| 8500                   | 77      | 78.9                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 73.2                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 71.5                                 | 3.9                           | 33.9                    | 27.4  | 20.7  | -    | -    | -    | 64.8                              | 4.1                           | 23.9                    | 17.4 | 6.9  | -    | -    |    |
|                        | 67      | 64.1                                 | 3.7                           | 64.1                    | 58.6  | 52.0  | 45.5 | 38.9 | -    | 58.6                              | 4.0                           | 58.6                    | 55.4 | 49.0 | 42.4 | 35.8 |    |
|                        | 62      | 59.8                                 | 3.6                           | 59.8                    | 59.8  | 59.8  | 53.3 | 46.7 | 40.1 | 54.7                              | 3.9                           | 54.7                    | 54.7 | 54.7 | 49.2 | 42.6 |    |
| 9000                   | 77      | 80.5                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 74.8                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 73.1                                 | 3.9                           | 35.3                    | 28.8  | 22.1  | -    | -    | -    | 66.4                              | 4.1                           | 24.9                    | 18.4 | 7.1  | -    | -    |    |
|                        | 67      | 65.7                                 | 3.7                           | 65.7                    | 60.2  | 53.6  | 47.1 | 40.5 | -    | 60.2                              | 4.0                           | 60.2                    | 57.0 | 50.6 | 44.0 | 37.4 |    |
|                        | 62      | 61.4                                 | 3.6                           | 61.4                    | 61.4  | 61.4  | 54.9 | 48.3 | 41.7 | 56.7                              | 3.9                           | 56.7                    | 56.7 | 56.7 | 51.2 | 44.6 |    |
| 9500                   | 77      | 82.1                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 76.4                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 74.7                                 | 3.9                           | 36.7                    | 30.2  | 23.5  | -    | -    | -    | 68.0                              | 4.1                           | 25.9                    | 19.4 | 7.3  | -    | -    |    |
|                        | 67      | 67.3                                 | 3.7                           | 67.3                    | 61.8  | 55.2  | 48.7 | 42.1 | -    | 61.8                              | 4.0                           | 61.8                    | 58.6 | 52.2 | 45.6 | 39.0 |    |
|                        | 62      | 63.0                                 | 3.6                           | 63.0                    | 63.0  | 63.0  | 56.5 | 49.9 | 43.3 | 58.3                              | 3.9                           | 58.3                    | 58.3 | 58.3 | 52.8 | 46.2 |    |
| 10000                  | 77      | 83.7                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 78.0                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 76.3                                 | 3.9                           | 38.1                    | 31.6  | 24.9  | -    | -    | -    | 69.6                              | 4.1                           | 26.9                    | 20.4 | 7.5  | -    | -    |    |
|                        | 67      | 68.9                                 | 3.7                           | 68.9                    | 63.4  | 56.8  | 50.3 | 43.7 | -    | 63.4                              | 4.0                           | 63.4                    | 60.2 | 53.8 | 47.2 | 40.6 |    |
|                        | 62      | 64.6                                 | 3.6                           | 64.6                    | 64.6  | 64.6  | 58.1 | 51.5 | 44.9 | 59.7                              | 3.9                           | 59.7                    | 59.7 | 59.7 | 54.2 | 47.6 |    |
| 10500                  | 77      | 85.3                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 79.6                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 77.9                                 | 3.9                           | 39.3                    | 32.8  | 26.1  | -    | -    | -    | 71.2                              | 4.1                           | 27.9                    | 21.4 | 7.7  | -    | -    |    |
|                        | 67      | 70.5                                 | 3.7                           | 70.5                    | 65.0  | 58.4  | 51.9 | 45.3 | -    | 65.0                              | 4.0                           | 65.0                    | 61.8 | 55.4 | 48.8 | 42.2 |    |
|                        | 62      | 66.2                                 | 3.6                           | 66.2                    | 66.2  | 66.2  | 59.7 | 53.1 | 46.5 | 61.3                              | 3.9                           | 61.3                    | 61.3 | 61.3 | 55.8 | 49.2 |    |
| 11000                  | 77      | 86.9                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 81.2                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 79.5                                 | 3.9                           | 40.5                    | 34.0  | 27.3  | -    | -    | -    | 72.8                              | 4.1                           | 28.9                    | 22.4 | 7.9  | -    | -    |    |
|                        | 67      | 72.1                                 | 3.7                           | 72.1                    | 66.6  | 60.0  | 53.5 | 46.9 | -    | 66.6                              | 4.0                           | 66.6                    | 63.4 | 57.0 | 50.4 | 43.8 |    |
|                        | 62      | 67.8                                 | 3.6                           | 67.8                    | 67.8  | 67.8  | 61.3 | 54.7 | 48.1 | 62.9                              | 3.9                           | 62.9                    | 62.9 | 62.9 | 57.4 | 50.8 |    |
| 11500                  | 77      | 88.5                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 82.8                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 81.1                                 | 3.9                           | 41.9                    | 35.4  | 28.7  | -    | -    | -    | 74.4                              | 4.1                           | 29.9                    | 23.4 | 8.1  | -    | -    |    |
|                        | 67      | 73.7                                 | 3.7                           | 73.7                    | 68.2  | 61.6  | 55.1 | 48.5 | -    | 68.2                              | 4.0                           | 68.2                    | 65.0 | 58.6 | 52.0 | 45.4 |    |
|                        | 62      | 69.4                                 | 3.6                           | 69.4                    | 69.4  | 69.4  | 62.9 | 56.3 | 49.7 | 64.3                              | 3.9                           | 64.3                    | 64.3 | 64.3 | 58.8 | 52.2 |    |
| 12000                  | 77      | 90.1                                 | 4.1                           | -                       | -     | -     | -    | -    | -    | 84.4                              | 4.3                           | -                       | -    | -    | -    | -    |    |
|                        | 72      | 82.7                                 | 3.9                           | 43.3                    | 36.8  | 30.1  | -    | -    | -    | 76.0                              | 4.1                           | 30.9                    | 24.4 | 8.3  | -    | -    |    |
|                        | 67      | 75.3                                 | 3.7                           | 75.3                    | 69.8  | 63.2  | 56.7 | 50.1 | -    | 69.8                              | 4.0                           | 69.8                    | 66.6 | 60.2 | 53.6 | 47.0 |    |
|                        | 62      | 71.0                                 | 3.6                           | 71.0                    | 71.0  | 71.0  | 64.5 | 57.9 | 51.3 | 65.7                              | 3.9                           | 65.7                    | 65.7 | 65.7 | 60.2 | 53.6 |    |

## ZT150 (12.5 ton) reheater

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |      |      |      |                                   |                               |                         |      |      |      |      |      |   |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|---|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |   |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |   |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |   |
|                        |         | 35°F                                 |                               |                         |       |       |      |      |      | 45°F                              |                               |                         |      |      |      |      |      |   |
| 3125                   | 77      | 123.0                                | 10.5                          | 9.3                     | 9.1   | 8.8   | -    | -    | -    | 102.2                             | 7.5                           | -                       | -    | -    | -    | -    | -    |   |
|                        | 72      | 116.6                                | 10.1                          | 9.7                     | 9.5   | 9.3   | 9.0  | -    | -    | 96.1                              | 7.3                           | 11.4                    | 9.4  | 7.5  | 5.5  | -    | -    |   |
|                        | 67      | 110.1                                | 9.7                           | 10.2                    | 9.9   | 9.7   | 9.5  | 9.3  | -    | 89.9                              | 7.0                           | 22.9                    | 21.0 | 19.0 | 17.0 | 15.1 | -    |   |
|                        | 62      | 106.1                                | 9.6                           | 14.8                    | 15.7  | 15.5  | 15.3 | 15.0 | 14.8 | 86.5                              | 6.9                           | 34.8                    | 32.7 | 30.8 | 28.8 | 26.9 | 24.9 |   |
| 3750                   | 77      | 110.5                                | 8.3                           | 11.2                    | 9.6   | 8.1   | -    | -    | -    | 96.8                              | 6.4                           | -                       | -    | -    | -    | -    | -    |   |
|                        | 72      | 104.8                                | 8.0                           | 16.9                    | 15.4  | 13.9  | 12.4 | -    | -    | 91.0                              | 6.2                           | 15.8                    | 13.0 | 10.2 | 7.3  | -    | -    |   |
|                        | 67      | 99.0                                 | 7.7                           | 22.7                    | 21.2  | 19.7  | 18.1 | 16.6 | -    | 85.2                              | 6.0                           | 31.4                    | 28.6 | 25.8 | 23.0 | 20.2 | -    |   |
|                        | 62      | 95.5                                 | 7.6                           | 34.6                    | 33.1  | 31.6  | 30.1 | 28.6 | 27.1 | 81.9                              | 5.9                           | 47.5                    | 44.6 | 41.8 | 39.0 | 36.2 | 33.4 |   |
| 4375                   | 77      | 97.9                                 | 6.1                           | 13.0                    | 10.2  | 7.4   | -    | -    | -    | 91.4                              | 5.3                           | -                       | -    | -    | -    | -    | -    |   |
|                        | 72      | 92.9                                 | 5.8                           | 24.1                    | 21.3  | 18.5  | 15.7 | -    | -    | 85.9                              | 5.1                           | 20.2                    | 16.5 | 12.8 | 9.2  | -    | -    |   |
|                        | 67      | 88.0                                 | 5.6                           | 35.2                    | 32.4  | 29.6  | 26.8 | 24.0 | -    | 80.4                              | 4.9                           | 40.0                    | 36.3 | 32.6 | 29.0 | 25.3 | -    |   |
|                        | 62      | 84.9                                 | 5.6                           | 54.5                    | 50.5  | 47.7  | 44.9 | 42.1 | 39.3 | 77.4                              | 4.8                           | 60.1                    | 56.5 | 52.9 | 49.2 | 45.5 | 41.9 |   |
| 5000                   | 77      | 81.0                                 | 5.6                           | 53.3                    | 52.6  | 49.5  | 46.6 | 43.8 | 41.0 | 73.9                              | 4.9                           | 59.3                    | 57.9 | 55.1 | 51.4 | 47.7 | 44.1 |   |
|                        | 77      | 85.3                                 | 3.9                           | 14.9                    | 10.8  | 6.7   | -    | -    | -    | 86.0                              | 4.1                           | -                       | -    | -    | -    | -    | -    |   |
|                        | 72      | 81.1                                 | 3.7                           | 31.3                    | 27.2  | 23.1  | 19.1 | -    | -    | 80.8                              | 4.0                           | 24.6                    | 20.1 | 15.5 | 11.0 | -    | -    |   |
|                        | 67      | 77.0                                 | 3.6                           | 47.8                    | 43.7  | 39.6  | 35.5 | 31.4 | -    | 75.7                              | 3.9                           | 48.5                    | 44.0 | 39.4 | 34.9 | 30.4 | -    |   |
| 5250                   | 62      | 74.3                                 | 3.5                           | 74.3                    | 67.9  | 63.8  | 59.7 | 55.6 | 51.5 | 72.8                              | 3.8                           | 72.8                    | 68.4 | 63.9 | 59.4 | 54.9 | 50.3 |   |
|                        | 57      | 70.9                                 | 3.6                           | 70.9                    | 70.9  | 66.2  | 62.1 | 58.0 | 53.9 | 69.5                              | 3.8                           | 69.5                    | 69.5 | 66.6 | 62.0 | 57.5 | 53.0 |   |
|                        | 72      | 81.6                                 | 3.7                           | 32.8                    | 28.7  | 24.6  | 20.5 | -    | -    | 81.4                              | 4.0                           | 25.8                    | 21.1 | 16.5 | 11.8 | -    | -    |   |
|                        | 67      | 77.4                                 | 3.6                           | 50.6                    | 46.5  | 42.4  | 38.3 | 34.2 | -    | 76.2                              | 3.9                           | 51.2                    | 46.5 | 41.8 | 37.1 | 32.5 | -    |   |
| 5500                   | 62      | 74.7                                 | 3.6                           | 74.7                    | 71.5  | 68.3  | 64.2 | 60.1 | 56.0 | 73.3                              | 3.8                           | 73.3                    | 71.1 | 67.8 | 63.1 | 58.4 | 53.7 |   |
|                        | 57      | 71.3                                 | 3.6                           | 71.3                    | 71.3  | 68.9  | 64.8 | 60.7 | 56.6 | 70.0                              | 3.8                           | 70.0                    | 70.0 | 68.5 | 63.8 | 59.1 | 54.5 |   |
|                        | 72      | 82.0                                 | 3.8                           | 34.3                    | 30.2  | 26.1  | 22.0 | -    | -    | 81.9                              | 4.0                           | 27.0                    | 22.2 | 17.4 | 12.6 | -    | -    |   |
|                        | 67      | 77.8                                 | 3.6                           | 53.4                    | 49.3  | 45.2  | 41.1 | 37.0 | -    | 76.7                              | 3.9                           | 53.8                    | 49.0 | 44.2 | 39.4 | 34.5 | -    |   |
| 5750                   | 62      | 75.1                                 | 3.6                           | 75.1                    | 75.1  | 72.9  | 68.8 | 64.7 | 60.6 | 73.8                              | 3.8                           | 73.8                    | 73.8 | 71.6 | 66.8 | 62.0 | 57.1 |   |
|                        | 57      | 71.7                                 | 3.6                           | 71.7                    | 71.7  | 67.6  | 63.4 | 59.3 | 55.3 | 70.4                              | 3.8                           | 70.4                    | 70.4 | 70.4 | 65.6 | 60.8 | 56.0 |   |
|                        |         |                                      | 55°F                          |                         |       |       |      |      |      |                                   | 65°F                          |                         |      |      |      |      |      |   |
|                        | 3125    | 77                                   | 81.3                          | 4.5                     | -     | -     | -    | -    | -    | -                                 | 76.3                          | 4.9                     | -    | -    | -    | -    | -    | - |
| 72                     |         | 75.5                                 | 4.4                           | 13.1                    | 9.4   | 5.7   | 2.0  | -    | -    | 70.7                              | 4.8                           | 11.8                    | 8.5  | 5.1  | 1.8  | -    | -    |   |
| 67                     |         | 69.8                                 | 4.3                           | 35.7                    | 32.0  | 28.3  | 24.6 | 20.9 | -    | 65.1                              | 4.7                           | 30.8                    | 27.4 | 24.1 | 20.8 | 17.5 | -    |   |
| 62                     |         | 66.9                                 | 4.2                           | 54.8                    | 49.8  | 46.1  | 42.4 | 38.7 | 35.0 | 62.4                              | 4.6                           | 46.4                    | 41.5 | 38.2 | 34.9 | 31.6 | 28.2 |   |
| 3750                   | 77      | 83.1                                 | 4.5                           | -10.9                   | -15.0 | -19.1 | -    | -    | -    | 78.6                              | 4.9                           | -                       | -    | -    | -    | -    | -    |   |
|                        | 72      | 77.2                                 | 4.4                           | 14.6                    | 10.5  | 6.4   | 2.3  | -    | -    | 72.8                              | 4.7                           | 14.0                    | 10.1 | 6.2  | 2.3  | -    | -    |   |
|                        | 67      | 71.3                                 | 4.3                           | 40.2                    | 36.1  | 32.0  | 27.9 | 23.7 | -    | 67.0                              | 4.6                           | 36.8                    | 32.9 | 28.9 | 25.0 | 21.1 | -    |   |
|                        | 62      | 68.3                                 | 4.2                           | 60.3                    | 56.2  | 52.1  | 48.0 | 43.8 | 39.7 | 64.2                              | 4.5                           | 53.6                    | 49.7 | 45.7 | 41.8 | 37.9 | 34.0 |   |
| 4375                   | 57      | 65.3                                 | 4.2                           | 62.7                    | 58.6  | 54.4  | 50.3 | 46.2 | 42.1 | 61.8                              | 4.5                           | 55.6                    | 51.7 | 47.8 | 43.9 | 40.0 | 36.1 |   |
|                        | 77      | 84.9                                 | 4.5                           | -                       | -     | -     | -    | -    | -    | 80.8                              | 4.8                           | -                       | -    | -    | -    | -    | -    |   |
|                        | 72      | 78.9                                 | 4.3                           | 16.2                    | 11.7  | 7.2   | 2.6  | -    | -    | 74.9                              | 4.7                           | 16.3                    | 11.8 | 7.3  | 2.7  | -    | -    |   |
|                        | 67      | 72.9                                 | 4.2                           | 44.7                    | 40.2  | 35.6  | 31.1 | 26.6 | -    | 68.9                              | 4.6                           | 42.8                    | 38.3 | 33.8 | 29.3 | 24.8 | -    |   |
| 5000                   | 62      | 69.8                                 | 4.1                           | 65.8                    | 62.6  | 58.0  | 53.5 | 49.0 | 44.4 | 66.0                              | 4.5                           | 60.7                    | 57.8 | 53.3 | 48.8 | 44.3 | 39.8 |   |
|                        | 57      | 66.7                                 | 4.1                           | 65.4                    | 63.3  | 60.7  | 56.2 | 51.6 | 47.1 | 63.6                              | 4.5                           | 60.5                    | 58.5 | 55.7 | 51.2 | 46.7 | 42.2 |   |
|                        | 77      | 86.7                                 | 4.4                           | -                       | -     | -     | -    | -    | -    | 83.1                              | 4.8                           | -                       | -    | -    | -    | -    | -    |   |
|                        | 72      | 80.6                                 | 4.3                           | 17.8                    | 12.9  | 7.9   | 2.9  | -    | -    | 76.9                              | 4.7                           | 18.5                    | 13.4 | 8.3  | 3.2  | -    | -    |   |
| 5250                   | 67      | 74.4                                 | 4.2                           | 49.2                    | 44.3  | 39.3  | 34.3 | 29.4 | -    | 70.8                              | 4.5                           | 48.8                    | 43.7 | 38.6 | 33.5 | 28.4 | -    |   |
|                        | 62      | 71.3                                 | 4.1                           | 71.3                    | 69.0  | 64.0  | 59.1 | 54.1 | 49.1 | 67.9                              | 4.5                           | 67.9                    | 65.9 | 60.8 | 55.7 | 50.6 | 45.5 |   |
|                        | 57      | 68.1                                 | 4.1                           | 68.1                    | 68.1  | 66.9  | 62.0 | 57.0 | 52.1 | 65.4                              | 4.5                           | 65.4                    | 65.4 | 63.6 | 58.5 | 53.4 | 48.3 |   |
|                        | 72      | 81.2                                 | 4.3                           | 18.8                    | 13.5  | 8.3   | 3.0  | -    | -    | 77.1                              | 4.6                           | 19.4                    | 14.0 | 8.7  | 3.3  | -    | -    |   |
| 5500                   | 67      | 75.0                                 | 4.2                           | 51.7                    | 46.5  | 41.2  | 36.0 | 30.7 | -    | 71.0                              | 4.5                           | 51.0                    | 45.6 | 40.3 | 34.9 | 29.6 | -    |   |
|                        | 62      | 71.8                                 | 4.1                           | 71.8                    | 70.7  | 67.2  | 61.9 | 56.7 | 51.4 | 68.1                              | 4.4                           | 68.1                    | 67.1 | 63.5 | 58.1 | 52.8 | 47.4 |   |
|                        | 57      | 68.6                                 | 4.1                           | 68.6                    | 68.6  | 68.1  | 62.8 | 57.6 | 52.3 | 65.5                              | 4.4                           | 65.5                    | 65.5 | 64.6 | 59.3 | 53.9 | 48.6 |   |
|                        | 72      | 81.8                                 | 4.2                           | 19.7                    | 14.2  | 8.7   | 3.1  | -    | -    | 77.3                              | 4.6                           | 20.2                    | 14.6 | 9.0  | 3.4  | -    | -    |   |
| 5750                   | 67      | 75.6                                 | 4.1                           | 54.2                    | 48.7  | 43.2  | 37.6 | 32.1 | -    | 71.2                              | 4.5                           | 53.2                    | 47.5 | 41.9 | 36.3 | 30.7 | -    |   |
|                        | 62      | 72.4                                 | 4.0                           | 72.4                    | 72.4  | 70.3  | 64.8 | 59.3 | 53.7 | 68.2                              | 4.4                           | 68.2                    | 68.2 | 66.1 | 60.5 | 54.9 | 49.3 |   |
|                        | 57      | 69.2                                 | 4.0                           | 69.2                    | 69.2  | 69.2  | 63.6 | 58.1 | 52.6 | 65.7                              | 4.4                           | 65.7                    | 65.7 | 65.7 | 60.1 | 54.5 | 48.9 |   |

**ZT150 (12.5 ton) reheat (continued)**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 3125                   | 77      | 71.4                                 | 5.3                           | -                       | -    | -    | -    | -    | -    | 66.4                              | 5.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 65.9                                 | 5.1                           | 10.5                    | 7.5  | 4.6  | 1.6  | -    | -    | 61.0                              | 5.5                           | 9.2                     | 6.6  | 4.0  | 1.5  | -    | -    |
|                        | 67      | 60.3                                 | 5.0                           | 25.8                    | 22.9 | 19.9 | 17.0 | 14.0 | -    | 55.6                              | 5.4                           | 20.9                    | 18.3 | 15.8 | 13.2 | 10.6 | -    |
|                        | 62      | 57.9                                 | 5.0                           | 38.1                    | 33.3 | 30.3 | 27.4 | 24.4 | 21.5 | 53.4                              | 5.3                           | 29.7                    | 25.0 | 22.4 | 19.9 | 17.3 | 14.7 |
| 3750                   | 77      | 74.1                                 | 5.2                           | -                       | -    | -    | -    | -    | -    | 69.6                              | 5.6                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 68.3                                 | 5.1                           | 13.4                    | 9.7  | 6.0  | 2.3  | -    | -    | 63.9                              | 5.5                           | 12.8                    | 9.3  | 5.7  | 2.2  | -    | -    |
|                        | 67      | 62.6                                 | 5.0                           | 33.3                    | 29.6 | 25.9 | 22.2 | 18.5 | -    | 58.2                              | 5.3                           | 29.9                    | 26.4 | 22.9 | 19.4 | 15.9 | -    |
|                        | 62      | 60.1                                 | 4.9                           | 46.9                    | 43.1 | 39.4 | 35.7 | 32.0 | 28.3 | 56.0                              | 5.3                           | 40.1                    | 36.6 | 33.1 | 29.6 | 26.1 | 22.6 |
|                        | 57      | 58.4                                 | 4.9                           | 48.6                    | 44.9 | 41.2 | 37.5 | 33.7 | 30.0 | 54.9                              | 5.3                           | 41.6                    | 38.0 | 34.5 | 31.0 | 27.5 | 24.0 |
| 4375                   | 77      | 76.8                                 | 5.2                           | -                       | -    | -    | -    | -    | -    | 72.8                              | 5.6                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 70.8                                 | 5.1                           | 16.3                    | 11.8 | 7.3  | 2.9  | -    | -    | 66.8                              | 5.4                           | 16.3                    | 11.9 | 7.4  | 3.0  | -    | -    |
|                        | 67      | 64.9                                 | 4.9                           | 40.9                    | 36.4 | 31.9 | 27.4 | 23.0 | -    | 60.9                              | 5.3                           | 38.9                    | 34.5 | 30.0 | 25.6 | 21.1 | -    |
|                        | 62      | 62.3                                 | 4.9                           | 55.7                    | 53.0 | 48.5 | 44.1 | 39.6 | 35.1 | 58.5                              | 5.2                           | 50.6                    | 48.2 | 43.8 | 39.3 | 34.9 | 30.4 |
|                        | 57      | 60.5                                 | 4.9                           | 55.6                    | 53.8 | 50.7 | 46.2 | 41.7 | 37.2 | 57.4                              | 5.3                           | 50.7                    | 49.0 | 45.7 | 41.2 | 36.8 | 32.3 |
| 5000                   | 77      | 79.5                                 | 5.2                           | -                       | -    | -    | -    | -    | -    | 75.9                              | 5.5                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 73.3                                 | 5.0                           | 19.2                    | 14.0 | 8.7  | 3.5  | -    | -    | 69.7                              | 5.4                           | 19.9                    | 14.5 | 9.1  | 3.8  | -    | -    |
|                        | 67      | 67.2                                 | 4.9                           | 48.4                    | 43.1 | 37.9 | 32.6 | 27.4 | -    | 63.5                              | 5.2                           | 47.9                    | 42.5 | 37.2 | 31.8 | 26.4 | -    |
|                        | 62      | 64.5                                 | 4.8                           | 64.5                    | 62.9 | 57.6 | 52.4 | 47.2 | 41.9 | 61.1                              | 5.2                           | 61.1                    | 59.8 | 54.4 | 49.1 | 43.7 | 38.3 |
|                        | 57      | 62.6                                 | 4.8                           | 62.6                    | 62.6 | 60.2 | 54.9 | 49.7 | 44.5 | 59.9                              | 5.2                           | 59.9                    | 59.9 | 56.8 | 51.4 | 46.0 | 40.7 |
| 5250                   | 72      | 73.1                                 | 5.0                           | 20.0                    | 14.5 | 9.1  | 3.6  | -    | -    | 69.1                              | 5.3                           | 20.6                    | 15.0 | 9.4  | 3.9  | -    | -    |
|                        | 67      | 67.0                                 | 4.9                           | 50.2                    | 44.8 | 39.3 | 33.8 | 28.4 | -    | 62.9                              | 5.2                           | 49.5                    | 43.9 | 38.3 | 32.8 | 27.2 | -    |
|                        | 62      | 64.3                                 | 4.8                           | 64.3                    | 63.5 | 59.8 | 54.3 | 48.9 | 43.4 | 60.5                              | 5.2                           | 60.5                    | 59.9 | 56.1 | 50.5 | 45.0 | 39.4 |
|                        | 57      | 62.4                                 | 4.8                           | 62.4                    | 62.4 | 61.2 | 55.7 | 50.3 | 44.8 | 59.3                              | 5.2                           | 59.3                    | 59.3 | 57.8 | 52.2 | 46.6 | 41.1 |
| 5500                   | 72      | 72.9                                 | 5.0                           | 20.8                    | 15.1 | 9.4  | 3.7  | -    | -    | 68.4                              | 5.3                           | 21.3                    | 15.5 | 9.7  | 4.0  | -    | -    |
|                        | 67      | 66.7                                 | 4.8                           | 52.1                    | 46.4 | 40.7 | 35.0 | 29.3 | -    | 62.3                              | 5.2                           | 51.0                    | 45.3 | 39.5 | 33.7 | 28.0 | -    |
|                        | 62      | 64.1                                 | 4.8                           | 64.1                    | 64.1 | 61.9 | 56.3 | 50.6 | 44.9 | 59.9                              | 5.1                           | 59.9                    | 59.9 | 57.8 | 52.0 | 46.2 | 40.5 |
|                        | 57      | 62.2                                 | 4.8                           | 62.2                    | 62.2 | 62.2 | 56.5 | 50.9 | 45.2 | 58.8                              | 5.1                           | 58.8                    | 58.8 | 58.8 | 53.0 | 47.2 | 41.5 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZB078-150 cooling capacities

### ZB078 (6.5 ton) cooling capacity

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1625                   | 77      | 105.8                                | 4.4                           | 52.3                    | 37.9 | 23.4 | -    | -    | -    | 100.4                             | 5.1                           | 49.8                    | 38.7 | 27.6 | -    | -    | -    |
|                        | 72      | 95.5                                 | 4.4                           | 62.3                    | 50.1 | 37.9 | 25.8 | -    | -    | 90.1                              | 5.1                           | 59.9                    | 49.5 | 39.0 | 28.5 | -    | -    |
|                        | 67      | 85.2                                 | 4.4                           | 72.2                    | 62.4 | 52.5 | 41.7 | 31.0 | -    | 79.8                              | 5.0                           | 70.1                    | 60.2 | 50.4 | 40.7 | 31.1 | -    |
|                        | 62      | 79.4                                 | 4.4                           | 72.0                    | 69.4 | 67.0 | 54.5 | 48.4 | 39.1 | 75.7                              | 5.0                           | 73.2                    | 67.5 | 61.8 | 51.3 | 44.1 | 35.3 |
| 1950                   | 77      | 109.9                                | 4.5                           | 58.9                    | 48.3 | 37.7 | -    | -    | -    | 102.9                             | 5.1                           | 56.7                    | 45.7 | 34.8 | -    | -    | -    |
|                        | 72      | 99.5                                 | 4.4                           | 69.1                    | 58.5 | 48.0 | 37.4 | -    | -    | 93.2                              | 5.1                           | 66.6                    | 55.9 | 45.3 | 34.6 | -    | -    |
|                        | 67      | 89.1                                 | 4.4                           | 79.2                    | 68.7 | 58.2 | 47.6 | 37.0 | -    | 83.5                              | 5.0                           | 76.5                    | 66.1 | 55.7 | 45.1 | 34.5 | -    |
|                        | 62      | 84.2                                 | 4.4                           | 79.2                    | 73.9 | 68.5 | 55.3 | 47.3 | 36.6 | 80.3                              | 5.0                           | 78.8                    | 72.5 | 66.2 | 54.4 | 45.1 | 34.6 |
|                        | 57      | 79.3                                 | 4.3                           | 79.2                    | 79.0 | 78.7 | 68.1 | 57.5 | 46.8 | 77.0                              | 5.0                           | 77.0                    | 77.0 | 76.7 | 66.2 | 55.7 | 45.2 |
| 2275                   | 77      | 113.9                                | 4.5                           | 65.5                    | 58.8 | 52.0 | -    | -    | -    | 105.4                             | 5.1                           | 63.5                    | 52.8 | 42.1 | -    | -    | -    |
|                        | 72      | 103.4                                | 4.4                           | 75.9                    | 66.9 | 58.0 | 49.0 | -    | -    | 96.4                              | 5.1                           | 73.3                    | 62.4 | 51.6 | 40.8 | -    | -    |
|                        | 67      | 93.0                                 | 4.4                           | 86.3                    | 75.1 | 63.9 | 53.5 | 43.1 | -    | 87.3                              | 5.0                           | 83.0                    | 72.0 | 61.1 | 49.5 | 38.0 | -    |
|                        | 62      | 89.0                                 | 4.4                           | 86.5                    | 78.3 | 69.9 | 56.0 | 46.1 | 34.2 | 84.9                              | 5.0                           | 84.5                    | 77.6 | 70.6 | 57.4 | 46.1 | 33.9 |
|                        | 57      | 85.0                                 | 4.4                           | 85.0                    | 81.5 | 75.8 | 62.5 | 49.1 | 35.8 | 82.4                              | 5.0                           | 82.4                    | 82.4 | 80.1 | 67.1 | 54.2 | 41.3 |
| 2600                   | 77      | 117.9                                | 4.5                           | 72.2                    | 69.3 | 66.3 | -    | -    | -    | 107.9                             | 5.1                           | 70.4                    | 59.9 | 49.4 | -    | -    | -    |
|                        | 72      | 107.4                                | 4.5                           | 82.7                    | 75.4 | 68.0 | 60.6 | -    | -    | 99.5                              | 5.1                           | 79.9                    | 68.9 | 57.9 | 46.9 | -    | -    |
|                        | 67      | 96.9                                 | 4.4                           | 93.3                    | 81.5 | 69.7 | 59.4 | 49.1 | -    | 91.1                              | 5.0                           | 89.5                    | 77.9 | 66.4 | 53.9 | 41.5 | -    |
|                        | 62      | 93.8                                 | 4.4                           | 93.8                    | 82.8 | 71.3 | 56.8 | 45.0 | 31.8 | 89.4                              | 5.0                           | 89.4                    | 82.7 | 75.0 | 60.4 | 47.1 | 33.2 |
|                        | 57      | 90.7                                 | 4.4                           | 90.7                    | 84.1 | 73.0 | 56.9 | 40.8 | 24.7 | 87.8                              | 5.0                           | 87.8                    | 87.4 | 83.5 | 68.1 | 52.7 | 37.3 |
| 2925                   | 72      | 111.4                                | 4.5                           | 89.5                    | 83.8 | 78.0 | 72.3 | -    | -    | 102.6                             | 5.0                           | 86.6                    | 75.4 | 64.2 | 53.0 | -    | -    |
|                        | 67      | 100.7                                | 4.4                           | 100.3                   | 87.8 | 75.4 | 65.3 | 55.2 | -    | 94.9                              | 5.0                           | 94.9                    | 83.8 | 71.8 | 58.4 | 45.0 | -    |
|                        | 62      | 98.6                                 | 4.4                           | 98.6                    | 87.2 | 72.7 | 57.6 | 43.8 | 29.3 | 94.0                              | 5.0                           | 94.0                    | 87.7 | 79.3 | 63.4 | 48.1 | 32.5 |
|                        | 57      | 96.4                                 | 4.4                           | 96.4                    | 86.6 | 70.1 | 51.3 | 32.5 | 13.6 | 93.2                              | 5.0                           | 93.2                    | 91.6 | 86.9 | 69.1 | 51.3 | 33.4 |
| 3250                   | 72      | 115.3                                | 4.5                           | 96.3                    | 92.2 | 88.0 | 83.9 | -    | -    | 105.8                             | 5.0                           | 93.3                    | 81.9 | 70.5 | 59.1 | -    | -    |
|                        | 67      | 104.6                                | 4.4                           | 104.6                   | 94.2 | 81.1 | 71.2 | 61.2 | -    | 98.6                              | 5.0                           | 98.6                    | 89.7 | 77.1 | 62.8 | 48.4 | -    |
|                        | 62      | 103.4                                | 4.4                           | 109.2                   | 91.7 | 74.2 | 58.4 | 42.7 | 26.9 | 98.6                              | 5.0                           | 98.6                    | 92.8 | 83.7 | 66.4 | 49.1 | 31.8 |
|                        | 57      | 102.2                                | 4.4                           | 113.8                   | 89.2 | 67.2 | 45.7 | 24.1 | 2.6  | 98.6                              | 5.0                           | 102.7                   | 95.9 | 90.3 | 70.0 | 49.8 | 29.5 |
|                        |         | 95°F                                 |                               |                         |      |      |      |      |      | 105°F                             |                               |                         |      |      |      |      |      |
| 1625                   | 77      | 95.1                                 | 5.8                           | 47.3                    | 39.5 | 31.7 | -    | -    | -    | 88.1                              | 6.7                           | 45.8                    | 37.3 | 28.9 | -    | -    | -    |
|                        | 72      | 84.7                                 | 5.7                           | 57.6                    | 48.8 | 40.0 | 31.2 | -    | -    | 78.2                              | 6.6                           | 54.6                    | 45.8 | 37.0 | 28.2 | -    | -    |
|                        | 67      | 74.3                                 | 5.6                           | 67.9                    | 58.1 | 48.3 | 39.7 | 31.1 | -    | 68.3                              | 6.6                           | 63.3                    | 54.2 | 45.1 | 36.4 | 27.8 | -    |
|                        | 62      | 72.0                                 | 5.6                           | 72.0                    | 65.5 | 56.6 | 48.2 | 39.8 | 31.4 | 66.3                              | 6.6                           | 66.3                    | 60.8 | 53.2 | 44.7 | 36.2 | 27.8 |
| 1950                   | 77      | 96.0                                 | 5.7                           | 54.4                    | 43.2 | 31.9 | -    | -    | -    | 88.9                              | 6.7                           | 52.7                    | 40.9 | 29.0 | -    | -    | -    |
|                        | 72      | 87.0                                 | 5.7                           | 64.1                    | 53.4 | 42.6 | 31.9 | -    | -    | 80.5                              | 6.6                           | 60.7                    | 50.0 | 39.3 | 28.7 | -    | -    |
|                        | 67      | 78.0                                 | 5.6                           | 73.9                    | 63.6 | 53.3 | 42.7 | 32.0 | -    | 72.0                              | 6.6                           | 68.7                    | 59.2 | 49.7 | 39.1 | 28.6 | -    |
|                        | 62      | 76.3                                 | 5.6                           | 76.3                    | 71.2 | 64.0 | 53.5 | 43.0 | 32.5 | 70.5                              | 6.6                           | 70.5                    | 66.2 | 60.0 | 49.6 | 39.2 | 28.8 |
|                        | 57      | 74.7                                 | 5.6                           | 74.7                    | 74.7 | 74.6 | 64.3 | 53.9 | 43.5 | 69.0                              | 6.6                           | 69.0                    | 69.0 | 69.0 | 60.1 | 49.8 | 39.6 |
| 2275                   | 77      | 97.0                                 | 5.7                           | 61.5                    | 46.8 | 32.2 | -    | -    | -    | 89.7                              | 6.6                           | 59.6                    | 44.4 | 29.2 | -    | -    | -    |
|                        | 72      | 89.3                                 | 5.7                           | 70.6                    | 57.9 | 45.2 | 32.5 | -    | -    | 82.7                              | 6.6                           | 66.8                    | 54.3 | 41.7 | 29.2 | -    | -    |
|                        | 67      | 81.7                                 | 5.6                           | 79.8                    | 69.0 | 58.2 | 45.6 | 32.9 | -    | 75.7                              | 6.6                           | 74.1                    | 64.2 | 54.3 | 41.9 | 29.4 | -    |
|                        | 62      | 80.7                                 | 5.6                           | 80.7                    | 76.9 | 71.3 | 58.7 | 46.1 | 33.5 | 74.8                              | 6.6                           | 74.8                    | 71.6 | 66.9 | 54.6 | 42.2 | 29.9 |
|                        | 57      | 79.8                                 | 5.6                           | 79.8                    | 79.8 | 79.8 | 71.8 | 59.3 | 46.8 | 73.8                              | 6.6                           | 73.8                    | 73.8 | 73.8 | 67.2 | 55.0 | 42.8 |
| 2600                   | 77      | 97.9                                 | 5.7                           | 68.6                    | 50.5 | 32.4 | -    | -    | -    | 90.5                              | 6.6                           | 66.5                    | 47.9 | 29.3 | -    | -    | -    |
|                        | 72      | 91.6                                 | 5.7                           | 77.1                    | 62.5 | 47.8 | 33.1 | -    | -    | 85.0                              | 6.6                           | 73.0                    | 58.6 | 44.1 | 29.7 | -    | -    |
|                        | 67      | 85.3                                 | 5.6                           | 85.3                    | 74.4 | 63.2 | 48.5 | 33.8 | -    | 79.4                              | 6.6                           | 79.4                    | 69.2 | 58.9 | 44.6 | 30.2 | -    |
|                        | 62      | 85.1                                 | 5.6                           | 85.1                    | 82.6 | 78.6 | 63.9 | 49.3 | 34.6 | 79.0                              | 6.6                           | 79.0                    | 77.0 | 73.8 | 59.5 | 45.2 | 30.9 |
|                        | 57      | 84.9                                 | 5.6                           | 84.9                    | 84.9 | 84.9 | 79.3 | 64.7 | 50.0 | 78.6                              | 6.6                           | 78.6                    | 78.6 | 78.6 | 74.4 | 60.2 | 46.0 |
| 2925                   | 72      | 93.9                                 | 5.6                           | 83.7                    | 67.0 | 50.4 | 33.7 | -    | -    | 87.2                              | 6.6                           | 79.1                    | 62.8 | 46.5 | 30.2 | -    | -    |
|                        | 67      | 89.0                                 | 5.6                           | 89.0                    | 79.9 | 68.2 | 51.4 | 34.7 | -    | 83.1                              | 6.5                           | 83.1                    | 74.2 | 63.6 | 47.3 | 31.1 | -    |
|                        | 62      | 89.5                                 | 5.6                           | 89.5                    | 88.2 | 85.9 | 69.2 | 52.4 | 35.6 | 83.2                              | 6.6                           | 83.2                    | 82.4 | 80.6 | 64.4 | 48.2 | 32.0 |
|                        | 57      | 90.0                                 | 5.6                           | 89.5                    | 89.5 | 89.5 | 86.9 | 70.1 | 53.2 | 83.4                              | 6.6                           | 83.4                    | 83.4 | 83.4 | 81.5 | 65.3 | 49.2 |
| 3250                   | 72      | 96.2                                 | 5.6                           | 90.2                    | 71.6 | 53.0 | 34.4 | -    | -    | 89.5                              | 6.5                           | 85.3                    | 67.1 | 48.9 | 30.7 | -    | -    |
|                        | 67      | 92.6                                 | 5.6                           | 92.6                    | 85.3 | 73.1 | 54.4 | 35.6 | -    | 86.8                              | 6.5                           | 86.8                    | 79.2 | 68.2 | 50.0 | 31.9 | -    |
|                        | 62      | 93.9                                 | 5.6                           | 93.9                    | 93.9 | 93.3 | 74.4 | 55.5 | 36.7 | 87.5                              | 6.5                           | 87.5                    | 87.5 | 87.5 | 69.3 | 51.2 | 33.0 |
|                        | 57      | 95.1                                 | 5.6                           | 91.6                    | 91.6 | 91.6 | 91.6 | 75.4 | 56.4 | 88.1                              | 6.6                           | 86.3                    | 86.3 | 86.3 | 86.3 | 70.5 | 52.4 |

**ZB078 (6.5 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      | 125°F                             |                               |                         |      |      |      |      |      |
| 1625                   | 77      | 81.2                                 | 7.6                           | 44.3                    | 35.2 | 26.0 | -    | -    | -    | 74.2                              | 8.5                           | 42.9                    | 33.0 | 23.1 | -    | -    | -    |
|                        | 72      | 71.8                                 | 7.6                           | 51.5                    | 42.7 | 33.9 | 25.1 | -    | -    | 65.3                              | 8.5                           | 48.5                    | 39.7 | 30.8 | 22.0 | -    | -    |
|                        | 67      | 62.4                                 | 7.6                           | 58.7                    | 50.3 | 41.8 | 33.1 | 24.5 | -    | 56.4                              | 8.5                           | 54.1                    | 46.3 | 38.5 | 29.8 | 21.1 | -    |
|                        | 62      | 60.6                                 | 7.5                           | 60.6                    | 56.1 | 49.7 | 41.2 | 32.6 | 24.1 | 54.9                              | 8.5                           | 56.6                    | 51.4 | 46.2 | 37.6 | 29.0 | 20.4 |
| 1950                   | 77      | 81.8                                 | 7.6                           | 51.0                    | 38.6 | 26.1 | -    | -    | -    | 74.7                              | 8.5                           | 49.3                    | 36.3 | 23.2 | -    | -    | -    |
|                        | 72      | 73.9                                 | 7.6                           | 57.3                    | 46.7 | 36.1 | 25.5 | -    | -    | 67.4                              | 8.5                           | 53.9                    | 43.4 | 32.8 | 22.3 | -    | -    |
|                        | 67      | 66.1                                 | 7.5                           | 63.6                    | 54.8 | 46.1 | 35.6 | 25.2 | -    | 60.1                              | 8.5                           | 58.4                    | 50.5 | 42.5 | 32.1 | 21.7 | -    |
|                        | 62      | 64.7                                 | 7.5                           | 64.7                    | 61.3 | 56.1 | 45.8 | 35.5 | 25.2 | 58.9                              | 8.5                           | 60.4                    | 56.3 | 52.2 | 41.9 | 31.7 | 21.5 |
|                        | 57      | 63.3                                 | 7.5                           | 63.3                    | 63.3 | 63.3 | 55.9 | 45.8 | 35.6 | 57.7                              | 8.5                           | 62.4                    | 62.1 | 61.8 | 51.8 | 41.7 | 31.6 |
| 2275                   | 77      | 82.4                                 | 7.5                           | 57.7                    | 41.9 | 26.2 | -    | -    | -    | 75.1                              | 8.5                           | 55.8                    | 39.5 | 23.2 | -    | -    | -    |
|                        | 72      | 76.1                                 | 7.5                           | 63.1                    | 50.7 | 38.3 | 25.9 | -    | -    | 69.5                              | 8.5                           | 59.3                    | 47.0 | 34.8 | 22.6 | -    | -    |
|                        | 67      | 69.8                                 | 7.5                           | 68.4                    | 59.4 | 50.4 | 38.1 | 25.9 | -    | 63.9                              | 8.5                           | 62.7                    | 54.6 | 46.5 | 34.4 | 22.4 | -    |
|                        | 62      | 68.8                                 | 7.5                           | 68.8                    | 66.4 | 62.5 | 50.4 | 38.3 | 26.2 | 62.9                              | 8.5                           | 64.2                    | 61.1 | 58.1 | 46.3 | 34.4 | 22.6 |
|                        | 57      | 67.8                                 | 7.5                           | 67.8                    | 67.8 | 67.8 | 62.7 | 50.7 | 38.8 | 61.8                              | 8.5                           | 65.7                    | 65.7 | 65.7 | 58.1 | 46.4 | 34.8 |
| 2600                   | 77      | 83.1                                 | 7.5                           | 64.4                    | 45.3 | 26.3 | -    | -    | -    | 75.6                              | 8.4                           | 62.3                    | 42.8 | 23.2 | -    | -    | -    |
|                        | 72      | 78.3                                 | 7.5                           | 68.8                    | 54.6 | 40.5 | 26.3 | -    | -    | 71.6                              | 8.4                           | 64.7                    | 50.7 | 36.8 | 22.9 | -    | -    |
|                        | 67      | 73.6                                 | 7.5                           | 73.2                    | 63.9 | 54.7 | 40.7 | 26.6 | -    | 67.7                              | 8.4                           | 67.0                    | 58.7 | 50.4 | 36.7 | 23.0 | -    |
|                        | 62      | 72.9                                 | 7.5                           | 72.9                    | 71.5 | 68.9 | 55.0 | 41.2 | 27.3 | 66.8                              | 8.5                           | 68.0                    | 66.0 | 64.0 | 50.6 | 37.1 | 23.6 |
|                        | 57      | 72.2                                 | 7.5                           | 72.2                    | 72.2 | 72.2 | 69.4 | 55.7 | 42.0 | 65.9                              | 8.5                           | 69.0                    | 69.0 | 69.0 | 64.4 | 51.2 | 37.9 |
| 2925                   | 72      | 80.5                                 | 7.5                           | 74.6                    | 58.6 | 42.7 | 26.7 | -    | -    | 73.8                              | 8.4                           | 70.0                    | 54.4 | 38.8 | 23.2 | -    | -    |
|                        | 67      | 77.3                                 | 7.5                           | 77.3                    | 68.5 | 59.0 | 43.2 | 27.4 | -    | 71.5                              | 8.4                           | 71.3                    | 62.8 | 54.4 | 39.0 | 23.7 | -    |
|                        | 62      | 77.0                                 | 7.5                           | 77.0                    | 76.7 | 75.3 | 59.6 | 44.0 | 28.3 | 70.8                              | 8.4                           | 71.8                    | 70.9 | 70.0 | 54.9 | 39.8 | 24.7 |
|                        | 57      | 76.7                                 | 7.5                           | 76.7                    | 76.7 | 76.7 | 76.1 | 60.6 | 45.1 | 70.0                              | 8.5                           | 72.2                    | 72.2 | 72.2 | 70.7 | 55.9 | 41.1 |
| 3250                   | 72      | 82.7                                 | 7.5                           | 80.4                    | 62.6 | 44.8 | 27.1 | -    | -    | 75.9                              | 8.4                           | 75.4                    | 58.1 | 40.8 | 23.5 | -    | -    |
|                        | 67      | 81.0                                 | 7.4                           | 81.0                    | 73.1 | 63.3 | 45.7 | 28.1 | -    | 75.2                              | 8.4                           | 75.6                    | 66.9 | 58.3 | 41.3 | 24.3 | -    |
|                        | 62      | 81.1                                 | 7.5                           | 81.1                    | 81.1 | 81.1 | 64.3 | 46.8 | 29.4 | 74.7                              | 8.4                           | 75.5                    | 75.5 | 75.5 | 59.2 | 42.5 | 25.8 |
|                        | 57      | 81.2                                 | 7.5                           | 80.9                    | 80.9 | 80.9 | 80.9 | 65.6 | 48.3 | 74.2                              | 8.5                           | 75.5                    | 75.5 | 75.5 | 75.5 | 60.7 | 44.3 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**ZB090 (7.5 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |      |      |                                   |                               |                         |       |       |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |      |      |                                   |                               | Return dry bulb (°F)    |       |       |      |      |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70   | 65   |                                   |                               | 90                      | 85    | 80    | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |       |       |       |      |      | 85°F                              |                               |                         |       |       |      |      |      |
| 1875                   | 77      | 120.2                                | 5.2                           | 57.4                    | 47.6  | 37.8  | -     | -    | -    | 112.3                             | 5.9                           | 54.0                    | 44.8  | 35.6  | -    | -    | -    |
|                        | 72      | 107.7                                | 5.2                           | 67.5                    | 57.7  | 47.9  | 38.1  | -    | -    | 100.5                             | 5.9                           | 64.8                    | 55.2  | 45.6  | 36.0 | -    | -    |
|                        | 67      | 95.1                                 | 5.1                           | 77.6                    | 67.8  | 58.0  | 48.0  | 38.4 | -    | 88.7                              | 5.8                           | 75.7                    | 65.6  | 55.6  | 45.7 | 36.1 | -    |
|                        | 62      | 84.3                                 | 5.0                           | 78.2                    | 73.1  | 68.0  | 54.6  | 48.5 | 38.8 | 80.9                              | 5.7                           | 80.8                    | 73.1  | 65.5  | 53.8 | 45.8 | 35.9 |
| 2250                   | 77      | 123.2                                | 5.3                           | 64.2                    | 52.0  | 39.9  | -     | -    | -    | 113.9                             | 6.0                           | 61.3                    | 49.1  | 36.8  | -    | -    | -    |
|                        | 72      | 110.9                                | 5.2                           | 74.9                    | 63.2  | 51.4  | 39.7  | -    | -    | 103.2                             | 5.9                           | 72.0                    | 60.3  | 48.7  | 37.1 | -    | -    |
|                        | 67      | 98.6                                 | 5.1                           | 85.6                    | 74.3  | 63.0  | 51.3  | 39.9 | -    | 92.4                              | 5.8                           | 82.6                    | 71.6  | 60.6  | 48.8 | 37.1 | -    |
|                        | 62      | 90.5                                 | 5.1                           | 85.6                    | 80.1  | 74.6  | 60.2  | 51.7 | 40.3 | 86.5                              | 5.8                           | 86.4                    | 79.5  | 72.5  | 59.1 | 48.8 | 36.9 |
|                        | 57      | 82.4                                 | 5.0                           | 82.4                    | 82.4  | 82.4  | 74.9  | 63.6 | 52.3 | 80.7                              | 5.7                           | 80.7                    | 80.7  | 80.7  | 72.4 | 60.4 | 48.5 |
| 2625                   | 77      | 126.3                                | 5.3                           | 71.0                    | 56.5  | 41.9  | -     | -    | -    | 115.6                             | 6.0                           | 68.7                    | 53.4  | 38.0  | -    | -    | -    |
|                        | 72      | 114.1                                | 5.2                           | 82.3                    | 68.7  | 55.0  | 41.3  | -    | -    | 105.9                             | 5.9                           | 79.1                    | 65.4  | 51.8  | 38.2 | -    | -    |
|                        | 67      | 102.0                                | 5.2                           | 93.6                    | 80.9  | 68.1  | 54.6  | 41.3 | -    | 96.2                              | 5.8                           | 89.4                    | 77.5  | 65.6  | 51.8 | 38.1 | -    |
|                        | 62      | 96.7                                 | 5.1                           | 93.1                    | 87.1  | 81.2  | 65.9  | 55.0 | 41.8 | 92.2                              | 5.8                           | 92.1                    | 85.8  | 79.4  | 64.5 | 51.7 | 37.9 |
|                        | 57      | 91.3                                 | 5.1                           | 91.3                    | 91.3  | 91.3  | 81.5  | 68.6 | 55.8 | 88.2                              | 5.8                           | 88.2                    | 88.2  | 88.2  | 79.3 | 65.3 | 51.4 |
| 3000                   | 77      | 129.3                                | 5.3                           | 77.8                    | 60.9  | 43.9  | -     | -    | -    | 117.3                             | 6.0                           | 76.1                    | 57.7  | 39.2  | -    | -    | -    |
|                        | 72      | 117.4                                | 5.2                           | 89.8                    | 74.2  | 58.6  | 42.9  | -    | -    | 108.6                             | 5.9                           | 86.2                    | 70.6  | 54.9  | 39.3 | -    | -    |
|                        | 67      | 105.5                                | 5.2                           | 101.7                   | 87.4  | 73.2  | 57.9  | 42.8 | -    | 99.9                              | 5.9                           | 96.3                    | 83.5  | 70.6  | 54.9 | 39.2 | -    |
|                        | 62      | 102.8                                | 5.2                           | 100.5                   | 94.2  | 87.8  | 71.5  | 58.2 | 43.4 | 97.9                              | 5.8                           | 97.8                    | 92.1  | 86.4  | 69.8 | 54.7 | 38.9 |
|                        | 57      | 100.2                                | 5.2                           | 99.4                    | 99.4  | 99.4  | 88.0  | 73.6 | 59.2 | 95.8                              | 5.8                           | 95.8                    | 95.8  | 95.8  | 86.2 | 70.2 | 54.3 |
| 3375                   | 72      | 120.6                                | 5.3                           | 97.2                    | 79.6  | 62.1  | 44.6  | -    | -    | 111.3                             | 5.9                           | 93.3                    | 75.7  | 58.0  | 40.4 | -    | -    |
|                        | 67      | 108.9                                | 5.2                           | 108.9                   | 94.0  | 78.3  | 61.2  | 44.2 | -    | 103.7                             | 5.9                           | 103.1                   | 89.4  | 75.7  | 57.9 | 40.2 | -    |
|                        | 62      | 109.0                                | 5.2                           | 108.0                   | 101.2 | 94.4  | 77.2  | 61.4 | 44.9 | 103.5                             | 5.9                           | 103.5                   | 98.4  | 93.3  | 75.1 | 57.7 | 39.9 |
|                        | 57      | 109.0                                | 5.2                           | 106.2                   | 106.2 | 106.2 | 94.6  | 78.6 | 62.6 | 103.4                             | 5.9                           | 103.4                   | 103.4 | 103.4 | 93.0 | 75.1 | 57.2 |
| 3750                   | 72      | 123.9                                | 5.3                           | 104.6                   | 85.1  | 65.7  | 46.2  | -    | -    | 114.0                             | 6.0                           | 100.4                   | 80.8  | 61.2  | 41.5 | -    | -    |
|                        | 67      | 112.4                                | 5.2                           | 112.4                   | 100.5 | 83.3  | 64.5  | 45.7 | -    | 107.4                             | 5.9                           | 107.4                   | 95.4  | 80.7  | 61.0 | 41.3 | -    |
|                        | 62      | 115.2                                | 5.3                           | 115.4                   | 108.2 | 101.0 | 82.8  | 64.6 | 46.4 | 109.2                             | 5.9                           | 109.1                   | 104.7 | 100.3 | 80.5 | 60.6 | 40.8 |
|                        | 57      | 117.9                                | 5.3                           | 118.4                   | 115.9 | 118.4 | 101.1 | 83.6 | 66.0 | 111.0                             | 5.9                           | 110.9                   | 110.9 | 110.9 | 99.9 | 80.0 | 60.1 |
|                        |         | 95°F                                 |                               |                         |       |       |       |      |      | 105°F                             |                               |                         |       |       |      |      |      |
| 1875                   | 77      | 104.4                                | 6.6                           | 50.5                    | 42.0  | 33.4  | -     | -    | -    | 94.0                              | 8.1                           | 44.7                    | 37.1  | 29.5  | -    | -    | -    |
|                        | 72      | 93.3                                 | 6.5                           | 62.2                    | 52.7  | 43.3  | 33.8  | -    | -    | 85.1                              | 7.7                           | 58.5                    | 49.2  | 39.9  | 30.6 | -    | -    |
|                        | 67      | 82.2                                 | 6.5                           | 73.8                    | 63.5  | 53.2  | 43.4  | 33.7 | -    | 76.2                              | 7.4                           | 72.4                    | 61.3  | 50.3  | 40.4 | 30.6 | -    |
|                        | 62      | 77.4                                 | 6.4                           | 77.4                    | 73.2  | 63.0  | 53.1  | 43.1 | 33.1 | 73.8                              | 7.4                           | 73.8                    | 69.0  | 60.6  | 50.3 | 40.0 | 29.7 |
| 2250                   | 77      | 104.7                                | 6.6                           | 58.5                    | 46.1  | 33.8  | -     | -    | -    | 97.7                              | 7.6                           | 55.1                    | 42.9  | 30.7  | -    | -    | -    |
|                        | 72      | 95.5                                 | 6.6                           | 69.0                    | 57.5  | 45.9  | 34.4  | -    | -    | 88.9                              | 7.5                           | 66.0                    | 54.5  | 42.9  | 31.3 | -    | -    |
|                        | 67      | 86.3                                 | 6.5                           | 79.5                    | 68.8  | 58.1  | 46.2  | 34.4 | -    | 80.1                              | 7.5                           | 77.0                    | 66.0  | 55.0  | 43.1 | 31.1 | -    |
|                        | 62      | 82.6                                 | 6.5                           | 82.6                    | 78.8  | 70.3  | 58.1  | 45.8 | 33.5 | 78.3                              | 7.4                           | 78.3                    | 74.1  | 67.2  | 54.8 | 42.5 | 30.2 |
|                        | 57      | 78.9                                 | 6.4                           | 78.9                    | 78.9  | 78.9  | 69.9  | 57.3 | 44.6 | 76.5                              | 7.4                           | 76.5                    | 76.5  | 76.5  | 66.6 | 53.9 | 41.2 |
| 2625                   | 77      | 105.0                                | 6.6                           | 66.4                    | 50.3  | 34.1  | -     | -    | -    | 101.4                             | 7.1                           | 65.4                    | 48.7  | 31.9  | -    | -    | -    |
|                        | 72      | 97.7                                 | 6.6                           | 75.8                    | 62.2  | 48.6  | 35.0  | -    | -    | 92.7                              | 7.3                           | 73.5                    | 59.7  | 45.9  | 32.0 | -    | -    |
|                        | 67      | 90.3                                 | 6.5                           | 85.2                    | 74.2  | 63.1  | 49.0  | 35.0 | -    | 83.9                              | 7.5                           | 81.6                    | 70.7  | 59.8  | 45.7 | 31.6 | -    |
|                        | 62      | 87.8                                 | 6.5                           | 87.8                    | 84.4  | 77.6  | 63.1  | 48.5 | 34.0 | 82.8                              | 7.5                           | 82.8                    | 79.2  | 73.7  | 59.4 | 45.0 | 30.7 |
|                        | 57      | 85.2                                 | 6.5                           | 85.2                    | 85.2  | 85.2  | 77.1  | 62.1 | 47.0 | 81.6                              | 7.4                           | 81.6                    | 81.6  | 81.6  | 73.0 | 58.4 | 43.8 |
| 3000                   | 77      | 105.3                                | 6.6                           | 74.4                    | 54.4  | 34.5  | -     | -    | -    | 105.1                             | 6.6                           | 75.8                    | 54.5  | 33.1  | -    | -    | -    |
|                        | 72      | 99.8                                 | 6.6                           | 82.6                    | 67.0  | 51.3  | 35.6  | -    | -    | 96.4                              | 7.1                           | 81.0                    | 64.9  | 48.8  | 32.8 | -    | -    |
|                        | 67      | 94.4                                 | 6.6                           | 90.9                    | 79.5  | 68.1  | 51.9  | 35.6 | -    | 87.8                              | 7.5                           | 86.2                    | 75.4  | 64.6  | 48.3 | 32.1 | -    |
|                        | 62      | 92.9                                 | 6.5                           | 92.9                    | 90.0  | 84.9  | 68.1  | 51.2 | 34.4 | 87.2                              | 7.5                           | 87.2                    | 84.4  | 80.3  | 63.9 | 47.6 | 31.2 |
|                        | 57      | 91.5                                 | 6.5                           | 91.5                    | 91.5  | 91.5  | 84.3  | 66.9 | 49.4 | 86.7                              | 7.5                           | 86.7                    | 86.7  | 86.7  | 79.5 | 63.0 | 46.5 |
| 3375                   | 72      | 102.0                                | 6.6                           | 89.5                    | 71.7  | 54.0  | 36.2  | -    | -    | 100.2                             | 6.8                           | 88.5                    | 70.1  | 51.8  | 33.5 | -    | -    |
|                        | 67      | 98.4                                 | 6.6                           | 96.6                    | 84.9  | 73.1  | 54.7  | 36.2 | -    | 91.6                              | 7.5                           | 90.8                    | 80.1  | 69.3  | 51.0 | 32.7 | -    |
|                        | 62      | 98.1                                 | 6.6                           | 98.1                    | 95.6  | 92.2  | 73.1  | 54.0 | 34.8 | 91.7                              | 7.5                           | 91.7                    | 89.5  | 86.8  | 68.5 | 50.1 | 31.7 |
|                        | 57      | 97.8                                 | 6.6                           | 97.8                    | 97.8  | 97.8  | 91.5  | 71.7 | 51.9 | 91.8                              | 7.5                           | 91.8                    | 91.8  | 91.8  | 85.9 | 67.5 | 49.2 |
| 3750                   | 72      | 104.2                                | 6.6                           | 96.3                    | 76.5  | 56.6  | 36.8  | -    | -    | 104.0                             | 6.6                           | 95.9                    | 75.4  | 54.8  | 34.3 | -    | -    |
|                        | 67      | 102.5                                | 6.6                           | 102.3                   | 90.2  | 78.1  | 57.5  | 36.8 | -    | 95.5                              | 7.6                           | 95.4                    | 84.7  | 74.1  | 53.6 | 33.2 | -    |
|                        | 62      | 103.3                                | 6.6                           | 102.9                   | 101.2 | 99.5  | 78.1  | 56.7 | 35.2 | 96.2                              | 7.6                           | 95.8                    | 94.6  | 93.4  | 73.0 | 52.6 | 32.3 |
|                        | 57      | 104.0                                | 6.6                           | 103.4                   | 103.4 | 103.4 | 98.7  | 76.5 | 54.3 | 97.0                              | 7.6                           | 96.3                    | 96.3  | 96.3  | 92.4 | 72.1 | 51.8 |

**ZB090 (7.5 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      | 125°F                             |                               |                         |      |      |      |      |      |
| 1875                   | 77      | 83.7                                 | 9.5                           | 38.9                    | 32.3 | 25.7 | -    | -    | -    | 73.4                              | 10.9                          | 33.1                    | 27.5 | 21.8 | -    | -    | -    |
|                        | 72      | 77.0                                 | 8.9                           | 54.9                    | 45.7 | 36.5 | 27.3 | -    | -    | 68.8                              | 10.1                          | 51.3                    | 42.2 | 33.1 | 24.1 | -    | -    |
|                        | 67      | 70.3                                 | 8.4                           | 70.3                    | 59.1 | 47.4 | 37.4 | 27.5 | -    | 64.3                              | 9.4                           | 69.4                    | 57.0 | 44.5 | 34.4 | 24.4 | -    |
|                        | 62      | 70.1                                 | 8.4                           | 70.1                    | 64.8 | 58.2 | 47.5 | 36.9 | 26.2 | 66.5                              | 9.4                           | 65.4                    | 60.6 | 55.8 | 44.8 | 33.7 | 22.7 |
| 2250                   | 77      | 90.8                                 | 8.5                           | 51.7                    | 39.7 | 27.7 | -    | -    | -    | 83.8                              | 9.5                           | 48.3                    | 36.5 | 24.7 | -    | -    | -    |
|                        | 72      | 82.3                                 | 8.5                           | 63.1                    | 51.4 | 39.8 | 28.2 | -    | -    | 75.8                              | 9.4                           | 60.1                    | 48.4 | 36.7 | 25.1 | -    | -    |
|                        | 67      | 73.9                                 | 8.4                           | 73.9                    | 63.2 | 51.9 | 39.9 | 27.9 | -    | 67.7                              | 9.4                           | 71.9                    | 60.3 | 48.8 | 36.7 | 24.7 | -    |
|                        | 62      | 73.9                                 | 8.4                           | 73.9                    | 69.4 | 64.0 | 51.6 | 39.2 | 26.8 | 69.6                              | 9.4                           | 68.7                    | 64.8 | 60.8 | 48.4 | 35.9 | 23.4 |
|                        | 57      | 74.0                                 | 8.4                           | 74.0                    | 74.0 | 74.0 | 63.3 | 50.5 | 37.7 | 71.5                              | 9.4                           | 65.5                    | 65.5 | 65.5 | 60.0 | 47.2 | 34.3 |
| 2625                   | 77      | 97.8                                 | 7.6                           | 64.5                    | 47.1 | 29.8 | -    | -    | -    | 94.3                              | 8.0                           | 63.5                    | 45.5 | 27.6 | -    | -    | -    |
|                        | 72      | 87.7                                 | 8.0                           | 71.2                    | 57.1 | 43.1 | 29.1 | -    | -    | 82.7                              | 8.7                           | 68.9                    | 54.6 | 40.3 | 26.1 | -    | -    |
|                        | 67      | 77.5                                 | 8.5                           | 77.5                    | 67.2 | 56.5 | 42.4 | 28.3 | -    | 71.1                              | 9.4                           | 74.3                    | 63.7 | 53.1 | 39.0 | 24.9 | -    |
|                        | 62      | 77.7                                 | 8.4                           | 77.7                    | 74.1 | 69.8 | 55.7 | 41.6 | 27.4 | 72.7                              | 9.4                           | 72.0                    | 68.9 | 65.9 | 52.0 | 38.1 | 24.2 |
|                        | 57      | 78.0                                 | 8.4                           | 78.0                    | 78.0 | 78.0 | 69.0 | 54.8 | 40.7 | 74.3                              | 9.4                           | 69.7                    | 69.7 | 69.7 | 64.9 | 51.2 | 37.5 |
| 3000                   | 77      | 104.9                                | 6.6                           | 77.2                    | 54.5 | 31.8 | -    | -    | -    | 104.7                             | 6.6                           | 78.7                    | 54.6 | 30.5 | -    | -    | -    |
|                        | 72      | 93.0                                 | 7.5                           | 79.3                    | 62.9 | 46.4 | 29.9 | -    | -    | 89.6                              | 8.0                           | 77.7                    | 60.8 | 44.0 | 27.1 | -    | -    |
|                        | 67      | 81.1                                 | 8.5                           | 81.1                    | 71.2 | 61.0 | 44.8 | 28.7 | -    | 74.5                              | 9.4                           | 76.7                    | 67.1 | 57.4 | 41.3 | 25.2 | -    |
|                        | 62      | 81.5                                 | 8.5                           | 81.5                    | 78.7 | 75.6 | 59.8 | 43.9 | 28.0 | 75.8                              | 9.4                           | 75.2                    | 73.1 | 70.9 | 55.6 | 40.2 | 24.9 |
|                        | 57      | 81.9                                 | 8.5                           | 81.9                    | 81.9 | 81.9 | 74.7 | 59.1 | 43.6 | 77.2                              | 9.4                           | 73.8                    | 73.8 | 73.8 | 69.8 | 55.2 | 40.6 |
| 3375                   | 72      | 98.4                                 | 7.1                           | 87.5                    | 68.6 | 49.7 | 30.8 | -    | -    | 96.5                              | 7.3                           | 86.5                    | 67.0 | 47.6 | 28.1 | -    | -    |
|                        | 67      | 84.8                                 | 8.5                           | 84.8                    | 75.3 | 65.6 | 47.3 | 29.1 | -    | 77.9                              | 9.5                           | 79.1                    | 70.4 | 61.8 | 43.7 | 25.5 | -    |
|                        | 62      | 85.3                                 | 8.5                           | 85.3                    | 83.4 | 81.4 | 63.8 | 46.2 | 28.7 | 79.0                              | 9.5                           | 78.5                    | 77.3 | 76.0 | 59.2 | 42.4 | 25.6 |
|                        | 57      | 85.9                                 | 8.5                           | 85.7                    | 85.7 | 85.7 | 80.3 | 63.4 | 46.5 | 80.0                              | 9.4                           | 77.9                    | 77.9 | 77.9 | 74.7 | 59.3 | 43.8 |
| 3750                   | 72      | 103.7                                | 6.6                           | 95.6                    | 74.3 | 53.0 | 31.7 | -    | -    | 103.5                             | 6.6                           | 95.3                    | 73.2 | 51.2 | 29.1 | -    | -    |
|                        | 67      | 88.4                                 | 8.5                           | 88.4                    | 79.3 | 70.1 | 49.8 | 29.5 | -    | 81.4                              | 9.5                           | 81.5                    | 73.8 | 66.1 | 46.0 | 25.8 | -    |
|                        | 62      | 89.2                                 | 8.5                           | 88.8                    | 88.0 | 87.2 | 67.9 | 48.6 | 29.3 | 82.1                              | 9.5                           | 81.8                    | 81.4 | 81.0 | 62.8 | 44.6 | 26.3 |
|                        | 57      | 89.9                                 | 8.5                           | 89.2                    | 89.2 | 89.2 | 86.0 | 67.7 | 49.4 | 82.8                              | 9.5                           | 82.0                    | 82.0 | 82.0 | 79.6 | 63.3 | 47.0 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



**ZB102 (8.5 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |      |      |                                   |                               |                         |       |       |       |      |      |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|-------|------|------|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |      |      |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |      |      |                                   |                               | Return dry bulb (°F)    |       |       |       |      |      |  |  |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70   | 65   |                                   |                               | 90                      | 85    | 80    | 75    | 70   | 65   |  |  |
|                        |         | 75°F                                 |                               |                         |       |       |       |      |      |                                   | 85°F                          |                         |       |       |       |      |      |  |  |
| 2125                   | 77      | 131.0                                | 5.6                           | 64.4                    | 54.3  | 44.3  | -     | -    | -    | 123.8                             | 6.2                           | 59.5                    | 50.6  | 41.7  | -     | -    | -    |  |  |
|                        | 72      | 118.2                                | 5.5                           | 78.0                    | 66.7  | 55.4  | 44.1  | -    | -    | 112.1                             | 6.2                           | 75.0                    | 64.0  | 52.9  | 41.9  | -    | -    |  |  |
|                        | 67      | 105.4                                | 5.4                           | 91.6                    | 79.0  | 66.5  | 54.7  | 44.1 | -    | 100.4                             | 6.1                           | 90.5                    | 77.3  | 64.2  | 52.7  | 41.8 | -    |  |  |
|                        | 62      | 100.9                                | 5.4                           | 54.6                    | 54.6  | 54.6  | 38.0  | 54.6 | 44.2 | 97.5                              | 6.0                           | 91.5                    | 83.4  | 75.4  | 61.5  | 52.6 | 41.1 |  |  |
| 2550                   | 77      | 131.9                                | 5.6                           | 74.2                    | 59.8  | 45.4  | -     | -    | -    | 124.1                             | 6.3                           | 70.1                    | 56.3  | 42.5  | -     | -    | -    |  |  |
|                        | 72      | 121.0                                | 5.5                           | 86.2                    | 72.6  | 59.1  | 45.5  | -    | -    | 114.5                             | 6.2                           | 83.1                    | 69.7  | 56.3  | 42.9  | -    | -    |  |  |
|                        | 67      | 110.0                                | 5.4                           | 98.3                    | 85.5  | 72.7  | 58.6  | 45.3 | -    | 104.8                             | 6.1                           | 96.2                    | 83.1  | 70.1  | 56.2  | 42.8 | -    |  |  |
|                        | 62      | 106.5                                | 5.4                           | 98.3                    | 92.3  | 86.4  | 41.0  | 58.8 | 45.1 | 102.6                             | 6.1                           | 97.0                    | 90.4  | 83.9  | 68.0  | 56.1 | 42.2 |  |  |
|                        | 57      | 103.0                                | 5.4                           | 98.3                    | 98.3  | 98.3  | 86.2  | 72.3 | 58.5 | 100.3                             | 6.0                           | 97.8                    | 97.7  | 97.7  | 83.6  | 69.4 | 55.3 |  |  |
| 2975                   | 77      | 132.8                                | 5.6                           | 84.1                    | 65.3  | 46.5  | -     | -    | -    | 124.4                             | 6.3                           | 80.7                    | 62.0  | 43.2  | -     | -    | -    |  |  |
|                        | 72      | 123.7                                | 5.5                           | 94.5                    | 78.6  | 62.7  | 46.8  | -    | -    | 116.8                             | 6.2                           | 91.3                    | 75.5  | 59.6  | 43.8  | -    | -    |  |  |
|                        | 67      | 114.7                                | 5.5                           | 104.9                   | 91.9  | 78.9  | 62.4  | 46.6 | -    | 109.2                             | 6.1                           | 101.9                   | 88.9  | 76.0  | 59.7  | 43.8 | -    |  |  |
|                        | 62      | 112.1                                | 5.4                           | 104.9                   | 100.0 | 95.1  | 75.8  | 62.3 | 46.0 | 107.6                             | 6.1                           | 102.4                   | 97.4  | 92.4  | 74.5  | 59.6 | 43.2 |  |  |
|                        | 57      | 109.5                                | 5.4                           | 104.8                   | 104.8 | 104.8 | 94.7  | 78.1 | 61.4 | 105.9                             | 6.1                           | 103.0                   | 103.0 | 103.0 | 92.1  | 75.4 | 58.8 |  |  |
| 3400                   | 77      | 133.7                                | 5.6                           | 93.9                    | 70.7  | 47.6  | -     | -    | -    | 124.8                             | 6.3                           | 91.4                    | 67.7  | 44.0  | -     | -    | -    |  |  |
|                        | 72      | 126.5                                | 5.6                           | 102.8                   | 84.6  | 66.3  | 48.1  | -    | -    | 119.2                             | 6.2                           | 99.5                    | 81.2  | 63.0  | 44.7  | -    | -    |  |  |
|                        | 67      | 119.4                                | 5.5                           | 111.6                   | 98.4  | 85.1  | 66.3  | 47.9 | -    | 113.6                             | 6.2                           | 107.6                   | 94.8  | 81.9  | 63.3  | 44.8 | -    |  |  |
|                        | 62      | 117.7                                | 5.5                           | 111.5                   | 107.7 | 103.9 | 82.9  | 65.9 | 46.8 | 112.6                             | 6.2                           | 107.9                   | 104.4 | 100.9 | 81.0  | 63.1 | 44.3 |  |  |
|                        | 57      | 116.0                                | 5.5                           | 111.4                   | 111.4 | 111.4 | 103.2 | 83.8 | 64.4 | 111.6                             | 6.1                           | 108.3                   | 108.3 | 108.3 | 100.7 | 81.5 | 62.3 |  |  |
| 3825                   | 72      | 129.3                                | 5.6                           | 111.0                   | 90.5  | 70.0  | 49.5  | -    | -    | 121.6                             | 6.2                           | 107.6                   | 87.0  | 66.3  | 45.6  | -    | -    |  |  |
|                        | 67      | 124.1                                | 5.5                           | 118.3                   | 104.8 | 91.3  | 70.1  | 49.1 | -    | 118.0                             | 6.2                           | 113.3                   | 100.6 | 87.9  | 66.8  | 45.8 | -    |  |  |
|                        | 62      | 123.3                                | 5.5                           | 118.1                   | 115.4 | 112.6 | 90.0  | 69.4 | 47.7 | 117.6                             | 6.2                           | 113.4                   | 111.4 | 109.4 | 87.6  | 66.7 | 45.3 |  |  |
|                        | 57      | 122.5                                | 5.5                           | 117.9                   | 117.9 | 117.9 | 111.8 | 89.6 | 67.4 | 117.2                             | 6.2                           | 113.5                   | 113.5 | 113.5 | 109.2 | 87.5 | 65.8 |  |  |
| 4250                   | 72      | 132.1                                | 5.6                           | 119.3                   | 96.5  | 73.6  | 50.8  | -    | -    | 123.9                             | 6.3                           | 115.8                   | 92.7  | 69.6  | 46.6  | -    | -    |  |  |
|                        | 67      | 128.7                                | 5.6                           | 125.0                   | 111.2 | 97.5  | 74.0  | 50.4 | -    | 122.4                             | 6.2                           | 119.0                   | 106.4 | 93.8  | 70.3  | 46.8 | -    |  |  |
|                        | 62      | 128.9                                | 5.6                           | 69.7                    | 69.7  | 69.7  | 69.7  | 69.7 | 48.6 | 122.7                             | 6.2                           | 118.9                   | 118.4 | 117.9 | 94.1  | 70.2 | 46.3 |  |  |
|                        | 57      | 129.0                                | 5.6                           | 69.9                    | 69.9  | 69.9  | 69.9  | 69.9 | 69.9 | 122.9                             | 6.2                           | 68.4                    | 68.4  | 68.4  | 68.4  | 68.4 | 68.4 |  |  |
|                        |         | 95°F                                 |                               |                         |       |       |       |      |      |                                   | 105°F                         |                         |       |       |       |      |      |  |  |
| 2125                   | 77      | 116.5                                | 6.9                           | 54.5                    | 46.8  | 39.1  | -     | -    | -    | 108.5                             | 7.8                           | 53.9                    | 46.0  | 38.1  | -     | -    | -    |  |  |
|                        | 72      | 106.0                                | 6.8                           | 71.9                    | 61.2  | 50.5  | 39.8  | -    | -    | 98.9                              | 7.8                           | 70.5                    | 59.5  | 48.5  | 37.6  | -    | -    |  |  |
|                        | 67      | 95.5                                 | 6.7                           | 89.3                    | 75.6  | 61.8  | 50.6  | 39.4 | -    | 89.2                              | 7.7                           | 87.1                    | 73.0  | 59.0  | 47.7  | 36.5 | -    |  |  |
|                        | 62      | 94.1                                 | 6.7                           | 91.3                    | 82.3  | 73.2  | 61.5  | 49.8 | 38.1 | 88.9                              | 7.6                           | 86.4                    | 77.9  | 69.4  | 57.9  | 46.5 | 35.0 |  |  |
| 2550                   | 77      | 116.3                                | 6.9                           | 66.0                    | 52.8  | 39.6  | -     | -    | -    | 108.3                             | 7.8                           | 63.9                    | 50.5  | 37.2  | -     | -    | -    |  |  |
|                        | 72      | 108.0                                | 6.8                           | 80.0                    | 66.8  | 53.5  | 40.3  | -    | -    | 100.7                             | 7.8                           | 77.4                    | 64.1  | 50.8  | 37.6  | -    | -    |  |  |
|                        | 67      | 99.6                                 | 6.8                           | 94.1                    | 80.8  | 67.5  | 53.8  | 40.2 | -    | 93.2                              | 7.7                           | 90.8                    | 77.6  | 64.5  | 50.8  | 37.1 | -    |  |  |
|                        | 62      | 98.6                                 | 6.7                           | 95.7                    | 88.5  | 81.4  | 67.4  | 53.3 | 39.3 | 93.0                              | 7.7                           | 90.3                    | 84.2  | 78.1  | 64.0  | 50.0 | 35.9 |  |  |
|                        | 57      | 97.6                                 | 6.7                           | 97.2                    | 96.3  | 95.4  | 80.9  | 66.5 | 52.1 | 92.8                              | 7.6                           | 89.8                    | 89.8  | 89.8  | 77.2  | 62.8 | 48.3 |  |  |
| 2975                   | 77      | 116.1                                | 6.9                           | 77.4                    | 58.7  | 40.0  | -     | -    | -    | 108.0                             | 7.9                           | 73.9                    | 55.1  | 36.3  | -     | -    | -    |  |  |
|                        | 72      | 109.9                                | 6.9                           | 88.1                    | 72.3  | 56.6  | 40.8  | -    | -    | 102.6                             | 7.8                           | 84.2                    | 68.7  | 53.1  | 37.6  | -    | -    |  |  |
|                        | 67      | 103.8                                | 6.8                           | 98.8                    | 86.0  | 73.1  | 57.0  | 41.0 | -    | 97.2                              | 7.8                           | 94.5                    | 82.2  | 69.9  | 53.8  | 37.7 | -    |  |  |
|                        | 62      | 103.1                                | 6.8                           | 100.0                   | 94.8  | 89.7  | 73.3  | 56.9 | 40.5 | 97.1                              | 7.7                           | 94.2                    | 90.5  | 86.8  | 70.1  | 53.4 | 36.8 |  |  |
|                        | 57      | 102.4                                | 6.7                           | 101.2                   | 101.2 | 101.2 | 89.5  | 72.8 | 56.1 | 97.1                              | 7.7                           | 93.8                    | 93.8  | 93.8  | 86.4  | 69.1 | 51.9 |  |  |
| 3400                   | 77      | 115.8                                | 6.9                           | 88.8                    | 64.6  | 40.4  | -     | -    | -    | 107.8                             | 7.9                           | 84.0                    | 59.7  | 35.4  | -     | -    | -    |  |  |
|                        | 72      | 111.9                                | 6.9                           | 96.2                    | 77.9  | 59.6  | 41.3  | -    | -    | 104.5                             | 7.8                           | 91.1                    | 73.3  | 55.4  | 37.5  | -    | -    |  |  |
|                        | 67      | 107.9                                | 6.8                           | 103.5                   | 91.1  | 78.8  | 60.3  | 41.7 | -    | 101.1                             | 7.8                           | 98.3                    | 86.9  | 75.4  | 56.9  | 38.3 | -    |  |  |
|                        | 62      | 107.5                                | 6.8                           | 104.3                   | 101.1 | 98.0  | 79.2  | 60.4 | 41.7 | 101.2                             | 7.8                           | 98.0                    | 96.7  | 95.5  | 76.2  | 56.9 | 37.6 |  |  |
|                        | 57      | 107.2                                | 6.8                           | 105.2                   | 105.2 | 105.2 | 98.1  | 79.1 | 60.1 | 101.4                             | 7.7                           | 97.8                    | 97.8  | 97.8  | 95.5  | 75.5 | 55.5 |  |  |
| 3825                   | 72      | 113.8                                | 6.9                           | 104.2                   | 83.4  | 62.6  | 41.8  | -    | -    | 106.3                             | 7.9                           | 98.0                    | 77.9  | 57.7  | 37.5  | -    | -    |  |  |
|                        | 67      | 112.0                                | 6.9                           | 108.2                   | 96.3  | 84.4  | 63.5  | 42.5 | -    | 105.1                             | 7.8                           | 102.0                   | 91.5  | 80.9  | 59.9  | 38.9 | -    |  |  |
|                        | 62      | 112.0                                | 6.9                           | 108.7                   | 107.4 | 106.2 | 85.1  | 64.0 | 42.8 | 105.4                             | 7.8                           | 101.9                   | 101.9 | 101.9 | 82.3  | 60.4 | 38.5 |  |  |
|                        | 57      | 112.0                                | 6.9                           | 109.1                   | 109.1 | 109.1 | 106.7 | 85.4 | 64.2 | 105.6                             | 7.8                           | 101.8                   | 101.8 | 101.8 | 101.8 | 81.9 | 59.1 |  |  |
| 4250                   | 72      | 115.8                                | 6.9                           | 112.3                   | 89.0  | 65.7  | 42.3  | -    | -    | 108.2                             | 7.9                           | 104.9                   | 82.4  | 60.0  | 37.5  | -    | -    |  |  |
|                        | 67      | 116.2                                | 6.9                           | 112.9                   | 101.5 | 90.1  | 66.7  | 43.3 | -    | 109.1                             | 7.9                           | 105.7                   | 96.1  | 86.4  | 62.9  | 39.5 | -    |  |  |
|                        | 62      | 116.5                                | 6.9                           | 113.0                   | 113.0 | 113.0 | 91.0  | 67.5 | 44.0 | 109.5                             | 7.9                           | 105.8                   | 105.8 | 105.8 | 88.3  | 63.9 | 39.4 |  |  |
|                        | 57      | 116.8                                | 6.9                           | 113.1                   | 113.1 | 113.1 | 113.1 | 91.8 | 68.2 | 109.9                             | 7.9                           | 105.8                   | 105.8 | 105.8 | 105.8 | 88.2 | 62.7 |  |  |

**ZB102 (8.5 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 115°F                                |                               |                         |      |      |      |      |      | 125°F                             |                               |                         |      |      |      |      |      |
| 2125                   | 77      | 100.5                                | 8.8                           | 53.2                    | 45.1 | 37.0 | -    | -    | -    | 92.5                              | 9.7                           | 52.5                    | 44.2 | 36.0 | -    | -    | -    |
|                        | 72      | 91.7                                 | 8.7                           | 69.0                    | 57.8 | 46.6 | 35.4 | -    | -    | 84.6                              | 9.7                           | 67.5                    | 56.1 | 44.6 | 33.1 | -    | -    |
|                        | 67      | 82.9                                 | 8.7                           | 82.9                    | 70.5 | 56.1 | 44.9 | 33.6 | -    | 76.7                              | 9.7                           | 44.0                    | 44.0 | 44.0 | 42.0 | 30.8 | -    |
|                        | 62      | 83.6                                 | 8.6                           | 81.6                    | 73.6 | 65.6 | 54.4 | 43.2 | 31.9 | 78.3                              | 9.6                           | 76.7                    | 69.3 | 61.8 | 50.8 | 39.8 | 28.8 |
| 2550                   | 77      | 100.3                                | 8.8                           | 61.8                    | 48.3 | 34.8 | -    | -    | -    | 92.2                              | 9.7                           | 59.7                    | 46.1 | 32.4 | -    | -    | -    |
|                        | 72      | 93.5                                 | 8.8                           | 74.7                    | 61.4 | 48.1 | 34.8 | -    | -    | 86.3                              | 9.7                           | 72.0                    | 58.7 | 45.4 | 32.1 | -    | -    |
|                        | 67      | 86.7                                 | 8.7                           | 86.7                    | 74.5 | 61.4 | 47.7 | 34.1 | -    | 80.3                              | 9.7                           | 46.2                    | 46.2 | 46.2 | 44.7 | 31.0 | -    |
|                        | 62      | 87.4                                 | 8.7                           | 85.0                    | 79.8 | 74.7 | 60.6 | 46.6 | 32.5 | 81.7                              | 9.6                           | 79.6                    | 75.5 | 71.4 | 57.3 | 43.2 | 29.1 |
|                        | 57      | 88.0                                 | 8.6                           | 82.4                    | 82.4 | 82.4 | 73.6 | 59.1 | 44.6 | 83.2                              | 9.6                           | 46.4                    | 46.4 | 46.4 | 46.4 | 46.4 | 40.9 |
| 2975                   | 77      | 100.0                                | 8.8                           | 70.5                    | 51.5 | 32.6 | -    | -    | -    | 92.0                              | 9.7                           | 67.0                    | 47.9 | 28.9 | -    | -    | -    |
|                        | 72      | 95.3                                 | 8.8                           | 80.4                    | 65.0 | 49.7 | 34.3 | -    | -    | 88.0                              | 9.7                           | 76.5                    | 61.4 | 46.2 | 31.1 | -    | -    |
|                        | 67      | 90.6                                 | 8.8                           | 90.3                    | 78.5 | 66.8 | 50.6 | 34.5 | -    | 83.9                              | 9.7                           | 48.2                    | 48.2 | 48.2 | 47.4 | 31.2 | -    |
|                        | 62      | 91.2                                 | 8.7                           | 88.4                    | 86.1 | 83.8 | 66.9 | 50.0 | 33.0 | 85.2                              | 9.7                           | 82.5                    | 81.7 | 80.9 | 63.7 | 46.5 | 29.3 |
|                        | 57      | 91.8                                 | 8.7                           | 86.4                    | 86.4 | 86.4 | 83.2 | 65.5 | 47.8 | 86.4                              | 9.6                           | 48.4                    | 48.4 | 48.4 | 48.4 | 48.4 | 43.6 |
| 3400                   | 77      | 99.7                                 | 8.8                           | 79.1                    | 54.7 | 30.3 | -    | -    | -    | 91.7                              | 9.8                           | 74.2                    | 49.8 | 25.3 | -    | -    | -    |
|                        | 72      | 97.1                                 | 8.8                           | 86.1                    | 68.6 | 51.2 | 33.8 | -    | -    | 89.6                              | 9.8                           | 81.0                    | 64.0 | 47.0 | 30.0 | -    | -    |
|                        | 67      | 94.4                                 | 8.8                           | 93.1                    | 82.6 | 72.1 | 53.5 | 34.9 | -    | 87.6                              | 9.7                           | 50.2                    | 50.2 | 50.2 | 50.1 | 31.4 | -    |
|                        | 62      | 94.9                                 | 8.7                           | 91.8                    | 91.8 | 91.8 | 73.2 | 53.4 | 33.6 | 88.6                              | 9.7                           | 85.5                    | 85.5 | 85.5 | 70.1 | 49.8 | 29.5 |
|                        | 57      | 95.5                                 | 8.7                           | 90.5                    | 90.5 | 90.5 | 90.5 | 71.9 | 50.9 | 89.7                              | 9.7                           | 50.4                    | 50.4 | 50.4 | 50.4 | 50.4 | 46.3 |
| 3825                   | 72      | 98.8                                 | 8.8                           | 91.8                    | 72.3 | 52.8 | 33.3 | -    | -    | 91.3                              | 9.8                           | 85.5                    | 66.7 | 47.8 | 29.0 | -    | -    |
|                        | 67      | 98.2                                 | 8.8                           | 95.8                    | 86.6 | 77.4 | 56.3 | 35.3 | -    | 91.2                              | 9.8                           | 52.3                    | 52.3 | 52.3 | 52.3 | 31.7 | -    |
|                        | 62      | 98.7                                 | 8.8                           | 95.2                    | 95.2 | 95.2 | 79.4 | 56.8 | 34.1 | 92.1                              | 9.7                           | 88.4                    | 88.4 | 88.4 | 76.6 | 53.2 | 29.8 |
|                        | 57      | 99.3                                 | 8.8                           | 94.5                    | 94.5 | 94.5 | 94.5 | 78.3 | 54.1 | 92.9                              | 9.7                           | 52.5                    | 52.5 | 52.5 | 52.5 | 52.5 | 49.1 |
| 4250                   | 72      | 100.6                                | 8.8                           | 97.5                    | 75.9 | 54.3 | 32.7 | -    | -    | 93.0                              | 9.8                           | 90.1                    | 69.3 | 48.6 | 27.9 | -    | -    |
|                        | 67      | 102.0                                | 8.8                           | 98.6                    | 90.7 | 82.7 | 59.2 | 35.7 | -    | 94.9                              | 9.8                           | 91.4                    | 85.2 | 79.1 | 55.5 | -    | -    |
|                        | 62      | 102.5                                | 8.8                           | 98.6                    | 98.6 | 98.6 | 85.7 | 60.2 | 34.7 | 95.5                              | 9.8                           | 91.3                    | 91.3 | 91.3 | 83.0 | 56.5 | 30.0 |
|                        | 57      | 103.1                                | 8.8                           | 98.5                    | 98.5 | 98.5 | 98.5 | 84.7 | 57.3 | 96.2                              | 9.7                           | 91.3                    | 91.3 | 91.3 | 91.3 | 81.2 | 51.8 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**ZB120 (10 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |       |      |                                   |                               |                         |       |       |       |       |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|-------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|-------|-------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |       |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |       |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |       |      |                                   |                               | Return dry bulb (°F)    |       |       |       |       |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70    | 65   |                                   |                               | 90                      | 85    | 80    | 75    | 70    | 65   |
|                        |         | 75°F                                 |                               |                         |       |       |       |       |      | 85°F                              |                               |                         |       |       |       |       |      |
| 2500                   | 77      | 158.7                                | 9.8                           | 76.2                    | 65.5  | 54.8  | -     | -     | -    | 151.8                             | 11.0                          | 72.5                    | 61.5  | 50.6  | -     | -     | -    |
|                        | 72      | 144.2                                | 9.5                           | 93.1                    | 80.1  | 67.1  | 54.1  | -     | -    | 137.1                             | 10.8                          | 90.0                    | 76.7  | 63.4  | 50.1  | -     | -    |
|                        | 67      | 129.7                                | 9.3                           | 109.9                   | 94.6  | 79.3  | 66.4  | 53.9  | -    | 122.4                             | 10.7                          | 107.5                   | 91.9  | 76.3  | 63.1  | 50.0  | -    |
|                        | 62      | 122.9                                | 9.3                           | 110.0                   | 100.7 | 91.5  | 74.0  | 66.7  | 54.4 | 117.9                             | 10.6                          | 110.5                   | 99.8  | 89.1  | 73.6  | 63.2  | 50.2 |
| 3000                   | 77      | 160.3                                | 9.8                           | 86.6                    | 70.5  | 54.3  | -     | -     | -    | 152.6                             | 11.0                          | 83.6                    | 66.9  | 50.3  | -     | -     | -    |
|                        | 72      | 147.7                                | 9.6                           | 102.0                   | 86.2  | 70.4  | 54.5  | -     | -    | 140.1                             | 10.8                          | 98.8                    | 82.8  | 66.7  | 50.7  | -     | -    |
|                        | 67      | 135.1                                | 9.4                           | 117.4                   | 101.9 | 86.4  | 70.4  | 54.8  | -    | 127.6                             | 10.7                          | 114.0                   | 98.6  | 83.2  | 67.0  | 50.9  | -    |
|                        | 62      | 129.7                                | 9.4                           | 117.4                   | 109.9 | 102.4 | 82.5  | 70.8  | 55.1 | 123.7                             | 10.7                          | 116.4                   | 108.0 | 99.6  | 81.4  | 67.3  | 51.1 |
|                        | 57      | 124.3                                | 9.3                           | 117.4                   | 117.4 | 117.4 | 102.7 | 86.9  | 71.2 | 119.9                             | 10.6                          | 118.7                   | 117.4 | 116.1 | 99.8  | 83.6  | 67.4 |
| 3500                   | 77      | 161.9                                | 9.8                           | 97.0                    | 75.4  | 53.8  | -     | -     | -    | 153.5                             | 11.0                          | 94.8                    | 72.4  | 49.9  | -     | -     | -    |
|                        | 72      | 151.2                                | 9.6                           | 111.0                   | 92.3  | 73.6  | 55.0  | -     | -    | 143.1                             | 10.9                          | 107.6                   | 88.8  | 70.0  | 51.2  | -     | -    |
|                        | 67      | 140.4                                | 9.4                           | 124.9                   | 109.2 | 93.4  | 74.4  | 55.6  | -    | 132.7                             | 10.8                          | 120.4                   | 105.2 | 90.0  | 70.9  | 51.8  | -    |
|                        | 62      | 136.4                                | 9.4                           | 124.8                   | 119.0 | 113.3 | 91.0  | 75.0  | 55.8 | 129.6                             | 10.7                          | 122.2                   | 116.1 | 110.1 | 89.2  | 71.3  | 51.9 |
|                        | 57      | 132.4                                | 9.4                           | 124.7                   | 124.7 | 124.7 | 113.7 | 94.3  | 74.9 | 126.6                             | 10.7                          | 123.9                   | 123.9 | 123.9 | 110.5 | 90.8  | 71.1 |
| 4000                   | 77      | 163.6                                | 9.8                           | 107.5                   | 80.4  | 53.3  | -     | -     | -    | 154.4                             | 11.0                          | 105.9                   | 77.8  | 49.6  | -     | -     | -    |
|                        | 72      | 154.7                                | 9.6                           | 120.0                   | 98.5  | 76.9  | 55.4  | -     | -    | 146.1                             | 10.9                          | 116.4                   | 94.8  | 73.3  | 51.7  | -     | -    |
|                        | 67      | 145.8                                | 9.5                           | 132.4                   | 116.5 | 100.5 | 78.5  | 56.5  | -    | 137.8                             | 10.8                          | 126.9                   | 111.9 | 96.9  | 74.8  | 52.7  | -    |
|                        | 62      | 143.2                                | 9.5                           | 132.3                   | 128.2 | 124.1 | 99.5  | 79.1  | 56.5 | 135.5                             | 10.8                          | 128.0                   | 124.3 | 120.5 | 96.9  | 75.4  | 52.8 |
|                        | 57      | 140.5                                | 9.5                           | 132.1                   | 132.1 | 132.1 | 124.7 | 101.6 | 78.6 | 133.2                             | 10.8                          | 129.0                   | 129.0 | 129.0 | 121.1 | 98.0  | 74.9 |
| 4500                   | 72      | 158.2                                | 9.7                           | 128.9                   | 104.6 | 80.2  | 55.9  | -     | -    | 149.1                             | 10.9                          | 125.2                   | 100.9 | 76.5  | 52.2  | -     | -    |
|                        | 67      | 151.2                                | 9.6                           | 140.0                   | 123.8 | 107.6 | 82.5  | 57.4  | -    | 143.0                             | 10.9                          | 133.4                   | 118.6 | 103.8 | 78.7  | 53.7  | -    |
|                        | 62      | 149.9                                | 9.6                           | 139.7                   | 137.4 | 135.0 | 108.1 | 83.2  | 57.3 | 141.4                             | 10.9                          | 133.8                   | 132.4 | 131.0 | 104.7 | 79.4  | 53.7 |
|                        | 57      | 148.6                                | 9.6                           | 139.4                   | 139.4 | 139.4 | 135.7 | 109.0 | 82.3 | 139.9                             | 10.9                          | 134.2                   | 134.2 | 134.2 | 131.8 | 105.2 | 78.7 |
| 5000                   | 72      | 161.7                                | 9.7                           | 137.9                   | 110.7 | 83.5  | 56.4  | -     | -    | 152.1                             | 10.9                          | 134.0                   | 106.9 | 79.8  | 52.7  | -     | -    |
|                        | 67      | 156.6                                | 9.7                           | 147.5                   | 131.1 | 114.7 | 86.5  | 58.2  | -    | 148.1                             | 10.9                          | 139.9                   | 125.3 | 110.7 | 82.6  | 54.6  | -    |
|                        | 62      | 156.6                                | 9.7                           | 147.1                   | 146.5 | 145.9 | 116.6 | 87.3  | 58.0 | 147.3                             | 10.9                          | 139.6                   | 139.6 | 139.6 | 112.5 | 83.5  | 54.5 |
|                        | 57      | 156.7                                | 9.7                           | 146.7                   | 146.7 | 146.7 | 146.7 | 116.3 | 86.0 | 146.6                             | 10.9                          | 139.3                   | 139.3 | 139.3 | 139.3 | 112.5 | 82.5 |
|                        |         | 95°F                                 |                               |                         |       |       |       |       |      | 105°F                             |                               |                         |       |       |       |       |      |
| 2500                   | 77      | 144.8                                | 12.2                          | 68.8                    | 57.6  | 46.3  | -     | -     | -    | 135.0                             | 13.9                          | 66.4                    | 55.3  | 44.1  | -     | -     | -    |
|                        | 72      | 130.0                                | 12.1                          | 87.0                    | 73.4  | 59.8  | 46.2  | -     | -    | 121.2                             | 13.9                          | 84.3                    | 70.6  | 56.8  | 43.1  | -     | -    |
|                        | 67      | 115.2                                | 12.0                          | 105.1                   | 89.2  | 73.3  | 59.7  | 46.2  | -    | 107.3                             | 13.9                          | 102.2                   | 85.9  | 69.6  | 56.1  | 42.7  | -    |
|                        | 62      | 112.8                                | 12.0                          | 111.1                   | 98.9  | 86.8  | 73.2  | 59.7  | 46.1 | 106.5                             | 13.8                          | 104.6                   | 93.4  | 82.3  | 69.2  | 56.1  | 43.0 |
| 3000                   | 77      | 145.0                                | 12.2                          | 80.6                    | 63.4  | 46.2  | -     | -     | -    | 134.9                             | 13.9                          | 77.3                    | 60.0  | 42.8  | -     | -     | -    |
|                        | 72      | 132.5                                | 12.1                          | 95.6                    | 79.3  | 63.1  | 46.8  | -     | -    | 123.5                             | 13.9                          | 91.8                    | 75.6  | 59.4  | 43.1  | -     | -    |
|                        | 67      | 120.1                                | 12.1                          | 110.5                   | 95.2  | 80.0  | 63.5  | 47.1  | -    | 112.1                             | 13.9                          | 106.4                   | 91.2  | 76.0  | 59.7  | 43.4  | -    |
|                        | 62      | 117.8                                | 12.0                          | 115.3                   | 106.1 | 96.8  | 80.3  | 63.7  | 47.1 | 111.3                             | 13.8                          | 108.4                   | 100.5 | 92.5  | 76.2  | 60.0  | 43.7 |
|                        | 57      | 115.6                                | 11.9                          | 115.6                   | 115.6 | 113.7 | 97.0  | 80.2  | 63.5 | 110.4                             | 13.8                          | 110.3                   | 109.7 | 109.1 | 92.8  | 76.5  | 60.2 |
| 3500                   | 77      | 145.1                                | 12.2                          | 92.5                    | 69.3  | 46.0  | -     | -     | -    | 134.8                             | 14.0                          | 88.1                    | 64.8  | 41.5  | -     | -     | -    |
|                        | 72      | 135.1                                | 12.1                          | 104.2                   | 85.3  | 66.3  | 47.4  | -     | -    | 125.9                             | 13.9                          | 99.4                    | 80.7  | 61.9  | 43.2  | -     | -    |
|                        | 67      | 125.0                                | 12.1                          | 116.0                   | 101.3 | 86.6  | 67.3  | 48.0  | -    | 116.9                             | 13.9                          | 110.7                   | 96.5  | 82.4  | 63.3  | 44.1  | -    |
|                        | 62      | 122.9                                | 12.0                          | 119.5                   | 113.2 | 106.9 | 87.3  | 67.7  | 48.1 | 116.0                             | 13.9                          | 112.1                   | 107.5 | 102.8 | 83.3  | 63.8  | 44.3 |
|                        | 57      | 120.8                                | 12.0                          | 120.8                   | 120.8 | 120.8 | 107.3 | 87.3  | 67.4 | 115.1                             | 13.8                          | 113.6                   | 113.6 | 113.6 | 103.4 | 83.5  | 63.6 |
| 4000                   | 77      | 145.3                                | 12.2                          | 104.3                   | 75.1  | 45.9  | -     | -     | -    | 134.7                             | 14.0                          | 98.9                    | 69.6  | 40.2  | -     | -     | -    |
|                        | 72      | 137.6                                | 12.1                          | 112.9                   | 91.2  | 69.6  | 47.9  | -     | -    | 128.2                             | 14.0                          | 106.9                   | 85.7  | 64.5  | 43.2  | -     | -    |
|                        | 67      | 129.9                                | 12.1                          | 121.4                   | 107.3 | 93.3  | 71.1  | 49.0  | -    | 121.7                             | 14.0                          | 114.9                   | 101.9 | 88.8  | 66.8  | 44.9  | -    |
|                        | 62      | 127.9                                | 12.1                          | 123.7                   | 120.3 | 117.0 | 94.3  | 71.7  | 49.1 | 120.8                             | 13.9                          | 115.9                   | 114.5 | 113.1 | 90.4  | 67.7  | 45.0 |
|                        | 57      | 126.0                                | 12.1                          | 126.0                   | 126.0 | 126.0 | 117.5 | 94.4  | 71.3 | 119.9                             | 13.9                          | 116.9                   | 116.9 | 116.9 | 114.0 | 90.6  | 67.1 |
| 4500                   | 72      | 140.1                                | 12.2                          | 121.5                   | 97.2  | 72.8  | 48.5  | -     | -    | 130.5                             | 14.0                          | 114.5                   | 90.8  | 67.0  | 43.3  | -     | -    |
|                        | 67      | 134.7                                | 12.1                          | 126.8                   | 113.4 | 99.9  | 74.9  | 49.9  | -    | 126.5                             | 14.0                          | 119.2                   | 107.2 | 95.2  | 70.4  | 45.6  | -    |
|                        | 62      | 133.0                                | 12.1                          | 127.9                   | 127.4 | 127.0 | 101.4 | 75.7  | 50.1 | 125.6                             | 14.0                          | 119.7                   | 119.7 | 119.7 | 97.5  | 71.6  | 45.7 |
|                        | 57      | 131.2                                | 12.1                          | 128.9                   | 128.9 | 128.9 | 127.8 | 101.5 | 75.2 | 124.6                             | 13.9                          | 120.2                   | 120.2 | 120.2 | 120.2 | 97.6  | 70.6 |
| 5000                   | 72      | 142.6                                | 12.2                          | 130.1                   | 103.1 | 76.1  | 49.0  | -     | -    | 132.9                             | 14.1                          | 122.0                   | 95.8  | 69.6  | 43.3  | -     | -    |
|                        | 67      | 139.6                                | 12.2                          | 132.2                   | 119.4 | 106.6 | 78.7  | 50.9  | -    | 131.3                             | 14.0                          | 123.5                   | 112.5 | 101.6 | 73.9  | 46.3  | -    |
|                        | 62      | 138.0                                | 12.2                          | 132.1                   | 132.1 | 132.1 | 108.4 | 79.7  | 51.0 | 130.3                             | 14.0                          | 123.4                   | 123.4 | 123.4 | 104.5 | 75.5  | 46.4 |
|                        | 57      | 136.4                                | 12.2                          | 131.9                   | 131.9 | 131.9 | 131.9 | 108.6 | 79.1 | 129.4                             | 14.0                          | 123.4                   | 123.4 | 123.4 | 123.4 | 104.6 | 74.1 |

**ZB120 (10 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |       |      |                                   |                               |                         |       |       |       |      |      |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|-------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|-------|------|------|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |       |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |      |      |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |       |      |                                   |                               | Return dry bulb (°F)    |       |       |       |      |      |  |  |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70    | 65   |                                   |                               | 90                      | 85    | 80    | 75    | 70   | 65   |  |  |
|                        |         | 115°F                                |                               |                         |       |       |       |       |      |                                   | 125°F                         |                         |       |       |       |      |      |  |  |
| 2500                   | 77      | 125.2                                | 15.6                          | 64.1                    | 53.0  | 41.9  | -     | -     | -    | 115.4                             | 17.3                          | 61.7                    | 50.7  | 39.7  | -     | -    | -    |  |  |
|                        | 72      | 112.3                                | 15.7                          | 81.6                    | 67.7  | 53.9  | 40.0  | -     | -    | 103.5                             | 17.4                          | 79.0                    | 64.9  | 50.9  | 36.8  | -    | -    |  |  |
|                        | 67      | 99.5                                 | 15.7                          | 99.2                    | 82.5  | 65.8  | 52.5  | 39.3  | -    | 91.6                              | 17.6                          | 96.3                    | 79.2  | 62.1  | 48.9  | 35.8 | -    |  |  |
|                        | 62      | 100.2                                | 15.6                          | 98.1                    | 87.9  | 77.7  | 65.1  | 52.5  | 39.9 | 94.0                              | 17.5                          | 91.7                    | 82.4  | 73.2  | 61.1  | 48.9 | 36.8 |  |  |
| 3000                   | 77      | 124.8                                | 15.7                          | 73.9                    | 56.7  | 39.4  | -     | -     | -    | 114.7                             | 17.4                          | 70.5                    | 53.3  | 36.1  | -     | -    | -    |  |  |
|                        | 72      | 114.5                                | 15.7                          | 88.1                    | 71.9  | 55.7  | 39.5  | -     | -    | 105.5                             | 17.5                          | 84.4                    | 68.2  | 52.0  | 35.8  | -    | -    |  |  |
|                        | 67      | 104.2                                | 15.7                          | 102.3                   | 87.1  | 72.0  | 55.9  | 39.8  | -    | 96.2                              | 17.6                          | 98.2                    | 83.1  | 68.0  | 52.0  | 36.1 | -    |  |  |
|                        | 62      | 104.7                                | 15.7                          | 101.5                   | 94.9  | 88.2  | 72.2  | 56.2  | 40.2 | 98.2                              | 17.5                          | 94.6                    | 89.3  | 83.9  | 68.2  | 52.5 | 36.8 |  |  |
|                        | 57      | 105.3                                | 15.6                          | 100.7                   | 100.7 | 100.7 | 88.6  | 72.7  | 56.8 | 100.1                             | 17.4                          | 91.0                    | 91.0  | 91.0  | 84.4  | 68.9 | 53.5 |  |  |
| 3500                   | 77      | 124.5                                | 15.8                          | 83.7                    | 60.3  | 36.9  | -     | -     | -    | 114.1                             | 17.6                          | 79.3                    | 55.9  | 32.4  | -     | -    | -    |  |  |
|                        | 72      | 116.7                                | 15.8                          | 94.6                    | 76.0  | 57.5  | 39.0  | -     | -    | 107.5                             | 17.6                          | 89.7                    | 71.4  | 53.1  | 34.9  | -    | -    |  |  |
|                        | 67      | 108.9                                | 15.8                          | 105.4                   | 91.8  | 78.1  | 59.2  | 40.2  | -    | 100.8                             | 17.6                          | 100.1                   | 87.0  | 73.9  | 55.1  | 36.3 | -    |  |  |
|                        | 62      | 109.2                                | 15.7                          | 104.8                   | 101.8 | 98.7  | 79.3  | 60.0  | 40.6 | 102.3                             | 17.5                          | 97.5                    | 96.1  | 94.6  | 75.4  | 56.1 | 36.9 |  |  |
|                        | 57      | 109.5                                | 15.6                          | 104.2                   | 104.2 | 104.2 | 99.5  | 79.7  | 59.9 | 103.9                             | 17.5                          | 94.9                    | 94.9  | 94.9  | 94.9  | 75.9 | 56.2 |  |  |
| 4000                   | 77      | 124.1                                | 15.8                          | 93.5                    | 64.0  | 34.5  | -     | -     | -    | 113.5                             | 17.7                          | 88.2                    | -     | 28.8  | -     | -    | -    |  |  |
|                        | 72      | 118.8                                | 15.8                          | 101.0                   | 80.2  | 59.4  | 38.6  | -     | -    | 109.4                             | 17.7                          | 95.1                    | 74.7  | 54.3  | 33.9  | -    | -    |  |  |
|                        | 67      | 113.5                                | 15.8                          | 108.5                   | 96.4  | 84.3  | 62.5  | 40.7  | -    | 105.4                             | 17.6                          | 102.0                   | 90.9  | 79.8  | 58.2  | 36.6 | -    |  |  |
|                        | 62      | 113.7                                | 15.7                          | 108.2                   | 108.2 | 108.2 | 86.5  | 63.7  | 41.0 | 106.5                             | 17.6                          | 100.4                   | 100.4 | 100.4 | 82.5  | 59.7 | 36.9 |  |  |
|                        | 57      | 113.8                                | 15.7                          | 107.8                   | 107.8 | 107.8 | 107.8 | 86.7  | 63.0 | 107.7                             | 17.5                          | 98.8                    | 98.8  | 98.8  | 98.8  | 82.9 | 58.9 |  |  |
| 4500                   | 72      | 121.0                                | 15.9                          | 107.5                   | 84.3  | 61.2  | 38.1  | -     | -    | 111.4                             | 17.7                          | 100.5                   | 77.9  | 55.4  | 32.9  | -    | -    |  |  |
|                        | 67      | 118.2                                | 15.8                          | 111.6                   | 101.0 | 90.4  | 65.8  | 41.2  | -    | 110.0                             | 17.7                          | 104.0                   | 94.8  | 85.7  | 61.3  | 36.8 | -    |  |  |
|                        | 62      | 118.1                                | 15.8                          | 111.5                   | 111.5 | 111.5 | 93.6  | 67.5  | 41.3 | 110.7                             | 17.6                          | 103.3                   | 103.3 | 103.3 | 89.7  | 63.3 | 37.0 |  |  |
|                        | 57      | 118.0                                | 15.7                          | 111.4                   | 111.4 | 111.4 | 111.4 | 93.7  | 66.1 | 111.5                             | 17.6                          | 102.6                   | 102.6 | 102.6 | 102.6 | 89.8 | 61.6 |  |  |
| 5000                   | 72      | 123.1                                | 15.9                          | 113.9                   | 88.5  | 63.1  | 37.6  | -     | -    | 113.4                             | 17.8                          | 105.8                   | 81.2  | 56.6  | 31.9  | -    | -    |  |  |
|                        | 67      | 122.9                                | 15.8                          | 114.7                   | 105.6 | 96.6  | 69.1  | 41.7  | -    | 114.6                             | 17.7                          | 105.9                   | 98.8  | 91.6  | 64.4  | 37.1 | -    |  |  |
|                        | 62      | 122.6                                | 15.8                          | 114.8                   | 114.8 | 114.8 | 100.7 | 71.2  | 41.7 | 114.9                             | 17.6                          | 106.2                   | 106.2 | 106.2 | 96.8  | 66.9 | 37.0 |  |  |
|                        | 57      | 122.3                                | 15.8                          | 115.0                   | 115.0 | 115.0 | 115.0 | 100.7 | 69.2 | 115.3                             | 17.6                          | 106.5                   | 106.5 | 106.5 | 106.5 | 96.8 | 64.3 |  |  |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**ZB150 (12.5 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |       |      |                                   |                               |                         |       |       |       |       |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|-------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|-------|-------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |       |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |       |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |       |      |                                   |                               | Return dry bulb (°F)    |       |       |       |       |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70    | 65   |                                   |                               | 90                      | 85    | 80    | 75    | 70    | 65   |
|                        |         | 75°F                                 |                               |                         |       |       |       |       |      |                                   |                               | 85°F                    |       |       |       |       |      |
| 3313                   | 77      | 202.7                                | 8.3                           | 100.4                   | 84.4  | 68.4  | -     | -     | -    | 192.9                             | 6.9                           | 97.1                    | 75.4  | 53.8  | -     | -     | -    |
|                        | 72      | 184.6                                | 8.2                           | 121.0                   | 103.2 | 85.4  | 67.6  | -     | -    | 174.7                             | 6.8                           | 117.5                   | 96.8  | 76.1  | 55.4  | -     | -    |
|                        | 67      | 166.5                                | 8.1                           | 141.7                   | 122.1 | 102.4 | 84.9  | 67.2  | -    | 156.5                             | 6.7                           | 137.9                   | 118.1 | 98.3  | 77.9  | 57.3  | -    |
|                        | 62      | 158.3                                | 8.0                           | 141.4                   | 130.4 | 119.4 | 95.7  | 84.5  | 67.0 | 152.6                             | 6.7                           | 140.3                   | 130.5 | 120.6 | 97.2  | 80.0  | 59.8 |
| 3750                   | 77      | 205.3                                | 8.3                           | 107.6                   | 87.7  | 67.8  | -     | -     | -    | 191.9                             | 6.9                           | 103.3                   | 83.1  | 62.9  | -     | -     | -    |
|                        | 72      | 188.4                                | 8.2                           | 128.4                   | 108.3 | 88.1  | 67.9  | -     | -    | 176.9                             | 6.8                           | 124.0                   | 103.7 | 83.4  | 63.1  | -     | -    |
|                        | 67      | 171.6                                | 8.1                           | 149.2                   | 128.8 | 108.3 | 88.2  | 67.8  | -    | 161.8                             | 6.8                           | 144.7                   | 124.3 | 103.9 | 83.5  | 63.1  | -    |
|                        | 62      | 164.7                                | 8.1                           | 149.2                   | 138.9 | 128.6 | 103.2 | 87.9  | 67.6 | 158.5                             | 6.7                           | 146.8                   | 135.6 | 124.5 | 101.4 | 83.3  | 62.7 |
|                        | 57      | 157.7                                | 8.0                           | 149.2                   | 149.0 | 148.8 | 128.4 | 108.0 | 87.6 | 155.2                             | 6.7                           | 148.8                   | 146.9 | 145.0 | 124.3 | 103.6 | 82.8 |
| 4188                   | 77      | 207.9                                | 8.4                           | 114.9                   | 91.1  | 67.2  | -     | -     | -    | 191.0                             | 6.9                           | 109.4                   | 90.7  | 71.9  | -     | -     | -    |
|                        | 72      | 192.3                                | 8.3                           | 135.8                   | 113.3 | 90.7  | 68.1  | -     | -    | 179.0                             | 6.9                           | 130.5                   | 110.6 | 90.7  | 70.9  | -     | -    |
|                        | 67      | 176.7                                | 8.2                           | 156.8                   | 135.5 | 114.2 | 91.4  | 68.4  | -    | 167.1                             | 6.8                           | 151.6                   | 130.6 | 109.5 | 89.2  | 68.8  | -    |
|                        | 62      | 171.0                                | 8.1                           | 157.1                   | 147.4 | 137.7 | 110.7 | 91.3  | 68.1 | 164.4                             | 6.8                           | 153.2                   | 140.8 | 128.3 | 105.6 | 86.6  | 65.7 |
|                        | 57      | 165.3                                | 8.1                           | 157.3                   | 157.3 | 157.3 | 137.7 | 114.2 | 90.7 | 161.7                             | 6.7                           | 154.8                   | 151.0 | 147.0 | 125.8 | 104.4 | 83.0 |
| 4625                   | 77      | 210.5                                | 8.4                           | 122.1                   | 94.4  | 66.6  | -     | -     | -    | 190.0                             | 6.9                           | 115.6                   | 98.3  | 81.0  | -     | -     | -    |
|                        | 72      | 196.1                                | 8.3                           | 143.3                   | 118.3 | 93.3  | 68.4  | -     | -    | 181.2                             | 6.9                           | 137.0                   | 117.5 | 98.1  | 78.6  | -     | -    |
|                        | 67      | 181.8                                | 8.3                           | 164.4                   | 142.2 | 120.1 | 94.6  | 69.1  | -    | 172.5                             | 6.8                           | 158.4                   | 136.8 | 115.1 | 94.8  | 74.5  | -    |
|                        | 62      | 177.3                                | 8.2                           | 164.9                   | 155.8 | 146.8 | 118.2 | 94.7  | 68.7 | 170.3                             | 6.8                           | 159.7                   | 145.9 | 132.2 | 109.8 | 89.8  | 68.6 |
|                        | 57      | 172.9                                | 8.1                           | 165.4                   | 165.4 | 165.4 | 146.9 | 120.3 | 93.8 | 168.1                             | 6.8                           | 160.9                   | 155.1 | 149.0 | 127.2 | 105.2 | 83.1 |
| 5063                   | 72      | 199.9                                | 8.4                           | 150.7                   | 123.3 | 96.0  | 68.6  | -     | -    | 183.4                             | 6.9                           | 143.5                   | 124.4 | 105.4 | 86.3  | -     | -    |
|                        | 67      | 186.9                                | 8.3                           | 171.9                   | 148.9 | 125.9 | 97.8  | 69.7  | -    | 177.8                             | 6.9                           | 165.3                   | 143.0 | 120.7 | 100.5 | 80.2  | -    |
|                        | 62      | 183.7                                | 8.3                           | 172.7                   | 164.3 | 155.9 | 125.7 | 98.1  | 69.2 | 176.2                             | 6.8                           | 166.1                   | 151.1 | 136.1 | 114.0 | 93.1  | 71.6 |
|                        | 57      | 180.5                                | 8.2                           | 173.5                   | 173.5 | 173.5 | 156.2 | 126.5 | 96.9 | 174.6                             | 6.8                           | 167.0                   | 159.2 | 151.3 | 128.7 | 106.0 | 83.3 |
| 5500                   | 72      | 203.8                                | 8.4                           | 158.1                   | 128.3 | 98.6  | 68.9  | -     | -    | 185.6                             | 6.9                           | 150.0                   | 131.4 | 112.7 | 94.1  | -     | -    |
|                        | 67      | 192.0                                | 8.4                           | 179.5                   | 155.7 | 131.8 | 101.1 | 70.3  | -    | 183.1                             | 6.9                           | 172.1                   | 149.2 | 126.3 | 106.1 | 85.9  | -    |
|                        | 62      | 190.0                                | 8.3                           | 180.5                   | 172.8 | 165.0 | 133.2 | 101.5 | 69.7 | 182.1                             | 6.9                           | 172.6                   | 156.3 | 139.9 | 118.1 | 96.3  | 74.5 |
|                        | 57      | 188.1                                | 8.3                           | 181.5                   | 181.5 | 181.5 | 165.4 | 132.7 | 99.9 | 181.1                             | 6.8                           | 173.0                   | 163.3 | 153.5 | 130.2 | 106.8 | 83.4 |
|                        |         | 95°F                                 |                               |                         |       |       |       |       |      |                                   |                               | 105°F                   |       |       |       |       |      |
| 3313                   | 77      | 183.1                                | 5.5                           | 93.8                    | 66.5  | 39.2  | -     | -     | -    | 165.9                             | 8.7                           | 88.6                    | 64.2  | 39.8  | -     | -     | -    |
|                        | 72      | 164.8                                | 5.4                           | 114.0                   | 90.3  | 66.7  | 43.1  | -     | -    | 151.7                             | 8.6                           | 108.5                   | 86.6  | 64.6  | 42.7  | -     | -    |
|                        | 67      | 146.5                                | 5.4                           | 134.1                   | 114.2 | 94.2  | 70.9  | 47.5  | -    | 137.5                             | 8.5                           | 128.4                   | 109.0 | 89.5  | 67.6  | 45.7  | -    |
|                        | 62      | 146.9                                | 5.4                           | 139.2                   | 130.5 | 121.8 | 98.7  | 75.6  | 52.5 | 138.6                             | 8.5                           | 130.7                   | 122.6 | 114.4 | 92.5  | 70.6  | 48.7 |
| 3750                   | 77      | 178.6                                | 5.5                           | 98.9                    | 78.4  | 57.9  | -     | -     | -    | 163.1                             | 8.7                           | 95.3                    | 73.5  | 51.8  | -     | -     | -    |
|                        | 72      | 165.3                                | 5.4                           | 119.5                   | 99.1  | 78.7  | 58.3  | -     | -    | 152.8                             | 8.6                           | 114.3                   | 93.7  | 73.2  | 52.6  | -     | -    |
|                        | 67      | 152.0                                | 5.4                           | 140.2                   | 119.9 | 99.6  | 78.9  | 58.3  | -    | 142.4                             | 8.5                           | 133.3                   | 114.0 | 94.6  | 73.7  | 52.8  | -    |
|                        | 62      | 152.3                                | 5.4                           | 144.3                   | 132.3 | 120.4 | 99.5  | 78.7  | 57.9 | 143.3                             | 8.5                           | 135.1                   | 125.6 | 116.0 | 94.7  | 73.4  | 52.2 |
|                        | 57      | 152.6                                | 5.3                           | 148.3                   | 144.8 | 141.2 | 120.2 | 99.1  | 78.0 | 144.2                             | 8.4                           | 136.9                   | 136.9 | 136.9 | 115.8 | 94.1  | 72.5 |
| 4188                   | 77      | 174.0                                | 5.5                           | 103.9                   | 90.3  | 76.6  | -     | -     | -    | 160.3                             | 8.7                           | 101.9                   | 82.9  | 63.8  | -     | -     | -    |
|                        | 72      | 165.8                                | 5.4                           | 125.1                   | 107.9 | 90.8  | 73.6  | -     | -    | 153.8                             | 8.6                           | 120.0                   | 100.9 | 81.7  | 62.6  | -     | -    |
|                        | 67      | 157.6                                | 5.4                           | 146.3                   | 125.6 | 104.9 | 87.0  | 69.1  | -    | 147.3                             | 8.5                           | 138.2                   | 118.9 | 99.7  | 79.8  | 59.8  | -    |
|                        | 62      | 157.8                                | 5.4                           | 149.4                   | 134.2 | 119.0 | 100.4 | 81.8  | 63.2 | 148.0                             | 8.5                           | 139.5                   | 128.6 | 117.6 | 96.9  | 76.3  | 55.6 |
|                        | 57      | 158.0                                | 5.4                           | 152.4                   | 142.8 | 133.1 | 113.8 | 94.5  | 75.2 | 148.7                             | 8.5                           | 140.8                   | 138.2 | 135.6 | 114.1 | 92.7  | 71.2 |
| 4625                   | 77      | 169.5                                | 5.5                           | 109.0                   | 102.2 | 95.4  | -     | -     | -    | 157.5                             | 8.7                           | 108.6                   | 92.2  | 75.8  | -     | -     | -    |
|                        | 72      | 166.3                                | 5.4                           | 130.7                   | 116.8 | 102.8 | 88.8  | -     | -    | 154.9                             | 8.6                           | 125.8                   | 108.0 | 90.3  | 72.5  | -     | -    |
|                        | 67      | 163.1                                | 5.4                           | 152.5                   | 131.3 | 110.2 | 95.1  | 79.9  | -    | 152.2                             | 8.5                           | 143.0                   | 123.9 | 104.8 | 85.8  | 66.9  | -    |
|                        | 62      | 163.2                                | 5.4                           | 154.4                   | 136.0 | 117.6 | 101.3 | 84.9  | 68.6 | 152.7                             | 8.5                           | 143.9                   | 131.6 | 119.2 | 99.2  | 79.1  | 59.0 |
|                        | 57      | 163.4                                | 5.4                           | 156.4                   | 140.7 | 125.1 | 107.5 | 90.0  | 72.4 | 153.2                             | 8.5                           | 144.7                   | 139.2 | 133.7 | 112.5 | 91.2  | 70.0 |
| 5063                   | 72      | 166.8                                | 5.4                           | 136.3                   | 125.6 | 114.8 | 104.1 | -     | -    | 155.9                             | 8.6                           | 131.6                   | 115.2 | 98.8  | 82.5  | -     | -    |
|                        | 67      | 168.7                                | 5.4                           | 158.6                   | 137.1 | 115.5 | 103.1 | 90.7  | -    | 157.1                             | 8.5                           | 147.9                   | 128.9 | 109.8 | 91.9  | 74.0  | -    |
|                        | 62      | 168.7                                | 5.4                           | 159.5                   | 137.9 | 116.3 | 102.2 | 88.1  | 74.0 | 157.5                             | 8.5                           | 148.3                   | 134.6 | 120.8 | 101.4 | 81.9  | 62.4 |
|                        | 57      | 168.7                                | 5.4                           | 160.5                   | 138.7 | 117.0 | 101.2 | 85.4  | 69.7 | 157.8                             | 8.5                           | 148.6                   | 140.2 | 131.9 | 110.8 | 89.8  | 68.7 |
| 5500                   | 72      | 167.3                                | 5.4                           | 141.9                   | 134.4 | 126.9 | 119.3 | -     | -    | 157.0                             | 8.6                           | 137.3                   | 122.4 | 107.4 | 92.4  | -     | -    |
|                        | 67      | 174.3                                | 5.4                           | 164.7                   | 142.8 | 120.9 | 111.2 | 101.5 | -    | 162.0                             | 8.6                           | 152.8                   | 133.9 | 114.9 | 98.0  | 81.1  | -    |
|                        | 62      | 174.2                                | 5.4                           | 164.6                   | 139.7 | 114.9 | 103.0 | 91.2  | 79.3 | 162.2                             | 8.5                           | 152.7                   | 137.6 | 122.5 | 103.6 | 84.7  | 65.8 |
|                        | 57      | 174.1                                | 5.4                           | 164.5                   | 136.7 | 108.9 | 94.9  | 80.9  | 66.9 | 162.3                             | 8.5                           | 152.5                   | 141.3 | 130.0 | 109.2 | 88.3  | 67.5 |

**ZB150 (12.5 ton) cooling capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |       |       |       |      |      |                                   |                               |                         |       |       |       |       |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|-------|-------|-------|------|------|-----------------------------------|-------------------------------|-------------------------|-------|-------|-------|-------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |      |      | Total capacity <sup>1</sup> (MBh) | Total input (kW) <sup>2</sup> | Sensible capacity (MBh) |       |       |       |       |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |       |       |       |      |      |                                   |                               | Return dry bulb (°F)    |       |       |       |       |      |
|                        |         |                                      |                               | 90                      | 85    | 80    | 75    | 70   | 65   |                                   |                               | 90                      | 85    | 80    | 75    | 70    | 65   |
|                        |         | 115°F                                |                               |                         |       |       |       |      |      |                                   |                               | 125°F                   |       |       |       |       |      |
| 3313                   | 77      | 148.7                                | 11.9                          | 83.4                    | 61.9  | 40.3  | -     | -    | -    | 131.5                             | 15.2                          | 78.2                    | 59.6  | 40.9  | -     | -     | -    |
|                        | 72      | 138.7                                | 11.8                          | 103.1                   | 82.8  | 62.6  | 42.3  | -    | -    | 125.6                             | 15.0                          | 97.6                    | 79.1  | 60.5  | 42.0  | -     | -    |
|                        | 67      | 128.6                                | 11.6                          | 122.7                   | 103.8 | 84.8  | 64.4  | 43.9 | -    | 119.7                             | 14.8                          | 117.0                   | 98.6  | 80.1  | 61.1  | 42.1  | -    |
|                        | 62      | 130.3                                | 11.6                          | 122.2                   | 114.6 | 107.0 | 86.4  | 65.7 | 45.0 | 122.0                             | 14.7                          | 113.7                   | 106.7 | 99.7  | 80.2  | 60.7  | 41.3 |
| 3750                   | 77      | 147.6                                | 11.9                          | 91.7                    | 68.7  | 45.6  | -     | -    | -    | 132.2                             | 15.1                          | 88.1                    | 63.8  | 39.5  | -     | -     | -    |
|                        | 72      | 140.2                                | 11.8                          | 109.0                   | 88.3  | 67.6  | 47.0  | -    | -    | 127.7                             | 15.0                          | 103.7                   | 82.9  | 62.1  | 41.3  | -     | -    |
|                        | 67      | 132.9                                | 11.7                          | 126.4                   | 108.0 | 89.6  | 68.4  | 47.2 | -    | 123.3                             | 14.8                          | 119.4                   | 102.1 | 84.7  | 63.2  | 41.7  | -    |
|                        | 62      | 134.3                                | 11.6                          | 125.9                   | 118.8 | 111.6 | 89.9  | 68.2 | 46.5 | 125.2                             | 14.7                          | 116.8                   | 112.0 | 107.3 | 85.1  | 62.9  | 40.8 |
|                        | 57      | 135.7                                | 11.5                          | 125.5                   | 125.5 | 125.5 | 111.4 | 89.1 | 66.9 | 127.2                             | 14.6                          | 114.1                   | 114.1 | 114.1 | 107.0 | 84.2  | 61.3 |
| 4188                   | 77      | 146.6                                | 11.9                          | 99.9                    | 75.4  | 50.9  | -     | -    | -    | 132.8                             | 15.1                          | 97.9                    | 68.0  | 38.1  | -     | -     | -    |
|                        | 72      | 141.8                                | 11.8                          | 115.0                   | 93.8  | 72.7  | 51.6  | -    | -    | 129.8                             | 14.9                          | 109.9                   | 86.8  | 63.7  | 40.6  | -     | -    |
|                        | 67      | 137.1                                | 11.7                          | 130.0                   | 112.2 | 94.5  | 72.5  | 50.6 | -    | 126.9                             | 14.8                          | 121.8                   | 105.5 | 89.3  | 65.3  | 41.3  | -    |
|                        | 62      | 138.3                                | 11.6                          | 129.6                   | 122.9 | 116.2 | 93.5  | 70.7 | 47.9 | 128.5                             | 14.7                          | 119.8                   | 117.3 | 114.8 | 90.0  | 65.1  | 40.2 |
|                        | 57      | 139.4                                | 11.6                          | 129.3                   | 129.3 | 129.3 | 114.4 | 90.8 | 67.2 | 130.1                             | 14.7                          | 117.7                   | 117.7 | 117.7 | 114.7 | 88.9  | 63.1 |
| 4625                   | 77      | 145.5                                | 11.9                          | 108.2                   | 82.2  | 56.2  | -     | -    | -    | 133.5                             | 15.1                          | 107.7                   | 72.2  | 36.7  | -     | -     | -    |
|                        | 72      | 143.4                                | 11.8                          | 120.9                   | 99.3  | 77.8  | 56.2  | -    | -    | 132.0                             | 14.9                          | 116.0                   | 90.6  | 65.3  | 39.9  | -     | -    |
|                        | 67      | 141.4                                | 11.7                          | 133.6                   | 116.5 | 99.3  | 76.6  | 53.9 | -    | 130.5                             | 14.8                          | 124.2                   | 109.0 | 93.8  | 67.4  | 40.9  | -    |
|                        | 62      | 142.2                                | 11.6                          | 133.3                   | 127.1 | 120.8 | 97.0  | 73.2 | 49.3 | 131.7                             | 14.7                          | 122.8                   | 122.6 | 122.4 | 94.9  | 67.3  | 39.7 |
|                        | 57      | 143.1                                | 11.6                          | 133.0                   | 133.0 | 133.0 | 117.4 | 92.4 | 67.5 | 133.0                             | 14.7                          | 121.4                   | 121.4 | 121.4 | 121.4 | 93.7  | 65.0 |
| 5063                   | 72      | 145.0                                | 11.8                          | 126.8                   | 104.8 | 82.8  | 60.8  | -    | -    | 134.1                             | 14.9                          | 122.1                   | 94.5  | 66.8  | 39.2  | -     | -    |
|                        | 67      | 145.6                                | 11.7                          | 137.3                   | 120.7 | 104.1 | 80.7  | 57.3 | -    | 134.1                             | 14.8                          | 126.6                   | 112.5 | 98.4  | 69.5  | 40.5  | -    |
|                        | 62      | 146.2                                | 11.6                          | 137.0                   | 131.2 | 125.4 | 100.6 | 75.7 | 50.8 | 134.9                             | 14.8                          | 125.8                   | 125.8 | 125.8 | 99.7  | 69.5  | 39.2 |
|                        | 57      | 146.8                                | 11.6                          | 136.8                   | 136.8 | 136.8 | 120.4 | 94.1 | 67.8 | 135.8                             | 14.7                          | 125.0                   | 125.0 | 125.0 | 125.0 | 98.4  | 66.8 |
| 5500                   | 72      | 146.6                                | 11.7                          | 132.8                   | 110.3 | 87.9  | 65.5  | -    | -    | 136.2                             | 14.9                          | 128.2                   | 98.3  | 68.4  | 38.5  | -     | -    |
|                        | 67      | 149.8                                | 11.7                          | 140.9                   | 124.9 | 109.0 | 84.8  | 60.6 | -    | 137.6                             | 14.8                          | 129.0                   | 116.0 | 103.0 | 71.6  | 40.2  | -    |
|                        | 62      | 150.2                                | 11.7                          | 140.7                   | 135.4 | 130.0 | 104.1 | 78.2 | 52.2 | 138.2                             | 14.8                          | 128.8                   | 128.8 | 128.8 | 104.6 | 71.7  | 38.7 |
|                        | 57      | 150.5                                | 11.6                          | 140.6                   | 140.6 | 140.6 | 123.4 | 95.7 | 68.1 | 138.7                             | 14.7                          | 128.6                   | 128.6 | 128.6 | 128.6 | 103.2 | 68.7 |

1. These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## ZB78-150 reheat capacities

### ZB078 (6.5 ton) reheat capacity

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |   |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|---|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |   |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |   |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      | 45°F                              |                               |                         |      |      |      |      |      |   |
| 1625                   | 77      | 69.3                                 | 3.6                           | 16.1                    | 12.7 | 9.2  | -    | -    | -    | 62.5                              | 3.9                           | 8.4                     | 5.8  | 3.1  | -    | -    | -    |   |
|                        | 72      | 63.3                                 | 3.4                           | 24.8                    | 21.3 | 17.9 | 14.4 | -    | -    | 56.3                              | 3.7                           | 16.9                    | 14.3 | 11.6 | 8.9  | -    | -    |   |
|                        | 67      | 57.3                                 | 3.3                           | 33.4                    | 30.0 | 26.5 | 23.1 | 19.6 | -    | 50.2                              | 3.6                           | 25.4                    | 22.7 | 20.1 | 17.4 | 14.7 | -    |   |
|                        | 62      | 48.9                                 | 3.2                           | 41.6                    | 37.7 | 34.3 | 30.8 | 27.4 | 23.9 | 43.1                              | 3.5                           | 34.3                    | 31.4 | 28.7 | 26.1 | 23.4 | 20.7 |   |
| 1950                   | 77      | 73.2                                 | 3.6                           | 19.0                    | 15.0 | 11.0 | -    | -    | -    | 67.0                              | 3.9                           | 10.1                    | 6.9  | 3.6  | -    | -    | -    |   |
|                        | 72      | 66.9                                 | 3.4                           | 28.7                    | 24.7 | 20.7 | 16.7 | -    | -    | 60.3                              | 3.7                           | 20.1                    | 16.9 | 13.6 | 10.4 | -    | -    |   |
|                        | 67      | 60.5                                 | 3.3                           | 38.4                    | 34.4 | 30.5 | 26.5 | 22.5 | -    | 53.7                              | 3.6                           | 30.1                    | 26.9 | 23.6 | 20.4 | 17.1 | -    |   |
|                        | 62      | 51.7                                 | 3.2                           | 47.0                    | 43.0 | 39.0 | 35.0 | 31.0 | 27.1 | 46.2                              | 3.5                           | 40.3                    | 37.1 | 33.8 | 30.6 | 27.3 | 24.1 |   |
|                        | 57      | 46.0                                 | 3.2                           | 46.0                    | 45.0 | 41.0 | 37.0 | 33.0 | 29.0 | 41.4                              | 3.5                           | 41.4                    | 39.3 | 36.0 | 32.8 | 29.5 | 26.3 |   |
| 2275                   | 77      | 77.1                                 | 3.6                           | 21.9                    | 17.3 | 12.8 | -    | -    | -    | 71.4                              | 3.9                           | 11.8                    | 8.0  | 4.2  | -    | -    | -    |   |
|                        | 72      | 70.4                                 | 3.5                           | 32.7                    | 28.1 | 23.6 | 19.1 | -    | -    | 64.3                              | 3.7                           | 23.3                    | 19.5 | 15.7 | 11.8 | -    | -    |   |
|                        | 67      | 63.8                                 | 3.3                           | 43.5                    | 38.9 | 34.4 | 29.8 | 25.3 | -    | 57.3                              | 3.6                           | 34.8                    | 31.0 | 27.1 | 23.3 | 19.5 | -    |   |
|                        | 62      | 54.5                                 | 3.2                           | 52.4                    | 48.3 | 43.8 | 39.3 | 34.7 | 30.2 | 49.2                              | 3.5                           | 46.3                    | 42.7 | 38.9 | 35.1 | 31.3 | 27.4 |   |
| 2600                   | 57      | 48.5                                 | 3.2                           | 48.5                    | 48.0 | 46.0 | 41.4 | 36.9 | 32.4 | 44.1                              | 3.5                           | 44.1                    | 43.1 | 41.4 | 37.6 | 33.8 | 30.0 |   |
|                        | 77      | 80.9                                 | 3.6                           | 24.8                    | 19.7 | 14.6 | -    | -    | -    | 75.8                              | 3.9                           | 13.5                    | 9.1  | 4.7  | -    | -    | -    |   |
|                        | 72      | 74.0                                 | 3.5                           | 36.6                    | 31.5 | 26.5 | 21.4 | -    | -    | 68.3                              | 3.7                           | 26.5                    | 22.1 | 17.7 | 13.3 | -    | -    |   |
|                        | 67      | 67.1                                 | 3.3                           | 48.5                    | 43.4 | 38.3 | 33.2 | 28.2 | -    | 60.8                              | 3.6                           | 39.5                    | 35.1 | 30.7 | 26.3 | 21.9 | -    |   |
| 2925                   | 62      | 57.2                                 | 3.2                           | 57.2                    | 53.6 | 48.6 | 43.5 | 38.4 | 33.3 | 52.3                              | 3.5                           | 52.3                    | 48.4 | 44.0 | 39.6 | 35.2 | 30.8 |   |
|                        | 57      | 51.0                                 | 3.2                           | 51.0                    | 51.0 | 51.0 | 45.9 | 40.8 | 35.7 | 46.8                              | 3.5                           | 46.8                    | 46.8 | 46.8 | 42.5 | 38.1 | 33.7 |   |
|                        | 72      | 74.1                                 | 3.5                           | 40.7                    | 35.2 | 29.6 | 24.1 | -    | -    | 68.9                              | 3.8                           | 30.0                    | 25.0 | 20.1 | 15.1 | -    | -    |   |
|                        | 67      | 67.2                                 | 3.3                           | 53.6                    | 48.1 | 42.6 | 37.0 | 31.5 | -    | 61.3                              | 3.6                           | 44.7                    | 39.7 | 34.8 | 29.8 | 24.8 | -    |   |
| 3250                   | 62      | 57.3                                 | 3.2                           | 57.3                    | 55.5 | 53.0 | 47.5 | 41.9 | 36.4 | 52.7                              | 3.5                           | 52.7                    | 50.8 | 48.6 | 43.6 | 38.6 | 33.6 |   |
|                        | 57      | 51.0                                 | 3.2                           | 51.0                    | 51.0 | 51.0 | 45.5 | 40.0 | 34.5 | 47.2                              | 3.5                           | 47.2                    | 47.2 | 47.2 | 42.3 | 37.3 | 32.3 |   |
|                        | 72      | 74.2                                 | 3.5                           | 44.8                    | 38.8 | 32.8 | 26.9 | -    | -    | 69.5                              | 3.8                           | 33.6                    | 28.0 | 22.4 | 16.8 | -    | -    |   |
|                        | 67      | 67.3                                 | 3.3                           | 58.8                    | 52.8 | 46.8 | 40.8 | 34.9 | -    | 61.8                              | 3.6                           | 50.0                    | 44.4 | 38.8 | 33.2 | 27.7 | -    |   |
| 1625                   | 62      | 57.4                                 | 3.2                           | 57.4                    | 57.4 | 57.4 | 51.5 | 45.5 | 39.5 | 53.2                              | 3.5                           | 53.2                    | 53.2 | 53.2 | 47.6 | 42.0 | 36.4 |   |
|                        | 57      | 51.1                                 | 3.2                           | 51.1                    | 51.1 | 51.1 | 45.2 | 39.2 | 33.2 | 47.6                              | 3.5                           | 47.6                    | 47.6 | 47.6 | 42.1 | 36.5 | 30.9 |   |
|                        |         |                                      | 55°F                          |                         |      |      |      |      |      |                                   | 65°F                          |                         |      |      |      |      |      |   |
|                        | 1625    | 72                                   | 49.4                          | 4.1                     | 9.1  | 7.2  | 5.3  | 3.4  | -    | -                                 | 48.4                          | 4.3                     | 6.3  | 4.6  | 3.0  | 1.3  | -    | - |
| 67                     |         | 43.0                                 | 3.9                           | 17.4                    | 15.5 | 13.6 | 11.7 | 9.8  | -    | 40.3                              | 4.2                           | 15.3                    | 13.6 | 11.9 | 10.2 | 8.5  | -    |   |
| 62                     |         | 37.3                                 | 3.8                           | 27.0                    | 25.1 | 23.2 | 21.3 | 19.4 | 17.5 | 36.3                              | 4.0                           | 25.3                    | 23.3 | 21.6 | 19.9 | 18.2 | 16.6 |   |
| 1950                   | 72      | 53.8                                 | 4.0                           | 11.5                    | 9.0  | 6.5  | 4.0  | -    | -    | 51.3                              | 4.3                           | 8.1                     | 5.9  | 3.7  | 1.4  | -    | -    |   |
|                        | 67      | 46.9                                 | 3.9                           | 21.8                    | 19.3 | 16.8 | 14.3 | 11.8 | -    | 42.8                              | 4.2                           | 19.1                    | 16.9 | 14.7 | 12.4 | 10.2 | -    |   |
|                        | 62      | 40.7                                 | 3.7                           | 33.6                    | 31.1 | 28.6 | 26.1 | 23.6 | 21.1 | 38.5                              | 4.0                           | 31.1                    | 28.9 | 26.6 | 24.4 | 22.2 | 19.9 |   |
|                        | 57      | 36.7                                 | 3.7                           | 36.1                    | 33.6 | 31.1 | 28.6 | 26.1 | 23.6 | 35.6                              | 4.0                           | 33.2                    | 31.0 | 28.7 | 26.5 | 24.3 | 22.1 |   |
| 2275                   | 72      | 58.2                                 | 4.0                           | 13.9                    | 10.8 | 7.7  | 4.6  | -    | -    | 54.2                              | 4.3                           | 9.9                     | 7.1  | 4.3  | 1.6  | -    | -    |   |
|                        | 67      | 50.7                                 | 3.9                           | 26.1                    | 23.0 | 19.9 | 16.8 | 13.7 | -    | 45.3                              | 4.1                           | 23.0                    | 20.2 | 17.4 | 14.7 | 11.9 | -    |   |
|                        | 62      | 44.0                                 | 3.7                           | 40.2                    | 37.1 | 34.0 | 30.9 | 27.8 | 24.7 | 40.7                              | 4.0                           | 36.9                    | 34.4 | 31.7 | 28.9 | 26.1 | 23.3 |   |
|                        | 57      | 39.7                                 | 3.7                           | 39.4                    | 38.1 | 36.9 | 33.8 | 30.7 | 27.6 | 37.6                              | 3.9                           | 36.4                    | 35.3 | 34.2 | 31.4 | 28.6 | 25.8 |   |
| 2600                   | 72      | 62.7                                 | 4.0                           | 16.4                    | 12.7 | 9.0  | 5.3  | -    | -    | 57.1                              | 4.3                           | 11.7                    | 8.4  | 5.0  | 1.7  | -    | -    |   |
|                        | 67      | 54.6                                 | 3.9                           | 30.5                    | 26.8 | 23.1 | 19.4 | 15.6 | -    | 47.8                              | 4.1                           | 26.9                    | 23.5 | 20.2 | 16.9 | 13.6 | -    |   |
|                        | 62      | 47.3                                 | 3.7                           | 46.8                    | 43.1 | 39.4 | 35.7 | 32.0 | 28.3 | 42.9                              | 4.0                           | 42.6                    | 40.0 | 36.7 | 33.4 | 30.0 | 26.7 |   |
|                        | 57      | 42.7                                 | 3.7                           | 42.7                    | 42.7 | 42.7 | 39.0 | 35.3 | 31.6 | 39.6                              | 3.9                           | 39.6                    | 39.6 | 39.6 | 36.3 | 33.0 | 29.6 |   |
| 2925                   | 72      | 63.7                                 | 4.0                           | 19.4                    | 14.9 | 10.5 | 6.0  | -    | -    | 59.2                              | 4.3                           | 14.1                    | 10.0 | 5.9  | 1.8  | -    | -    |   |
|                        | 67      | 55.5                                 | 3.9                           | 35.8                    | 31.4 | 26.9 | 22.5 | 18.0 | -    | 49.5                              | 4.1                           | 32.3                    | 28.3 | 24.2 | 20.1 | 16.0 | -    |   |
|                        | 62      | 48.1                                 | 3.7                           | 47.8                    | 46.0 | 44.1 | 39.7 | 35.2 | 30.8 | 44.5                              | 4.0                           | 44.3                    | 43.0 | 41.4 | 37.3 | 33.2 | 29.1 |   |
|                        | 57      | 43.4                                 | 3.7                           | 43.4                    | 43.4 | 43.4 | 39.0 | 34.5 | 30.1 | 41.1                              | 3.9                           | 41.1                    | 41.1 | 41.1 | 37.0 | 32.9 | 28.8 |   |
| 3250                   | 72      | 64.7                                 | 4.0                           | 22.3                    | 17.2 | 12.0 | 6.8  | -    | -    | 61.3                              | 4.3                           | 16.5                    | 11.6 | 6.8  | 2.0  | -    | -    |   |
|                        | 67      | 56.4                                 | 3.9                           | 41.2                    | 36.0 | 30.8 | 25.6 | 20.4 | -    | 51.2                              | 4.1                           | 37.8                    | 33.0 | 28.1 | 23.3 | 18.5 | -    |   |
|                        | 62      | 48.9                                 | 3.7                           | 48.9                    | 48.9 | 48.9 | 43.7 | 38.5 | 33.3 | 46.0                              | 4.0                           | 46.0                    | 46.0 | 46.0 | 41.2 | 36.4 | 31.5 |   |
|                        | 57      | 44.1                                 | 3.7                           | 44.1                    | 44.1 | 44.1 | 38.9 | 33.8 | 28.6 | 42.5                              | 3.9                           | 42.5                    | 42.5 | 42.5 | 37.7 | 32.9 | 28.0 |   |

**ZB078 (6.5 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
|                        |         | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
| CFM                    | WB (°F) |                                      |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1625                   | 72      | 47.4                                 | 4.6                           | 3.5                     | 2.1  | 0.6  | -    | -    | -    | 46.3                              | 4.9                           | 0.8                     | -    | -    | -    | -    | -    |
|                        | 67      | 37.6                                 | 4.4                           | 13.1                    | 11.6 | 10.2 | 8.7  | 7.3  | -    | 34.8                              | 4.7                           | 11.0                    | 9.7  | 8.5  | 7.2  | 6.0  | -    |
|                        | 62      | 35.3                                 | 4.3                           | 23.6                    | 21.4 | 19.9 | 18.5 | 17.0 | 15.6 | 34.3                              | 4.6                           | 21.9                    | 19.5 | 18.3 | 17.1 | 15.8 | 14.6 |
| 1950                   | 72      | 48.8                                 | 4.6                           | 4.7                     | 2.7  | 0.8  | -    | -    | -    | 46.3                              | 4.9                           | 1.3                     | -    | -    | -    | -    | -    |
|                        | 67      | 38.7                                 | 4.4                           | 16.5                    | 14.5 | 12.6 | 10.6 | 8.7  | -    | 34.6                              | 4.7                           | 13.9                    | 12.2 | 10.5 | 8.8  | 7.1  | -    |
|                        | 62      | 36.4                                 | 4.3                           | 28.5                    | 26.6 | 24.6 | 22.7 | 20.7 | 18.8 | 34.2                              | 4.5                           | 26.0                    | 24.3 | 22.6 | 21.0 | 19.3 | 17.6 |
|                        | 57      | 34.5                                 | 4.2                           | 30.3                    | 28.4 | 26.4 | 24.5 | 22.5 | 20.6 | 33.3                              | 4.5                           | 27.5                    | 25.8 | 24.1 | 22.4 | 20.7 | 19.1 |
| 2275                   | 72      | 50.2                                 | 4.6                           | 5.8                     | 3.4  | 0.9  | -    | -    | -    | 46.2                              | 4.9                           | 1.8                     | -    | -    | -    | -    | -    |
|                        | 67      | 39.8                                 | 4.4                           | 19.9                    | 17.4 | 15.0 | 12.5 | 10.1 | -    | 34.3                              | 4.6                           | 16.8                    | 14.6 | 12.5 | 10.4 | 8.3  | -    |
|                        | 62      | 37.4                                 | 4.2                           | 33.5                    | 31.8 | 29.3 | 26.9 | 24.4 | 22.0 | 34.1                              | 4.5                           | 30.2                    | 29.1 | 27.0 | 24.9 | 22.7 | 20.6 |
|                        | 57      | 35.5                                 | 4.2                           | 33.4                    | 32.4 | 31.4 | 29.0 | 26.5 | 24.1 | 33.3                              | 4.5                           | 30.4                    | 29.6 | 28.7 | 26.6 | 24.5 | 22.3 |
| 2600                   | 72      | 51.6                                 | 4.6                           | 7.0                     | 4.0  | 1.1  | -    | -    | -    | 46.1                              | 4.8                           | 2.3                     | -    | -    | -    | -    | -    |
|                        | 67      | 40.9                                 | 4.4                           | 23.3                    | 20.3 | 17.4 | 14.4 | 11.5 | -    | 34.1                              | 4.6                           | 19.7                    | 17.1 | 14.5 | 12.0 | 9.4  | -    |
|                        | 62      | 38.5                                 | 4.2                           | 38.5                    | 37.0 | 34.0 | 31.1 | 28.1 | 25.2 | 34.0                              | 4.5                           | 34.0                    | 33.9 | 31.3 | 28.8 | 26.2 | 23.6 |
|                        | 57      | 36.5                                 | 4.2                           | 36.5                    | 36.5 | 36.5 | 33.5 | 30.6 | 27.6 | 33.3                              | 4.4                           | 33.3                    | 33.3 | 33.3 | 30.8 | 28.2 | 25.6 |
| 2925                   | 72      | 54.8                                 | 4.6                           | 8.8                     | 5.1  | 1.3  | -    | -    | -    | 50.3                              | 4.8                           | 3.5                     | -    | -    | -    | -    | -    |
|                        | 67      | 43.4                                 | 4.4                           | 28.9                    | 25.1 | 21.4 | 17.7 | 14.0 | -    | 37.4                              | 4.6                           | 25.4                    | 22.0 | 18.7 | 15.3 | 12.0 | -    |
|                        | 62      | 40.8                                 | 4.2                           | 40.8                    | 40.1 | 38.6 | 34.9 | 31.2 | 27.4 | 37.2                              | 4.5                           | 37.2                    | 37.1 | 35.8 | 32.5 | 29.1 | 25.8 |
|                        | 57      | 38.7                                 | 4.2                           | 38.7                    | 38.7 | 38.7 | 35.0 | 31.3 | 27.6 | 36.3                              | 4.5                           | 36.3                    | 36.3 | 36.3 | 33.0 | 29.6 | 26.3 |
| 3250                   | 72      | 57.9                                 | 4.6                           | 10.6                    | 6.1  | 1.6  | -    | -    | -    | 54.5                              | 4.9                           | 4.7                     | -    | -    | -    | -    | -    |
|                        | 67      | 45.9                                 | 4.4                           | 34.4                    | 30.0 | 25.5 | 21.0 | 16.5 | -    | 40.7                              | 4.6                           | 31.1                    | 26.9 | 22.8 | 18.7 | 14.5 | -    |
|                        | 62      | 43.2                                 | 4.2                           | 43.2                    | 43.2 | 43.2 | 38.7 | 34.2 | 29.7 | 40.3                              | 4.5                           | 40.3                    | 40.3 | 40.3 | 36.2 | 32.1 | 27.9 |
|                        | 57      | 40.9                                 | 4.2                           | 40.9                    | 40.9 | 40.9 | 36.4 | 32.0 | 27.5 | 39.3                              | 4.5                           | 39.3                    | 39.3 | 39.3 | 35.2 | 31.1 | 26.9 |

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condensate fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



**ZB090 (7.5 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      | 45°F                              |                               |                         |      |      |      |      |      |
| 1875                   | 77      | 59.3                                 | 4.4                           | 2.3                     | 1.4  | -    | -    | -    | -    | 59.2                              | 4.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 54.2                                 | 4.3                           | 6.6                     | 5.7  | 4.8  | 3.9  | -    | -    | 54.6                              | 4.6                           | 3.5                     | 2.5  | 1.6  | 0.7  | -    | -    |
|                        | 67      | 49.2                                 | 4.2                           | 10.9                    | 10.0 | 9.1  | 8.2  | 7.3  | -    | 49.9                              | 4.4                           | 10.5                    | 9.6  | 8.7  | 7.8  | 6.8  | -    |
|                        | 62      | 44.9                                 | 4.0                           | 16.2                    | 15.3 | 14.4 | 13.4 | 12.5 | 11.6 | 45.8                              | 4.2                           | 18.6                    | 17.6 | 16.7 | 15.8 | 14.9 | 13.9 |
| 2250                   | 77      | 62.7                                 | 4.4                           | 2.7                     | 1.3  | -    | -    | -    | -    | 61.6                              | 4.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 57.3                                 | 4.3                           | 9.6                     | 8.1  | 6.7  | 5.2  | -    | -    | 56.7                              | 4.6                           | 5.1                     | 3.7  | 2.3  | 0.9  | -    | -    |
|                        | 67      | 52.0                                 | 4.2                           | 16.4                    | 15.0 | 13.5 | 12.1 | 10.6 | -    | 51.9                              | 4.4                           | 15.1                    | 13.7 | 12.3 | 10.9 | 9.5  | -    |
|                        | 62      | 47.5                                 | 4.0                           | 24.7                    | 23.2 | 21.8 | 20.3 | 18.9 | 17.4 | 47.6                              | 4.2                           | 26.5                    | 25.1 | 23.7 | 22.3 | 20.9 | 19.5 |
|                        | 57      | 45.7                                 | 3.9                           | 33.2                    | 31.8 | 30.3 | 28.9 | 27.4 | 26.0 | 45.1                              | 4.1                           | 33.4                    | 31.9 | 30.5 | 29.1 | 27.7 | 26.3 |
| 2625                   | 77      | 66.0                                 | 4.4                           | 3.1                     | 1.2  | -    | -    | -    | -    | 63.9                              | 4.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 60.4                                 | 4.3                           | 12.5                    | 10.5 | 8.5  | 6.6  | -    | -    | 58.9                              | 4.6                           | 6.7                     | 4.8  | 2.9  | 1.0  | -    | -    |
|                        | 67      | 54.8                                 | 4.2                           | 21.9                    | 19.9 | 17.9 | 15.9 | 13.9 | -    | 53.8                              | 4.4                           | 19.7                    | 17.8 | 15.9 | 14.0 | 12.1 | -    |
|                        | 62      | 50.1                                 | 4.0                           | 33.2                    | 31.2 | 29.2 | 27.2 | 25.2 | 23.2 | 49.4                              | 4.2                           | 34.5                    | 32.6 | 30.7 | 28.8 | 26.9 | 25.0 |
|                        | 57      | 48.1                                 | 3.9                           | 41.9                    | 41.2 | 40.5 | 38.5 | 36.5 | 34.5 | 46.8                              | 4.1                           | 40.9                    | 40.2 | 39.5 | 37.6 | 35.7 | 33.8 |
| 3000                   | 77      | 69.4                                 | 4.5                           | 3.6                     | 1.0  | -    | -    | -    | -    | 66.2                              | 4.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 63.5                                 | 4.3                           | 15.5                    | 13.0 | 10.4 | 7.9  | -    | -    | 61.0                              | 4.6                           | 8.4                     | 6.0  | 3.6  | 1.2  | -    | -    |
|                        | 67      | 57.6                                 | 4.2                           | 27.4                    | 24.9 | 22.3 | 19.8 | 17.3 | -    | 55.8                              | 4.4                           | 24.3                    | 21.9 | 19.5 | 17.2 | 14.8 | -    |
|                        | 62      | 52.6                                 | 4.0                           | 41.6                    | 39.1 | 36.6 | 34.0 | 31.5 | 29.0 | 51.3                              | 4.2                           | 42.4                    | 40.0 | 37.7 | 35.3 | 32.9 | 30.5 |
|                        | 57      | 50.6                                 | 3.9                           | 50.6                    | 50.6 | 50.6 | 48.1 | 45.5 | 43.0 | 48.5                              | 4.1                           | 48.5                    | 48.5 | 48.5 | 46.1 | 43.7 | 41.4 |
| 3375                   | 72      | 67.1                                 | 4.3                           | 17.8                    | 15.0 | 12.1 | 9.3  | -    | -    | 64.3                              | 4.6                           | 9.7                     | 6.9  | 4.2  | 1.4  | -    | -    |
|                        | 67      | 60.9                                 | 4.2                           | 31.4                    | 28.5 | 25.7 | 22.8 | 20.0 | -    | 58.8                              | 4.4                           | 28.2                    | 25.4 | 22.7 | 19.9 | 17.1 | -    |
|                        | 62      | 55.7                                 | 4.0                           | 49.2                    | 44.8 | 41.9 | 39.0 | 36.2 | 33.3 | 54.0                              | 4.2                           | 49.2                    | 46.4 | 43.6 | 40.9 | 38.1 | 35.4 |
|                        | 57      | 53.5                                 | 3.9                           | 53.5                    | 53.5 | 53.5 | 50.6 | 47.8 | 44.9 | 51.1                              | 4.1                           | 51.1                    | 51.1 | 51.1 | 48.4 | 45.6 | 42.9 |
|                        | 3750    | 72                                   | 70.8                          | 4.3                     | 20.2 | 17.0 | 13.8 | 10.6 | -    | -                                 | 67.6                          | 4.6                     | 11.0 | 7.9  | 4.7  | 1.6  | -    |
| 67                     |         | 64.2                                 | 4.2                           | 35.4                    | 32.2 | 29.0 | 25.8 | 22.6 | -    | 61.9                              | 4.4                           | 32.0                    | 28.9 | 25.8 | 22.6 | 19.5 | -    |
| 62                     |         | 58.7                                 | 4.0                           | 56.8                    | 50.5 | 47.2 | 44.0 | 40.8 | 37.6 | 56.8                              | 4.2                           | 55.9                    | 52.8 | 49.6 | 46.5 | 43.4 | 40.2 |
| 57                     |         | 56.4                                 | 3.9                           | 56.4                    | 56.4 | 56.4 | 53.2 | 50.0 | 46.8 | 53.8                              | 4.1                           | 53.8                    | 53.8 | 53.8 | 50.6 | 47.5 | 44.4 |
|                        |         | 55°F                                 |                               |                         |      |      |      |      |      | 65°F                              |                               |                         |      |      |      |      |      |
| 1875                   | 72      | 54.9                                 | 4.9                           | 0.3                     | -    | -    | -    | -    | -    | 52.0                              | 5.2                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 50.6                                 | 4.6                           | 10.1                    | 9.2  | 8.2  | 7.3  | 6.4  | -    | 46.6                              | 4.9                           | 7.2                     | 6.6  | 6.0  | 5.4  | 4.7  | -    |
|                        | 62      | 46.8                                 | 4.4                           | 21.0                    | 20.0 | 19.1 | 18.1 | 17.2 | 16.3 | 41.4                              | 4.7                           | 15.2                    | 14.6 | 14.0 | 13.3 | 12.7 | 12.1 |
| 2250                   | 72      | 56.1                                 | 4.9                           | 0.6                     | -    | -    | -    | -    | -    | 53.5                              | 5.2                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 51.7                                 | 4.6                           | 13.8                    | 12.5 | 11.1 | 9.7  | 8.3  | -    | 48.0                              | 4.9                           | 11.3                    | 10.2 | 9.1  | 8.0  | 6.9  | -    |
|                        | 62      | 47.8                                 | 4.4                           | 28.4                    | 27.0 | 25.6 | 24.3 | 22.9 | 21.5 | 42.6                              | 4.7                           | 23.5                    | 22.4 | 21.3 | 20.2 | 19.0 | 17.9 |
|                        | 57      | 44.5                                 | 4.3                           | 33.5                    | 32.1 | 30.7 | 29.3 | 28.0 | 26.6 | 40.2                              | 4.6                           | 27.4                    | 26.3 | 25.2 | 24.1 | 23.0 | 21.8 |
| 2625                   | 72      | 57.3                                 | 4.9                           | 0.9                     | -    | -    | -    | -    | -    | 55.0                              | 5.2                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 52.9                                 | 4.6                           | 17.5                    | 15.7 | 13.9 | 12.1 | 10.3 | -    | 49.3                              | 4.9                           | 15.5                    | 13.8 | 12.2 | 10.6 | 9.0  | -    |
|                        | 62      | 48.8                                 | 4.4                           | 35.8                    | 34.0 | 32.2 | 30.4 | 28.6 | 26.8 | 43.8                              | 4.7                           | 31.9                    | 30.2 | 28.6 | 27.0 | 25.4 | 23.7 |
|                        | 57      | 45.5                                 | 4.3                           | 39.9                    | 39.3 | 38.6 | 36.8 | 35.0 | 33.2 | 41.3                              | 4.6                           | 34.9                    | 34.4 | 33.8 | 32.2 | 30.6 | 29.0 |
| 3000                   | 72      | 58.5                                 | 4.9                           | 1.3                     | -    | -    | -    | -    | -    | 56.5                              | 5.2                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 54.0                                 | 4.6                           | 21.2                    | 19.0 | 16.7 | 14.5 | 12.3 | -    | 50.7                              | 4.9                           | 19.6                    | 17.5 | 15.3 | 13.2 | 11.1 | -    |
|                        | 62      | 49.9                                 | 4.4                           | 43.2                    | 41.0 | 38.7 | 36.5 | 34.3 | 32.0 | 45.0                              | 4.7                           | 40.2                    | 38.1 | 35.9 | 33.8 | 31.7 | 29.6 |
|                        | 57      | 46.4                                 | 4.3                           | 46.4                    | 46.4 | 46.4 | 44.2 | 41.9 | 39.7 | 42.5                              | 4.6                           | 42.5                    | 42.5 | 42.5 | 40.3 | 38.2 | 36.1 |
| 3375                   | 72      | 61.5                                 | 4.9                           | 1.5                     | -    | -    | -    | -    | -    | 58.9                              | 5.2                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 56.7                                 | 4.6                           | 25.0                    | 22.3 | 19.6 | 17.0 | 14.3 | -    | 52.8                              | 4.9                           | 24.2                    | 21.5 | 18.9 | 16.2 | 13.5 | -    |
|                        | 62      | 52.4                                 | 4.4                           | 49.1                    | 48.0 | 45.4 | 42.8 | 40.1 | 37.4 | 46.9                              | 4.7                           | 44.5                    | 43.4 | 41.6 | 39.0 | 36.3 | 33.6 |
|                        | 57      | 48.8                                 | 4.3                           | 48.8                    | 48.8 | 48.8 | 46.1 | 43.5 | 40.8 | 44.3                              | 4.6                           | 44.3                    | 44.3 | 44.3 | 41.6 | 38.9 | 36.2 |
| 3750                   | 72      | 64.5                                 | 4.9                           | 1.8                     | -    | -    | -    | -    | -    | 61.2                              | 5.2                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 59.5                                 | 4.6                           | 28.7                    | 25.6 | 22.5 | 19.4 | 16.4 | -    | 54.9                              | 4.9                           | 28.8                    | 25.6 | 22.4 | 19.2 | 16.0 | -    |
|                        | 62      | 55.0                                 | 4.4                           | 55.0                    | 55.0 | 52.1 | 49.0 | 45.9 | 42.8 | 48.8                              | 4.6                           | 48.8                    | 48.8 | 47.3 | 44.1 | 40.9 | 37.7 |
|                        | 57      | 51.2                                 | 4.3                           | 51.2                    | 51.2 | 51.2 | 48.1 | 45.0 | 41.9 | 46.0                              | 4.5                           | 46.0                    | 46.0 | 46.0 | 42.8 | 39.6 | 36.4 |

**ZB090 (7.5 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 1875                   | 72      | 49.1                                 | 5.4                           | -                       | -    | -    | -    | -    | -    | 46.2                              | 5.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 42.6                                 | 5.2                           | 4.3                     | 4.0  | 3.7  | 3.4  | 3.1  | -    | 38.6                              | 5.4                           | 1.4                     | 1.4  | 1.5  | 1.5  | 1.5  | -    |
|                        | 62      | 36.0                                 | 4.9                           | 9.4                     | 9.1  | 8.8  | 8.5  | 8.2  | 7.9  | 30.7                              | 5.2                           | 3.7                     | 3.7  | 3.7  | 3.7  | 3.7  | 3.8  |
| 2250                   | 72      | 50.9                                 | 5.4                           | -                       | -    | -    | -    | -    | -    | 48.3                              | 5.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 44.2                                 | 5.2                           | 8.9                     | 8.0  | 7.1  | 6.3  | 5.4  | -    | 40.4                              | 5.4                           | 6.4                     | 5.8  | 5.1  | 4.5  | 3.9  | -    |
|                        | 62      | 37.4                                 | 4.9                           | 18.7                    | 17.8 | 16.9 | 16.1 | 15.2 | 14.3 | 32.1                              | 5.2                           | 13.8                    | 13.2 | 12.6 | 12.0 | 11.3 | 10.7 |
|                        | 57      | 35.9                                 | 4.8                           | 21.4                    | 20.5 | 19.7 | 18.8 | 17.9 | 17.1 | 31.6                              | 5.1                           | 15.4                    | 14.8 | 14.2 | 13.5 | 12.9 | 12.3 |
| 2625                   | 72      | 52.7                                 | 5.4                           | -                       | -    | -    | -    | -    | -    | 50.4                              | 5.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 45.8                                 | 5.2                           | 13.4                    | 12.0 | 10.5 | 9.1  | 7.6  | -    | 42.2                              | 5.4                           | 11.4                    | 10.1 | 8.8  | 7.6  | 6.3  | -    |
|                        | 62      | 38.7                                 | 4.9                           | 27.9                    | 26.5 | 25.0 | 23.6 | 22.2 | 20.7 | 33.6                              | 5.2                           | 24.0                    | 22.7 | 21.5 | 20.2 | 18.9 | 17.7 |
|                        | 57      | 37.2                                 | 4.8                           | 30.0                    | 29.5 | 29.1 | 27.6 | 26.2 | 24.8 | 33.1                              | 5.1                           | 25.0                    | 24.6 | 24.3 | 23.1 | 21.8 | 20.6 |
| 3000                   | 72      | 54.5                                 | 5.4                           | -                       | -    | -    | -    | -    | -    | 52.5                              | 5.7                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 47.4                                 | 5.2                           | 18.0                    | 16.0 | 13.9 | 11.9 | 9.9  | -    | 44.1                              | 5.4                           | 16.3                    | 14.4 | 12.5 | 10.6 | 8.7  | -    |
|                        | 62      | 40.0                                 | 4.9                           | 37.2                    | 35.1 | 33.1 | 31.1 | 29.1 | 27.1 | 35.1                              | 5.2                           | 34.1                    | 32.2 | 30.3 | 28.4 | 26.5 | 24.6 |
|                        | 57      | 38.5                                 | 4.8                           | 38.5                    | 38.5 | 38.5 | 36.5 | 34.5 | 32.5 | 34.5                              | 5.1                           | 34.5                    | 34.5 | 34.5 | 32.6 | 30.7 | 28.8 |
| 3375                   | 67      | 48.8                                 | 5.1                           | 23.5                    | 20.8 | 18.1 | 15.4 | 12.7 | -    | 44.9                              | 5.4                           | 22.7                    | 20.0 | 17.3 | 14.6 | 12.0 | -    |
|                        | 62      | 41.3                                 | 4.9                           | 39.8                    | 38.8 | 37.8 | 35.2 | 32.5 | 29.8 | 35.7                              | 5.2                           | 35.2                    | 34.3 | 34.0 | 31.4 | 28.7 | 26.0 |
|                        | 57      | 39.7                                 | 4.8                           | 39.7                    | 39.7 | 39.7 | 37.0 | 34.3 | 31.7 | 35.1                              | 5.1                           | 35.1                    | 35.1 | 35.1 | 32.5 | 29.8 | 27.1 |
| 3750                   | 67      | 50.3                                 | 5.1                           | 29.0                    | 25.6 | 22.3 | 18.9 | 15.6 | -    | 45.7                              | 5.4                           | 29.1                    | 25.6 | 22.1 | 18.7 | 15.2 | -    |
|                        | 62      | 42.5                                 | 4.9                           | 42.5                    | 42.5 | 42.5 | 39.2 | 35.8 | 32.5 | 36.3                              | 5.2                           | 36.3                    | 36.3 | 36.3 | 34.3 | 30.8 | 27.3 |
|                        | 57      | 40.9                                 | 4.8                           | 40.9                    | 40.9 | 40.9 | 37.6 | 34.2 | 30.9 | 35.8                              | 5.1                           | 35.8                    | 35.8 | 35.8 | 32.3 | 28.8 | 25.3 |

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condensate fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**ZB102 (8.5 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |  |  |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|--|--|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |  |  |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |  |  |  |  |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |  |  |  |  |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 45°F                    |      |      |      |      |      |  |  |  |  |
| 2125                   | 77      | 67.8                                 | 4.7                           | 2.9                     | 0.4  | -    | -    | -    | -    | 67.7                              | 5.1                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 66.5                                 | 4.6                           | 13.6                    | 11.1 | 8.6  | 6.2  | -    | -    | 63.2                              | 4.9                           | 8.9                     | 7.0  | 5.1  | 3.2  | -    | -    |  |  |  |  |
|                        | 67      | 65.2                                 | 4.5                           | 24.3                    | 21.8 | 19.3 | 16.9 | 14.4 | -    | 58.6                              | 4.7                           | 19.2                    | 17.2 | 15.3 | 13.4 | 11.5 | -    |  |  |  |  |
|                        | 62      | 60.5                                 | 4.3                           | 36.2                    | 33.7 | 31.3 | 28.8 | 26.3 | 23.8 | 53.1                              | 4.6                           | 29.6                    | 27.7 | 25.8 | 23.9 | 22.0 | 20.1 |  |  |  |  |
| 2550                   | 77      | 68.0                                 | 4.7                           | 4.0                     | 1.1  | -    | -    | -    | -    | 70.5                              | 5.1                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 67.0                                 | 4.6                           | 16.9                    | 13.9 | 11.0 | 8.0  | -    | -    | 65.8                              | 4.9                           | 11.6                    | 9.1  | 6.6  | 4.1  | -    | -    |  |  |  |  |
|                        | 67      | 66.0                                 | 4.5                           | 29.7                    | 26.7 | 23.8 | 20.9 | 17.9 | -    | 61.1                              | 4.7                           | 24.8                    | 22.3 | 19.8 | 17.2 | 14.7 | -    |  |  |  |  |
|                        | 62      | 61.3                                 | 4.3                           | 44.1                    | 41.2 | 38.3 | 35.3 | 32.4 | 29.4 | 55.3                              | 4.5                           | 38.3                    | 35.8 | 33.3 | 30.7 | 28.2 | 25.7 |  |  |  |  |
|                        | 57      | 61.2                                 | 4.3                           | 49.9                    | 47.0 | 44.0 | 41.1 | 38.1 | 35.2 | 52.2                              | 4.5                           | 43.0                    | 40.5 | 38.0 | 35.4 | 32.9 | 30.4 |  |  |  |  |
| 2975                   | 77      | 68.3                                 | 4.7                           | 5.2                     | 1.8  | -    | -    | -    | -    | 73.3                              | 5.1                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 67.5                                 | 4.6                           | 20.1                    | 16.7 | 13.3 | 9.9  | -    | -    | 68.4                              | 4.9                           | 14.4                    | 11.2 | 8.1  | 4.9  | -    | -    |  |  |  |  |
|                        | 67      | 66.7                                 | 4.5                           | 35.1                    | 31.7 | 28.3 | 24.8 | 21.4 | -    | 63.5                              | 4.7                           | 30.5                    | 27.3 | 24.2 | 21.0 | 17.9 | -    |  |  |  |  |
|                        | 62      | 62.1                                 | 4.3                           | 52.1                    | 48.7 | 45.2 | 41.8 | 38.4 | 35.0 | 57.5                              | 4.5                           | 47.0                    | 43.9 | 40.7 | 37.6 | 34.4 | 31.3 |  |  |  |  |
|                        | 57      | 62.1                                 | 4.3                           | 56.5                    | 55.0 | 52.1 | 48.7 | 45.3 | 41.9 | 54.3                              | 4.5                           | 49.7                    | 48.4 | 46.4 | 43.3 | 40.1 | 37.0 |  |  |  |  |
| 3400                   | 77      | 68.5                                 | 4.7                           | 6.3                     | 2.5  | -    | -    | -    | -    | 76.2                              | 5.1                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 68.0                                 | 4.6                           | 23.4                    | 19.5 | 15.7 | 11.8 | -    | -    | 71.1                              | 4.9                           | 17.1                    | 13.3 | 9.5  | 5.8  | -    | -    |  |  |  |  |
|                        | 67      | 67.4                                 | 4.5                           | 40.5                    | 36.6 | 32.7 | 28.8 | 25.0 | -    | 66.0                              | 4.7                           | 36.1                    | 32.4 | 28.6 | 24.8 | 21.0 | -    |  |  |  |  |
|                        | 62      | 62.9                                 | 4.3                           | 60.0                    | 56.1 | 52.2 | 48.4 | 44.5 | 40.6 | 59.7                              | 4.5                           | 55.7                    | 51.9 | 48.2 | 44.4 | 40.6 | 36.8 |  |  |  |  |
|                        | 57      | 63.1                                 | 4.3                           | 63.1                    | 63.1 | 60.2 | 56.3 | 52.4 | 48.6 | 56.4                              | 4.5                           | 56.4                    | 56.4 | 54.9 | 51.2 | 47.4 | 43.6 |  |  |  |  |
| 3825                   | 72      | 72.0                                 | 4.6                           | 26.3                    | 22.0 | 17.8 | 13.5 | -    | -    | 73.8                              | 4.9                           | 19.6                    | 15.3 | 10.9 | 6.6  | -    | -    |  |  |  |  |
|                        | 67      | 71.2                                 | 4.5                           | 45.0                    | 40.8 | 36.5 | 32.3 | 28.0 | -    | 68.5                              | 4.7                           | 41.4                    | 37.1 | 32.8 | 28.4 | 24.1 | -    |  |  |  |  |
|                        | 62      | 66.3                                 | 4.3                           | 64.9                    | 62.9 | 58.9 | 54.6 | 50.4 | 46.1 | 62.0                              | 4.5                           | 60.0                    | 58.1 | 55.2 | 50.8 | 46.5 | 42.2 |  |  |  |  |
|                        | 57      | 66.5                                 | 4.3                           | 66.5                    | 66.5 | 65.0 | 60.7 | 56.5 | 52.2 | 58.6                              | 4.5                           | 58.6                    | 58.6 | 57.9 | 53.5 | 49.2 | 44.9 |  |  |  |  |
| 4250                   | 72      | 75.9                                 | 4.6                           | 29.2                    | 24.6 | 19.9 | 15.3 | -    | -    | 76.5                              | 4.9                           | 22.1                    | 17.2 | 12.3 | 7.4  | -    | -    |  |  |  |  |
|                        | 67      | 75.0                                 | 4.5                           | 49.6                    | 45.0 | 40.4 | 35.7 | 31.1 | -    | 71.1                              | 4.7                           | 46.7                    | 41.8 | 36.9 | 32.0 | 27.1 | -    |  |  |  |  |
|                        | 62      | 69.7                                 | 4.3                           | 69.7                    | 69.7 | 65.5 | 60.9 | 56.3 | 51.7 | 64.3                              | 4.5                           | 64.3                    | 64.3 | 62.2 | 57.3 | 52.4 | 47.5 |  |  |  |  |
|                        | 57      | 69.8                                 | 4.3                           | 69.8                    | 69.8 | 69.8 | 65.2 | 60.6 | 55.9 | 60.8                              | 4.5                           | 60.8                    | 60.8 | 60.8 | 55.9 | 51.0 | 46.1 |  |  |  |  |
|                        |         | 55°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 65°F                    |      |      |      |      |      |  |  |  |  |
| 2125                   | 72      | 59.8                                 | 5.2                           | 4.3                     | 2.9  | 1.6  | -    | -    | -    | 55.3                              | 5.5                           | 2.1                     | 1.0  | -    | -    | -    | -    |  |  |  |  |
|                        | 67      | 52.1                                 | 5.0                           | 14.0                    | 12.7 | 11.3 | 10.0 | 8.6  | -    | 48.3                              | 5.2                           | 11.6                    | 10.5 | 9.4  | 8.3  | 7.2  | -    |  |  |  |  |
|                        | 62      | 45.6                                 | 4.8                           | 23.1                    | 21.7 | 20.4 | 19.0 | 17.7 | 16.3 | 41.7                              | 5.0                           | 20.5                    | 19.3 | 18.2 | 17.1 | 16.0 | 14.9 |  |  |  |  |
| 2550                   | 72      | 64.6                                 | 5.2                           | 6.4                     | 4.3  | 2.2  | -    | -    | -    | 58.8                              | 5.5                           | 3.4                     | 1.6  | -    | -    | -    | -    |  |  |  |  |
|                        | 67      | 56.2                                 | 5.0                           | 19.9                    | 17.8 | 15.7 | 13.6 | 11.5 | -    | 51.4                              | 5.2                           | 16.8                    | 15.1 | 13.3 | 11.5 | 9.7  | -    |  |  |  |  |
|                        | 62      | 49.3                                 | 4.8                           | 32.5                    | 30.4 | 28.3 | 26.2 | 24.0 | 21.9 | 44.3                              | 5.0                           | 29.4                    | 27.6 | 25.8 | 24.0 | 22.2 | 20.4 |  |  |  |  |
|                        | 57      | 43.3                                 | 4.7                           | 36.1                    | 34.0 | 31.9 | 29.8 | 27.6 | 25.5 | 41.0                              | 5.0                           | 32.5                    | 30.7 | 28.9 | 27.1 | 25.3 | 23.5 |  |  |  |  |
| 2975                   | 72      | 69.4                                 | 5.2                           | 8.6                     | 5.7  | 2.8  | -    | -    | -    | 62.3                              | 5.4                           | 4.7                     | 2.3  | -    | -    | -    | -    |  |  |  |  |
|                        | 67      | 60.4                                 | 5.0                           | 25.9                    | 23.0 | 20.1 | 17.2 | 14.3 | -    | 54.5                              | 5.2                           | 22.1                    | 19.6 | 17.1 | 14.7 | 12.2 | -    |  |  |  |  |
|                        | 62      | 52.9                                 | 4.8                           | 42.0                    | 39.1 | 36.2 | 33.3 | 30.4 | 27.5 | 47.0                              | 5.0                           | 38.2                    | 35.9 | 33.4 | 30.9 | 28.4 | 25.9 |  |  |  |  |
|                        | 57      | 46.5                                 | 4.7                           | 42.9                    | 41.9 | 40.8 | 37.9 | 35.0 | 32.1 | 43.4                              | 5.0                           | 39.2                    | 38.3 | 37.4 | 34.9 | 32.4 | 29.9 |  |  |  |  |
| 3400                   | 72      | 74.1                                 | 5.2                           | 10.7                    | 7.1  | 3.4  | -    | -    | -    | 65.8                              | 5.4                           | 6.1                     | 2.9  | -    | -    | -    | -    |  |  |  |  |
|                        | 67      | 64.5                                 | 4.9                           | 31.8                    | 28.1 | 24.5 | 20.8 | 17.1 | -    | 57.5                              | 5.2                           | 27.4                    | 24.2 | 21.0 | 17.8 | 14.7 | -    |  |  |  |  |
|                        | 62      | 56.5                                 | 4.7                           | 51.4                    | 47.7 | 44.1 | 40.4 | 36.7 | 33.1 | 49.6                              | 5.0                           | 47.1                    | 44.1 | 40.9 | 37.8 | 34.6 | 31.4 |  |  |  |  |
|                        | 57      | 49.7                                 | 4.7                           | 49.7                    | 49.7 | 49.7 | 46.0 | 42.4 | 38.7 | 45.9                              | 4.9                           | 45.9                    | 45.9 | 45.9 | 42.7 | 39.5 | 36.3 |  |  |  |  |
| 3825                   | 72      | 75.7                                 | 5.2                           | 12.9                    | 8.5  | 4.0  | -    | -    | -    | 67.3                              | 5.4                           | 7.4                     | 3.5  | -    | -    | -    | -    |  |  |  |  |
|                        | 67      | 65.8                                 | 4.9                           | 37.8                    | 33.4 | 29.0 | 24.6 | 20.1 | -    | 58.8                              | 5.2                           | 33.1                    | 29.1 | 25.2 | 21.3 | 17.4 | -    |  |  |  |  |
|                        | 62      | 57.7                                 | 4.7                           | 55.1                    | 53.3 | 51.5 | 47.0 | 42.6 | 38.2 | 50.8                              | 5.0                           | 49.5                    | 48.0 | 46.4 | 42.5 | 38.6 | 34.6 |  |  |  |  |
|                        | 57      | 50.7                                 | 4.7                           | 50.7                    | 50.7 | 50.7 | 46.3 | 41.9 | 37.5 | 46.9                              | 4.9                           | 46.9                    | 46.9 | 46.9 | 43.0 | 39.0 | 35.1 |  |  |  |  |
| 4250                   | 72      | 77.2                                 | 5.2                           | 15.0                    | 9.8  | 4.7  | -    | -    | -    | 68.7                              | 5.4                           | 8.7                     | 4.1  | -    | -    | -    | -    |  |  |  |  |
|                        | 67      | 67.1                                 | 5.0                           | 43.8                    | 38.6 | 33.5 | 28.3 | 23.1 | -    | 60.1                              | 5.2                           | 38.7                    | 34.1 | 29.4 | 24.8 | 20.1 | -    |  |  |  |  |
|                        | 62      | 58.8                                 | 4.8                           | 58.8                    | 58.8 | 58.8 | 53.7 | 48.5 | 43.3 | 51.9                              | 5.0                           | 51.9                    | 51.9 | 51.9 | 47.2 | 42.6 | 37.9 |  |  |  |  |
|                        | 57      | 51.7                                 | 4.7                           | 51.7                    | 51.7 | 51.7 | 46.6 | 41.4 | 36.2 | 47.9                              | 4.9                           | 47.9                    | 47.9 | 47.9 | 43.2 | 38.6 | 33.9 |  |  |  |  |

**ZB102 (8.5 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
|                        |         | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
| CFM                    | WB (°F) |                                      |                               | 75°F                    |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |
| 2125                   | 72      | 50.7                                 | 5.7                           | -                       | -    | -    | -    | -    | -    | 46.2                              | 6.0                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 44.6                                 | 5.5                           | 9.1                     | 8.3  | 7.5  | 6.6  | 5.8  | -    | 40.9                              | 5.7                           | 6.7                     | 6.1  | 5.5  | 4.9  | 4.3  | -    |
|                        | 62      | 37.7                                 | 5.3                           | 17.9                    | 16.9 | 16.0 | 15.2 | 14.4 | 13.5 | 33.8                              | 5.5                           | 15.4                    | 14.5 | 13.9 | 13.3 | 12.7 | 12.1 |
| 2550                   | 72      | 53.0                                 | 5.7                           | 0.4                     | -    | -    | -    | -    | -    | 47.2                              | 6.0                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 46.6                                 | 5.5                           | 13.8                    | 12.3 | 10.8 | 9.4  | 7.9  | -    | 41.8                              | 5.7                           | 10.7                    | 9.5  | 8.4  | 7.3  | 6.1  | -    |
|                        | 62      | 39.4                                 | 5.3                           | 26.2                    | 24.8 | 23.3 | 21.8 | 20.4 | 18.9 | 34.5                              | 5.5                           | 23.1                    | 21.9 | 20.8 | 19.7 | 18.5 | 17.4 |
|                        | 57      | 38.7                                 | 5.2                           | 28.8                    | 27.3 | 25.9 | 24.4 | 23.0 | 21.5 | 36.4                              | 5.5                           | 25.2                    | 24.0 | 22.9 | 21.7 | 20.6 | 19.5 |
| 2975                   | 72      | 55.2                                 | 5.7                           | 0.9                     | -    | -    | -    | -    | -    | 48.2                              | 6.0                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 48.6                                 | 5.5                           | 18.4                    | 16.3 | 14.2 | 12.1 | 10.0 | -    | 42.7                              | 5.7                           | 14.6                    | 12.9 | 11.3 | 9.6  | 7.9  | -    |
|                        | 62      | 41.1                                 | 5.3                           | 34.5                    | 32.6 | 30.6 | 28.5 | 26.4 | 24.3 | 35.2                              | 5.5                           | 30.8                    | 29.4 | 27.7 | 26.1 | 24.4 | 22.7 |
|                        | 57      | 40.4                                 | 5.2                           | 35.4                    | 34.7 | 33.9 | 31.9 | 29.8 | 27.7 | 37.3                              | 5.5                           | 31.7                    | 31.1 | 30.5 | 28.8 | 27.2 | 25.5 |
| 3400                   | 72      | 57.5                                 | 5.7                           | 1.4                     | -    | -    | -    | -    | -    | 49.2                              | 5.9                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 50.6                                 | 5.5                           | 23.0                    | 20.3 | 17.6 | 14.9 | 12.2 | -    | 43.6                              | 5.7                           | 18.6                    | 16.3 | 14.1 | 11.9 | 9.7  | -    |
|                        | 62      | 42.8                                 | 5.3                           | 42.8                    | 40.5 | 37.8 | 35.1 | 32.4 | 29.7 | 35.9                              | 5.5                           | 35.9                    | 35.9 | 34.7 | 32.4 | 30.2 | 28.0 |
|                        | 57      | 42.0                                 | 5.2                           | 42.0                    | 42.0 | 42.0 | 39.3 | 36.6 | 33.9 | 38.2                              | 5.5                           | 38.2                    | 38.2 | 38.2 | 35.9 | 33.7 | 31.5 |
| 3825                   | 72      | 58.9                                 | 5.7                           | 1.9                     | -    | -    | -    | -    | -    | 50.5                              | 5.9                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 51.8                                 | 5.5                           | 28.3                    | 24.9 | 21.5 | 18.1 | 14.7 | -    | 44.8                              | 5.7                           | 23.6                    | 20.6 | 17.7 | 14.8 | 11.9 | -    |
|                        | 62      | 43.8                                 | 5.3                           | 43.8                    | 42.7 | 41.3 | 37.9 | 34.5 | 31.1 | 36.9                              | 5.5                           | 36.9                    | 36.9 | 36.3 | 33.4 | 30.5 | 27.5 |
|                        | 57      | 43.0                                 | 5.2                           | 43.0                    | 43.0 | 43.0 | 39.6 | 36.2 | 32.8 | 39.2                              | 5.5                           | 39.2                    | 39.2 | 39.2 | 36.3 | 33.4 | 30.5 |
| 4250                   | 72      | 60.3                                 | 5.7                           | 2.4                     | -    | -    | -    | -    | -    | 51.9                              | 5.9                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 53.1                                 | 5.5                           | 33.6                    | 29.5 | 25.4 | 21.3 | 17.1 | -    | 46.0                              | 5.7                           | 28.5                    | 24.9 | 21.3 | 17.7 | 14.1 | -    |
|                        | 62      | 44.9                                 | 5.3                           | 44.9                    | 44.9 | 44.9 | 40.7 | 36.6 | 32.5 | 37.9                              | 5.5                           | 37.9                    | 37.9 | 37.9 | 34.3 | 30.7 | 27.1 |
|                        | 57      | 44.1                                 | 5.2                           | 44.1                    | 44.1 | 44.1 | 39.9 | 35.8 | 31.7 | 40.2                              | 5.5                           | 40.2                    | 40.2 | 40.2 | 36.6 | 33.0 | 29.4 |

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condensate fan motors (total 1 kW) and the compressor motors but not the supply air blower motor

**ZB120 (10 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 45°F                    |      |      |      |      |      |
| 2500                   | 77      | 84.0                                 | 5.5                           | 1.4                     | -    | -    | -    | -    | -    | 82.1                              | 6.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 82.1                                 | 5.5                           | 14.5                    | 11.8 | 9.2  | 6.5  | -    | -    | 78.1                              | 5.9                           | 8.9                     | 6.8  | 4.7  | 2.6  | -    | -    |
|                        | 67      | 80.2                                 | 5.5                           | 27.6                    | 24.9 | 22.2 | 19.6 | 16.9 | -    | 74.1                              | 5.7                           | 21.5                    | 19.4 | 17.3 | 15.3 | 13.2 | -    |
|                        | 62      | 72.6                                 | 5.3                           | 40.9                    | 38.2 | 35.6 | 32.9 | 30.2 | 27.6 | 67.3                              | 5.5                           | 34.7                    | 32.6 | 30.6 | 28.5 | 26.4 | 24.3 |
| 3000                   | 77      | 87.0                                 | 5.5                           | 2.5                     | -    | -    | -    | -    | -    | 85.3                              | 6.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 85.0                                 | 5.5                           | 18.6                    | 15.3 | 11.9 | 8.5  | -    | -    | 81.2                              | 5.9                           | 11.8                    | 9.0  | 6.1  | 3.3  | -    | -    |
|                        | 67      | 83.1                                 | 5.4                           | 34.8                    | 31.4 | 28.1 | 24.7 | 21.3 | -    | 77.0                              | 5.7                           | 28.2                    | 25.4 | 22.6 | 19.8 | 17.0 | -    |
|                        | 62      | 75.2                                 | 5.2                           | 51.2                    | 47.8 | 44.4 | 41.1 | 37.7 | 34.3 | 70.0                              | 5.5                           | 45.4                    | 42.6 | 39.8 | 37.0 | 34.2 | 31.4 |
| 3500                   | 57      | 67.8                                 | 5.2                           | 56.0                    | 52.6 | 49.3 | 45.9 | 42.5 | 39.2 | 62.5                              | 5.4                           | 50.2                    | 47.4 | 44.6 | 41.8 | 39.0 | 36.2 |
|                        | 77      | 89.9                                 | 5.5                           | 3.6                     | -    | -    | -    | -    | -    | 88.6                              | 6.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 87.9                                 | 5.4                           | 22.8                    | 18.7 | 14.7 | 10.6 | -    | -    | 84.2                              | 5.9                           | 14.6                    | 11.1 | 7.6  | 4.0  | -    | -    |
|                        | 67      | 85.9                                 | 5.4                           | 42.0                    | 37.9 | 33.9 | 29.8 | 25.8 | -    | 79.9                              | 5.7                           | 34.9                    | 31.4 | 27.8 | 24.3 | 20.8 | -    |
| 4000                   | 62      | 77.8                                 | 5.2                           | 61.5                    | 57.4 | 53.3 | 49.3 | 45.2 | 41.1 | 72.6                              | 5.5                           | 56.1                    | 52.6 | 49.1 | 45.5 | 42.0 | 38.5 |
|                        | 57      | 70.2                                 | 5.2                           | 64.3                    | 62.6 | 59.1 | 55.0 | 51.0 | 46.9 | 64.9                              | 5.4                           | 58.7                    | 57.3 | 54.9 | 51.4 | 47.9 | 44.3 |
|                        | 77      | 92.9                                 | 5.4                           | 4.7                     | -    | -    | -    | -    | -    | 91.8                              | 6.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 90.8                                 | 5.4                           | 26.9                    | 22.2 | 17.4 | 12.7 | -    | -    | 87.3                              | 5.9                           | 17.5                    | 13.3 | 9.0  | 4.7  | -    | -    |
| 4500                   | 67      | 88.8                                 | 5.4                           | 49.2                    | 44.5 | 39.7 | 34.9 | 30.2 | -    | 82.8                              | 5.7                           | 41.6                    | 37.3 | 33.1 | 28.8 | 24.6 | -    |
|                        | 62      | 80.4                                 | 5.2                           | 71.7                    | 67.0 | 62.2 | 57.5 | 52.7 | 47.9 | 75.3                              | 5.5                           | 66.8                    | 62.6 | 58.3 | 54.1 | 49.8 | 45.5 |
|                        | 57      | 72.5                                 | 5.1                           | 72.5                    | 72.5 | 68.9 | 64.1 | 59.4 | 54.6 | 67.3                              | 5.4                           | 67.3                    | 67.3 | 65.3 | 61.1 | 56.8 | 52.5 |
|                        | 72      | 88.9                                 | 5.3                           | 28.8                    | 24.0 | 19.1 | 14.3 | -    | -    | 86.5                              | 5.9                           | 19.0                    | 14.4 | 9.9  | 5.3  | -    | -    |
| 5000                   | 67      | 87.0                                 | 5.3                           | 52.7                    | 47.8 | 43.0 | 38.2 | 33.3 | -    | 82.0                              | 5.7                           | 45.4                    | 40.9 | 36.3 | 31.8 | 27.2 | -    |
|                        | 62      | 78.7                                 | 5.1                           | 74.4                    | 72.0 | 67.1 | 62.3 | 57.4 | 52.6 | 74.5                              | 5.5                           | 70.3                    | 68.2 | 64.1 | 59.5 | 55.0 | 50.4 |
|                        | 57      | 71.0                                 | 5.1                           | 71.0                    | 71.0 | 69.2 | 64.4 | 59.6 | 54.7 | 66.6                              | 5.4                           | 66.6                    | 66.6 | 65.6 | 61.1 | 56.5 | 52.0 |
|                        | 72      | 87.0                                 | 5.3                           | 30.6                    | 25.7 | 20.8 | 15.9 | -    | -    | 85.6                              | 5.8                           | 20.4                    | 15.6 | 10.8 | 5.9  | -    | -    |
| 5500                   | 67      | 85.2                                 | 5.3                           | 56.1                    | 51.2 | 46.3 | 41.4 | 36.5 | -    | 81.2                              | 5.7                           | 49.2                    | 44.4 | 39.6 | 34.8 | 29.9 | -    |
|                        | 62      | 77.1                                 | 5.1                           | 77.1                    | 77.1 | 72.0 | 67.1 | 62.2 | 57.3 | 73.8                              | 5.4                           | 73.8                    | 73.8 | 69.8 | 64.9 | 60.1 | 55.3 |
|                        | 57      | 69.6                                 | 5.0                           | 69.6                    | 69.6 | 69.6 | 64.7 | 59.7 | 54.8 | 65.9                              | 5.4                           | 65.9                    | 65.9 | 65.9 | 61.1 | 56.3 | 51.4 |
|                        | 55°F    |                                      |                               |                         |      |      |      |      |      |                                   | 65°F                          |                         |      |      |      |      |      |
| 2500                   | 77      | 80.2                                 | 6.7                           | -                       | -    | -    | -    | -    | -    | 77.7                              | 7.0                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 74.1                                 | 6.4                           | 3.3                     | 1.8  | 0.3  | -    | -    | -    | 69.9                              | 6.7                           | 1.2                     | 0.2  | -    | -    | -    | -    |
|                        | 67      | 68.0                                 | 6.0                           | 15.4                    | 13.9 | 12.4 | 10.9 | 9.4  | -    | 62.0                              | 6.4                           | 12.2                    | 11.0 | 9.8  | 8.7  | 7.5  | -    |
|                        | 62      | 62.0                                 | 5.7                           | 28.6                    | 27.1 | 25.6 | 24.1 | 22.6 | 21.1 | 55.1                              | 6.1                           | 23.1                    | 21.9 | 20.8 | 19.6 | 18.4 | 17.3 |
| 3000                   | 77      | 83.7                                 | 6.7                           | -                       | -    | -    | -    | -    | -    | 80.8                              | 7.0                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 77.3                                 | 6.4                           | 4.9                     | 2.6  | 0.4  | -    | -    | -    | 72.6                              | 6.7                           | 1.9                     | 0.3  | -    | -    | -    | -    |
|                        | 67      | 70.9                                 | 6.1                           | 21.6                    | 19.4 | 17.1 | 14.9 | 12.6 | -    | 64.4                              | 6.4                           | 18.3                    | 16.4 | 14.4 | 12.5 | 10.6 | -    |
|                        | 62      | 64.7                                 | 5.7                           | 39.7                    | 37.4 | 35.2 | 32.9 | 30.7 | 28.4 | 57.2                              | 6.1                           | 34.4                    | 32.5 | 30.6 | 28.6 | 26.7 | 24.8 |
| 3500                   | 57      | 57.2                                 | 5.7                           | 44.4                    | 42.2 | 39.9 | 37.6 | 35.4 | 33.1 | 52.7                              | 6.0                           | 38.3                    | 36.4 | 34.4 | 32.5 | 30.6 | 28.7 |
|                        | 77      | 87.2                                 | 6.7                           | -                       | -    | -    | -    | -    | -    | 83.8                              | 7.0                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 80.6                                 | 6.4                           | 6.5                     | 3.5  | 0.5  | -2.5 | -    | -    | 75.3                              | 6.7                           | 2.7                     | 0.5  | -    | -    | -    | -    |
|                        | 67      | 73.9                                 | 6.1                           | 27.8                    | 24.8 | 21.8 | 18.8 | 15.8 | -    | 66.9                              | 6.4                           | 24.4                    | 21.7 | 19.0 | 16.4 | 13.7 | -    |
| 4000                   | 62      | 67.5                                 | 5.8                           | 50.8                    | 47.8 | 44.8 | 41.8 | 38.8 | 35.8 | 59.4                              | 6.1                           | 45.7                    | 43.0 | 40.3 | 37.7 | 35.0 | 32.3 |
|                        | 57      | 59.6                                 | 5.7                           | 53.2                    | 52.1 | 50.8 | 47.8 | 44.8 | 41.8 | 54.7                              | 6.0                           | 47.5                    | 46.5 | 45.5 | 42.8 | 40.1 | 37.4 |
|                        | 77      | 90.7                                 | 6.7                           | -                       | -    | -    | -    | -    | -    | 86.8                              | 7.1                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 83.8                                 | 6.4                           | 8.1                     | 4.3  | 0.6  | -    | -    | -    | 78.0                              | 6.7                           | 3.4                     | 0.6  | -    | -    | -    | -    |
| 4500                   | 67      | 76.9                                 | 6.1                           | 34.0                    | 30.2 | 26.5 | 22.7 | 19.0 | -    | 69.3                              | 6.4                           | 30.5                    | 27.1 | 23.6 | 20.2 | 16.8 | -    |
|                        | 62      | 70.2                                 | 5.8                           | 61.9                    | 58.2 | 54.4 | 50.7 | 46.9 | 43.2 | 61.6                              | 6.1                           | 57.0                    | 53.6 | 50.1 | 46.7 | 43.3 | 39.8 |
|                        | 57      | 62.0                                 | 5.7                           | 62.0                    | 62.0 | 61.7 | 58.0 | 54.2 | 50.5 | 56.7                              | 6.0                           | 56.7                    | 56.7 | 56.5 | 53.0 | 49.6 | 46.2 |
|                        | 72      | 84.0                                 | 6.4                           | 9.2                     | 4.9  | 0.7  | -    | -    | -    | 79.1                              | 6.7                           | 3.9                     | 0.9  | -    | -    | -    | -    |
| 5000                   | 67      | 77.0                                 | 6.1                           | 38.2                    | 33.9 | 29.7 | 25.4 | 21.1 | -    | 70.2                              | 6.4                           | 35.7                    | 31.6 | 27.5 | 23.5 | 19.4 | -    |
|                        | 62      | 70.3                                 | 5.8                           | 66.2                    | 64.3 | 61.0 | 56.7 | 52.5 | 48.2 | 62.3                              | 6.1                           | 60.0                    | 58.3 | 55.9 | 51.8 | 47.8 | 43.7 |
|                        | 57      | 62.2                                 | 5.7                           | 62.2                    | 62.2 | 62.0 | 57.8 | 53.5 | 49.3 | 57.4                              | 6.0                           | 57.4                    | 57.4 | 57.3 | 53.3 | 49.2 | 45.1 |
|                        | 72      | 84.2                                 | 6.4                           | 10.2                    | 5.5  | 0.7  | -    | -    | -    | 80.1                              | 6.7                           | 4.4                     | 1.0  | -    | -    | -    | -    |
| 5500                   | 67      | 77.2                                 | 6.1                           | 42.4                    | 37.6 | 32.8 | 28.1 | 23.3 | -    | 71.1                              | 6.4                           | 40.8                    | 36.1 | 31.4 | 26.7 | 22.1 | -    |
|                        | 62      | 70.5                                 | 5.8                           | 70.5                    | 70.5 | 67.5 | 62.8 | 58.0 | 53.3 | 63.1                              | 6.1                           | 63.1                    | 63.1 | 61.6 | 56.9 | 52.2 | 47.6 |
|                        | 57      | 62.3                                 | 5.7                           | 62.3                    | 62.3 | 62.3 | 57.6 | 52.8 | 48.1 | 58.2                              | 6.0                           | 58.2                    | 58.2 | 58.2 | 53.5 | 48.8 | 44.1 |

**ZB120 (10 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      | 85°F                              |                               |                         |      |      |      |      |      |
| 2500                   | 77      | 75.3                                 | 7.4                           | -                       | -    | -    | -    | -    | -    | 72.8                              | 7.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 65.7                                 | 7.1                           | -                       | -    | -    | -    | -    | -    | 61.4                              | 7.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 56.0                                 | 6.7                           | 8.9                     | 8.1  | 7.3  | 6.4  | 5.6  | -    | 50.1                              | 7.1                           | 5.6                     | 5.2  | 4.7  | 4.2  | 3.7  | -    |
|                        | 62      | 48.1                                 | 6.4                           | 17.6                    | 16.8 | 16.0 | 15.1 | 14.3 | 13.5 | 41.1                              | 6.8                           | 12.2                    | 11.7 | 11.2 | 10.7 | 10.2 | 9.7  |
| 3000                   | 77      | 77.8                                 | 7.4                           | -                       | -    | -    | -    | -    | -    | 74.8                              | 7.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 67.9                                 | 7.1                           | -                       | -    | -    | -    | -    | -    | 63.1                              | 7.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 57.9                                 | 6.7                           | 15.0                    | 13.4 | 11.8 | 10.2 | 8.6  | -    | 51.4                              | 7.1                           | 11.6                    | 10.4 | 9.1  | 7.8  | 6.6  | -    |
|                        | 62      | 49.7                                 | 6.4                           | 29.1                    | 27.5 | 25.9 | 24.3 | 22.8 | 21.2 | 42.2                              | 6.8                           | 23.8                    | 22.6 | 21.3 | 20.0 | 18.8 | 17.5 |
|                        | 57      | 48.2                                 | 6.4                           | 32.2                    | 30.6 | 29.0 | 27.4 | 25.8 | 24.2 | 43.7                              | 6.7                           | 26.0                    | 24.8 | 23.5 | 22.2 | 21.0 | 19.7 |
| 3500                   | 77      | 80.3                                 | 7.4                           | -                       | -    | -    | -    | -    | -    | 76.9                              | 7.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 70.1                                 | 7.1                           | -                       | -    | -    | -    | -    | -    | 64.8                              | 7.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 59.8                                 | 6.7                           | 21.0                    | 18.6 | 16.3 | 13.9 | 11.6 | -    | 52.8                              | 7.1                           | 17.6                    | 15.6 | 13.5 | 11.5 | 9.5  | -    |
|                        | 62      | 51.3                                 | 6.4                           | 40.6                    | 38.2 | 35.9 | 33.5 | 31.2 | 28.8 | 43.3                              | 6.8                           | 35.5                    | 33.5 | 31.4 | 29.4 | 27.4 | 25.4 |
|                        | 57      | 49.8                                 | 6.4                           | 41.8                    | 41.0 | 40.1 | 37.7 | 35.4 | 33.0 | 44.9                              | 6.7                           | 36.0                    | 35.4 | 34.7 | 32.7 | 30.7 | 28.7 |
| 4000                   | 77      | 82.9                                 | 7.4                           | -                       | -    | -    | -    | -    | -    | 78.9                              | 7.8                           | -                       | -    | -    | -    | -    | -    |
|                        | 72      | 72.3                                 | 7.1                           | -                       | -    | -    | -    | -    | -    | 66.5                              | 7.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 61.7                                 | 6.7                           | 27.0                    | 23.9 | 20.8 | 17.7 | 14.6 | -    | 54.1                              | 7.1                           | 23.6                    | 20.8 | 18.0 | 15.2 | 12.4 | -    |
|                        | 62      | 52.9                                 | 6.4                           | 52.1                    | 49.0 | 45.8 | 42.7 | 39.6 | 36.5 | 44.3                              | 6.8                           | 44.3                    | 44.3 | 41.6 | 38.8 | 36.0 | 33.2 |
|                        | 57      | 51.4                                 | 6.4                           | 51.4                    | 51.4 | 51.2 | 48.1 | 45.0 | 41.9 | 46.0                              | 6.7                           | 46.0                    | 46.0 | 46.0 | 43.2 | 40.4 | 37.6 |
| 4500                   | 72      | 74.2                                 | 7.1                           | -                       | -    | -    | -    | -    | -    | 69.2                              | 7.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 63.3                                 | 6.7                           | 33.1                    | 29.3 | 25.4 | 21.5 | 17.7 | -    | 56.4                              | 7.0                           | 30.6                    | 27.0 | 23.3 | 19.6 | 15.9 | -    |
|                        | 62      | 54.3                                 | 6.4                           | 53.9                    | 52.3 | 50.8 | 46.9 | 43.0 | 39.2 | 46.3                              | 6.8                           | 46.3                    | 46.3 | 45.7 | 42.0 | 38.3 | 34.6 |
|                        | 57      | 52.7                                 | 6.4                           | 52.7                    | 52.7 | 52.6 | 48.8 | 44.9 | 41.0 | 48.0                              | 6.7                           | 48.0                    | 48.0 | 47.9 | 44.3 | 40.6 | 36.9 |
| 5000                   | 72      | 76.0                                 | 7.1                           | -                       | -    | -    | -    | -    | -    | 71.9                              | 7.4                           | -                       | -    | -    | -    | -    | -    |
|                        | 67      | 64.9                                 | 6.7                           | 39.2                    | 34.6 | 30.0 | 25.4 | 20.8 | -    | 58.7                              | 7.0                           | 37.7                    | 33.1 | 28.6 | 24.0 | 19.5 | -    |
|                        | 62      | 55.7                                 | 6.4                           | 55.7                    | 55.7 | 55.7 | 51.1 | 46.5 | 41.8 | 48.3                              | 6.7                           | 48.3                    | 48.3 | 48.3 | 45.2 | 40.7 | 36.1 |
|                        | 57      | 54.0                                 | 6.4                           | 54.0                    | 54.0 | 54.0 | 49.4 | 44.8 | 40.2 | 49.9                              | 6.7                           | 49.9                    | 49.9 | 49.9 | 45.4 | 40.8 | 36.3 |

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.

2. These ratings include the condensate fan motors (total 1 kW) and the

compressor motors but not the supply air blower motor.

**ZB150 (12.5 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |  |  |  |  |  |  |  |  |  |  |
|                        |         | 35°F                                 |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      | 45°F |      |      |  |  |  |  |  |  |  |  |  |  |
| 3125                   | 77      | 110.5                                | 4.3                           | -                       | -    | -    | -    | -    | -    | 104.9                             | 5.4                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 72      | 101.8                                | 4.1                           | 17.1                    | 10.1 | 3.1  | -    | -    | -    | 99.3                              | 5.3                           | 9.8                     | 4.3  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 93.1                                 | 3.9                           | 73.2                    | 66.2 | 59.2 | 52.2 | 45.2 | -    | 93.7                              | 5.1                           | 55.5                    | 50.0 | 44.5 | 39.0 | 33.5 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 89.8                                 | 3.7                           | 89.8                    | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.0                              | 5.0                           | 89.0                    | 89.0 | 89.0 | 86.9 | 81.5 | 76.0 |  |  |  |  |  |  |  |  |  |  |
| 3750                   | 77      | 104.2                                | 5.5                           | -                       | -    | -    | -    | -    | -    | 100.8                             | 6.1                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 72      | 95.9                                 | 5.3                           | 13.7                    | 9.0  | 4.3  | -    | -    | -    | 95.4                              | 6.0                           | 8.4                     | 3.7  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 87.5                                 | 5.2                           | 53.6                    | 48.9 | 44.2 | 39.5 | 34.8 | -    | 90.0                              | 5.8                           | 49.0                    | 44.2 | 39.5 | 34.8 | 30.1 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 84.5                                 | 5.0                           | 84.5                    | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 85.5                              | 5.6                           | 85.5                    | 85.5 | 82.1 | 77.4 | 72.7 | 68.0 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 77.9                                 | 5.0                           | 77.9                    | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 80.9                              | 5.6                           | 80.9                    | 80.9 | 80.9 | 76.2 | 71.4 | 66.7 |  |  |  |  |  |  |  |  |  |  |
| 4375                   | 77      | 97.8                                 | 6.9                           | -                       | -    | -    | -    | -    | -    | 96.7                              | 6.8                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 72      | 89.9                                 | 6.7                           | 10.3                    | 7.9  | 5.5  | 3.0  | -    | -    | 91.5                              | 6.6                           | 6.9                     | 3.0  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 82.0                                 | 6.6                           | 34.1                    | 31.6 | 29.2 | 26.8 | 24.4 | -    | 86.3                              | 6.4                           | 42.4                    | 38.5 | 34.6 | 30.6 | 26.7 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 79.1                                 | 6.3                           | 77.2                    | 76.6 | 75.5 | 73.0 | 70.6 | 68.2 | 82.0                              | 6.2                           | 76.7                    | 75.1 | 71.8 | 67.9 | 63.9 | 60.0 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 72.9                                 | 6.3                           | 72.9                    | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 77.6                              | 6.2                           | 77.6                    | 77.6 | 77.6 | 73.6 | 69.7 | 65.8 |  |  |  |  |  |  |  |  |  |  |
| 5000                   | 77      | 91.5                                 | 8.1                           | -                       | -    | -    | -    | -    | -    | 92.6                              | 7.5                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 72      | 83.9                                 | 8.0                           | 6.9                     | 6.8  | 6.6  | 6.5  | -    | -    | 87.6                              | 7.3                           | 5.5                     | 2.4  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 76.4                                 | 7.9                           | 14.5                    | 14.3 | 14.2 | 14.1 | 13.9 | -    | 82.6                              | 7.1                           | 35.9                    | 32.8 | 29.6 | 26.5 | 23.3 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 73.8                                 | 7.6                           | 52.3                    | 46.3 | 46.2 | 46.1 | 45.9 | 45.8 | 78.6                              | 6.8                           | 67.8                    | 64.6 | 61.5 | 58.3 | 55.2 | 52.0 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 67.9                                 | 7.6                           | 67.9                    | 67.9 | 67.9 | 67.8 | 67.7 | 67.5 | 74.2                              | 6.8                           | 74.2                    | 74.2 | 74.2 | 71.1 | 67.9 | 64.8 |  |  |  |  |  |  |  |  |  |  |
| 5625                   | 72      | 89.0                                 | 7.2                           | 8.9                     | 7.1  | 5.3  | 3.4  | -    | -    | 90.6                              | 7.3                           | 6.2                     | 2.7  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 81.2                                 | 7.1                           | 28.4                    | 26.6 | 24.7 | 22.9 | 21.1 | -    | 85.5                              | 7.1                           | 38.4                    | 34.9 | 31.4 | 27.9 | 24.4 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 78.4                                 | 6.8                           | 72.1                    | 67.3 | 65.5 | 63.6 | 61.8 | 60.0 | 81.2                              | 6.8                           | 72.2                    | 68.7 | 65.2 | 61.6 | 58.1 | 54.6 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 72.2                                 | 6.8                           | 72.2                    | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 76.8                              | 6.8                           | 76.8                    | 76.8 | 76.8 | 73.3 | 69.8 | 66.3 |  |  |  |  |  |  |  |  |  |  |
| 6250                   | 72      | 94.2                                 | 6.6                           | 11.0                    | 7.4  | 3.9  | 0.4  | -    | -    | 93.6                              | 7.2                           | 6.9                     | 3.0  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 86.0                                 | 6.4                           | 42.3                    | 38.8 | 35.3 | 31.7 | 28.2 | -    | 88.3                              | 7.0                           | 40.9                    | 37.0 | 33.1 | 29.3 | 25.4 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 83.0                                 | 6.1                           | 83.0                    | 83.0 | 83.0 | 81.2 | 77.7 | 74.2 | 83.9                              | 6.8                           | 76.6                    | 72.7 | 68.8 | 65.0 | 61.1 | 57.2 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 76.6                                 | 6.1                           | 76.6                    | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 79.3                              | 6.8                           | 79.3                    | 79.3 | 79.3 | 75.5 | 71.6 | 67.7 |  |  |  |  |  |  |  |  |  |  |
|                        |         | 55°F                                 |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      | 65°F |      |      |  |  |  |  |  |  |  |  |  |  |
| 3125                   | 77      | 99.4                                 | 6.8                           | -                       | -    | -    | -    | -    | -    | 98.1                              | 7.2                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 72      | 96.8                                 | 6.6                           | 2.5                     | -    | -    | -    | -    | -    | 92.9                              | 7.0                           | 6.1                     | 2.4  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 94.2                                 | 6.4                           | 37.8                    | 33.8 | 29.8 | 25.9 | 21.9 | -    | 87.7                              | 6.8                           | 34.8                    | 31.0 | 27.3 | 23.5 | 19.8 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 88.3                                 | 6.3                           | 61.7                    | 54.8 | 50.9 | 46.9 | 42.9 | 39.0 | 80.4                              | 6.5                           | 60.3                    | 53.6 | 48.4 | 44.6 | 40.9 | 37.1 |  |  |  |  |  |  |  |  |  |  |
| 3750                   | 77      | 97.5                                 | 6.8                           | -                       | -    | -    | -    | -    | -    | 97.9                              | 7.3                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 72      | 95.0                                 | 6.5                           | 3.0                     | -    | -    | -    | -    | -    | 92.6                              | 7.0                           | 7.6                     | 3.0  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 92.4                                 | 6.3                           | 44.3                    | 39.6 | 34.9 | 30.2 | 25.5 | -    | 87.4                              | 6.7                           | 41.5                    | 37.0 | 32.5 | 28.0 | 23.4 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 86.6                                 | 6.2                           | 68.9                    | 64.2 | 59.5 | 54.8 | 50.1 | 45.4 | 80.1                              | 6.5                           | 66.7                    | 62.2 | 57.7 | 53.1 | 48.6 | 44.1 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 83.8                                 | 6.2                           | 71.8                    | 67.1 | 62.4 | 57.7 | 53.0 | 48.3 | 78.5                              | 6.5                           | 68.0                    | 63.5 | 59.0 | 54.5 | 49.9 | 45.4 |  |  |  |  |  |  |  |  |  |  |
| 4375                   | 77      | 95.6                                 | 6.9                           | -                       | -    | -    | -    | -    | -    | 97.7                              | 7.3                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 72      | 93.1                                 | 6.6                           | 3.6                     | -    | -    | -    | -    | -    | 92.4                              | 7.1                           | 9.0                     | 3.6  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 90.6                                 | 6.3                           | 50.8                    | 45.4 | 39.9 | 34.5 | 29.1 | -    | 87.1                              | 6.7                           | 48.3                    | 43.0 | 37.7 | 32.4 | 27.1 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 85.0                                 | 6.2                           | 76.1                    | 73.6 | 68.1 | 62.7 | 57.3 | 51.8 | 79.8                              | 6.5                           | 73.1                    | 70.8 | 67.0 | 61.7 | 56.4 | 51.0 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 82.2                                 | 6.1                           | 76.2                    | 73.8 | 71.5 | 66.1 | 60.6 | 55.2 | 78.2                              | 6.5                           | 73.0                    | 70.7 | 68.5 | 63.2 | 57.9 | 52.5 |  |  |  |  |  |  |  |  |  |  |
| 5000                   | 77      | 93.7                                 | 6.8                           | -                       | -    | -    | -    | -    | -    | 97.5                              | 7.2                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 72      | 91.3                                 | 6.5                           | 4.1                     | -    | -    | -    | -    | -    | 92.2                              | 6.9                           | 10.4                    | 4.3  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 88.9                                 | 6.3                           | 57.3                    | 51.2 | 45.0 | 38.8 | 32.7 | -    | 86.9                              | 6.7                           | 55.1                    | 49.0 | 42.9 | 36.8 | 30.7 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 83.3                                 | 6.1                           | 83.3                    | 83.0 | 76.8 | 70.6 | 64.5 | 58.3 | 79.5                              | 6.5                           | 79.5                    | 79.4 | 76.3 | 70.2 | 64.1 | 58.0 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 80.6                                 | 6.1                           | 80.6                    | 80.6 | 80.6 | 74.4 | 68.2 | 62.1 | 78.0                              | 6.4                           | 78.0                    | 78.0 | 78.0 | 71.9 | 65.8 | 59.7 |  |  |  |  |  |  |  |  |  |  |
| 5625                   | 72      | 92.2                                 | 7.3                           | 3.4                     | -    | -    | -    | -    | -    | 92.5                              | 7.7                           | 8.8                     | 3.6  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 89.7                                 | 7.0                           | 48.4                    | 43.2 | 38.0 | 32.8 | 27.6 | -    | 87.2                              | 7.4                           | 46.6                    | 41.4 | 36.3 | 31.1 | 25.9 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 84.1                                 | 6.8                           | 72.3                    | 70.0 | 64.8 | 59.7 | 54.5 | 49.3 | 79.8                              | 7.2                           | 70.3                    | 68.1 | 64.5 | 59.3 | 54.1 | 48.9 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 81.3                                 | 6.8                           | 72.2                    | 70.1 | 68.0 | 62.8 | 57.7 | 52.5 | 78.3                              | 7.1                           | 70.1                    | 68.0 | 65.9 | 60.7 | 55.5 | 50.3 |  |  |  |  |  |  |  |  |  |  |
| 6250                   | 72      | 93.1                                 | 8.0                           | 2.8                     | -    | -    | -    | -    | -    | 92.8                              | 8.3                           | 7.2                     | 3.0  | -    | -    | -    | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 67      | 90.6                                 | 7.7                           | 39.4                    | 35.2 | 31.0 | 26.8 | 22.6 | -    | 87.5                              | 8.1                           | 38.1                    | 33.9 | 29.6 | 25.4 | 21.1 | -    |  |  |  |  |  |  |  |  |  |  |
|                        | 62      | 84.9                                 | 7.6                           | 61.3                    | 57.1 | 52.9 | 48.7 | 44.5 | 40.3 | 80.1                              | 7.9                           | 61.1                    | 56.9 | 52.6 | 48.4 | 44.1 | 39.9 |  |  |  |  |  |  |  |  |  |  |
|                        | 57      | 82.1                                 | 7.5                           | 63.9                    | 59.7 | 55.5 | 51.3 | 47.1 | 42.9 | 78.5                              | 7.8                           | 62.3                    | 58.0 | 53.8 | 49.5 | 45.3 | 41.0 |  |  |  |  |  |  |  |  |  |  |

**ZB150 (12.5 ton) reheat capacity**

| Air on evaporator coil |         | Temperature of air on condenser coil |                               |                         |      |      |      |      |      |                                   |                               |                         |      |      |      |      |      |  |  |  |  |
|------------------------|---------|--------------------------------------|-------------------------------|-------------------------|------|------|------|------|------|-----------------------------------|-------------------------------|-------------------------|------|------|------|------|------|--|--|--|--|
| CFM                    | WB (°F) | Total capacity <sup>1</sup> (MBh)    | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      | Total capacity <sup>1</sup> (MBh) | Total input <sup>2</sup> (kW) | Sensible capacity (MBh) |      |      |      |      |      |  |  |  |  |
|                        |         |                                      |                               | Return dry bulb (°F)    |      |      |      |      |      |                                   |                               | Return dry bulb (°F)    |      |      |      |      |      |  |  |  |  |
|                        |         |                                      |                               | 90                      | 85   | 80   | 75   | 70   | 65   |                                   |                               | 90                      | 85   | 80   | 75   | 70   | 65   |  |  |  |  |
|                        |         | 75°F                                 |                               |                         |      |      |      |      |      |                                   |                               | 85°F                    |      |      |      |      |      |  |  |  |  |
| 3125                   | 77      | 96.8                                 | 7.9                           | -                       | -    | -    | -    | -    | -    | 95.5                              | 7.7                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 89.0                                 | 7.5                           | 9.8                     | 6.3  | 2.8  | -    | -    | -    | 85.0                              | 7.6                           | 13.5                    | 10.2 | 6.9  | 3.6  | -    | -    |  |  |  |  |
|                        | 67      | 81.1                                 | 7.1                           | 31.8                    | 28.2 | 24.7 | 21.2 | 17.7 | -    | 74.6                              | 7.2                           | 28.8                    | 25.5 | 22.2 | 18.9 | 15.6 | -    |  |  |  |  |
|                        | 62      | 72.5                                 | 6.8                           | 58.9                    | 52.4 | 45.9 | 42.4 | 38.8 | 35.3 | 64.6                              | 7.1                           | 57.6                    | 51.2 | 43.4 | 40.1 | 36.8 | 33.5 |  |  |  |  |
| 3750                   | 77      | 98.2                                 | 7.9                           | -                       | -    | -    | -    | -    | -    | 98.6                              | 7.8                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 90.3                                 | 7.5                           | 12.1                    | 7.7  | 3.4  | -    | -    | -    | 88.0                              | 7.6                           | 16.6                    | 12.4 | 8.2  | 4.0  | -    | -    |  |  |  |  |
|                        | 67      | 82.4                                 | 7.1                           | 38.8                    | 34.5 | 30.1 | 25.7 | 21.4 | -    | 77.4                              | 7.5                           | 36.1                    | 31.9 | 27.7 | 23.5 | 19.3 | -    |  |  |  |  |
|                        | 62      | 73.6                                 | 6.8                           | 64.6                    | 60.2 | 55.8 | 51.5 | 47.1 | 42.8 | 67.1                              | 7.1                           | 62.4                    | 58.2 | 54.0 | 49.8 | 45.6 | 41.5 |  |  |  |  |
| 4375                   | 77      | 99.7                                 | 7.9                           | -                       | -    | -    | -    | -    | -    | 101.8                             | 7.9                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 91.7                                 | 7.5                           | 14.4                    | 9.2  | 4.0  | -    | -    | -    | 90.9                              | 7.7                           | 19.8                    | 14.7 | 9.6  | 4.5  | -    | -    |  |  |  |  |
|                        | 67      | 83.6                                 | 7.1                           | 45.9                    | 40.7 | 35.5 | 30.3 | 25.1 | -    | 80.1                              | 7.5                           | 43.4                    | 38.3 | 33.2 | 28.2 | 23.1 | -    |  |  |  |  |
|                        | 62      | 74.7                                 | 6.8                           | 70.2                    | 68.0 | 65.8 | 60.6 | 55.4 | 50.2 | 69.6                              | 7.1                           | 67.2                    | 65.2 | 64.7 | 59.6 | 54.5 | 49.4 |  |  |  |  |
| 5000                   | 77      | 101.2                                | 7.8                           | -                       | -    | -    | -    | -    | -    | 104.9                             | 7.8                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 93.0                                 | 7.5                           | 16.6                    | 10.6 | 4.6  | -    | -    | -    | 93.9                              | 7.6                           | 22.9                    | 16.9 | 11.0 | 5.0  | -    | -    |  |  |  |  |
|                        | 67      | 84.8                                 | 7.1                           | 52.9                    | 46.9 | 40.9 | 34.8 | 28.8 | -    | 82.8                              | 7.5                           | 50.7                    | 44.8 | 38.8 | 32.8 | 26.8 | -    |  |  |  |  |
|                        | 62      | 75.8                                 | 6.8                           | 75.8                    | 75.8 | 75.8 | 69.8 | 63.7 | 57.7 | 72.1                              | 7.1                           | 72.1                    | 72.1 | 72.1 | 69.3 | 63.4 | 57.4 |  |  |  |  |
| 5625                   | 77      | 101.2                                | 7.8                           | -                       | -    | -    | -    | -    | -    | 104.9                             | 7.8                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 93.0                                 | 7.5                           | 16.6                    | 10.6 | 4.6  | -    | -    | -    | 93.9                              | 7.6                           | 22.9                    | 16.9 | 11.0 | 5.0  | -    | -    |  |  |  |  |
|                        | 67      | 84.8                                 | 7.1                           | 52.9                    | 46.9 | 40.9 | 34.8 | 28.8 | -    | 82.8                              | 7.5                           | 50.7                    | 44.8 | 38.8 | 32.8 | 26.8 | -    |  |  |  |  |
|                        | 62      | 75.8                                 | 6.8                           | 75.8                    | 75.8 | 75.8 | 69.8 | 63.7 | 57.7 | 72.1                              | 7.1                           | 72.1                    | 72.1 | 72.1 | 69.3 | 63.4 | 57.4 |  |  |  |  |
| 6250                   | 77      | 101.2                                | 7.8                           | -                       | -    | -    | -    | -    | -    | 104.9                             | 7.8                           | -                       | -    | -    | -    | -    | -    |  |  |  |  |
|                        | 72      | 93.0                                 | 7.5                           | 16.6                    | 10.6 | 4.6  | -    | -    | -    | 93.9                              | 7.6                           | 22.9                    | 16.9 | 11.0 | 5.0  | -    | -    |  |  |  |  |
|                        | 67      | 84.8                                 | 7.1                           | 52.9                    | 46.9 | 40.9 | 34.8 | 28.8 | -    | 82.8                              | 7.5                           | 50.7                    | 44.8 | 38.8 | 32.8 | 26.8 | -    |  |  |  |  |
|                        | 62      | 75.8                                 | 6.8                           | 75.8                    | 75.8 | 75.8 | 69.8 | 63.7 | 57.7 | 72.1                              | 7.1                           | 72.1                    | 72.1 | 72.1 | 69.3 | 63.4 | 57.4 |  |  |  |  |

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condensate fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.



## Drive selection

1. Determine side or bottom supply duct application.
2. Determine desired airflow.
3. Calculate or measure the amount of external static pressure.
4. With the operating point determined from steps 1, 2, and 3, locate this point on the appropriate supply air blower performance table. Linear interpolation may be necessary.
5. Note the RPM and BHP from step 4 and locate the appropriate motor and/or drive.
6. Review the BHP compared to the motor options available. Select the appropriate motor and/or drive.
7. Review the RPM range for the motor options available. Select the appropriate drive if multiple drives are available for the chosen motor.
8. Determine the turns open to obtain the desired operation point.

### Example

1. 2400 CFM
2. 1.6 IWC
3. Using the supply air blower performance table below, the following data point was located: 1230 RPM and 1.62 BHP.
4. Using the RPM selection table below, Size X and Model Y is found.
5. 1.62 BHP exceeds the maximum continuous BHP rating of the 1.5 HP motor. The 2 HP motor is required.
6. 1230 RPM is within the range of the 2 HP drives.
7. Using the 2 HP motor and drive, .5 turns open achieves 1230 RPM.

## Airflow performance

### Example supply air blower performance

| Air flow<br>(CFM) | Available external static pressure - IWG |      |     |      |      |      |                           |      |      |      |                        |      |      |      |
|-------------------|------------------------------------------|------|-----|------|------|------|---------------------------|------|------|------|------------------------|------|------|------|
|                   | 0.2                                      |      | 0.4 |      | 0.6  |      | 0.8                       |      | 1.0  |      | 1.2                    |      | 1.4  |      |
|                   | RPM                                      | BHP  | RPM | BHP  | RPM  | BHP  | RPM                       | BHP  | RPM  | BHP  | RPM                    | BHP  | RPM  | BHP  |
|                   | 1.5 HP & Field supplied drive            |      |     |      |      |      | Standard 1.5 HP and drive |      |      |      | Alternate 2 HP & Drive |      |      |      |
| 2200              | 804                                      | 0.50 | 866 | 0.71 | 925  | 0.90 | 982                       | 1.06 | 1038 | 1.21 | 1092                   | 1.35 | 1147 | 1.48 |
| 2400              | 835                                      | 0.66 | 897 | 0.87 | 956  | 1.06 | 1013                      | 1.22 | 1069 | 1.37 | 1124                   | 1.51 | 1178 | 1.64 |
| 2600              | 869                                      | 0.84 | 931 | 1.05 | 990  | 1.24 | 1047                      | 1.40 | 1103 | 1.55 | 1158                   | 1.69 | 1212 | 1.82 |
| 2800              | 906                                      | 1.03 | 968 | 1.25 | 1027 | 1.43 | 1084                      | 1.60 | 1139 | 1.75 | 1194                   | 1.89 | 1249 | 2.02 |
|                   |                                          |      |     |      |      |      |                           |      |      |      |                        |      | 1268 | 1.95 |
|                   |                                          |      |     |      |      |      |                           |      |      |      |                        |      | 1324 | 2.07 |
|                   |                                          |      |     |      |      |      |                           |      |      |      |                        |      | 1382 | 2.21 |
|                   |                                          |      |     |      |      |      |                           |      |      |      |                        |      | -    | -    |

### Example RPM selection

| Size<br>(ton) | Model | Airflow<br>option | HP  | Max.<br>BHP | Motor<br>sheave | Blower<br>sheave | 6 turns<br>open | 5 turns<br>open | 4 turns<br>open | 3 turns<br>open | 2 turns<br>open | 1 turn<br>open | Fully<br>closed |
|---------------|-------|-------------------|-----|-------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|
| X             | Y     | Std.              | 1.5 | 1.73        | 1VM50           | AK74             | N/A             | 897             | 945             | 991             | 1035            | 1079           | 1126            |
|               |       | H. Static         | 2   | 2.30        | 1VM50           | AK64             | N/A             | 1039            | 1094            | 1150            | 1207            | 1256           | 1308            |

### Example additional static resistance

| Size (ton) | Model | CFM  | Cooling only | Economizer | 4-in. pleated filter | Electric heat kW |      |      |      |      |      |
|------------|-------|------|--------------|------------|----------------------|------------------|------|------|------|------|------|
|            |       |      |              |            |                      | 3                | 6    | 9    | 15   | 20   | 24   |
| X          | Y     | 900  | 0.05         | -0.05      | 0.01                 | 0.00             | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
|            |       | 1000 | 0.05         | -0.03      | 0.02                 | 0.00             | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 |
|            |       | 1100 | 0.04         | -0.02      | 0.03                 | 0.01             | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
|            |       | 1200 | 0.04         | 0.00       | 0.04                 | 0.01             | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
|            |       | 1300 | 0.03         | 0.01       | 0.05                 | 0.01             | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 |

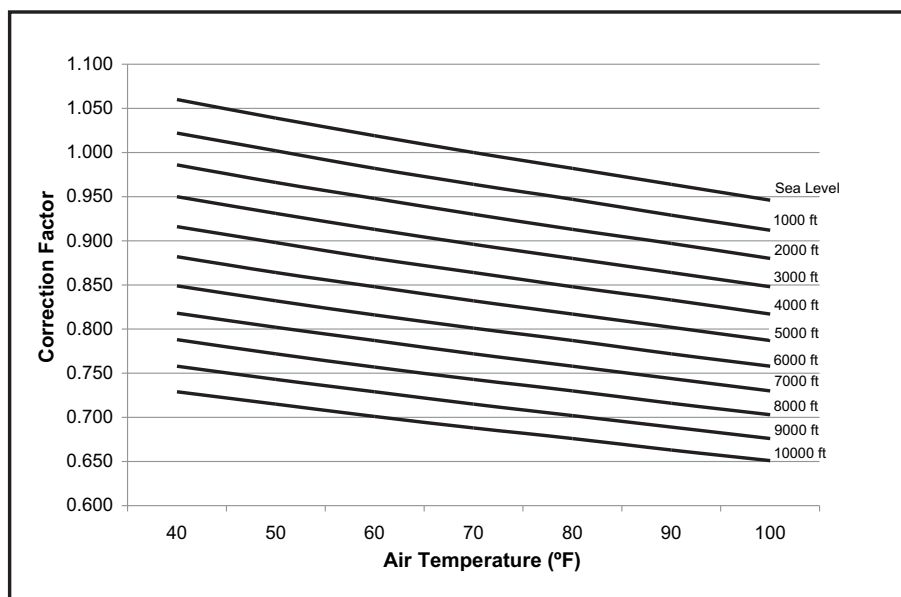
## Altitude and temperature correction for CFM, static pressure, and power

Use the information below to assist in the application of the product at altitudes at or exceeding 1000 feet above sea level.

The air flow rates listed in the standard blower performance tables are based on standard air at sea level. As the altitude or temperature increases, the density of air decreases. In order to use the indoor blower tables for high altitude applications, certain corrections are necessary.

### Altitude and temperature correction factors

| Air temp. | Altitude (ft.) |       |       |       |       |       |       |       |       |       |       |
|-----------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           | 0              | 1000  | 2000  | 3000  | 4000  | 5000  | 6000  | 7000  | 8000  | 9000  | 10000 |
| 40        | 1.060          | 1.022 | 0.986 | 0.950 | 0.916 | 0.882 | 0.849 | 0.818 | 0.788 | 0.758 | 0.729 |
| 50        | 1.039          | 1.002 | 0.966 | 0.931 | 0.898 | 0.864 | 0.832 | 0.802 | 0.772 | 0.743 | 0.715 |
| 60        | 1.019          | 0.982 | 0.948 | 0.913 | 0.880 | 0.848 | 0.816 | 0.787 | 0.757 | 0.729 | 0.701 |
| 70        | 1.000          | 0.964 | 0.930 | 0.896 | 0.864 | 0.832 | 0.801 | 0.772 | 0.743 | 0.715 | 0.688 |
| 80        | 0.982          | 0.947 | 0.913 | 0.880 | 0.848 | 0.817 | 0.787 | 0.758 | 0.730 | 0.702 | 0.676 |
| 90        | 0.964          | 0.929 | 0.897 | 0.864 | 0.833 | 0.802 | 0.772 | 0.744 | 0.716 | 0.689 | 0.663 |
| 100       | 0.946          | 0.912 | 0.880 | 0.848 | 0.817 | 0.787 | 0.758 | 0.730 | 0.703 | 0.676 | 0.651 |



Use the examples below to assist in determining the airflow performance of the product at altitude.

**Example 1:** What are the corrected CFM, static pressure, and BHP at an elevation of 5,000 ft. if the blower performance data is 6,000 CFM, 1.5 IWC and 4.0 BHP?

**Solution:** At an elevation of 5,000 ft. the indoor blower will still deliver 6,000 CFM if the RPM is unchanged. However, you must use the airflow performance tables to determine the static pressure and BHP. We assume an air temperature of 70°F because no temperature data is given. The *Altitude and temperature correction factors* table on page 106 shows the correction factor to be 0.832.

$$\text{Corrected static pressure} = 1.5 \times 0.832 = 1.248 \text{ IWC}$$

$$\text{Corrected BHP} = 4.0 \times 0.832 = 3.328$$

**Example 2:** A system, located at 5,000 feet of elevation, is to deliver 6,000 CFM at a static pressure of 1.5 in. Use the unit blower tables to select the blower speed and the BHP requirement.

A centrifugal fan is a constant volume device. This means that, if the RPM remains constant, the CFM delivered is the same regardless of the density of the air. However, since the air at high altitude is less dense, less static pressure is generated and less power is required than a similar application at sea level. Air density correction factors are shown in the *Altitude and temperature correction factors* table on page 106 and the following figure.

**Solution:** As in the example above, no temperature information is given so 70°F is assumed. The 1.5 in. static pressure given is at an elevation of 5,000 ft. The first step is to convert this static pressure to equivalent sea level conditions.

$$\text{Sea level static pressure} = 1.5 / .832 = 1.80 \text{ in.}$$

Enter the blower table at 6000 CFM and static pressure of 1.8 in. The RPM listed is the same RPM needed at 5,000 ft. Suppose that the corresponding BHP listed in the table is 3.2. This value must be corrected for elevation.

$$\text{BHP at 5,000 ft.} = 3.2 \times .832 = 2.66$$

$$\text{BHP at 5,000 ft.} = 0.7 \times .832 = 0.58$$

**ZT037-150 Indoor blower specifications**

| Size (ton) | Model | Airflow option | Motor |      |      |      |       | Motor sheave     |            |       | Blower sheave    |            |       | Belt |
|------------|-------|----------------|-------|------|------|------|-------|------------------|------------|-------|------------------|------------|-------|------|
|            |       |                | HP    | RPM  | Eff. | SF   | Frame | Datum dia. (in.) | Bore (in.) | Model | Datum dia. (in.) | Bore (in.) | Model |      |
| 037 (3)    | ZT    | Std.           | 1-1/2 | 1725 | 0.86 | 1.15 | 56    | 2.4 - 3.4        | 7/8        | 1VL40 | 7.5              | 1          | AK79  | A47  |
|            |       | H. static      | 1-1/2 | 1725 | 0.86 | 1.15 | 56    | 2.4 - 3.4        | 7/8        | 1VL40 | 5.7              | 1          | AK61  | A45  |
| 049 (4)    | ZT    | Std.           | 1-1/2 | 1725 | 0.86 | 1.15 | 56    | 1.9 - 2.9        | 7/8        | 1VL34 | 6                | 1          | AK64  | A47  |
|            |       | H. static      | 1-1/2 | 1725 | 0.86 | 1.15 | 56    | 2.8 - 3.8        | 7/8        | 1VL44 | 6.5              | 1          | AK69  | A47  |
| 061 (5)    | ZT    | Std.           | 1-1/2 | 1725 | 0.86 | 1.15 | 56    | 2.4 - 3.4        | 7/8        | 1VL40 | 5.7              | 1          | AK61  | A45  |
|            |       | H. static      | 2     | 1725 | 0.86 | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 6                | 1          | AK64  | A47  |
| 078 (6.5)  | ZT    | Std.           | 1-1/2 | 1725 | 0.8  | 1.15 | 56    | 2.6 - 3.6        | 7/8        | 1VL40 | 7.0              | 1          | AK74  | A53  |
|            |       | H. static      | 2     | 1725 | 0.8  | 1.15 | 56    | 3.6 - 4.6        | 7/8        | 1VM50 | 6.0              | 1          | AK74  | A54  |
| 090 (7.5)  | ZT    | Std.           | 1-1/2 | 1725 | 0.8  | 1.15 | 56    | 2.6 - 3.6        | 7/8        | 1VL40 | 7.0              | 1          | AK69  | A52  |
|            |       | H. static      | 3     | 1725 | 0.8  | 1.15 | 56    | 3.6 - 4.6        | 7/8        | 1VM50 | 5.7              | 1          | AK69  | A54  |
| 102 (8.5)  | ZT    | Std.           | 2     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 9.0              | 1          | AK89  | A56  |
|            |       | H. static      | 3     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 7.0              | 1          | AK74  | A54  |
| 120 (10)   | ZT    | Std.           | 2     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 8.0              | 1          | AK84  | A56  |
|            |       | H. static      | 3     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 7.0              | 1          | AK74  | A54  |
| 150 (12.5) | ZT    | Std.           | 3     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 7.0              | 1          | AK74  | A54  |
|            |       | H. static      | 5     | 1725 | 0.87 | 1.15 | 184T  | 4.3 - 5.3        | 1-1/8      | 1VP56 | 6.7              | 1          | BK77  | BX55 |

**ZB078-150 Indoor blower specifications**

| Size (ton) | Model | Motor |      |      |      |       | Motor sheave     |            |       | Blower sheave    |            |       | Belt |
|------------|-------|-------|------|------|------|-------|------------------|------------|-------|------------------|------------|-------|------|
|            |       | HP    | RPM  | Eff. | SF   | Frame | Datum dia. (in.) | Bore (in.) | Model | Datum dia. (in.) | Bore (in.) | Model |      |
| 078 (6.5)  | ZB    | 1-1/2 | 1725 | 0.8  | 1.15 | 56    | 2.6 - 3.6        | 7/8        | 1VL40 | 7.0              | 1          | AK74  | A53  |
|            |       | 2     | 1725 | 0.8  | 1.15 | 56    | 3.6 - 4.6        | 7/8        | 1VM50 | 7.0              | 1          | AK74  | A54  |
| 090 (7.5)  | ZB    | 1-1/2 | 1725 | 0.8  | 1.15 | 56    | 2.6 - 3.6        | 7/8        | 1VL40 | 6.5              | 1          | AK69  | A53  |
|            |       | 3     | 1725 | 0.8  | 1.15 | 56    | 3.6 - 4.6        | 7/8        | 1VM50 | 6.5              | 1          | AK69  | A54  |
| 102 (8.5)  | ZB    | 2     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 8.5              | 1          | AK89  | A56  |
|            |       | 3     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 7.0              | 1          | AK74  | A54  |
| 120 (10)   | ZB    | 2     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 8.0              | 1          | AK84  | A56  |
|            |       | 3     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 7.0              | 1          | AK74  | A54  |
| 150 (12.5) | ZB    | 3     | 1725 | 0.8  | 1.15 | 56    | 3.4 - 4.4        | 7/8        | 1VM50 | 7.0              | 1          | AK74  | A54  |
|            |       | 5     | 1725 | 0.87 | 1.15 | 184T  | 4.3 - 5.3        | 1-1/8      | 1VP56 | 6.7              | 1          | BK77  | BX55 |

**Power exhaust specifications**

| Model       | Voltage      | Motor |                  |     | Unit (per circuit) |     |     | Fuse size | CFM @ 0.1 ESP |
|-------------|--------------|-------|------------------|-----|--------------------|-----|-----|-----------|---------------|
|             |              | HP    | RPM <sup>1</sup> | QTY | LRA                | FLA | MCA |           |               |
| 2PE04704706 | 208/230-1-60 | 3/4   | 1075             | 1   | 24.9               | 5   | 6.3 | 10        | 4800          |
| 2PE04704746 | 460-1-60     | 3/4   | 1075             | 1   | N/A                | 2.2 | 2.8 | 5         | 4800          |
| 2PE04704758 | 575-1-60     | 3/4   | 1050             | 1   | N/A                | 1.5 | 1.9 | 4         | 4800          |

1. Motors are multi-tapped and factory wired for high speed.

**RPM selection**

| Size (ton) | Model | Airflow option | HP  | Max BHP | Motor sheave | Blower sheave | 6 turns open | 5 turns open | 4 turns open | 3 turns open | 2 turns open | 1 turns open | Fully closed |
|------------|-------|----------------|-----|---------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 037 (3)    | ZT    | Field supplied | 1.5 | 1.5     | 1VL34        | AK79          | N/A          | 465          | 512          | 557          | 606          | 651          | 695          |
|            |       | Standard       | 1.5 | 1.5     | 1VL40        | AK79          | N/A          | 612          | 661          | 707          | 752          | 799          | 844          |
|            |       | High static    | 1.5 | 1.5     | 1VL40        | AK61          | N/A          | 782          | 846          | 906          | 968          | 1022         | 1085         |
|            |       | Field supplied | 1.5 | 1.5     | 1VL40        | AK54          | N/A          | 896          | 960          | 1030         | 1090         | 1166         | 1238         |
| 049 (4)    | ZT    | Standard       | 1.5 | 1.5     | 1VL34        | AK64          | N/A          | 576          | 631          | 688          | 747          | 800          | 859          |
|            |       | High static    | 1.5 | 1.5     | 1VL44        | AK69          | N/A          | 792          | 844          | 892          | 944          | 996          | 1045         |
|            |       | Field Supplied | 1.5 | 1.5     | 1VL44        | AK59          | N/A          | 915          | 989          | 1050         | 1113         | 1173         | 1238         |
| 061 (5)    | ZT    | Field Supplied | 1.5 | 1.5     | 1VL40        | AK79          | N/A          | 609          | 656          | 703          | 746          | 792          | 839          |
|            |       | Standard       | 1.5 | 1.5     | 1VL40        | AK61          | N/A          | 782          | 846          | 906          | 968          | 1022         | 1085         |
|            |       | Field Supplied | 2   | 2       | 1VL40        | AK54          | N/A          | 896          | 960          | 1030         | 1090         | 1166         | 1238         |
|            |       | High static    | 2   | 2       | 1VM50        | AK64          | N/A          | 1022         | 1079         | 1135         | 1190         | 1246         | 1297         |

## RPM selection (continued)

| Size (ton) | Model | Airflow option | HP  | Max BHP | Motor sheave | Blower sheave | 6 turns open | 5 turns open | 4 turns open | 3 turns open | 2 turns open | 1 turns open | Fully closed |
|------------|-------|----------------|-----|---------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 078 (6.5)  | ZT    | Standard       | 1.5 | 1.725   | 1VL40        | AK74          | N/A          | 663          | 713          | 759          | 803          | 840          | 882          |
|            |       | High static    | 2   | 2.3     | 1VM50        | AK74          | N/A          | 884          | 927          | 977          | 1025         | 1074         | 1121         |
| 090 (7.5)  | ZT    | Standard       | 1.5 | 1.725   | 1VL40        | AK69          | N/A          | 714          | 761          | 799          | 852          | 905          | 955          |
|            |       | High static    | 3   | 3.45    | 1VM50        | AK69          | N/A          | 952          | 1002         | 1043         | 1104         | 1140         | 1202         |
| 102 (8.5)  | ZT    | Standard       | 2   | 2.3     | 1VM50        | AK89          | N/A          | 737          | 775          | 812          | 851          | 889          | 926          |
|            |       | High static    | 3   | 3.45    | 1VM50        | AK74          | N/A          | 903          | 943          | 985          | 1028         | 1071         | 1113         |
| 120 (10)   | ZT    | Standard       | 2   | 2.3     | 1VM50        | AK84          | N/A          | 781          | 819          | 859          | 897          | 932          | 969          |
|            |       | High static    | 3   | 3.45    | 1VM50        | AK74          | N/A          | 903          | 943          | 985          | 1028         | 1076         | 1113         |
| 150 (12.5) | ZT    | Standard       | 3   | 3.45    | 1VM50        | AK74          | N/A          | 908          | 955          | 1003         | 1049         | 1094         | 1142         |
|            |       | High static    | 5   | 5.75    | 1VP56        | BK77          | 1104         | 1102         | 1157         | 1200         | 1246         | 1282         | 1328         |
| 078 (6.5)  | ZB    | Standard       | 1.5 | 1.725   | 1VL40        | AK69          | N/A          | 714          | 761          | 799          | 852          | 905          | 955          |
|            |       | High static    | 3   | 3.45    | 1VM50        | AK69          | N/A          | 952          | 1002         | 1043         | 1104         | 1140         | 1202         |
| 090 (7.5)  | ZB    | Std.           | 1.5 | 1.73    | 1VL40        | AK69          | N/A          | 690          | 743          | 796          | 849          | 902          | 955          |
|            |       | H. Static      | 3   | 3.45    | 1VM50        | AK69          | N/A          | 955          | 1008         | 1062         | 1115         | 1168         | 1221         |
| 102 (8.5)  | ZB    | Std.           | 2   | 2.30    | 1VM50        | AK89          | N/A          | 731          | 771          | 812          | 852          | 893          | 934          |
|            |       | H. Static      | 3   | 3.45    | 1VM50        | AK74          | N/A          | 887          | 936          | 986          | 1035         | 1084         | 1134         |
| 120 (10)   | ZB    | Std.           | 2   | 2.30    | 1VM50        | AK84          | N/A          | 776          | 819          | 863          | 906          | 949          | 992          |
|            |       | H. Static      | 3   | 3.45    | 1VM50        | AK74          | N/A          | 887          | 936          | 986          | 1035         | 1084         | 1134         |
| 150 (12.5) | ZB    | Std.           | 3   | 3.45    | 1VM50        | AK74          | N/A          | 887          | 936          | 986          | 1035         | 1084         | 1134         |
|            |       | H. Static      | 5   | 5.75    | 1VP56        | BK77          | 1052         | 1095         | 1136         | 1175         | 1216         | 1272         | N/A          |

## Additional static resistance - ZT037 through 061

| Size (ton)         | Model | CFM  | Cooling only <sup>1</sup> | Reheat static resistance | Economizer <sup>2 3</sup> | 4-in. pleated filter <sup>2</sup> | Electric heat kW <sup>2</sup> |      |      |      |      |      |
|--------------------|-------|------|---------------------------|--------------------------|---------------------------|-----------------------------------|-------------------------------|------|------|------|------|------|
|                    |       |      |                           |                          |                           |                                   | 3                             | 6    | 9    | 15   | 20   | 24   |
| 037 (3)            | ZT    | 900  | 0.05                      | 0.03                     | -0.05                     | 0.00                              | 0.00                          | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 |
|                    |       | 1000 | 0.05                      | 0.03                     | -0.03                     | 0.00                              | 0.00                          | 0.00 | 0.02 | 0.02 | 0.02 | 0.00 |
|                    |       | 1100 | 0.04                      | 0.03                     | -0.02                     | 0.01                              | 0.01                          | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 |
|                    |       | 1200 | 0.04                      | 0.03                     | 0.00                      | 0.01                              | 0.01                          | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 |
|                    |       | 1300 | 0.03                      | 0.04                     | 0.01                      | 0.01                              | 0.01                          | 0.01 | 0.03 | 0.03 | 0.03 | 0.01 |
|                    |       | 1400 | 0.03                      | 0.04                     | 0.03                      | 0.02                              | 0.02                          | 0.02 | 0.03 | 0.03 | 0.03 | 0.02 |
| 049 (4)<br>061 (5) | ZT    | 1500 | 0.03                      | 0.04                     | 0.04                      | 0.02                              | 0.02                          | 0.02 | 0.04 | 0.04 | 0.04 | 0.02 |
|                    |       | 1200 | -0.01                     | 0.03                     | 0.10                      | 0.01                              | 0.01                          | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 |
|                    |       | 1300 | -0.01                     | 0.04                     | 0.11                      | 0.01                              | 0.01                          | 0.01 | 0.03 | 0.03 | 0.03 | 0.01 |
|                    |       | 1400 | -0.01                     | 0.04                     | 0.12                      | 0.02                              | 0.02                          | 0.02 | 0.03 | 0.03 | 0.03 | 0.02 |
|                    |       | 1500 | -0.01                     | 0.04                     | 0.13                      | 0.02                              | 0.02                          | 0.02 | 0.04 | 0.04 | 0.04 | 0.02 |
|                    |       | 1600 | -0.01                     | 0.05                     | 0.14                      | 0.02                              | 0.02                          | 0.02 | 0.04 | 0.04 | 0.04 | 0.02 |
|                    |       | 1700 | -0.01                     | 0.05                     | 0.15                      | 0.03                              | 0.03                          | 0.03 | 0.05 | 0.05 | 0.05 | 0.03 |
|                    |       | 1800 | -0.02                     | 0.05                     | 0.16                      | 0.03                              | 0.03                          | 0.03 | 0.05 | 0.05 | 0.05 | 0.03 |
|                    |       | 1900 | -0.02                     | 0.05                     | 0.17                      | 0.04                              | 0.04                          | 0.04 | 0.06 | 0.06 | 0.06 | 0.04 |
|                    |       | 2000 | -0.02                     | 0.06                     | 0.18                      | 0.04                              | 0.04                          | 0.04 | 0.07 | 0.07 | 0.07 | 0.04 |
|                    |       | 2100 | -0.03                     | 0.06                     | 0.19                      | 0.05                              | 0.05                          | 0.05 | 0.07 | 0.07 | 0.07 | 0.05 |
|                    |       | 2200 | -0.03                     | 0.07                     | 0.20                      | 0.06                              | 0.06                          | 0.06 | 0.08 | 0.08 | 0.08 | 0.06 |
|                    |       | 2300 | -0.04                     | 0.07                     | 0.21                      | 0.06                              | 0.06                          | 0.06 | 0.09 | 0.09 | 0.09 | 0.06 |
|                    |       | 2400 | -0.04                     | 0.07                     | 0.22                      | 0.07                              | 0.07                          | 0.07 | 0.10 | 0.10 | 0.10 | 0.07 |
|                    |       | 2500 | -0.05                     | 0.08                     | 0.23                      | 0.08                              | 0.08                          | 0.08 | 0.11 | 0.11 | 0.11 | 0.08 |

1. Add these values to the available static resistance in the respective blower performance tables.

2. Deduct these values from the available external static pressure shown in the respective blower performance tables.

3. The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit delivers less CFM during full economizer operation.

**Additional static resistance - ZT078 through 150**

| Size (ton)                                                    | Model | CFM  | Cooling only <sup>1</sup> | Reheat coil <sup>2 3</sup> | Economizer <sup>2 3</sup> | 4-in. filter <sup>2</sup> | Electric heat kW <sup>2</sup> |      |      |      |      |
|---------------------------------------------------------------|-------|------|---------------------------|----------------------------|---------------------------|---------------------------|-------------------------------|------|------|------|------|
|                                                               |       |      |                           |                            |                           |                           | 09                            | 18   | 24   | 36   | 54   |
| 078 (6.5)<br>090 (7.5)<br>102 (8.5)<br>120 (10)<br>150 (12.5) | ZT    | 1900 | 0.03                      | 0.07                       | 0.04                      | 0.12                      | 0.05                          | 0.06 | 0.07 | 0.08 | 0.10 |
|                                                               |       | 2100 | 0.04                      | 0.08                       | 0.10                      | 0.13                      | 0.06                          | 0.07 | 0.08 | 0.09 | 0.11 |
|                                                               |       | 2300 | 0.06                      | 0.09                       | 0.17                      | 0.14                      | 0.07                          | 0.08 | 0.09 | 0.10 | 0.13 |
|                                                               |       | 2500 | 0.08                      | 0.10                       | 0.23                      | 0.16                      | 0.08                          | 0.09 | 0.10 | 0.11 | 0.14 |
|                                                               |       | 2700 | 0.10                      | 0.11                       | 0.29                      | 0.17                      | 0.09                          | 0.10 | 0.12 | 0.13 | 0.16 |
|                                                               |       | 2900 | 0.12                      | 0.12                       | 0.34                      | 0.19                      | 0.10                          | 0.11 | 0.13 | 0.14 | 0.18 |
|                                                               |       | 3100 | 0.15                      | 0.13                       | 0.40                      | 0.20                      | 0.12                          | 0.13 | 0.15 | 0.16 | 0.20 |
|                                                               |       | 3300 | 0.17                      | 0.14                       | 0.45                      | 0.22                      | 0.13                          | 0.14 | 0.17 | 0.18 | 0.22 |
|                                                               |       | 3500 | 0.20                      | 0.15                       | 0.51                      | 0.26                      | 0.15                          | 0.16 | 0.19 | 0.20 | 0.24 |
|                                                               |       | 3700 | 0.22                      | 0.17                       | 0.56                      | 0.27                      | 0.17                          | 0.18 | 0.21 | 0.22 | 0.26 |
|                                                               |       | 3900 | 0.25                      | 0.18                       | 0.61                      | 0.29                      | 0.19                          | 0.20 | 0.23 | 0.24 | 0.28 |
|                                                               |       | 4100 | 0.28                      | 0.19                       | 0.66                      | 0.32                      | 0.21                          | 0.22 | 0.25 | 0.26 | 0.31 |
|                                                               |       | 4300 | 0.31                      | 0.20                       | 0.70                      | 0.35                      | 0.23                          | 0.24 | 0.28 | 0.29 | 0.34 |
|                                                               |       | 4500 | 0.34                      | 0.21                       | 0.75                      | 0.38                      | 0.25                          | 0.26 | 0.30 | 0.31 | 0.37 |
|                                                               |       | 4700 | 0.38                      | 0.22                       | 0.79                      | 0.41                      | 0.28                          | 0.29 | 0.33 | 0.34 | 0.40 |
|                                                               |       | 4900 | 0.41                      | 0.24                       | 0.83                      | 0.44                      | 0.30                          | 0.31 | 0.35 | 0.37 | 0.43 |
|                                                               |       | 5100 | 0.45                      | 0.25                       | 0.87                      | 0.47                      | 0.33                          | 0.34 | 0.38 | 0.40 | 0.46 |
|                                                               |       | 5300 | 0.48                      | 0.26                       | 0.91                      | 0.51                      | 0.35                          | 0.37 | 0.41 | 0.43 | 0.49 |
|                                                               |       | 5500 | 0.52                      | 0.27                       | 0.95                      | 0.55                      | 0.38                          | 0.40 | 0.44 | 0.46 | 0.53 |
|                                                               |       | 5700 | 0.56                      | 0.28                       | 0.98                      | 0.58                      | 0.41                          | 0.43 | 0.47 | 0.49 | 0.56 |
|                                                               |       | 5900 | 0.60                      | 0.30                       | 1.02                      | 0.62                      | 0.44                          | 0.46 | 0.50 | 0.53 | 0.59 |
|                                                               |       | 6100 | 0.64                      | 0.31                       | 1.05                      | 0.67                      | 0.47                          | 0.49 | 0.53 | 0.56 | 0.62 |
|                                                               |       | 6300 | 0.69                      | 0.32                       | 1.08                      | 0.71                      | 0.50                          | 0.53 | 0.56 | 0.59 | 0.65 |

1. Add these values to the available static resistance in the respective blower performance tables.
2. Deduct these values from the available external static pressure shown in the respective blower performance tables.
3. The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit will deliver less CFM during full economizer operation.

**Additional static resistance - ZB078-150**

| Size (ton)                                                    | Model | CFM  | Cooling Only <sup>1</sup> | Reheat coil | Economizer <sup>2,3</sup> | 4" Filter <sup>2</sup> | Electric Heat kW <sup>2</sup> |      |      |      |      |
|---------------------------------------------------------------|-------|------|---------------------------|-------------|---------------------------|------------------------|-------------------------------|------|------|------|------|
|                                                               |       |      |                           |             |                           |                        | 9                             | 18   | 24   | 36   | 54   |
| 078 (6.5)<br>090 (7.5)<br>102 (8.5)<br>120 (10)<br>150 (12.5) | ZB    | 1900 | 0.06                      | 0.07        | 0.02                      | 0.08                   | 0.05                          | 0.06 | 0.07 | 0.08 | 0.10 |
|                                                               |       | 2100 | 0.07                      | 0.08        | 0.02                      | 0.09                   | 0.06                          | 0.07 | 0.08 | 0.09 | 0.11 |
|                                                               |       | 2300 | 0.08                      | 0.09        | 0.04                      | 0.10                   | 0.07                          | 0.08 | 0.09 | 0.10 | 0.13 |
|                                                               |       | 2500 | 0.09                      | 0.10        | 0.11                      | 0.11                   | 0.08                          | 0.09 | 0.10 | 0.11 | 0.14 |
|                                                               |       | 2700 | 0.11                      | 0.11        | 0.18                      | 0.12                   | 0.09                          | 0.10 | 0.12 | 0.13 | 0.16 |
|                                                               |       | 2900 | 0.12                      | 0.12        | 0.25                      | 0.13                   | 0.10                          | 0.11 | 0.13 | 0.14 | 0.18 |
|                                                               |       | 3100 | 0.14                      | 0.13        | 0.31                      | 0.15                   | 0.12                          | 0.13 | 0.15 | 0.16 | 0.20 |
|                                                               |       | 3300 | 0.16                      | 0.14        | 0.37                      | 0.16                   | 0.13                          | 0.14 | 0.17 | 0.18 | 0.22 |
|                                                               |       | 3500 | 0.18                      | 0.15        | 0.43                      | 0.17                   | 0.15                          | 0.16 | 0.19 | 0.20 | 0.24 |
|                                                               |       | 3700 | 0.20                      | 0.17        | 0.49                      | 0.18                   | 0.17                          | 0.18 | 0.21 | 0.22 | 0.26 |
|                                                               |       | 3900 | 0.23                      | 0.18        | 0.54                      | 0.19                   | 0.19                          | 0.20 | 0.23 | 0.24 | 0.28 |
|                                                               |       | 4100 | 0.25                      | 0.19        | 0.58                      | 0.21                   | 0.21                          | 0.22 | 0.25 | 0.26 | 0.31 |
|                                                               |       | 4300 | 0.28                      | 0.20        | 0.65                      | 0.22                   | 0.23                          | 0.24 | 0.28 | 0.29 | 0.34 |
|                                                               |       | 4500 | 0.30                      | 0.21        | 0.69                      | 0.24                   | 0.25                          | 0.26 | 0.30 | 0.31 | 0.37 |
|                                                               |       | 4700 | 0.33                      | 0.22        | 0.74                      | 0.25                   | 0.28                          | 0.29 | 0.33 | 0.34 | 0.40 |
|                                                               |       | 4900 | 0.36                      | 0.24        | 0.78                      | 0.27                   | 0.30                          | 0.31 | 0.35 | 0.37 | 0.43 |
|                                                               |       | 5100 | 0.39                      | 0.25        | 0.82                      | 0.28                   | 0.33                          | 0.34 | 0.38 | 0.40 | 0.46 |
|                                                               |       | 5300 | 0.42                      | 0.26        | 0.86                      | 0.30                   | 0.35                          | 0.37 | 0.41 | 0.43 | 0.49 |
|                                                               |       | 5500 | 0.45                      | 0.27        | 0.89                      | 0.31                   | 0.38                          | 0.40 | 0.44 | 0.46 | 0.53 |
|                                                               |       | 5700 | 0.48                      | 0.28        | 0.93                      | 0.33                   | 0.41                          | 0.43 | 0.47 | 0.49 | 0.56 |
|                                                               |       | 5900 | 0.52                      | 0.30        | 0.96                      | 0.35                   | 0.44                          | 0.46 | 0.50 | 0.53 | 0.59 |
|                                                               |       | 6100 | 0.56                      | 0.31        | 0.98                      | 0.36                   | 0.47                          | 0.49 | 0.53 | 0.56 | 0.62 |
|                                                               |       | 6300 | 0.60                      | 0.32        | 1.01                      | 0.38                   | 0.50                          | 0.53 | 0.56 | 0.59 | 0.65 |

1. Add these values to the available static resistance in the respective Blower Performance Tables.
2. Deduct these values from the available external static pressure shown in the respective Blower Performance Tables.
3. The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit will deliver less CFM during full economizer operation.

**Gas heat minimum supply air**

| Size (ton)    | Model | Heat size | Supply air (CFM) |         |
|---------------|-------|-----------|------------------|---------|
|               |       |           | Heating          |         |
|               |       |           | Minimum          | Maximum |
| 037<br>(3)    | ZT    | N06       | 900              | 1500    |
|               |       | N08       | 920              | 1500    |
| 049<br>(4)    | ZT    | N06       | 900              | 2000    |
|               |       | N08       | 920              | 2000    |
|               |       | N12       | 1290             | 2000    |
| 061<br>(5)    | ZT    | N08       | 920              | 2500    |
|               |       | N12       | 1290             | 2500    |
|               |       | N16       | 1600             | 2500    |
| 078<br>(6.5)  | ZT/ZB | N12       | 1800             | 3250    |
|               |       | N18       | 2080             | 3250    |
| 090<br>(7.5)  | ZT/ZB | N12       | 1800             | 3750    |
|               |       | N18       | 2080             | 3750    |
| 102<br>(8.5)  | ZT/ZB | N12       | 1800             | 4250    |
|               |       | N18       | 2080             | 4250    |
| 120<br>(10)   | ZT/ZB | N18       | 2080             | 5000    |
|               |       | N24       | 3000             | 5000    |
| 150<br>(12.5) | ZT/ZB | N18       | 2080             | 6250    |
|               |       | N24       | 3000             | 6250    |

**Electric heat minimum supply air****3 through 5 ton**

| Size (ton) | Model | Voltage      | Minimum supply air (CFM) |      |      |      |      |      |
|------------|-------|--------------|--------------------------|------|------|------|------|------|
|            |       |              | Heater kW                |      |      |      |      |      |
|            |       |              | 3                        | 6    | 9    | 15   | 20   | 24   |
| 037<br>(3) | ZT    | 208/230-3-60 | 960                      | 960  | 1020 | 1020 | -    | -    |
|            |       | 460-3-60     | 980                      | 960  | 960  | 960  | -    | -    |
|            |       | 600-3-60     | -                        | -    | 960  | 960  | -    | -    |
| 049<br>(4) | ZT    | 208/230-3-60 | -                        | 1280 | 1420 | 1420 | 1420 | -    |
|            |       | 460-3-60     | -                        | 1400 | 1400 | 1400 | 1400 | -    |
|            |       | 600-3-60     | -                        | -    | 1400 | 1400 | 1400 | -    |
| 061<br>(5) | ZT    | 208/230-3-60 | -                        | 1600 | 1600 | 1600 | 1600 | 1600 |
|            |       | 460-3-60     | -                        | 1600 | 1600 | 1600 | 1600 | 1600 |
|            |       | 600-3-60     | -                        | -    | 1600 | 1600 | 1600 | 1600 |

**6.5 through 12.5 ton**

| Size (ton)    | Model | Voltage      | Minimum supply air (CFM) |      |      |      |      |
|---------------|-------|--------------|--------------------------|------|------|------|------|
|               |       |              | Heater kW                |      |      |      |      |
|               |       |              | 9                        | 18   | 24   | 36   | 54   |
| 078<br>(6.5)  | ZT    | 208/230-3-60 | 1950                     | 1950 | 1950 | 1950 | -    |
|               |       | 460-3-60     | 1950                     | 1950 | 1950 | 1950 | -    |
| 090<br>(7.5)  | ZT    | 208/230-3-60 | 1950                     | 1950 | 1950 | 1950 | -    |
|               |       | 460-3-60     | 2250                     | 2250 | 2250 | 2250 | -    |
| 102<br>(8.5)  | ZT    | 208/230-3-60 | 2550                     | 2550 | 2550 | 2550 | -    |
|               |       | 460-3-60     | 2550                     | 2550 | 2550 | 2550 | -    |
| 120<br>(10)   | ZT    | 208/230-3-60 | -                        | 3000 | 3000 | 3000 | 3500 |
|               |       | 460-3-60     | -                        | 3000 | 3000 | 3000 | 3000 |
| 150<br>(12.5) | ZT    | 208/230-3-60 | -                        | 3750 | 3750 | 3750 | 4000 |
|               |       | 460-3-60     | -                        | 3750 | 3750 | 3750 | 3750 |
| 078<br>(6.5)  | ZB    | 208/230-3-60 | 1950                     | 1950 | 1950 | 1950 | -    |
|               |       | 460-3-60     | 1950                     | 1950 | 1950 | 1950 | -    |
|               |       | 600-3-60     | 1950                     | 1950 | 1950 | 1950 | -    |
| 090<br>(7.5)  | ZB    | 208/230-3-60 | 2250                     | 2250 | 2250 | 2250 | -    |
|               |       | 460-3-60     | 2250                     | 2250 | 2250 | 2250 | -    |
|               |       | 600-3-60     | 2250                     | 2250 | 2250 | 2250 | -    |
| 102<br>(8.5)  | ZB    | 208/230-3-60 | 2550                     | 2550 | 2550 | 2550 | -    |
|               |       | 460-3-60     | 2550                     | 2550 | 2550 | 2550 | -    |
|               |       | 600-3-60     | 2550                     | 2550 | 2550 | 2550 | -    |
| 120<br>(10)   | ZB    | 208/230-3-60 | -                        | 3000 | 3000 | 3000 | 3500 |
|               |       | 460-3-60     | -                        | 3000 | 3000 | 3000 | 3000 |
|               |       | 600-3-60     | -                        | 3000 | 3000 | 3000 | 3500 |
| 150<br>(12.5) | ZB    | 208/230-3-60 | -                        | 3750 | 3750 | 3750 | 4000 |
|               |       | 460-3-60     | -                        | 3750 | 3750 | 3750 | 3750 |
|               |       | 600-3-60     | -                        | 3750 | 3750 | 3750 | 3750 |

## Airflow performance

### ZT037-150 side duct application

#### ZT037 (3.0 ton) side duct

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                           |      |     |      |                              |      |     |      |                 |      |
|-------------------|-------------------------------------------------------|------|-----|------|---------------------------|------|-----|------|------------------------------|------|-----|------|-----------------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                       |      | 0.8 |      | 1.0                          |      | 1.2 |      | 1.4             |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                       | BHP  | RPM | BHP  | RPM                          | BHP  | RPM | BHP  | RPM             | BHP  |
|                   | FS <sup>4</sup>                                       |      |     |      | Standard 1.5 HP and drive |      |     |      | High static 1.5 HP and drive |      |     |      | FS <sup>4</sup> |      |
| 900               | 468                                                   | 0.24 | 563 | 0.27 | 652                       | 0.36 | 736 | 0.46 | 814                          | 0.56 | 887 | 0.67 | 955             | 0.76 |
| 1000              | 479                                                   | 0.25 | 578 | 0.29 | 670                       | 0.38 | 756 | 0.47 | 837                          | 0.57 | 911 | 0.68 | 979             | 0.78 |
| 1100              | 494                                                   | 0.27 | 594 | 0.31 | 688                       | 0.40 | 775 | 0.49 | 856                          | 0.59 | 931 | 0.69 | 999             | 0.79 |
| 1200              | 509                                                   | 0.28 | 608 | 0.37 | 701                       | 0.46 | 788 | 0.55 | 870                          | 0.65 | 945 | 0.75 | 1015            | 0.85 |
| 1300              | 524                                                   | 0.30 | 623 | 0.39 | 716                       | 0.48 | 804 | 0.58 | 886                          | 0.68 | 961 | 0.78 | 1032            | 0.88 |
| 1400              | 540                                                   | 0.32 | 639 | 0.41 | 732                       | 0.51 | 819 | 0.61 | 901                          | 0.71 | 977 | 0.82 | 1048            | 0.92 |
| 1500              | 562                                                   | 0.34 | 660 | 0.44 | 753                       | 0.54 | 840 | 0.65 | 921                          | 0.75 | 998 | 0.85 | 1069            | 0.96 |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field supplied drive

#### ZT049 (4.0 ton) side duct

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                              |      |     |      |                 |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|------------------------------|------|-----|------|-----------------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                          |      | 0.8 |      | 1.0             |      | 1.2  |      | 1.4  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                          | BHP  | RPM | BHP  | RPM             | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Standard 1.5 HP and drive                             |      |     |      | High static 1.5 HP and drive |      |     |      | FS <sup>4</sup> |      |      |      |      |      |
| 1200              | -                                                     | -    | 618 | 0.34 | 695                          | 0.40 | 783 | 0.47 | 864             | 0.54 | 940  | 0.60 | 983  | 0.69 |
| 1300              | -                                                     | -    | 638 | 0.38 | 712                          | 0.43 | 799 | 0.50 | 876             | 0.59 | 954  | 0.65 | 995  | 0.74 |
| 1400              | -                                                     | -    | 653 | 0.40 | 729                          | 0.46 | 815 | 0.54 | 888             | 0.63 | 965  | 0.72 | 1007 | 0.78 |
| 1500              | 574                                                   | 0.36 | 666 | 0.42 | 747                          | 0.50 | 831 | 0.59 | 900             | 0.68 | 975  | 0.78 | 1019 | 0.83 |
| 1600              | 596                                                   | 0.39 | 689 | 0.44 | 766                          | 0.54 | 847 | 0.63 | 912             | 0.73 | 983  | 0.84 | 1031 | 0.88 |
| 1700              | 619                                                   | 0.43 | 711 | 0.49 | 786                          | 0.58 | 863 | 0.68 | 925             | 0.79 | 991  | 0.89 | 1043 | 0.94 |
| 1800              | 643                                                   | 0.47 | 734 | 0.54 | 808                          | 0.64 | 878 | 0.73 | 936             | 0.84 | 998  | 0.95 | 1055 | 1.00 |
| 1900              | 669                                                   | 0.52 | 757 | 0.61 | 831                          | 0.71 | 894 | 0.79 | 948             | 0.91 | 1004 | 1.00 | 1067 | 1.06 |
| 2000              | 697                                                   | 0.58 | 779 | 0.67 | 856                          | 0.78 | 910 | 0.85 | 960             | 0.98 | 1010 | 1.05 | 1079 | 1.13 |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field supplied drive.

#### ZT061 (5.0 ton) side duct

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                           |      |      |      |                              |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|---------------------------|------|------|------|------------------------------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                       |      | 0.8  |      | 1.0                          |      | 1.2  |      | 1.4  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                       | BHP  | RPM  | BHP  | RPM                          | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | FS <sup>4</sup>                                       |      |     |      | Standard 1.5 HP and drive |      |      |      | High static 2.0 HP and drive |      |      |      |      |      |
| 1500              | -                                                     | -    | 667 | 0.40 | 747                       | 0.50 | 837  | 0.58 | 904                          | 0.59 | 972  | 0.73 | 1039 | 0.88 |
| 1600              | -                                                     | -    | 689 | 0.44 | 766                       | 0.54 | 844  | 0.60 | 917                          | 0.65 | 982  | 0.79 | 1047 | 0.93 |
| 1700              | 615                                                   | 0.43 | 711 | 0.48 | 786                       | 0.58 | 852  | 0.64 | 931                          | 0.73 | 994  | 0.86 | 1057 | 1.00 |
| 1800              | 641                                                   | 0.48 | 734 | 0.53 | 808                       | 0.64 | 863  | 0.68 | 945                          | 0.80 | 1006 | 0.93 | 1067 | 1.06 |
| 1900              | 666                                                   | 0.52 | 757 | 0.59 | 831                       | 0.71 | 878  | 0.76 | 959                          | 0.87 | 1018 | 0.99 | 1077 | 1.12 |
| 2000              | 692                                                   | 0.58 | 781 | 0.65 | 842                       | 0.73 | 914  | 0.82 | 973                          | 0.94 | 1031 | 1.06 | 1089 | 1.19 |
| 2100              | 718                                                   | 0.64 | 806 | 0.73 | 863                       | 0.75 | 934  | 0.88 | 987                          | 1.01 | 1044 | 1.14 | 1101 | 1.26 |
| 2200              | 744                                                   | 0.71 | 832 | 0.81 | 886                       | 0.83 | 954  | 0.95 | 1002                         | 1.09 | 1059 | 1.22 | 1116 | 1.36 |
| 2300              | 770                                                   | 0.79 | 859 | 0.91 | 907                       | 0.90 | 972  | 1.02 | 1017                         | 1.16 | 1074 | 1.31 | 1131 | 1.45 |
| 2400              | 796                                                   | 0.87 | 887 | 1.03 | 927                       | 0.98 | 990  | 1.09 | 1032                         | 1.24 | 1091 | 1.40 | 1150 | 1.56 |
| 2500              | 822                                                   | 0.96 | 916 | 1.17 | 946                       | 1.06 | 1006 | 1.17 | 1047                         | 1.32 | 1112 | 1.52 | 1177 | 1.73 |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field supplied drive.



**ZT078 (6.5 ton) side duct**

| Air flow<br>(CFM)             | Available external static pressure - IWG <sup>1</sup> |      |     |      |                           |      |     |      |     |      |     |      |                            |      |      |      |      |      |      |      |
|-------------------------------|-------------------------------------------------------|------|-----|------|---------------------------|------|-----|------|-----|------|-----|------|----------------------------|------|------|------|------|------|------|------|
|                               | 0.2                                                   |      | 0.4 |      | 0.6                       |      | 0.8 |      | 1.0 |      | 1.2 |      | 1.4                        |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                               | RPM                                                   | BHP  | RPM | BHP  | RPM                       | BHP  | RPM | BHP  | RPM | BHP  | RPM | BHP  | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                               | Field supplied drive                                  |      |     |      | Standard 1.5 HP and drive |      |     |      |     |      |     |      | High static 2 HP and drive |      |      |      |      |      |      |      |
| 1800                          | 557                                                   | 0.27 | 626 | 0.53 | 686                       | 0.75 | 742 | 0.94 | 801 | 1.10 | 867 | 1.25 | 946                        | 1.40 | 1045 | 1.56 | 1167 | 1.74 | 1320 | 1.94 |
| 2000                          | 566                                                   | 0.36 | 635 | 0.62 | 695                       | 0.84 | 752 | 1.02 | 810 | 1.19 | 876 | 1.34 | 956                        | 1.49 | 1054 | 1.65 | 1177 | 1.82 | 1330 | 2.03 |
| 2200                          | 578                                                   | 0.46 | 647 | 0.72 | 707                       | 0.93 | 763 | 1.12 | 822 | 1.28 | 888 | 1.44 | 968                        | 1.59 | 1066 | 1.74 | 1189 | 1.92 | 1342 | 2.12 |
| 2400                          | 592                                                   | 0.57 | 661 | 0.83 | 721                       | 1.04 | 777 | 1.23 | 836 | 1.39 | 902 | 1.55 | 981                        | 1.70 | 1080 | 1.85 | 1203 | 2.03 | 1356 | 2.23 |
| 2600                          | 608                                                   | 0.69 | 677 | 0.95 | 737                       | 1.17 | 793 | 1.35 | 851 | 1.52 | 918 | 1.67 | 997                        | 1.82 | 1096 | 1.98 | 1218 | 2.15 | 1371 | 2.36 |
| 2800                          | 625                                                   | 0.82 | 694 | 1.08 | 754                       | 1.30 | 811 | 1.49 | 869 | 1.65 | 935 | 1.80 | 1015                       | 1.95 | 1113 | 2.11 | 1236 | 2.28 | 1389 | 2.49 |
| 3000                          | 645                                                   | 0.96 | 714 | 1.23 | 773                       | 1.44 | 830 | 1.63 | 888 | 1.79 | 955 | 1.94 | 1034                       | 2.09 | 1132 | 2.25 | 1255 | 2.43 | -    | -    |
| 3200                          | 666                                                   | 1.12 | 735 | 1.38 | 794                       | 1.60 | 851 | 1.78 | 909 | 1.95 | 976 | 2.10 | 1055                       | 2.25 | 1153 | 2.40 | -    | -    | -    | -    |
| 3400                          | 688                                                   | 1.28 | 757 | 1.54 | 817                       | 1.76 | 873 | 1.94 | 932 | 2.11 | 998 | 2.26 | 1078                       | 2.41 | 1176 | 2.57 | -    | -    | -    | -    |
| 2 HP and field supplied drive |                                                       |      |     |      |                           |      |     |      |     |      |     |      |                            |      |      |      |      |      |      |      |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZT090 (7.5 ton) side duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                           |      |     |      |     |      |      |      |                            |      |      |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|---------------------------|------|-----|------|-----|------|------|------|----------------------------|------|------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                       |      | 0.8 |      | 1.0 |      | 1.2  |      | 1.4                        |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                       | BHP  | RPM | BHP  | RPM | BHP  | RPM  | BHP  | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Field supplied drive                                  |      |     |      | Standard 1.5 HP and drive |      |     |      |     |      |      |      | High static 3 HP and drive |      |      |      |      |      |      |      |
| 2000              | 620                                                   | 0.28 | 680 | 0.51 | 737                       | 0.71 | 791 | 0.90 | 844 | 1.07 | 897  | 1.23 | 952                        | 1.39 | 1010 | 1.56 | 1073 | 1.74 | 1142 | 1.94 |
| 2200              | 626                                                   | 0.38 | 686 | 0.60 | 743                       | 0.81 | 797 | 0.99 | 850 | 1.16 | 903  | 1.32 | 958                        | 1.49 | 1016 | 1.65 | 1079 | 1.83 | 1148 | 2.03 |
| 2400              | 632                                                   | 0.49 | 693 | 0.71 | 750                       | 0.92 | 804 | 1.10 | 856 | 1.27 | 910  | 1.43 | 964                        | 1.59 | 1023 | 1.76 | 1085 | 1.94 | 1154 | 2.14 |
| 2600              | 640                                                   | 0.61 | 701 | 0.84 | 758                       | 1.04 | 812 | 1.22 | 864 | 1.39 | 917  | 1.56 | 972                        | 1.72 | 1030 | 1.89 | 1093 | 2.07 | 1162 | 2.27 |
| 2800              | 650                                                   | 0.75 | 711 | 0.98 | 767                       | 1.18 | 821 | 1.36 | 874 | 1.53 | 927  | 1.70 | 982                        | 1.86 | 1040 | 2.03 | 1103 | 2.21 | 1172 | 2.40 |
| 3000              | 662                                                   | 0.90 | 723 | 1.13 | 779                       | 1.33 | 833 | 1.51 | 886 | 1.68 | 939  | 1.85 | 994                        | 2.01 | 1052 | 2.18 | 1115 | 2.36 | 1184 | 2.56 |
| 3200              | 677                                                   | 1.07 | 737 | 1.29 | 794                       | 1.50 | 848 | 1.68 | 901 | 1.85 | 954  | 2.01 | 1009                       | 2.18 | 1067 | 2.34 | 1130 | 2.52 | 1199 | 2.72 |
| 3400              | 694                                                   | 1.24 | 754 | 1.47 | 811                       | 1.67 | 865 | 1.86 | 918 | 2.03 | 971  | 2.19 | 1026                       | 2.35 | 1084 | 2.52 | 1147 | 2.70 | 1216 | 2.90 |
| 3600              | 713                                                   | 1.43 | 774 | 1.66 | 831                       | 1.86 | 885 | 2.05 | 937 | 2.22 | 991  | 2.38 | 1045                       | 2.54 | 1104 | 2.71 | 1166 | 2.89 | 1235 | 3.09 |
| 3800              | 736                                                   | 1.63 | 796 | 1.86 | 853                       | 2.06 | 907 | 2.24 | 960 | 2.41 | 1013 | 2.58 | 1068                       | 2.74 | 1126 | 2.91 | 1189 | 3.09 | 1258 | 3.29 |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZT102 (8.5 ton) side duct**

| Air flow<br>(CFM)             | Available external static pressure - IWG <sup>1</sup> |      |     |      |                         |      |     |      |                            |      |      |      |
|-------------------------------|-------------------------------------------------------|------|-----|------|-------------------------|------|-----|------|----------------------------|------|------|------|
|                               | 0.2                                                   |      | 0.4 |      | 0.6                     |      | 0.8 |      | 1.0                        |      | 1.2  |      |
|                               | RPM                                                   | BHP  | RPM | BHP  | RPM                     | BHP  | RPM | BHP  | RPM                        | BHP  | RPM  | BHP  |
|                               | Field supplied drive                                  |      |     |      | Standard 2 HP and drive |      |     |      | High static 3 HP and drive |      |      |      |
| 2200                          | 610                                                   | 0.39 | 668 | 0.66 | 724                     | 0.87 | 780 | 1.05 | 835                        | 1.21 | 891  | 1.35 |
| 2400                          | 619                                                   | 0.49 | 677 | 0.76 | 734                     | 0.98 | 789 | 1.16 | 844                        | 1.31 | 900  | 1.46 |
| 2600                          | 631                                                   | 0.61 | 689 | 0.88 | 745                     | 1.10 | 801 | 1.28 | 856                        | 1.43 | 911  | 1.58 |
| 2800                          | 644                                                   | 0.74 | 703 | 1.01 | 759                     | 1.23 | 814 | 1.41 | 869                        | 1.56 | 925  | 1.71 |
| 3000                          | 661                                                   | 0.89 | 719 | 1.16 | 775                     | 1.38 | 831 | 1.56 | 886                        | 1.71 | 941  | 1.85 |
| 3200                          | 679                                                   | 1.05 | 737 | 1.32 | 793                     | 1.53 | 849 | 1.71 | 904                        | 1.87 | 959  | 2.01 |
| 3400                          | 698                                                   | 1.22 | 757 | 1.49 | 813                     | 1.71 | 868 | 1.88 | 923                        | 2.04 | 979  | 2.18 |
| 3600                          | 720                                                   | 1.40 | 778 | 1.67 | 835                     | 1.89 | 890 | 2.07 | 945                        | 2.22 | 1001 | 2.37 |
| 3800                          | 743                                                   | 1.60 | 802 | 1.87 | 858                     | 2.08 | 913 | 2.26 | 968                        | 2.42 | 1024 | 2.56 |
| 4000                          | 768                                                   | 1.81 | 826 | 2.07 | 883                     | 2.29 | 938 | 2.47 | 993                        | 2.63 | 1049 | 2.77 |
| 4200                          | 794                                                   | 2.03 | 852 | 2.29 | 909                     | 2.51 | 964 | 2.69 | 1019                       | 2.85 | 1075 | 2.99 |
| 3 HP and field supplied drive |                                                       |      |     |      |                         |      |     |      |                            |      |      |      |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZT120 (10 ton) side duct**

| Air flow<br>(CFM)             | Available external static pressure - IWG <sup>1</sup> |      |     |      |                         |      |      |      |                            |      |      |      |
|-------------------------------|-------------------------------------------------------|------|-----|------|-------------------------|------|------|------|----------------------------|------|------|------|
|                               | 0.2                                                   |      | 0.4 |      | 0.6                     |      | 0.8  |      | 1.0                        |      | 1.2  |      |
|                               | RPM                                                   | BHP  | RPM | BHP  | RPM                     | BHP  | RPM  | BHP  | RPM                        | BHP  | RPM  | BHP  |
|                               | Field supplied drive                                  |      |     |      | Standard 2 HP and drive |      |      |      | High static 3 HP and drive |      |      |      |
| 2600                          | 647                                                   | 0.61 | 702 | 0.85 | 755                     | 1.06 | 808  | 1.24 | 860                        | 1.41 | 914  | 1.57 |
| 2800                          | 657                                                   | 0.75 | 713 | 0.99 | 766                     | 1.20 | 819  | 1.38 | 871                        | 1.55 | 925  | 1.71 |
| 3000                          | 671                                                   | 0.90 | 726 | 1.14 | 780                     | 1.35 | 832  | 1.53 | 885                        | 1.70 | 938  | 1.86 |
| 3200                          | 687                                                   | 1.06 | 742 | 1.30 | 795                     | 1.51 | 848  | 1.70 | 901                        | 1.87 | 954  | 2.03 |
| 3400                          | 705                                                   | 1.24 | 760 | 1.48 | 814                     | 1.69 | 866  | 1.87 | 919                        | 2.04 | 973  | 2.20 |
| 3600                          | 726                                                   | 1.42 | 781 | 1.66 | 835                     | 1.87 | 887  | 2.06 | 940                        | 2.23 | 993  | 2.39 |
| 3800                          | 749                                                   | 1.62 | 805 | 1.86 | 858                     | 2.07 | 910  | 2.26 | 963                        | 2.43 | 1017 | 2.59 |
| 4000                          | 775                                                   | 1.83 | 830 | 2.07 | 883                     | 2.28 | 936  | 2.46 | 989                        | 2.63 | 1042 | 2.79 |
| 4200                          | 803                                                   | 2.04 | 858 | 2.28 | 911                     | 2.49 | 964  | 2.68 | 1016                       | 2.85 | 1070 | 3.01 |
| 4400                          | 833                                                   | 2.27 | 888 | 2.51 | 941                     | 2.72 | 994  | 2.90 | 1046                       | 3.07 | 1100 | 3.24 |
| 4600                          | 865                                                   | 2.50 | 920 | 2.74 | 973                     | 2.95 | 1026 | 3.14 | 1078                       | 3.31 | -    | -    |
| 3 HP and field supplied drive |                                                       |      |     |      |                         |      |      |      |                            |      |      |      |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZT150 (12.5 ton) side duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |      |      |      |      |      |                               |      |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|------|------|------|------|------|-------------------------------|------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4  |      | 0.6  |      | 0.8  |                               | 1.0  |      | 1.2  |      | 1.4  |      |
|                   | RPM                                                   | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP                           | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Field supplied drive                                  |      |      |      |      |      |      | Standard 3 HP and drive       |      |      |      |      |      |      |
| 3200              | 736                                                   | 0.44 | 774  | 0.79 | 816  | 1.12 | 861  | 1.41                          | 910  | 1.68 | 960  | 1.92 | 1012 | 2.15 |
| 3400              | 751                                                   | 0.64 | 789  | 1.00 | 831  | 1.32 | 877  | 1.61                          | 925  | 1.88 | 975  | 2.13 | 1027 | 2.35 |
| 3600              | 768                                                   | 0.87 | 806  | 1.22 | 848  | 1.55 | 894  | 1.84                          | 942  | 2.11 | 992  | 2.35 | 1044 | 2.58 |
| 3800              | 787                                                   | 1.11 | 825  | 1.47 | 867  | 1.79 | 913  | 2.09                          | 961  | 2.35 | 1011 | 2.60 | 1063 | 2.83 |
| 4000              | 808                                                   | 1.38 | 846  | 1.74 | 888  | 2.06 | 933  | 2.35                          | 982  | 2.62 | 1032 | 2.86 | 1084 | 3.09 |
| 4200              | 830                                                   | 1.67 | 868  | 2.03 | 910  | 2.35 | 956  | 2.64                          | 1004 | 2.91 | 1054 | 3.15 | 1106 | 3.38 |
| 4400              | 854                                                   | 1.98 | 892  | 2.33 | 934  | 2.66 | 980  | 2.95                          | 1028 | 3.21 | 1078 | 3.46 | 1130 | 3.69 |
| 4600              | 880                                                   | 2.30 | 918  | 2.66 | 960  | 2.98 | 1005 | 3.28                          | 1053 | 3.54 | 1104 | 3.79 | 1156 | 4.01 |
| 4800              | 907                                                   | 2.65 | 945  | 3.01 | 987  | 3.33 | 1032 | 3.62                          | 1081 | 3.89 | 1131 | 4.13 | 1183 | 4.36 |
| 5000              | 935                                                   | 3.01 | 973  | 3.37 | 1015 | 3.69 | 1061 | 3.99                          | 1109 | 4.25 | 1160 | 4.50 | 1212 | 4.73 |
| 5200              | 965                                                   | 3.40 | 1003 | 3.75 | 1045 | 4.08 | 1091 | 4.37                          | 1139 | 4.64 | 1190 | 4.88 | 1242 | 5.11 |
| 5400              | 996                                                   | 3.80 | 1034 | 4.16 | 1076 | 4.48 | 1122 | 4.77                          | 1170 | 5.04 | 1221 | 5.28 | 1273 | 5.51 |
| 5600              | 1029                                                  | 4.22 | 1067 | 4.57 | 1109 | 4.90 | 1155 | 5.19                          | 1203 | 5.46 | 1253 | 5.70 | -    | -    |
| 5800              | 1063                                                  | 4.65 | 1101 | 5.01 | 1143 | 5.33 | 1188 | 5.62                          | -    | -    | -    | -    | -    | -    |
| 6000              | 1098                                                  | 5.10 | 1136 | 5.46 | -    | -    | -    | -                             | -    | -    | -    | -    | -    | -    |
| 6200              | 1134                                                  | 5.57 | -    | -    | -    | -    | -    | -                             | -    | -    | -    | -    | -    | -    |
|                   | High static 5 HP and drive                            |      |      |      |      |      |      | 5 HP and field supplied drive |      |      |      |      |      |      |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.

2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.

3. kW = BHP x 0.932.

**ZT037-150 bottom duct application****ZT037 (3.0 ton) bottom duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                           |      |     |      |                              |      |      |      |                 |      |
|-------------------|-------------------------------------------------------|------|-----|------|---------------------------|------|-----|------|------------------------------|------|------|------|-----------------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                       |      | 0.8 |      | 1.0                          |      | 1.2  |      | 1.4             |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                       | BHP  | RPM | BHP  | RPM                          | BHP  | RPM  | BHP  | RPM             | BHP  |
|                   | FS <sup>4</sup>                                       |      |     |      | Standard 1.5 HP and drive |      |     |      | High static 1.5 HP and drive |      |      |      | FS <sup>4</sup> |      |
| 900               | 469                                                   | 0.26 | 580 | 0.34 | 682                       | 0.43 | 775 | 0.52 | 860                          | 0.60 | 936  | 0.69 | 1004            | 0.78 |
| 1000              | 486                                                   | 0.27 | 597 | 0.36 | 699                       | 0.45 | 793 | 0.54 | 879                          | 0.63 | 956  | 0.72 | 1024            | 0.81 |
| 1100              | 504                                                   | 0.29 | 613 | 0.38 | 714                       | 0.47 | 807 | 0.56 | 892                          | 0.66 | 969  | 0.75 | 1037            | 0.84 |
| 1200              | 526                                                   | 0.31 | 635 | 0.40 | 736                       | 0.50 | 828 | 0.59 | 911                          | 0.69 | 986  | 0.78 | 1053            | 0.87 |
| 1300              | 552                                                   | 0.33 | 657 | 0.42 | 755                       | 0.52 | 844 | 0.62 | 926                          | 0.71 | 1001 | 0.81 | 1067            | 0.90 |
| 1400              | 577                                                   | 0.35 | 679 | 0.46 | 774                       | 0.56 | 862 | 0.65 | 943                          | 0.75 | 1017 | 0.84 | 1084            | 0.93 |
| 1500              | 610                                                   | 0.39 | 707 | 0.49 | 797                       | 0.60 | 882 | 0.70 | 959                          | 0.79 | 1031 | 0.89 | 1095            | 0.98 |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field supplied drive.

**ZT049 (4.0 ton) bottom duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                              |      |     |      |                 |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|------------------------------|------|-----|------|-----------------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                          |      | 0.8 |      | 1.0             |      | 1.2  |      | 1.4  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                          | BHP  | RPM | BHP  | RPM             | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Standard 1.5 HP and drive                             |      |     |      | High static 1.5 HP and drive |      |     |      | FS <sup>4</sup> |      |      |      |      |      |
| 1200              | -                                                     | -    | 633 | 0.38 | 728                          | 0.47 | 816 | 0.56 | 898             | 0.65 | 973  | 0.75 | 1042 | 0.85 |
| 1300              | -                                                     | -    | 656 | 0.41 | 748                          | 0.50 | 834 | 0.59 | 914             | 0.68 | 988  | 0.77 | 1056 | 0.87 |
| 1400              | 586                                                   | 0.37 | 680 | 0.46 | 769                          | 0.55 | 852 | 0.65 | 930             | 0.74 | 1003 | 0.84 | 1070 | 0.93 |
| 1500              | 612                                                   | 0.40 | 703 | 0.50 | 790                          | 0.59 | 871 | 0.69 | 948             | 0.78 | 1019 | 0.88 | 1086 | 0.97 |
| 1600              | 643                                                   | 0.44 | 731 | 0.53 | 814                          | 0.63 | 893 | 0.73 | 967             | 0.82 | 1037 | 0.92 | 1103 | 1.01 |
| 1700              | 671                                                   | 0.47 | 756 | 0.57 | 837                          | 0.67 | 914 | 0.77 | 987             | 0.87 | 1056 | 0.97 | 1121 | 1.07 |
| 1800              | 699                                                   | 0.53 | 781 | 0.63 | 860                          | 0.73 | 935 | 0.84 | 1006            | 0.94 | 1074 | 1.04 | 1139 | 1.14 |
| 1900              | 726                                                   | 0.58 | 805 | 0.69 | 881                          | 0.80 | 954 | 0.90 | 1024            | 1.01 | 1092 | 1.12 | 1157 | 1.22 |
| 2000              | 755                                                   | 0.64 | 831 | 0.75 | 905                          | 0.86 | 977 | 0.97 | 1046            | 1.08 | 1113 | 1.19 | 1178 | 1.3  |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field supplied drive.

**ZT061 (5.0 ton) bottom duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                           |      |      |      |                              |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|---------------------------|------|------|------|------------------------------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                       |      | 0.8  |      | 1.0                          |      | 1.2  |      | 1.4  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                       | BHP  | RPM  | BHP  | RPM                          | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | FS <sup>4</sup>                                       |      |     |      | Standard 1.5 HP and drive |      |      |      | High static 2.0 HP and drive |      |      |      |      |      |
| 1500              | 616                                                   | 0.39 | 696 | 0.50 | 771                       | 0.60 | 841  | 0.71 | 907                          | 0.81 | 968  | 0.91 | 1024 | 1.02 |
| 1600              | 643                                                   | 0.43 | 719 | 0.54 | 791                       | 0.64 | 858  | 0.74 | 921                          | 0.85 | 980  | 0.95 | 1034 | 1.06 |
| 1700              | 671                                                   | 0.47 | 746 | 0.58 | 817                       | 0.68 | 884  | 0.78 | 947                          | 0.88 | 1006 | 0.98 | 1062 | 1.09 |
| 1800              | 698                                                   | 0.52 | 771 | 0.62 | 840                       | 0.72 | 905  | 0.83 | 967                          | 0.93 | 1025 | 1.03 | 1080 | 1.13 |
| 1900              | 725                                                   | 0.57 | 796 | 0.67 | 864                       | 0.77 | 929  | 0.88 | 990                          | 0.98 | 1048 | 1.09 | 1102 | 1.19 |
| 2000              | 753                                                   | 0.62 | 822 | 0.73 | 888                       | 0.83 | 952  | 0.94 | 1012                         | 1.04 | 1069 | 1.15 | 1123 | 1.25 |
| 2100              | 782                                                   | 0.68 | 849 | 0.79 | 913                       | 0.89 | 975  | 1.00 | 1033                         | 1.11 | 1090 | 1.21 | 1143 | 1.32 |
| 2200              | 809                                                   | 0.74 | 874 | 0.85 | 936                       | 0.96 | 997  | 1.07 | 1055                         | 1.18 | 1110 | 1.29 | 1164 | 1.39 |
| 2300              | 837                                                   | 0.82 | 900 | 0.93 | 960                       | 1.04 | 1019 | 1.15 | 1076                         | 1.26 | 1132 | 1.37 | 1185 | 1.48 |
| 2400              | 865                                                   | 0.89 | 925 | 1.01 | 984                       | 1.12 | 1042 | 1.23 | 1098                         | 1.35 | 1152 | 1.46 | 1205 | 1.57 |
| 2500              | 893                                                   | 0.98 | 952 | 1.09 | 1009                      | 1.21 | 1065 | 1.33 | 1120                         | 1.44 | 1173 | 1.56 | 1226 | 1.67 |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field supplied drive.

**ZT078 (6.5 ton) bottom duct**

| Air flow<br>(CFM)             | Available external static pressure - IWG <sup>1</sup> |      |     |      |                           |      |     |      |      |      |                            |      |      |      |      |      |      |      |      |      |
|-------------------------------|-------------------------------------------------------|------|-----|------|---------------------------|------|-----|------|------|------|----------------------------|------|------|------|------|------|------|------|------|------|
|                               | 0.2                                                   |      | 0.4 |      | 0.6                       |      | 0.8 |      | 1.0  |      | 1.2                        |      | 1.4  |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                               | RPM                                                   | BHP  | RPM | BHP  | RPM                       | BHP  | RPM | BHP  | RPM  | BHP  | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                               | Field supplied drive                                  |      |     |      | Standard 1.5 HP and drive |      |     |      |      |      | High static 2 HP and drive |      |      |      |      |      |      |      |      |      |
| 1800                          | 580                                                   | 0.29 | 652 | 0.49 | 722                       | 0.70 | 791 | 0.90 | 855  | 1.09 | 917                        | 1.27 | 973  | 1.44 | 1024 | 1.58 | 1069 | 1.70 | 1108 | 1.79 |
| 2000                          | 599                                                   | 0.41 | 671 | 0.61 | 741                       | 0.81 | 809 | 1.02 | 874  | 1.21 | 935                        | 1.39 | 992  | 1.56 | 1043 | 1.70 | 1088 | 1.82 | 1127 | 1.90 |
| 2200                          | 618                                                   | 0.53 | 690 | 0.74 | 760                       | 0.94 | 829 | 1.14 | 894  | 1.34 | 955                        | 1.52 | 1011 | 1.68 | 1062 | 1.83 | 1108 | 1.94 | 1146 | 2.03 |
| 2400                          | 639                                                   | 0.67 | 711 | 0.87 | 781                       | 1.08 | 849 | 1.28 | 914  | 1.47 | 975                        | 1.66 | 1032 | 1.82 | 1083 | 1.96 | 1128 | 2.08 | 1166 | 2.17 |
| 2600                          | 661                                                   | 0.82 | 733 | 1.02 | 803                       | 1.23 | 871 | 1.43 | 936  | 1.62 | 998                        | 1.80 | 1054 | 1.97 | 1105 | 2.11 | 1150 | 2.23 | 1189 | 2.32 |
| 2800                          | 685                                                   | 0.98 | 757 | 1.18 | 828                       | 1.38 | 896 | 1.59 | 961  | 1.78 | 1022                       | 1.96 | 1078 | 2.13 | 1130 | 2.27 | 1175 | 2.39 | 1213 | 2.47 |
| 3000                          | 712                                                   | 1.15 | 784 | 1.35 | 854                       | 1.55 | 922 | 1.76 | 987  | 1.95 | 1048                       | 2.13 | 1105 | 2.30 | 1156 | 2.44 | 1201 | 2.56 | 1240 | 2.64 |
| 3200                          | 741                                                   | 1.33 | 813 | 1.53 | 883                       | 1.73 | 951 | 1.94 | 1016 | 2.13 | 1077                       | 2.31 | 1134 | 2.48 | 1185 | 2.62 | 1230 | 2.74 | 1269 | 2.82 |
| 3400                          | 772                                                   | 1.52 | 844 | 1.72 | 915                       | 1.92 | 983 | 2.13 | 1048 | 2.32 | 1109                       | 2.50 | 1165 | 2.67 | 1216 | 2.81 | 1262 | 2.93 | 1300 | 3.01 |
| 2 HP and field supplied drive |                                                       |      |     |      |                           |      |     |      |      |      |                            |      |      |      |      |      |      |      |      |      |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZT090 (7.5 ton) bottom duct**

| Air flow<br>(CFM)             | Available external static pressure - IWG <sup>1</sup> |      |     |      |                         |      |      |      |      |      |                            |      |      |      |      |      |      |      |      |      |
|-------------------------------|-------------------------------------------------------|------|-----|------|-------------------------|------|------|------|------|------|----------------------------|------|------|------|------|------|------|------|------|------|
|                               | 0.2                                                   |      | 0.4 |      | 0.6                     |      | 0.8  |      | 1.0  |      | 1.2                        |      | 1.4  |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                               | RPM                                                   | BHP  | RPM | BHP  | RPM                     | BHP  | RPM  | BHP  | RPM  | BHP  | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                               | Field supplied drive                                  |      |     |      | Standard 2 HP and drive |      |      |      |      |      | High static 3 HP and drive |      |      |      |      |      |      |      |      |      |
| 2000                          | 647                                                   | 0.50 | 702 | 0.69 | 760                     | 0.86 | 820  | 1.00 | 880  | 1.15 | 939                        | 1.29 | 997  | 1.45 | 1053 | 1.64 | 1104 | 1.85 | 1151 | 2.11 |
| 2200                          | 659                                                   | 0.63 | 715 | 0.82 | 772                     | 0.98 | 832  | 1.13 | 892  | 1.27 | 952                        | 1.42 | 1010 | 1.58 | 1065 | 1.76 | 1117 | 1.98 | 1163 | 2.23 |
| 2400                          | 675                                                   | 0.76 | 730 | 0.95 | 788                     | 1.12 | 847  | 1.26 | 907  | 1.41 | 967                        | 1.55 | 1025 | 1.71 | 1081 | 1.90 | 1132 | 2.11 | 1179 | 2.37 |
| 2600                          | 694                                                   | 0.91 | 749 | 1.10 | 807                     | 1.27 | 866  | 1.41 | 926  | 1.56 | 986                        | 1.70 | 1044 | 1.86 | 1100 | 2.05 | 1151 | 2.26 | 1198 | 2.52 |
| 2800                          | 717                                                   | 1.08 | 772 | 1.26 | 830                     | 1.43 | 889  | 1.58 | 949  | 1.72 | 1009                       | 1.87 | 1067 | 2.03 | 1122 | 2.21 | 1174 | 2.42 | 1221 | 2.68 |
| 3000                          | 744                                                   | 1.25 | 799 | 1.44 | 857                     | 1.60 | 916  | 1.75 | 976  | 1.89 | 1036                       | 2.04 | 1094 | 2.20 | 1149 | 2.38 | 1201 | 2.60 | 1248 | 2.86 |
| 3200                          | 775                                                   | 1.43 | 830 | 1.62 | 888                     | 1.78 | 947  | 1.93 | 1008 | 2.07 | 1067                       | 2.22 | 1125 | 2.38 | 1181 | 2.56 | 1232 | 2.78 | 1279 | 3.04 |
| 3400                          | 810                                                   | 1.62 | 865 | 1.81 | 923                     | 1.98 | 983  | 2.12 | 1043 | 2.27 | 1102                       | 2.41 | 1160 | 2.57 | 1216 | 2.76 | 1267 | 2.97 | 1314 | 3.23 |
| 3600                          | 849                                                   | 1.83 | 905 | 2.01 | 962                     | 2.18 | 1022 | 2.33 | 1082 | 2.47 | 1142                       | 2.62 | 1200 | 2.78 | 1255 | 2.96 | 1307 | 3.18 | 1353 | 3.43 |
| 3800                          | 893                                                   | 2.04 | 948 | 2.23 | 1006                    | 2.39 | 1065 | 2.54 | 1125 | 2.68 | 1185                       | 2.83 | 1243 | 2.99 | 1299 | 3.17 | 1350 | 3.39 | 1397 | 3.64 |
| 3 HP and field supplied drive |                                                       |      |     |      |                         |      |      |      |      |      |                            |      |      |      |      |      |      |      |      |      |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZT102 (8.5 ton) bottom duct**

| Air flow<br>(CFM)             | Available external static pressure - IWG <sup>1</sup> |      |      |      |                         |      |      |      |      |      |                            |      |      |      |      |      |      |      |      |      |
|-------------------------------|-------------------------------------------------------|------|------|------|-------------------------|------|------|------|------|------|----------------------------|------|------|------|------|------|------|------|------|------|
|                               | 0.2                                                   |      | 0.4  |      | 0.6                     |      | 0.8  |      | 1.0  |      | 1.2                        |      | 1.4  |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                               | RPM                                                   | BHP  | RPM  | BHP  | RPM                     | BHP  | RPM  | BHP  | RPM  | BHP  | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                               | Field supplied drive                                  |      |      |      | Standard 2 HP and drive |      |      |      |      |      | High static 3 HP and drive |      |      |      |      |      |      |      |      |      |
| 2200                          | 686                                                   | 0.77 | 732  | 0.90 | 782                     | 1.04 | 837  | 1.17 | 895  | 1.30 | 953                        | 1.42 | 1011 | 1.53 | 1067 | 1.63 | 1120 | 1.72 | 1169 | 1.80 |
| 2400                          | 703                                                   | 0.88 | 749  | 1.02 | 800                     | 1.15 | 854  | 1.28 | 912  | 1.41 | 970                        | 1.53 | 1028 | 1.64 | 1084 | 1.74 | 1138 | 1.83 | 1186 | 1.91 |
| 2600                          | 722                                                   | 1.00 | 768  | 1.14 | 819                     | 1.28 | 873  | 1.41 | 931  | 1.53 | 989                        | 1.65 | 1047 | 1.77 | 1104 | 1.87 | 1157 | 1.96 | 1205 | 2.04 |
| 2800                          | 744                                                   | 1.14 | 789  | 1.28 | 840                     | 1.42 | 895  | 1.55 | 952  | 1.67 | 1011                       | 1.79 | 1069 | 1.91 | 1125 | 2.01 | 1178 | 2.10 | 1227 | 2.18 |
| 3000                          | 767                                                   | 1.30 | 813  | 1.43 | 863                     | 1.57 | 918  | 1.70 | 976  | 1.83 | 1034                       | 1.95 | 1092 | 2.06 | 1148 | 2.16 | 1202 | 2.25 | 1250 | 2.33 |
| 3200                          | 793                                                   | 1.47 | 838  | 1.60 | 889                     | 1.74 | 944  | 1.87 | 1002 | 2.00 | 1060                       | 2.12 | 1118 | 2.23 | 1174 | 2.33 | 1227 | 2.42 | 1276 | 2.50 |
| 3400                          | 821                                                   | 1.65 | 867  | 1.79 | 918                     | 1.92 | 972  | 2.05 | 1030 | 2.18 | 1088                       | 2.30 | 1146 | 2.41 | 1203 | 2.52 | 1256 | 2.61 | 1304 | 2.68 |
| 3600                          | 852                                                   | 1.85 | 897  | 1.99 | 948                     | 2.12 | 1003 | 2.25 | 1060 | 2.38 | 1119                       | 2.50 | 1177 | 2.61 | 1233 | 2.71 | 1286 | 2.81 | 1335 | 2.88 |
| 3800                          | 884                                                   | 2.06 | 930  | 2.20 | 981                     | 2.33 | 1036 | 2.46 | 1093 | 2.59 | 1151                       | 2.71 | 1209 | 2.82 | 1266 | 2.93 | 1319 | 3.02 | 1367 | 3.10 |
| 4000                          | 919                                                   | 2.29 | 965  | 2.42 | 1016                    | 2.56 | 1071 | 2.69 | 1128 | 2.82 | 1186                       | 2.94 | 1244 | 3.05 | 1301 | 3.15 | 1354 | 3.24 | 1402 | 3.32 |
| 4200                          | 956                                                   | 2.53 | 1002 | 2.66 | 1053                    | 2.80 | 1108 | 2.93 | 1165 | 3.06 | 1223                       | 3.18 | 1282 | 3.29 | 1338 | 3.39 | -    | -    | -    | -    |
| 3 HP and field supplied drive |                                                       |      |      |      |                         |      |      |      |      |      |                            |      |      |      |      |      |      |      |      |      |

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZT120 (10 ton) bottom duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |                         |      |      |      |      |      |      |      |                            |      |      |      |      |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-------------------------|------|------|------|------|------|------|------|----------------------------|------|------|------|------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4                     |      | 0.6  |      | 0.8  |      | 1.0  |      | 1.2                        |      | 1.4  |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                   | RPM                                                   | BHP  | RPM                     | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Field supplied drive                                  |      | Standard 2 HP and drive |      |      |      |      |      |      |      | High static 3 HP and drive |      |      |      |      |      |      |      |      |      |
| 2600              | 742                                                   | 1.06 | 782                     | 1.18 | 828  | 1.30 | 880  | 1.43 | 936  | 1.56 | 993                        | 1.69 | 1050 | 1.80 | 1105 | 1.91 | 1157 | 1.99 | 1204 | 2.05 |
| 2800              | 762                                                   | 1.20 | 802                     | 1.32 | 849  | 1.44 | 901  | 1.57 | 956  | 1.70 | 1014                       | 1.83 | 1071 | 1.94 | 1126 | 2.05 | 1178 | 2.13 | 1224 | 2.19 |
| 3000              | 785                                                   | 1.36 | 825                     | 1.47 | 872  | 1.60 | 924  | 1.73 | 979  | 1.86 | 1036                       | 1.98 | 1093 | 2.10 | 1149 | 2.20 | 1200 | 2.28 | 1247 | 2.35 |
| 3200              | 810                                                   | 1.52 | 850                     | 1.64 | 897  | 1.76 | 949  | 1.89 | 1004 | 2.02 | 1061                       | 2.15 | 1118 | 2.27 | 1173 | 2.37 | 1225 | 2.45 | 1272 | 2.51 |
| 3400              | 837                                                   | 1.71 | 877                     | 1.82 | 924  | 1.95 | 976  | 2.08 | 1031 | 2.21 | 1088                       | 2.33 | 1145 | 2.45 | 1200 | 2.55 | 1252 | 2.63 | 1299 | 2.70 |
| 3600              | 866                                                   | 1.90 | 906                     | 2.02 | 953  | 2.14 | 1005 | 2.27 | 1060 | 2.40 | 1117                       | 2.53 | 1174 | 2.64 | 1230 | 2.75 | 1281 | 2.83 | 1328 | 2.89 |
| 3800              | 897                                                   | 2.11 | 937                     | 2.23 | 984  | 2.35 | 1036 | 2.48 | 1091 | 2.61 | 1148                       | 2.74 | 1205 | 2.85 | 1261 | 2.96 | 1313 | 3.04 | 1359 | 3.10 |
| 4000              | 930                                                   | 2.34 | 970                     | 2.45 | 1017 | 2.58 | 1069 | 2.70 | 1125 | 2.84 | 1182                       | 2.96 | 1239 | 3.08 | 1294 | 3.18 | 1346 | 3.26 | 1392 | 3.32 |
| 4200              | 966                                                   | 2.57 | 1006                    | 2.69 | 1052 | 2.81 | 1104 | 2.94 | 1160 | 3.07 | 1217                       | 3.20 | 1274 | 3.31 | 1329 | 3.42 | -    | -    | -    | -    |
| 4400              | 1003                                                  | 2.82 | 1043                    | 2.94 | 1089 | 3.06 | 1141 | 3.19 | 1197 | 3.32 | 1254                       | 3.45 | -    | -    | -    | -    | -    | -    | -    | -    |
| 4600              | 1041                                                  | 3.08 | 1082                    | 3.20 | 1128 | 3.32 | 1180 | 3.45 | -    | -    | -                          | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                   | 3 HP and field supplied drive                         |      |                         |      |      |      |      |      |      |      |                            |      |      |      |      |      |      |      |      |      |

3 HP and field supplied drive

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZT150 (12.5 ton) bottom duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |      |      |                         |      |      |      |      |      |      |      |                            |      |      |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|------|------|-------------------------|------|------|------|------|------|------|------|----------------------------|------|------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4  |      | 0.6                     |      | 0.8  |      | 1.0  |      | 1.2  |      | 1.4                        |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                   | RPM                                                   | BHP  | RPM  | BHP  | RPM                     | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Field supplied drive                                  |      |      |      | Standard 3 HP and drive |      |      |      |      |      |      |      | High static 5 HP and drive |      |      |      |      |      |      |      |
| 3200              | 829                                                   | 0.96 | 870  | 1.21 | 914                     | 1.46 | 960  | 1.70 | 1009 | 1.93 | 1059 | 2.15 | 1111                       | 2.37 | 1164 | 2.57 | 1218 | 2.76 | 1273 | 2.93 |
| 3400              | 853                                                   | 1.18 | 894  | 1.43 | 938                     | 1.68 | 984  | 1.92 | 1033 | 2.15 | 1083 | 2.38 | 1135                       | 2.59 | 1188 | 2.79 | 1242 | 2.98 | 1297 | 3.16 |
| 3600              | 879                                                   | 1.43 | 920  | 1.68 | 964                     | 1.93 | 1010 | 2.17 | 1059 | 2.40 | 1109 | 2.63 | 1161                       | 2.84 | 1214 | 3.04 | 1268 | 3.23 | 1323 | 3.41 |
| 3800              | 907                                                   | 1.70 | 948  | 1.95 | 992                     | 2.20 | 1038 | 2.44 | 1087 | 2.67 | 1137 | 2.90 | 1189                       | 3.11 | 1242 | 3.31 | 1296 | 3.50 | 1351 | 3.68 |
| 4000              | 937                                                   | 1.99 | 978  | 2.25 | 1022                    | 2.50 | 1068 | 2.74 | 1117 | 2.97 | 1167 | 3.19 | 1219                       | 3.40 | 1272 | 3.61 | 1326 | 3.80 | 1381 | 3.97 |
| 4200              | 969                                                   | 2.31 | 1010 | 2.57 | 1054                    | 2.81 | 1101 | 3.05 | 1149 | 3.29 | 1200 | 3.51 | 1252                       | 3.72 | 1305 | 3.93 | 1359 | 4.11 | 1413 | 4.29 |
| 4400              | 1003                                                  | 2.65 | 1045 | 2.91 | 1089                    | 3.16 | 1135 | 3.40 | 1184 | 3.63 | 1234 | 3.85 | 1286                       | 4.06 | 1339 | 4.27 | 1393 | 4.46 | 1448 | 4.63 |
| 4600              | 1040                                                  | 3.02 | 1081 | 3.27 | 1125                    | 3.52 | 1171 | 3.76 | 1220 | 3.99 | 1270 | 4.22 | 1322                       | 4.43 | 1375 | 4.63 | 1429 | 4.82 | 1484 | 5.00 |
| 4800              | 1078                                                  | 3.41 | 1119 | 3.66 | 1163                    | 3.91 | 1210 | 4.15 | 1258 | 4.38 | 1309 | 4.60 | 1361                       | 4.82 | 1414 | 5.02 | 1468 | 5.21 | 1522 | 5.38 |
| 5000              | 1119                                                  | 3.82 | 1160 | 4.07 | 1204                    | 4.32 | 1250 | 4.56 | 1299 | 4.79 | 1349 | 5.01 | 1401                       | 5.23 | 1454 | 5.43 | 1508 | 5.62 | 1563 | 5.79 |
| 5200              | 1161                                                  | 4.25 | 1202 | 4.50 | 1246                    | 4.75 | 1293 | 4.99 | 1341 | 5.22 | 1392 | 5.45 | 1443                       | 5.66 | -    | -    | -    | -    | -    | -    |
| 5400              | 1205                                                  | 4.70 | 1246 | 4.95 | 1290                    | 5.20 | 1337 | 5.44 | 1385 | 5.67 | -    | -    | -                          | -    | -    | -    | -    | -    | -    | -    |
| 5600              | 1251                                                  | 5.17 | 1292 | 5.43 | 1336                    | 5.68 | -    | -    | -    | -    | -    | -    | -                          | -    | -    | -    | -    | -    | -    | -    |
| 5800              | 1299                                                  | 5.67 | -    | -    | -                       | -    | -    | -    | -    | -    | -    | -    | -                          | -    | -    | -    | -    | -    | -    | -    |
|                   | 5 HP and field supplied drive                         |      |      |      |                         |      |      |      |      |      |      |      |                            |      |      |      |      |      |      |      |

5 HP and field supplied drive

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZB078-150 side duct application****ZB078 (6.5 ton) side duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                           |      |     |      |     |      |      |      |                            |      |      |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|---------------------------|------|-----|------|-----|------|------|------|----------------------------|------|------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                       |      | 0.8 |      | 1.0 |      | 1.2  |      | 1.4                        |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                       | BHP  | RPM | BHP  | RPM | BHP  | RPM  | BHP  | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Field supplied drive                                  |      |     |      | Standard 1.5 HP and drive |      |     |      |     |      |      |      | High static 3 HP and drive |      |      |      |      |      |      |      |
| 2000              | 620                                                   | 0.28 | 680 | 0.51 | 737                       | 0.71 | 791 | 0.90 | 844 | 1.07 | 897  | 1.23 | 952                        | 1.39 | 1010 | 1.56 | 1073 | 1.74 | 1142 | 1.94 |
| 2200              | 626                                                   | 0.38 | 686 | 0.60 | 743                       | 0.81 | 797 | 0.99 | 850 | 1.16 | 903  | 1.32 | 958                        | 1.49 | 1016 | 1.65 | 1079 | 1.83 | 1148 | 2.03 |
| 2400              | 632                                                   | 0.49 | 693 | 0.71 | 750                       | 0.92 | 804 | 1.10 | 856 | 1.27 | 910  | 1.43 | 964                        | 1.59 | 1023 | 1.76 | 1085 | 1.94 | 1154 | 2.14 |
| 2600              | 640                                                   | 0.61 | 701 | 0.84 | 758                       | 1.04 | 812 | 1.22 | 864 | 1.39 | 917  | 1.56 | 972                        | 1.72 | 1030 | 1.89 | 1093 | 2.07 | 1162 | 2.27 |
| 2800              | 650                                                   | 0.75 | 711 | 0.98 | 767                       | 1.18 | 821 | 1.36 | 874 | 1.53 | 927  | 1.70 | 982                        | 1.86 | 1040 | 2.03 | 1103 | 2.21 | 1172 | 2.40 |
| 3000              | 662                                                   | 0.90 | 723 | 1.13 | 779                       | 1.33 | 833 | 1.51 | 886 | 1.68 | 939  | 1.85 | 994                        | 2.01 | 1052 | 2.18 | 1115 | 2.36 | 1184 | 2.56 |
| 3200              | 677                                                   | 1.07 | 737 | 1.29 | 794                       | 1.50 | 848 | 1.68 | 901 | 1.85 | 954  | 2.01 | 1009                       | 2.18 | 1067 | 2.34 | 1130 | 2.52 | 1199 | 2.72 |
| 3400              | 694                                                   | 1.24 | 754 | 1.47 | 811                       | 1.67 | 865 | 1.86 | 918 | 2.03 | 971  | 2.19 | 1026                       | 2.35 | 1084 | 2.52 | 1147 | 2.70 | 1216 | 2.90 |
| 3600              | 713                                                   | 1.43 | 774 | 1.66 | 831                       | 1.86 | 885 | 2.05 | 937 | 2.22 | 991  | 2.38 | 1045                       | 2.54 | 1104 | 2.71 | 1166 | 2.89 | 1235 | 3.09 |
| 3800              | 736                                                   | 1.63 | 796 | 1.86 | 853                       | 2.06 | 907 | 2.24 | 960 | 2.41 | 1013 | 2.58 | 1068                       | 2.74 | 1126 | 2.91 | 1189 | 3.09 | 1258 | 3.29 |
|                   | 3 HP & Field Supplied Drive                           |      |     |      |                           |      |     |      |     |      |      |      |                            |      |      |      |      |      |      |      |

3 HP &amp; Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZB090 (7.5 ton) side duct**

| Air Flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                         |      |     |      |     |      |     |      |                        |      |      |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|-------------------------|------|-----|------|-----|------|-----|------|------------------------|------|------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                     |      | 0.8 |      | 1.0 |      | 1.2 |      | 1.4                    |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                     | BHP  | RPM | BHP  | RPM | BHP  | RPM | BHP  | RPM                    | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | FS <sup>4</sup>                                       |      |     |      | Standard 1.5 HP & Drive |      |     |      |     |      |     |      | Hi Static 3 HP & Drive |      |      |      |      |      |      |      |
| 2000              | -                                                     | -    | 656 | 0.24 | 711                     | 0.48 | 768 | 0.73 | 826 | 0.96 | 886 | 1.19 | 945                    | 1.41 | 1003 | 1.61 | 1058 | 1.79 | 1110 | 1.95 |
| 2200              | 619                                                   | 0.07 | 670 | 0.32 | 724                     | 0.57 | 781 | 0.81 | 840 | 1.04 | 899 | 1.27 | 959                    | 1.49 | 1016 | 1.69 | 1072 | 1.87 | 1124 | 2.04 |
| 2400              | 631                                                   | 0.16 | 682 | 0.41 | 736                     | 0.66 | 793 | 0.90 | 852 | 1.14 | 911 | 1.36 | 970                    | 1.58 | 1028 | 1.78 | 1084 | 1.97 | 1136 | 2.13 |
| 2600              | 642                                                   | 0.27 | 692 | 0.52 | 747                     | 0.76 | 804 | 1.01 | 862 | 1.24 | 922 | 1.47 | 981                    | 1.69 | 1039 | 1.89 | 1094 | 2.07 | 1146 | 2.24 |
| 2800              | 652                                                   | 0.39 | 703 | 0.64 | 757                     | 0.88 | 814 | 1.13 | 873 | 1.36 | 932 | 1.59 | 992                    | 1.81 | 1049 | 2.01 | 1105 | 2.19 | 1157 | 2.36 |
| 3000              | 663                                                   | 0.53 | 714 | 0.77 | 768                     | 1.02 | 825 | 1.26 | 884 | 1.50 | 943 | 1.73 | 1003                   | 1.94 | 1060 | 2.14 | 1116 | 2.33 | 1168 | 2.49 |
| 3200              | 675                                                   | 0.68 | 726 | 0.92 | 780                     | 1.17 | 837 | 1.41 | 896 | 1.65 | 955 | 1.88 | 1014                   | 2.09 | 1072 | 2.29 | 1128 | 2.48 | 1180 | 2.64 |
| 3400              | 688                                                   | 0.84 | 739 | 1.09 | 793                     | 1.34 | 850 | 1.58 | 909 | 1.82 | 968 | 2.04 | 1027                   | 2.26 | 1085 | 2.46 | 1141 | 2.65 | 1193 | 2.81 |
| 3600              | 703                                                   | 1.03 | 753 | 1.28 | 807                     | 1.52 | 864 | 1.76 | 923 | 2.00 | 983 | 2.23 | 1042                   | 2.44 | 1100 | 2.64 | 1155 | 2.83 | -    | -    |
| 3800              | 718                                                   | 1.23 | 769 | 1.47 | 823                     | 1.72 | 880 | 1.96 | 939 | 2.20 | 998 | 2.43 | 1058                   | 2.64 | 1115 | 2.84 | 1171 | 3.03 | -    | -    |

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM selection table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

**ZB102 (8.5 ton) side duct**

| Air Flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                       |      |     |      |     |      |      |      |                        |      |      |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|-----------------------|------|-----|------|-----|------|------|------|------------------------|------|------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                   |      | 0.8 |      | 1.0 |      | 1.2  |      | 1.4                    |      | 1.6  |      | 1.8  |      | 2.0  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                   | BHP  | RPM | BHP  | RPM | BHP  | RPM  | BHP  | RPM                    | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Field Supplied Drive                                  |      |     |      | Standard 2 HP & Drive |      |     |      |     |      |      |      | Hi Static 3 HP & Drive |      |      |      |      |      |      |      |
| 2200              | 654                                                   | 0.32 | 706 | 0.53 | 755                   | 0.73 | 803 | 0.92 | 849 | 1.10 | 893  | 1.27 | 937                    | 1.44 | 979  | 1.62 | 1020 | 1.79 | 1061 | 1.96 |
| 2400              | 664                                                   | 0.43 | 716 | 0.64 | 765                   | 0.83 | 813 | 1.02 | 859 | 1.20 | 904  | 1.38 | 947                    | 1.55 | 989  | 1.72 | 1030 | 1.89 | 1071 | 2.07 |
| 2600              | 675                                                   | 0.53 | 726 | 0.74 | 776                   | 0.94 | 824 | 1.12 | 870 | 1.30 | 914  | 1.48 | 957                    | 1.65 | 1000 | 1.82 | 1041 | 1.99 | 1082 | 2.17 |
| 2800              | 686                                                   | 0.63 | 738 | 0.84 | 787                   | 1.04 | 835 | 1.23 | 881 | 1.41 | 925  | 1.58 | 969                    | 1.76 | 1011 | 1.93 | 1052 | 2.10 | 1093 | 2.27 |
| 3000              | 699                                                   | 0.75 | 750 | 0.96 | 800                   | 1.16 | 847 | 1.34 | 893 | 1.52 | 938  | 1.70 | 981                    | 1.87 | 1024 | 2.04 | 1065 | 2.21 | 1106 | 2.39 |
| 3200              | 713                                                   | 0.88 | 764 | 1.09 | 814                   | 1.28 | 861 | 1.47 | 907 | 1.65 | 952  | 1.83 | 995                    | 2.00 | 1037 | 2.17 | 1079 | 2.34 | 1119 | 2.52 |
| 3400              | 728                                                   | 1.02 | 779 | 1.23 | 829                   | 1.43 | 877 | 1.61 | 923 | 1.79 | 967  | 1.97 | 1010                   | 2.14 | 1053 | 2.31 | 1094 | 2.48 | 1135 | 2.66 |
| 3600              | 745                                                   | 1.18 | 796 | 1.39 | 846                   | 1.59 | 893 | 1.77 | 939 | 1.95 | 984  | 2.13 | 1027                   | 2.30 | 1069 | 2.47 | 1111 | 2.64 | 1152 | 2.82 |
| 3800              | 763                                                   | 1.36 | 815 | 1.57 | 864                   | 1.76 | 912 | 1.95 | 958 | 2.13 | 1002 | 2.31 | 1046                   | 2.48 | 1088 | 2.65 | 1129 | 2.82 | 1170 | 3.00 |
| 4000              | 783                                                   | 1.55 | 835 | 1.76 | 884                   | 1.96 | 932 | 2.15 | 978 | 2.33 | 1022 | 2.50 | 1066                   | 2.67 | 1108 | 2.84 | 1149 | 3.02 | 1190 | 3.19 |
| 4200              | 805                                                   | 1.77 | 856 | 1.98 | 906                   | 2.17 | 953 | 2.36 | 999 | 2.54 | 1044 | 2.72 | 1087                   | 2.89 | 1129 | 3.06 | 1171 | 3.23 | 1211 | 3.41 |
|                   | 3 HP & Field Supplied Drive                           |      |     |      |                       |      |     |      |     |      |      |      |                        |      |      |      |      |      |      |      |

3 HP &amp; Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM selection table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZB120 (10 ton) side duct**

| Air Flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |      |                       |      |      |      |                        |      |      |      |
|-------------------|-------------------------------------------------------|------|-----|------|-----------------------|------|------|------|------------------------|------|------|------|
|                   | 0.2                                                   |      | 0.4 |      | 0.6                   |      | 0.8  |      | 1.0                    |      | 1.2  |      |
|                   | RPM                                                   | BHP  | RPM | BHP  | RPM                   | BHP  | RPM  | BHP  | RPM                    | BHP  | RPM  | BHP  |
|                   | Field Supplied Drive                                  |      |     |      | Standard 2 HP & Drive |      |      |      | Hi Static 3 HP & Drive |      |      |      |
| 2600              | 675                                                   | 0.53 | 726 | 0.74 | 776                   | 0.94 | 824  | 1.12 | 870                    | 1.30 | 914  | 1.48 |
| 2800              | 686                                                   | 0.63 | 738 | 0.84 | 787                   | 1.04 | 835  | 1.23 | 881                    | 1.41 | 925  | 1.58 |
| 3000              | 699                                                   | 0.75 | 750 | 0.96 | 800                   | 1.16 | 847  | 1.34 | 893                    | 1.52 | 938  | 1.70 |
| 3200              | 713                                                   | 0.88 | 764 | 1.09 | 814                   | 1.28 | 861  | 1.47 | 907                    | 1.65 | 952  | 1.83 |
| 3400              | 728                                                   | 1.02 | 779 | 1.23 | 829                   | 1.43 | 877  | 1.61 | 923                    | 1.79 | 967  | 1.97 |
| 3600              | 745                                                   | 1.18 | 796 | 1.39 | 846                   | 1.59 | 893  | 1.77 | 939                    | 1.95 | 984  | 2.13 |
| 3800              | 763                                                   | 1.36 | 815 | 1.57 | 864                   | 1.76 | 912  | 1.95 | 958                    | 2.13 | 1002 | 2.31 |
| 4000              | 783                                                   | 1.55 | 835 | 1.76 | 884                   | 1.96 | 932  | 2.15 | 978                    | 2.33 | 1022 | 2.50 |
| 4200              | 805                                                   | 1.77 | 856 | 1.98 | 906                   | 2.17 | 953  | 2.36 | 999                    | 2.54 | 1044 | 2.72 |
| 4400              | 828                                                   | 2.00 | 879 | 2.21 | 929                   | 2.41 | 976  | 2.59 | 1022                   | 2.77 | 1067 | 2.95 |
| 4600              | 852                                                   | 2.25 | 904 | 2.46 | 953                   | 2.66 | 1001 | 2.85 | 1047                   | 3.03 | 1092 | 3.20 |
| 4800              | 879                                                   | 2.52 | 930 | 2.73 | 980                   | 2.93 | 1027 | 3.12 | 1073                   | 3.30 | -    | -    |
| 5000              | 906                                                   | 2.81 | 958 | 3.02 | 1007                  | 3.22 | 1055 | 3.41 | -                      | -    | -    | -    |

3 HP &amp; Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM selection table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZB150 (12.5 ton) side duct**

| Air Flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |      |      |                       |      |      |      |      |      |      |      |
|-------------------|-------------------------------------------------------|------|------|------|-----------------------|------|------|------|------|------|------|------|
|                   | 0.2                                                   |      | 0.4  |      | 0.6                   |      | 0.8  |      | 1.0  |      | 1.2  |      |
|                   | RPM                                                   | BHP  | RPM  | BHP  | RPM                   | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
|                   | Field Supplied Drive                                  |      |      |      | Standard 3 HP & Drive |      |      |      |      |      |      |      |
| 3200              | 713                                                   | 0.88 | 764  | 1.09 | 814                   | 1.28 | 861  | 1.47 | 907  | 1.65 | 952  | 1.83 |
| 3400              | 728                                                   | 1.02 | 779  | 1.23 | 829                   | 1.43 | 877  | 1.61 | 923  | 1.79 | 967  | 1.97 |
| 3600              | 745                                                   | 1.18 | 796  | 1.39 | 846                   | 1.59 | 893  | 1.77 | 939  | 1.95 | 984  | 2.13 |
| 3800              | 763                                                   | 1.36 | 815  | 1.57 | 864                   | 1.76 | 912  | 1.95 | 958  | 2.13 | 1002 | 2.31 |
| 4000              | 783                                                   | 1.55 | 835  | 1.76 | 884                   | 1.96 | 932  | 2.15 | 978  | 2.33 | 1022 | 2.50 |
| 4200              | 805                                                   | 1.77 | 856  | 1.98 | 906                   | 2.17 | 953  | 2.36 | 999  | 2.54 | 1044 | 2.72 |
| 4400              | 828                                                   | 2.00 | 879  | 2.21 | 929                   | 2.41 | 976  | 2.59 | 1022 | 2.77 | 1067 | 2.95 |
| 4600              | 852                                                   | 2.25 | 904  | 2.46 | 953                   | 2.66 | 1001 | 2.85 | 1047 | 3.03 | 1092 | 3.20 |
| 4800              | 879                                                   | 2.52 | 930  | 2.73 | 980                   | 2.93 | 1027 | 3.12 | 1073 | 3.30 | 1118 | 3.47 |
| 5000              | 906                                                   | 2.81 | 958  | 3.02 | 1007                  | 3.22 | 1055 | 3.41 | 1101 | 3.59 | 1146 | 3.76 |
| 5200              | 936                                                   | 3.12 | 987  | 3.33 | 1037                  | 3.53 | 1084 | 3.72 | 1130 | 3.90 | 1175 | 4.07 |
| 5400              | 966                                                   | 3.45 | 1018 | 3.66 | 1067                  | 3.86 | 1115 | 4.05 | 1161 | 4.23 | 1206 | 4.40 |
| 5600              | 999                                                   | 3.80 | 1050 | 4.01 | 1100                  | 4.20 | 1147 | 4.39 | 1193 | 4.57 | 1238 | 4.75 |
| 5800              | 1032                                                  | 4.16 | 1084 | 4.37 | 1133                  | 4.57 | 1181 | 4.75 | 1227 | 4.93 | 1271 | 5.11 |
| 6000              | 1067                                                  | 4.54 | 1119 | 4.75 | 1168                  | 4.95 | 1216 | 5.13 | 1262 | 5.31 | 1306 | 5.49 |
| 6200              | 1103                                                  | 4.94 | 1155 | 5.15 | 1204                  | 5.34 | 1252 | 5.53 | 1298 | 5.71 | -    | -    |

Hi Static 5 HP &amp; Drive

5 HP &amp; Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM selection table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.



**ZB078-150 bottom duct application****ZB078 (6.5 ton) bottom duct**

| Air flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |                         |      |      |      |      |      |                            |      |      |
|-------------------|-------------------------------------------------------|------|-----|-------------------------|------|------|------|------|------|----------------------------|------|------|
|                   | 0.2                                                   |      | 0.4 |                         | 0.6  |      | 0.8  |      | 1.0  |                            | 1.2  |      |
|                   | RPM                                                   | BHP  | RPM | BHP                     | RPM  | BHP  | RPM  | BHP  | RPM  | BHP                        | RPM  | BHP  |
|                   | Field supplied drive                                  |      |     | Standard 2 HP and drive |      |      |      |      |      | High static 3 HP and drive |      |      |
| 2000              | 647                                                   | 0.50 | 702 | 0.69                    | 760  | 0.86 | 820  | 1.00 | 880  | 1.15                       | 939  | 1.29 |
| 2200              | 659                                                   | 0.63 | 715 | 0.82                    | 772  | 0.98 | 832  | 1.13 | 892  | 1.27                       | 952  | 1.42 |
| 2400              | 675                                                   | 0.76 | 730 | 0.95                    | 788  | 1.12 | 847  | 1.26 | 907  | 1.41                       | 967  | 1.55 |
| 2600              | 694                                                   | 0.91 | 749 | 1.10                    | 807  | 1.27 | 866  | 1.41 | 926  | 1.56                       | 986  | 1.70 |
| 2800              | 717                                                   | 1.08 | 772 | 1.26                    | 830  | 1.43 | 889  | 1.58 | 949  | 1.72                       | 1009 | 1.87 |
| 3000              | 744                                                   | 1.25 | 799 | 1.44                    | 857  | 1.60 | 916  | 1.75 | 976  | 1.89                       | 1036 | 2.04 |
| 3200              | 775                                                   | 1.43 | 830 | 1.62                    | 888  | 1.78 | 947  | 1.93 | 1008 | 2.07                       | 1067 | 2.22 |
| 3400              | 810                                                   | 1.62 | 865 | 1.81                    | 923  | 1.98 | 983  | 2.12 | 1043 | 2.27                       | 1102 | 2.41 |
| 3600              | 849                                                   | 1.83 | 905 | 2.01                    | 962  | 2.18 | 1022 | 2.33 | 1082 | 2.47                       | 1142 | 2.62 |
| 3800              | 893                                                   | 2.04 | 948 | 2.23                    | 1006 | 2.39 | 1065 | 2.54 | 1125 | 2.68                       | 1185 | 2.83 |

3 HP and field supplied drive

1. Blower performance includes gas heat exchangers and 2-in. filters. See the static resistance table for additional applications.
2. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZB090 (7.5 Ton) bottom duct**

| Air Flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |     |                         |     |      |      |      |      |                        |      |      |
|-------------------|-------------------------------------------------------|------|-----|-------------------------|-----|------|------|------|------|------------------------|------|------|
|                   | 0.2                                                   |      | 0.4 |                         | 0.6 |      | 0.8  |      | 1.0  |                        | 1.2  |      |
|                   | RPM                                                   | BHP  | RPM | BHP                     | RPM | BHP  | RPM  | BHP  | RPM  | BHP                    | RPM  | BHP  |
|                   | FS <sup>4</sup>                                       |      |     | Standard 1.5 HP & Drive |     |      |      |      |      | Hi Static 3 HP & Drive |      |      |
| 2000              | 644                                                   | 0.11 | 698 | 0.38                    | 755 | 0.62 | 814  | 0.85 | 874  | 1.06                   | 933  | 1.26 |
| 2200              | 666                                                   | 0.26 | 720 | 0.53                    | 777 | 0.77 | 836  | 1.00 | 896  | 1.21                   | 956  | 1.41 |
| 2400              | 689                                                   | 0.42 | 743 | 0.69                    | 800 | 0.93 | 859  | 1.16 | 919  | 1.37                   | 978  | 1.57 |
| 2600              | 712                                                   | 0.60 | 766 | 0.87                    | 823 | 1.11 | 882  | 1.34 | 942  | 1.55                   | 1002 | 1.75 |
| 2800              | 736                                                   | 0.80 | 790 | 1.06                    | 847 | 1.31 | 906  | 1.53 | 967  | 1.74                   | 1026 | 1.94 |
| 3000              | 761                                                   | 1.00 | 815 | 1.27                    | 872 | 1.52 | 931  | 1.74 | 991  | 1.95                   | 1051 | 2.15 |
| 3200              | 787                                                   | 1.22 | 840 | 1.49                    | 898 | 1.74 | 957  | 1.96 | 1017 | 2.17                   | 1076 | 2.37 |
| 3400              | 813                                                   | 1.46 | 867 | 1.73                    | 924 | 1.97 | 984  | 2.19 | 1044 | 2.40                   | 1103 | 2.61 |
| 3600              | 841                                                   | 1.70 | 894 | 1.97                    | 952 | 2.21 | 1011 | 2.44 | 1071 | 2.65                   | 1130 | 2.85 |
| 3800              | 869                                                   | 1.96 | 923 | 2.22                    | 980 | 2.47 | 1039 | 2.69 | 1099 | 2.90                   | 1158 | 3.10 |

3 HP &amp; Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM selection table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

**ZB102 (8.5 ton) bottom duct**

| Air Flow<br>(CFM) | Available external static pressure - IWG <sup>1</sup> |      |      |                       |      |      |      |      |      |                        |      |      |
|-------------------|-------------------------------------------------------|------|------|-----------------------|------|------|------|------|------|------------------------|------|------|
|                   | 0.2                                                   |      | 0.4  |                       | 0.6  |      | 0.8  |      | 1.0  |                        | 1.2  |      |
|                   | RPM                                                   | BHP  | RPM  | BHP                   | RPM  | BHP  | RPM  | BHP  | RPM  | BHP                    | RPM  | BHP  |
|                   | FS <sup>4</sup>                                       |      |      | Standard 2 HP & Drive |      |      |      |      |      | Hi Static 3 HP & Drive |      |      |
| 2200              | 685                                                   | 0.59 | 739  | 0.74                  | 791  | 0.88 | 841  | 1.01 | 889  | 1.14                   | 936  | 1.27 |
| 2400              | 702                                                   | 0.70 | 756  | 0.85                  | 808  | 0.99 | 858  | 1.12 | 906  | 1.25                   | 953  | 1.37 |
| 2600              | 722                                                   | 0.83 | 776  | 0.97                  | 828  | 1.11 | 878  | 1.25 | 926  | 1.37                   | 973  | 1.50 |
| 2800              | 744                                                   | 0.97 | 798  | 1.12                  | 850  | 1.26 | 900  | 1.39 | 949  | 1.52                   | 995  | 1.64 |
| 3000              | 769                                                   | 1.13 | 823  | 1.28                  | 875  | 1.42 | 925  | 1.55 | 974  | 1.68                   | 1020 | 1.80 |
| 3200              | 797                                                   | 1.32 | 851  | 1.46                  | 903  | 1.60 | 953  | 1.74 | 1001 | 1.86                   | 1048 | 1.99 |
| 3400              | 828                                                   | 1.52 | 882  | 1.67                  | 934  | 1.81 | 983  | 1.94 | 1032 | 2.07                   | 1078 | 2.19 |
| 3600              | 861                                                   | 1.75 | 915  | 1.90                  | 967  | 2.04 | 1017 | 2.17 | 1065 | 2.30                   | 1112 | 2.42 |
| 3800              | 897                                                   | 2.00 | 951  | 2.15                  | 1002 | 2.29 | 1052 | 2.42 | 1101 | 2.55                   | 1147 | 2.67 |
| 4000              | 935                                                   | 2.27 | 989  | 2.42                  | 1041 | 2.56 | 1091 | 2.69 | 1139 | 2.82                   | 1186 | 2.95 |
| 4200              | 976                                                   | 2.57 | 1030 | 2.72                  | 1082 | 2.86 | 1132 | 2.99 | 1180 | 3.12                   | 1227 | 3.24 |

3 HP &amp; Field Supplied Drive

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM selection table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

**ZB120 (10 ton) bottom duct**

| Air Flow<br>(CFM)           | Available external static pressure - IWG <sup>1</sup> |      |                       |      |      |      |      |      |      |      |                        |      |      |      |
|-----------------------------|-------------------------------------------------------|------|-----------------------|------|------|------|------|------|------|------|------------------------|------|------|------|
|                             | 0.2                                                   |      | 0.4                   |      | 0.6  |      | 0.8  |      | 1.0  |      | 1.2                    |      | 1.4  |      |
|                             | RPM                                                   | BHP  | RPM                   | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM                    | BHP  | RPM  | BHP  |
|                             | Field Supplied Drive                                  |      | Standard 2 HP & Drive |      |      |      |      |      |      |      | Hi Static 3 HP & Drive |      |      |      |
| 2600                        | 722                                                   | 0.83 | 776                   | 0.97 | 828  | 1.11 | 878  | 1.25 | 926  | 1.37 | 973                    | 1.50 | 1018 | 1.62 |
| 2800                        | 744                                                   | 0.97 | 798                   | 1.12 | 850  | 1.26 | 900  | 1.39 | 949  | 1.52 | 995                    | 1.64 | 1041 | 1.76 |
| 3000                        | 769                                                   | 1.13 | 823                   | 1.28 | 875  | 1.42 | 925  | 1.55 | 974  | 1.68 | 1020                   | 1.80 | 1066 | 1.92 |
| 3200                        | 797                                                   | 1.32 | 851                   | 1.46 | 903  | 1.60 | 953  | 1.74 | 1001 | 1.86 | 1048                   | 1.99 | 1093 | 2.11 |
| 3400                        | 828                                                   | 1.52 | 882                   | 1.67 | 934  | 1.81 | 983  | 1.94 | 1032 | 2.07 | 1078                   | 2.19 | 1124 | 2.32 |
| 3600                        | 861                                                   | 1.75 | 915                   | 1.90 | 967  | 2.04 | 1017 | 2.17 | 1065 | 2.30 | 1112                   | 2.42 | 1157 | 2.54 |
| 3800                        | 897                                                   | 2.00 | 951                   | 2.15 | 1002 | 2.29 | 1052 | 2.42 | 1101 | 2.55 | 1147                   | 2.67 | 1193 | 2.80 |
| 4000                        | 935                                                   | 2.27 | 989                   | 2.42 | 1041 | 2.56 | 1091 | 2.69 | 1139 | 2.82 | 1186                   | 2.95 | 1231 | 3.07 |
| 4200                        | 976                                                   | 2.57 | 1030                  | 2.72 | 1082 | 2.86 | 1132 | 2.99 | 1180 | 3.12 | 1227                   | 3.24 | 1272 | 3.36 |
| 4400                        | 1019                                                  | 2.88 | 1073                  | 3.03 | 1125 | 3.17 | 1175 | 3.30 | 1223 | 3.43 | -                      | -    | -    | -    |
| 4600                        | 1065                                                  | 3.22 | 1119                  | 3.36 | -    | -    | -    | -    | -    | -    | -                      | -    | -    | -    |
| 3 HP & Field Supplied Drive |                                                       |      |                       |      |      |      |      |      |      |      |                        |      |      |      |

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM selection table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

**ZB150 (12.5 ton) bottom duct**

| Air Flow<br>(CFM)           | Available external static pressure - IWG <sup>1</sup> |      |                       |      |      |      |      |      |      |      |                        |      |
|-----------------------------|-------------------------------------------------------|------|-----------------------|------|------|------|------|------|------|------|------------------------|------|
|                             | 0.2                                                   |      | 0.4                   |      | 0.6  |      | 0.8  |      | 1.0  |      | 1.2                    |      |
|                             | RPM                                                   | BHP  | RPM                   | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM                    | BHP  |
|                             | Field Supplied Drive                                  |      | Standard 3 HP & Drive |      |      |      |      |      |      |      | Hi Static 5 HP & Drive |      |
| 3200                        | 797                                                   | 1.32 | 851                   | 1.46 | 903  | 1.60 | 953  | 1.74 | 1001 | 1.86 | 1048                   | 1.99 |
| 3400                        | 828                                                   | 1.52 | 882                   | 1.67 | 934  | 1.81 | 983  | 1.94 | 1032 | 2.07 | 1078                   | 2.19 |
| 3600                        | 861                                                   | 1.75 | 915                   | 1.90 | 967  | 2.04 | 1017 | 2.17 | 1065 | 2.30 | 1112                   | 2.42 |
| 3800                        | 897                                                   | 2.00 | 951                   | 2.15 | 1002 | 2.29 | 1052 | 2.42 | 1101 | 2.55 | 1147                   | 2.67 |
| 4000                        | 935                                                   | 2.27 | 989                   | 2.42 | 1041 | 2.56 | 1091 | 2.69 | 1139 | 2.82 | 1186                   | 2.95 |
| 4200                        | 976                                                   | 2.57 | 1030                  | 2.72 | 1082 | 2.86 | 1132 | 2.99 | 1180 | 3.12 | 1227                   | 3.24 |
| 4400                        | 1019                                                  | 2.88 | 1073                  | 3.03 | 1125 | 3.17 | 1175 | 3.30 | 1223 | 3.43 | 1270                   | 3.55 |
| 4600                        | 1065                                                  | 3.22 | 1119                  | 3.36 | 1171 | 3.50 | 1221 | 3.64 | 1269 | 3.76 | 1316                   | 3.89 |
| 4800                        | 1113                                                  | 3.57 | 1167                  | 3.72 | 1219 | 3.86 | 1269 | 3.99 | 1317 | 4.12 | 1364                   | 4.24 |
| 5000                        | 1163                                                  | 3.94 | 1217                  | 4.09 | 1269 | 4.23 | 1319 | 4.36 | 1367 | 4.49 | 1414                   | 4.62 |
| 5200                        | 1216                                                  | 4.34 | 1270                  | 4.48 | 1321 | 4.62 | 1371 | 4.76 | 1420 | 4.88 | 1466                   | 5.01 |
| 5400                        | 1270                                                  | 4.75 | 1324                  | 4.89 | 1376 | 5.03 | 1426 | 5.17 | 1474 | 5.29 | 1521                   | 5.42 |
| 5600                        | 1327                                                  | 5.17 | 1381                  | 5.32 | 1433 | 5.46 | 1483 | 5.59 | 1531 | 5.72 | -                      | -    |
| 5800                        | 1385                                                  | 5.62 | -                     | -    | -    | -    | -    | -    | -    | -    | -                      | -    |
| 5 HP & Field Supplied Drive |                                                       |      |                       |      |      |      |      |      |      |      |                        |      |

1. Blower performance includes gas heat exchangers and 2" filters. See STATIC RESISTANCE table for additional applications.
2. See RPM selection table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.

## Sound performance

### ZT Outdoor sound power levels

| Size (ton)    | Sound rating <sup>1</sup><br>dB (A) | Octave band centerline frequency (Hz) |      |      |      |      |      |      | 8000 |
|---------------|-------------------------------------|---------------------------------------|------|------|------|------|------|------|------|
|               |                                     | 63                                    | 125  | 250  | 500  | 1000 | 2000 | 4000 |      |
| 037<br>(3)    | 75                                  | 78.5                                  | 78.5 | 74.0 | 72.0 | 68.5 | 65.0 | 60.5 | 53.0 |
| 049<br>(4)    | 75                                  | 83.0                                  | 78.5 | 74.5 | 72.0 | 69.5 | 63.0 | 58.0 | 55.5 |
| 061<br>(5)    | 75                                  | 80.0                                  | 78.0 | 74.5 | 72.5 | 69.0 | 63.0 | 57.5 | 52.0 |
| 078<br>(6.5)  | 84                                  | 86                                    | 85   | 83   | 82   | 79   | 72   | 67   | 60   |
| 090<br>(7.5)  | 85                                  | 83                                    | 84   | 85   | 84   | 81   | 75   | 70   | 67   |
| 102<br>(8.5)  | 84                                  | 85                                    | 87   | 84   | 82   | 79   | 73   | 68   | 61   |
| 120<br>(10)   | 82                                  | 83                                    | 82   | 82   | 80   | 77   | 72   | 67   | 62   |
| 150<br>(12.5) | 83                                  | 92                                    | 84   | 83   | 82   | 78   | 72   | 68   | 63   |

1. Rated in accordance with AHRI 270 standard.

## Electrical data

### ZT037-150 standard indoor blower - without powered convenience outlet

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |     | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |      | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |     |     |     |     |      |     |   |      |      |      |    |    |
|---------------|------|-----------------------|------|------|------|-----|-----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|------|---------------------------|-------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----|-----|-----|-----|------|-----|---|------|------|------|----|----|
|               |      | RLA                   |      | LRA  |      | MCC |     |                            |                           |                           |                                | Model                | kW   | Stages | Amp  |                           |                                                       |                                                                  |                                                                                           |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2  |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           | FLA | FLA | FLA | FLA |      |     |   |      |      |      |    |    |
| 037<br>(3)    | 208  | 11.6                  |      | 73   |      | 18  |     | 3.5                        | 4.3                       | 5.5                       |                                | None                 | -    | -      | -    | 25.8                      | 31mp.3                                                | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E03                  | 2.3  | 1      | 6.4  | 25.8                      | 31.3                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 25.8                      | 31.3                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E08                  | 6.8  | 1      | 18.9 | 29                        | 35.9                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 44.6                      | 51.5                                                  | 45                                                               | 60                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               | 230  | 11.6                  |      | 73   |      | 18  |     | 3.5                        | 4.3                       | 5.5                       |                                | None                 | -    | -      | -    | 25.8                      | 31.3                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E03                  | 3    | 1      | 7.2  | 25.8                      | 31.3                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E06                  | 6    | 1      | 14.4 | 25.8                      | 31.3                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E08                  | 9    | 1      | 21.7 | 32.5                      | 39.4                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E15                  | 15   | 2      | 36.1 | 50.5                      | 57.4                                                  | 60                                                               | 60                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               | 460  | 5.7                   |      | 38   |      | 9   |     | 1.6                        | 2.1                       | 2.2                       |                                | None                 | -    | -      | -    | 12.4                      | 14.6                                                  | 15                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E03                  | 3    | 1      | 3.6  | 12.4                      | 14.6                                                  | 15                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E06                  | 6    | 1      | 7.2  | 12.4                      | 14.6                                                  | 15                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E08                  | 9    | 1      | 10.8 | 16.1                      | 18.9                                                  | 20                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E15                  | 15   | 2      | 18   | 25.1                      | 27.9                                                  | 30                                                               | 30                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               | 575  | 4                     |      | 25.6 |      | 6   |     | 3.5                        | 2                         | 1.8                       |                                | None                 | -    | -      | -    | 9.8                       | 11.6                                                  | 15                                                               | 15                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E08                  | 9    | 1      | 8.7  | 13.4                      | 15.6                                                  | 15                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E15                  | 15   | 2      | 14.4 | 20.5                      | 22.8                                                  | 25                                                               | 25                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | 049<br>(4)           | 208  | 14     |      | 83.1                      |                                                       | 22                                                               |                                                                                           | 3.5 | 4.3 | 5.5 |     | None | -   | - | -    | 28.8 | 34.3 | 40 | 45 |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |     |     |     |     | E06  | 4.5 | 1 | 12.5 | 28.8 | 34.3 | 40 | 45 |
| E08           | 6.8  | 1                     | 18.9 | 29   | 35.9 | 40  | 45  |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |     |     |     |     |      |     |   |      |      |      |    |    |
| E15           | 11.3 | 2                     | 31.4 | 44.6 | 51.5 | 45  | 60  |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |     |     |     |     |      |     |   |      |      |      |    |    |
| E20           | 15   | 2                     | 41.6 | 57.4 | 64.3 | 60  | 70  |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |     |     |     |     |      |     |   |      |      |      |    |    |
| 230           | 14   |                       | 83.1 |      | 22   |     | 3.5 | 4.3                        | 5.5                       |                           | None                           |                      | -    | -      | -    | 28.8                      | 34.3                                                  | 40                                                               | 45                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E06                            |                      | 6    | 1      | 14.4 | 28.8                      | 34.3                                                  | 40                                                               | 45                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E08                            |                      | 9    | 1      | 21.7 | 32.5                      | 39.4                                                  | 40                                                               | 45                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E15                            |                      | 15   | 2      | 36.1 | 50.5                      | 57.4                                                  | 60                                                               | 60                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E20                            |                      | 20   | 2      | 48.1 | 65.5                      | 72.4                                                  | 70                                                               | 80                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
| 460           | 6.4  |                       | 41   |      | 10   |     | 3.5 | 2.1                        | 2.2                       |                           | None                           |                      | -    | -      | -    | 13.6                      | 15.8                                                  | 20                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E06                            |                      | 6    | 1      | 7.2  | 13.6                      | 15.8                                                  | 20                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E08                            |                      | 9    | 1      | 10.8 | 16.1                      | 18.9                                                  | 20                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E15                            |                      | 15   | 2      | 18   | 25.1                      | 27.9                                                  | 30                                                               | 30                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E20                            |                      | 20   | 2      | 24.1 | 32.8                      | 35.5                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
| 575           | 4.6  |                       | 33   |      | 7    |     | 3.5 | 2                          | 1.8                       |                           | None                           |                      | -    | -      | -    | 10.6                      | 12.4                                                  | 15                                                               | 15                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E08                            |                      | 9    | 1      | 8.7  | 13.4                      | 15.6                                                  | 15                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E15                            |                      | 15   | 2      | 14.4 | 20.5                      | 22.8                                                  | 25                                                               | 25                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E20                            |                      | 20   | 2      | 19.2 | 26.5                      | 28.8                                                  | 30                                                               | 30                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           | 061<br>(5)                     |                      | 208  | 16.5   |      | 110                       |                                                       | 26                                                               |                                                                                           | 3.5 | 4.3 | 5.5 |     | None | -   | - | -    | 31.9 | 37.4 | 40 | 50 |
| E06           | 4.5  | 1                     | 12.5 | 31.9 | 37.4 | 40  | 50  |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |     |     |     |     |      |     |   |      |      |      |    |    |
| E08           | 6.8  | 1                     | 18.9 | 31.9 | 37.4 | 40  | 50  |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |     |     |     |     |      |     |   |      |      |      |    |    |
| E15           | 11.3 | 2                     | 31.4 | 44.6 | 51.5 | 45  | 60  |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |     |     |     |     |      |     |   |      |      |      |    |    |
| E20           | 15   | 2                     | 41.6 | 57.4 | 64.3 | 60  | 70  |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |     |     |     |     |      |     |   |      |      |      |    |    |
| 230           | 16.5 |                       | 110  |      | 26   |     | 3.5 | 4.3                        | 5.5                       |                           |                                | None                 | -    | -      | -    | 31.9                      | 37.4                                                  | 40                                                               | 50                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E06                  | 6    | 1      | 14.4 | 31.9                      | 37.4                                                  | 40                                                               | 50                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E08                  | 9    | 1      | 21.7 | 32.5                      | 39.4                                                  | 45                                                               | 50                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E15                  | 15   | 2      | 36.1 | 50.5                      | 57.4                                                  | 60                                                               | 60                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E20                  | 20   | 2      | 48.1 | 65.5                      | 72.4                                                  | 70                                                               | 80                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
| 460           | 7.2  |                       | 52   |      | 11   |     | 3.5 | 2.1                        | 2.2                       |                           |                                | E23                  | 24   | 2      | 57.7 | 77.5                      | 84.4                                                  | 80                                                               | 90                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -    | 14.6                      | 16.8                                                  | 20                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E06                  | 6    | 1      | 7.2  | 14.6                      | 16.8                                                  | 20                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E08                  | 9    | 1      | 10.8 | 16.1                      | 18.9                                                  | 20                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E15                  | 15   | 2      | 18   | 25.1                      | 27.9                                                  | 30                                                               | 30                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
| 575           | 5.5  |                       | 38.9 |      | 9    |     | 3.5 | 2                          | 1.8                       |                           |                                | E20                  | 20   | 2      | 24.1 | 32.8                      | 35.5                                                  | 35                                                               | 40                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E23                  | 24   | 2      | 28.9 | 38.8                      | 41.5                                                  | 40                                                               | 45                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -    | 11.7                      | 13.5                                                  | 15                                                               | 15                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E08                  | 9    | 1      | 8.7  | 13.4                      | 15.6                                                  | 15                                                               | 20                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E15                  | 15   | 2      | 14.4 | 20.5                      | 22.8                                                  | 25                                                               | 25                                                                                        |     |     |     |     |      |     |   |      |      |      |    |    |

## ZT037-150 standard indoor blower - without powered convenience outlet (continued)

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |     | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|------|------|------|-----|-----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|-------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|               |      | RLA                   |      | LRA  |      | MCC |     |                            |                           |                           |                                | Model                | kW   | Stages | Amp   |                           |                                                       |                                                                  |                                                                                           |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2  |                            |                           |                           |                                |                      |      |        |       |                           |                                                       |                                                                  |                                                                                           |
| 078<br>(6.5)  | 208  | 11.6                  | 11.6 | 73   | 73   | 18  | 18  | 3.5                        | 5.2                       | 5.5                       |                                | None                 | -    | -      | -     | 45.3                      | 50.8                                                  | 50                                                               | 60                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 45.3                      | 50.8                                                  | 50                                                               | 60                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 53.4                      | 60.3                                                  | 60                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 69                        | 75.9                                                  | 70                                                               | 80                                                                                        |
|               | 230  | 11.6                  | 11.6 | 73   | 73   | 18  | 18  | 3.5                        | 5.2                       | 5.5                       |                                | E36                  | 25.5 | 2      | 70.8  | 95                        | 101.9                                                 | 100                                                              | 110                                                                                       |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -     | 45.3                      | 50.8                                                  | 50                                                               | 60                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 45.3                      | 50.8                                                  | 50                                                               | 60                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 60.6                      | 67.5                                                  | 70                                                               | 70                                                                                        |
|               | 460  | 5.7                   | 5.7  | 38   | 38   | 9   | 9   | 1.6                        | 2.6                       | 2.2                       |                                | E24                  | 24   | 2      | 57.7  | 78.6                      | 85.5                                                  | 80                                                               | 90                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 108.8                     | 115.6                                                 | 110                                                              | 125                                                                                       |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -     | 21.8                      | 24                                                    | 25                                                               | 25                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 21.8                      | 24                                                    | 25                                                               | 25                                                                                        |
| 090<br>(7.5)  | 208  | 11.6                  | 14   | 73   | 83.1 | 18  | 22  | 3.5                        | 5.2                       | 5.5                       |                                | E18                  | 18   | 2      | 21.7  | 30.4                      | 33.1                                                  | 35                                                               | 35                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 39.4                      | 42.1                                                  | 40                                                               | 45                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 54.4                      | 57.1                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -     | 48.3                      | 53.8                                                  | 60                                                               | 60                                                                                        |
|               | 230  | 11.6                  | 14   | 73   | 83.1 | 18  | 22  | 3.5                        | 5.2                       | 5.5                       |                                | E09                  | 9    | 1      | 18.9  | 48.3                      | 53.8                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 60.6                      | 67.5                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 78.6                      | 85.5                                                  | 80                                                               | 90                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 108.8                     | 115.6                                                 | 110                                                              | 125                                                                                       |
|               | 460  | 5.7                   | 6.4  | 38   | 41   | 9   | 10  | 1.6                        | 2.6                       | 2.2                       |                                | None                 | -    | -      | -     | 22.7                      | 24.9                                                  | 25                                                               | 30                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 22.7                      | 24.9                                                  | 25                                                               | 30                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 30.4                      | 33.1                                                  | 35                                                               | 35                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 39.4                      | 42.1                                                  | 40                                                               | 45                                                                                        |
| 102<br>(8.5)  | 208  | 14                    | 14   | 83.1 | 83.1 | 22  | 22  | 3.5                        | 6.8                       | 5.5                       |                                | E36                  | 34   | 2      | 40.9  | 54.4                      | 57.1                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -     | 52.3                      | 57.8                                                  | 60                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 52.3                      | 57.8                                                  | 60                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 55.4                      | 62.3                                                  | 60                                                               | 70                                                                                        |
|               | 230  | 14                    | 14   | 83.1 | 83.1 | 22  | 22  | 3.5                        | 6.8                       | 5.5                       |                                | E24                  | 18   | 2      | 50    | 71                        | 77.9                                                  | 80                                                               | 80                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 97                        | 103.9                                                 | 100                                                              | 110                                                                                       |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -     | 52.3                      | 57.8                                                  | 60                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 52.3                      | 57.8                                                  | 60                                                               | 70                                                                                        |
|               | 460  | 6.4                   | 6.4  | 41   | 41   | 10  | 10  | 1.6                        | 3.4                       | 2.2                       |                                | E18                  | 18   | 2      | 43.3  | 62.6                      | 69.5                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 80.6                      | 87.5                                                  | 90                                                               | 90                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 110.8                     | 117.6                                                 | 125                                                              | 125                                                                                       |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -     | 24.2                      | 26.4                                                  | 30                                                               | 30                                                                                        |
| 120<br>(10)   | 208  | 16.2                  | 16.2 | 110  | 110  | 25  | 25  | 3.5                        | 6.8                       | 5.5                       |                                | E09                  | 9    | 1      | 10.8  | 24.2                      | 26.4                                                  | 30                                                               | 30                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 31.4                      | 34.1                                                  | 35                                                               | 35                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 40.4                      | 43.1                                                  | 45                                                               | 45                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 55.4                      | 58.1                                                  | 60                                                               | 60                                                                                        |
|               | 230  | 16.2                  | 16.2 | 110  | 110  | 25  | 25  | 3.5                        | 6.8                       | 5.5                       |                                | None                 | -    | -      | -     | 57.3                      | 62.8                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 57.3                      | 62.8                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 71                        | 77.9                                                  | 80                                                               | 80                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 97                        | 103.9                                                 | 100                                                              | 110                                                                                       |
|               | 460  | 7.6                   | 7.6  | 52   | 52   | 12  | 12  | 1.6                        | 3.4                       | 2.2                       |                                | E54                  | 40.6 | 2      | 112.7 | 149.4                     | 156.3                                                 | 150                                                              | 175                                                                                       |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | None                 | -    | -      | -     | 57.3                      | 62.8                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 62.6                      | 69.5                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |     |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 80.6                      | 87.5                                                  | 90                                                               | 90                                                                                        |
| 230           | 16.2 | 16.2                  | 110  | 110  | 25   | 25  | 3.5 | 6.8                        | 5.5                       |                           | E36                            | 34                   | 2    | 81.8   | 110.8 | 117.6                     | 125                                                   | 125                                                              |                                                                                           |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E54                            | 54                   | 2    | 129.9  | 138.4 | 145.3                     | 150                                                   | 175                                                              |                                                                                           |
|               |      |                       |      |      |      |     |     |                            |                           |                           | None                           | -                    | -    | -      | 26.9  | 29.1                      | 30                                                    | 35                                                               |                                                                                           |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E18                            | 18                   | 2    | 21.7   | 31.4  | 34.1                      | 35                                                    | 35                                                               |                                                                                           |
| 460           | 7.6  | 7.6                   | 52   | 52   | 12   | 12  | 1.6 | 3.4                        | 2.2                       |                           | E24                            | 24                   | 2    | 28.9   | 40.4  | 43.1                      | 45                                                    | 45                                                               |                                                                                           |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E36                            | 34                   | 2    | 40.9   | 55.4  | 58.1                      | 60                                                    | 60                                                               |                                                                                           |
|               |      |                       |      |      |      |     |     |                            |                           |                           | E54                            | 54                   | 2    | 65     | 69.3  | 72                        | 80                                                    | 80                                                               |                                                                                           |
|               |      |                       |      |      |      |     |     |                            |                           |                           | None                           | -                    | -    | -      | 26.9  | 29.1                      | 30                                                    | 35                                                               |                                                                                           |

**ZT037-150 standard indoor blower - without powered convenience outlet (continued)**

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|------|------|------|-----|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|               |      | RLA                   |      | LRA  |      | MCC |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp   |                           |                                                       |                                                                                           |                                                                                           |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2 |                            |                           |                           |                                |                      |      |        |       |                           |                                                       |                                                                                           |                                                                                           |
| 150<br>(12.5) | 208  | 17.6                  | 17.6 | 136  | 136  | 27  | 27 | 3.5                        | 9.6                       | 5.5                       |                                | None                 | -    | -      | -     | 63.2                      | 68.7                                                  | 80                                                                                        | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 63.2                      | 68.7                                                  | 80                                                                                        | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 74.5                      | 81.4                                                  | 80                                                                                        | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 100.5                     | 107.4                                                 | 110                                                                                       | 110                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 40.6 | 2      | 112.7 | 152.9                     | 159.8                                                 | 175                                                                                       | 175                                                                                       |
|               | 230  | 17.6                  | 17.6 | 136  | 136  | 27  | 27 | 3.5                        | 9.6                       | 5.5                       |                                | None                 | -    | -      | -     | 63.2                      | 68.7                                                  | 80                                                                                        | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 66.1                      | 73                                                    | 80                                                                                        | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 84.1                      | 91                                                    | 90                                                                                        | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 114.3                     | 121.1                                                 | 125                                                                                       | 125                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 129.9 | 141.9                     | 148.8                                                 | 175                                                                                       | 175                                                                                       |
|               | 460  | 8.5                   | 8.5  | 66.1 | 66.1 | 13  | 13 | 1.6                        | 4.7                       | 2.2                       |                                | None                 | -    | -      | -     | 30.2                      | 32.4                                                  | 35                                                                                        | 40                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 33                        | 35.8                                                  | 35                                                                                        | 40                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 42                        | 44.8                                                  | 45                                                                                        | 45                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 57                        | 59.8                                                  | 60                                                                                        | 60                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 65    | 70.9                      | 73.6                                                  | 80                                                                                        | 80                                                                                        |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

## ZT037-150 high static indoor blower - without powered convenience outlet

| Size<br>(ton) | Volt | Compressors<br>(each) |    |       |    |      |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |      | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup> with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size (Amp) | Max<br>fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|----|-------|----|------|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|------|---------------------------|----------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|               |      | RLA                   |    | LRA   |    | MCC  |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp  |                           |                                                    |                                                               |                                                                                              |
|               |      | C1                    | C2 | C1    | C2 | C1   | C2 | FLA                        | FLA                       | FLA                       | FLA                            |                      |      |        |      |                           |                                                    |                                                               |                                                                                              |
| 037<br>(3)    | 208  | 11.6                  |    | 73    |    | 18   |    | 3.5                        | 4.3                       | 5.5                       |                                | None                 | -    | -      | -    | 25.8                      | 31.3                                               | 35                                                            | 40                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E03                  | 2.3  | 1      | 6.4  | 25.8                      | 31.3                                               | 35                                                            | 40                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 25.8                      | 31.3                                               | 35                                                            | 40                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 6.8  | 1      | 18.9 | 29                        | 35.9                                               | 35                                                            | 40                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 44.6                      | 51.5                                               | 45                                                            | 60                                                                                           |
|               | 230  | 11.6                  |    | 73    |    | 18   |    | 3.5                        | 4.3                       | 5.5                       |                                | None                 | -    | -      | -    | 25.8                      | 31.3                                               | 35                                                            | 40                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E03                  | 3    | 1      | 7.2  | 25.8                      | 31.3                                               | 35                                                            | 40                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6    | 1      | 14.4 | 25.8                      | 31.3                                               | 35                                                            | 40                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 9    | 1      | 21.7 | 32.5                      | 39.4                                               | 35                                                            | 40                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15   | 2      | 36.1 | 50.5                      | 57.4                                               | 60                                                            | 60                                                                                           |
|               | 460  | 5.7                   |    | 38    |    | 9    |    | 1.6                        | 2.1                       | 2.2                       |                                | None                 | -    | -      | -    | 12.4                      | 14.6                                               | 15                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E03                  | 3    | 1      | 3.6  | 12.4                      | 14.6                                               | 15                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6    | 1      | 7.2  | 12.4                      | 14.6                                               | 15                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 9    | 1      | 10.8 | 16.1                      | 18.9                                               | 20                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15   | 2      | 18   | 25.1                      | 27.9                                               | 30                                                            | 30                                                                                           |
|               | 575  | 4.0                   |    | 25.6  |    | 6.2  |    | 3.5                        | 2.0                       | 1.8                       | 0.0                            | None                 | -    | -      | -    | 9.8                       | 11.6                                               | 15                                                            | 15                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 8.7  | 13.3                      | 15.6                                               | 15                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 14.4 | 20.5                      | 22.8                                               | 25                                                            | 25                                                                                           |
| 049<br>(4)    | 208  | 14.0                  |    | 83.1  |    | 21.9 |    | 3.5                        | 4.3                       | 5.5                       | 0.0                            | None                 | -    | -      | -    | 28.8                      | 34.3                                               | 40                                                            | 45                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 28.8                      | 34.3                                               | 40                                                            | 45                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9 | 29.0                      | 35.8                                               | 40                                                            | 45                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 44.6                      | 51.5                                               | 45                                                            | 60                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 15.0 | 2      | 41.6 | 57.4                      | 64.3                                               | 60                                                            | 70                                                                                           |
|               | 230  | 14.0                  |    | 83.1  |    | 21.9 |    | 3.5                        | 4.3                       | 5.5                       | 0.0                            | None                 | -    | -      | -    | 28.8                      | 34.3                                               | 40                                                            | 45                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6.0  | 1      | 14.4 | 28.8                      | 34.3                                               | 40                                                            | 45                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 21.7 | 32.4                      | 39.3                                               | 40                                                            | 45                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 36.1 | 50.5                      | 57.4                                               | 60                                                            | 60                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 48.1 | 65.5                      | 72.4                                               | 70                                                            | 80                                                                                           |
|               | 460  | 6.4                   |    | 41.0  |    | 10.0 |    | 3.5                        | 2.1                       | 2.2                       | 0.0                            | None                 | -    | -      | -    | 13.6                      | 15.8                                               | 20                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6.0  | 1      | 7.2  | 13.6                      | 15.8                                               | 20                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 10.8 | 16.2                      | 18.9                                               | 20                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 18.0 | 25.2                      | 27.9                                               | 30                                                            | 30                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 24.1 | 32.7                      | 35.4                                               | 35                                                            | 40                                                                                           |
|               | 575  | 4.6                   |    | 33.0  |    | 7.1  |    | 3.5                        | 2.0                       | 1.8                       | 0.0                            | None                 | -    | -      | -    | 10.6                      | 12.4                                               | 15                                                            | 15                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 8.7  | 13.3                      | 15.6                                               | 15                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 14.4 | 20.5                      | 22.8                                               | 25                                                            | 25                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 19.2 | 26.6                      | 28.8                                               | 30                                                            | 30                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | None                 | -    | -      | -    | 34.4                      | 39.9                                               | 45                                                            | 50                                                                                           |
| 061<br>(5)    | 208  | 16.5                  |    | 110.0 |    | 25.8 |    | 3.5                        | 6.8                       | 5.5                       | 0.0                            | None                 | -    | -      | -    | 34.4                      | 39.9                                               | 45                                                            | 50                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 34.4                      | 39.9                                               | 45                                                            | 50                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9 | 34.4                      | 39.9                                               | 45                                                            | 50                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 47.7                      | 54.6                                               | 50                                                            | 60                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 15.0 | 2      | 41.6 | 60.5                      | 67.4                                               | 70                                                            | 70                                                                                           |
|               | 230  | 16.5                  |    | 110.0 |    | 25.8 |    | 3.5                        | 6.8                       | 5.5                       | 0.0                            | None                 | -    | -      | -    | 34.4                      | 39.9                                               | 45                                                            | 50                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6.0  | 1      | 14.4 | 34.4                      | 39.9                                               | 45                                                            | 50                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 21.7 | 35.6                      | 42.4                                               | 45                                                            | 50                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 36.1 | 53.6                      | 60.5                                               | 60                                                            | 70                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 48.1 | 68.6                      | 75.5                                               | 70                                                            | 80                                                                                           |
|               | 460  | 7.2                   |    | 52.0  |    | 11.3 |    | 3.5                        | 3.2                       | 2.2                       | 0.0                            | None                 | -    | -      | -    | 15.7                      | 17.9                                               | 20                                                            | 25                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6.0  | 1      | 7.2  | 15.7                      | 17.9                                               | 20                                                            | 25                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 10.8 | 17.5                      | 20.2                                               | 20                                                            | 25                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 18.0 | 26.5                      | 29.2                                               | 30                                                            | 30                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 24.1 | 34.0                      | 36.8                                               | 35                                                            | 40                                                                                           |
|               | 575  | 5.5                   |    | 38.9  |    | 8.6  |    | 3.5                        | 2.2                       | 1.8                       | 0.0                            | None                 | -    | -      | -    | 11.9                      | 13.7                                               | 15                                                            | 15                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 8.7  | 13.6                      | 15.9                                               | 15                                                            | 20                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 14.4 | 20.8                      | 23.0                                               | 25                                                            | 25                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 19.2 | 26.8                      | 29.0                                               | 30                                                            | 30                                                                                           |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E24                  | 24.0 | 2      | 23.1 | 31.6                      | 33.9                                               | 35                                                            | 35                                                                                           |

## ZT037-150 high static indoor blower - without powered convenience outlet (continued)

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup> with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size (Amp) | Max<br>fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|------|------|------|-----|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|----------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|               |      | RLA                   |      | LRA  |      | MCC |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp   |                           |                                                    |                                                               |                                                                                              |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2 |                            |                           |                           |                                |                      |      |        |       |                           |                                                    |                                                               |                                                                                              |
| 078<br>(6)    | 208  | 11.6                  | 11.6 | 73   | 73   | 18  | 18 | 3.5                        | 6.8                       | 5.5                       |                                | None                 | -    | -      | -     | 46.9                      | 52.4                                               | 50                                                            | 60                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 46.9                      | 52.4                                               | 50                                                            | 60                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 55.4                      | 62.3                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 71                        | 77.9                                               | 80                                                            | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 97                        | 103.9                                              | 100                                                           | 110                                                                                          |
|               | 230  | 11.6                  | 11.6 | 73   | 73   | 18  | 18 | 3.5                        | 6.8                       | 5.5                       |                                | None                 | -    | -      | -     | 46.9                      | 52.4                                               | 50                                                            | 60                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 46.9                      | 52.4                                               | 50                                                            | 60                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 62.6                      | 69.5                                               | 70                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 80.6                      | 87.5                                               | 90                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 110.8                     | 117.6                                              | 125                                                           | 125                                                                                          |
|               | 460  | 5.7                   | 5.7  | 38   | 38   | 9   | 9  | 1.6                        | 3.4                       | 2.2                       |                                | None                 | -    | -      | -     | 22.6                      | 24.8                                               | 25                                                            | 30                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 22.6                      | 24.8                                               | 25                                                            | 30                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 31.4                      | 34.1                                               | 35                                                            | 35                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 40.4                      | 43.1                                               | 45                                                            | 45                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 55.4                      | 58.1                                               | 60                                                            | 60                                                                                           |
| 090<br>(7.5)  | 208  | 11.6                  | 14   | 73   | 83.1 | 18  | 22 | 3.5                        | 9.6                       | 5.5                       |                                | None                 | -    | -      | -     | 52.7                      | 58.2                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 52.7                      | 58.2                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 58.9                      | 65.8                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 74.5                      | 81.4                                               | 80                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 100.5                     | 107.4                                              | 110                                                           | 110                                                                                          |
|               | 230  | 11.6                  | 14   | 73   | 83.1 | 18  | 22 | 3.5                        | 9.6                       | 5.5                       |                                | None                 | -    | -      | -     | 52.7                      | 58.2                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 52.7                      | 58.2                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 66.1                      | 73                                                 | 70                                                            | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 84.1                      | 91                                                 | 90                                                            | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 114.3                     | 121.1                                              | 125                                                           | 125                                                                                          |
|               | 460  | 5.7                   | 6.4  | 38   | 41   | 9   | 10 | 1.6                        | 4.7                       | 2.2                       |                                | None                 | -    | -      | -     | 24.8                      | 27                                                 | 30                                                            | 30                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 24.8                      | 27                                                 | 30                                                            | 30                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 33                        | 35.8                                               | 35                                                            | 40                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 42                        | 44.8                                               | 45                                                            | 45                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 57                        | 59.8                                               | 60                                                            | 60                                                                                           |
| 102<br>(8.5)  | 208  | 14                    | 14   | 83.1 | 83.1 | 22  | 22 | 3.5                        | 9.6                       | 5.5                       |                                | None                 | -    | -      | -     | 55.1                      | 60.6                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 55.1                      | 60.6                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 58.9                      | 65.8                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 74.5                      | 81.4                                               | 80                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 100.5                     | 107.4                                              | 110                                                           | 110                                                                                          |
|               | 230  | 14                    | 14   | 83.1 | 83.1 | 22  | 22 | 3.5                        | 9.6                       | 5.5                       |                                | None                 | -    | -      | -     | 55.1                      | 60.6                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 55.1                      | 60.6                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 66.1                      | 73                                                 | 70                                                            | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 84.1                      | 91                                                 | 90                                                            | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 114.3                     | 121.1                                              | 125                                                           | 125                                                                                          |
|               | 460  | 6.4                   | 6.4  | 41   | 41   | 10  | 10 | 1.6                        | 4.7                       | 2.2                       |                                | None                 | -    | -      | -     | 25.5                      | 27.7                                               | 30                                                            | 30                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 25.5                      | 27.7                                               | 30                                                            | 30                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 33                        | 35.8                                               | 35                                                            | 40                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 42                        | 44.8                                               | 45                                                            | 45                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 57                        | 59.8                                               | 60                                                            | 60                                                                                           |
| 120<br>(10)   | 208  | 16.2                  | 16.2 | 110  | 110  | 25  | 25 | 3.5                        | 9.6                       | 5.5                       |                                | None                 | -    | -      | -     | 60.1                      | 65.6                                               | 70                                                            | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 60.1                      | 65.8                                               | 70                                                            | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 74.5                      | 81.4                                               | 80                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 100.5                     | 107.4                                              | 110                                                           | 110                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 40.6 | 2      | 112.7 | 152.9                     | 159.8                                              | 175                                                           | 175                                                                                          |
|               | 230  | 16.2                  | 16.2 | 110  | 110  | 25  | 25 | 3.5                        | 9.6                       | 5.5                       |                                | None                 | -    | -      | -     | 60.1                      | 65.6                                               | 70                                                            | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 66.1                      | 73                                                 | 70                                                            | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 84.1                      | 91                                                 | 90                                                            | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 114.3                     | 121.1                                              | 125                                                           | 125                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 129.9 | 141.9                     | 148.8                                              | 175                                                           | 175                                                                                          |
|               | 460  | 7.6                   | 7.6  | 52   | 52   | 12  | 12 | 1.6                        | 4.7                       | 2.2                       |                                | None                 | -    | -      | -     | 28.2                      | 30.4                                               | 35                                                            | 35                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 33                        | 35.8                                               | 35                                                            | 40                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 42                        | 44.8                                               | 45                                                            | 45                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 57                        | 59.8                                               | 60                                                            | 60                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 65    | 70.9                      | 73.6                                               | 80                                                            | 80                                                                                           |



**ZT037-150 high static indoor blower - without powered convenience outlet (continued)**

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup> with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size (Amp) | Max<br>fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|------|------|------|-----|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|----------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|               |      | RLA                   |      | LRA  |      | MCC |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp   |                           |                                                    |                                                               |                                                                                              |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2 |                            |                           |                           |                                |                      |      |        |       |                           |                                                    |                                                               |                                                                                              |
| 150<br>(12.5) | 208  | 17.6                  | 17.6 | 136  | 136  | 27  | 27 | 3.5                        | 14                        | 5.5                       |                                | None                 | -    | -      | -     | 67.6                      | 73.1                                               | 80                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 67.6                      | 73.1                                               | 80                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 80                        | 86.9                                               | 80                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 106                       | 112.9                                              | 110                                                           | 125                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 40.6 | 2      | 112.7 | 158.4                     | 165.3                                              | 175                                                           | 175                                                                                          |
|               | 230  | 17.6                  | 17.6 | 136  | 136  | 27  | 27 | 3.5                        | 14                        | 5.5                       |                                | None                 | -    | -      | -     | 67.6                      | 73.1                                               | 80                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 71.6                      | 78.5                                               | 80                                                            | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 89.6                      | 96.5                                               | 90                                                            | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 119.8                     | 126.6                                              | 125                                                           | 150                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 129.9 | 147.4                     | 154.3                                              | 175                                                           | 175                                                                                          |
|               | 460  | 8.5                   | 8.5  | 66.1 | 66.1 | 13  | 13 | 1.6                        | 6.6                       | 2.2                       |                                | None                 | -    | -      | -     | 32.1                      | 34.3                                               | 40                                                            | 40                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 35.4                      | 38.1                                               | 40                                                            | 40                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 44.4                      | 47.1                                               | 45                                                            | 50                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 59.4                      | 62.1                                               | 60                                                            | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 65    | 73.3                      | 76                                                 | 80                                                            | 90                                                                                           |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

**ZT037-150 standard indoor blower - with powered convenience outlet**

| Size<br>(ton) | Volt       | Compressors<br>(each) |      |       |      |      |      | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |      | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max<br>fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |     |
|---------------|------------|-----------------------|------|-------|------|------|------|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|------|---------------------------|-------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----|
|               |            | RLA                   |      | LRA   |      | MCC  |      |                            |                           |                           |                                | Model                | kW   | Stages | Amp  |                           |                                                       |                                                                     |                                                                                           |     |
|               |            | C1                    | C2   | C1    | C2   | C1   | C2   |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                     |                                                                                           | FLA |
| 037<br>(3)    | 208        | 11.6                  |      | 73    |      | 18   |      | 3.5                        | 4.3                       | 5.5                       | 20                             | None                 | -    | -      | -    | 35.8                      | 41.3                                                  | 45                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E03                  | 2.3  | 1      | 6.4  | 35.8                      | 41.3                                                  | 45                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 35.8                      | 41.3                                                  | 45                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E08                  | 6.8  | 1      | 18.9 | 41.5                      | 48.4                                                  | 45                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 57.1                      | 64                                                    | 60                                                                  | 70                                                                                        |     |
|               | 230        | 11.6                  |      | 73    |      | 18   |      | 3.5                        | 4.3                       | 5.5                       | 20                             | None                 | -    | -      | -    | 35.8                      | 41.3                                                  | 45                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E03                  | 3    | 1      | 7.2  | 35.8                      | 41.3                                                  | 45                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E06                  | 6    | 1      | 14.4 | 35.9                      | 42.8                                                  | 45                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E08                  | 9    | 1      | 21.7 | 45                        | 51.9                                                  | 45                                                                  | 60                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15   | 2      | 36.1 | 63                        | 69.9                                                  | 70                                                                  | 70                                                                                        |     |
|               | 460        | 5.7                   |      | 38    |      | 9    |      | 1.6                        | 2.1                       | 2.2                       | 20                             | None                 | -    | -      | -    | 17.4                      | 19.6                                                  | 20                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E03                  | 3    | 1      | 3.6  | 17.4                      | 19.6                                                  | 20                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E06                  | 6    | 1      | 7.2  | 17.9                      | 20.6                                                  | 20                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E08                  | 9    | 1      | 10.8 | 22.4                      | 25.1                                                  | 25                                                                  | 30                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15   | 2      | 18   | 31.4                      | 34.1                                                  | 35                                                                  | 35                                                                                        |     |
|               | 575        | 4.0                   |      | 25.6  |      | 6.2  |      | 3.5                        | 2.0                       | 1.8                       | 4.0                            | None                 | -    | -      | -    | 13.8                      | 15.6                                                  | 15                                                                  | 20                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E09                  | 9.0  | 1      | 8.7  | 18.3                      | 20.6                                                  | 20                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15.0 | 2      | 14.4 | 25.5                      | 27.8                                                  | 30                                                                  | 30                                                                                        |     |
|               | 049<br>(4) | 208                   | 14.0 |       | 83.1 |      | 21.9 |                            | 3.5                       | 4.3                       | 5.5                            | 10.0                 | None | -      | -    | -                         | 38.8                                                  | 44.3                                                                | 50                                                                                        | 50  |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                |                      | E06  | 4.5    | 1    | 12.5                      | 38.8                                                  | 44.3                                                                | 50                                                                                        | 50  |
| E09           |            |                       |      |       |      |      |      |                            |                           |                           |                                |                      | 6.8  | 1      | 18.9 | 41.5                      | 48.3                                                  | 50                                                                  | 50                                                                                        |     |
| E15           |            |                       |      |       |      |      |      |                            |                           |                           |                                |                      | 11.3 | 2      | 31.4 | 57.1                      | 64.0                                                  | 60                                                                  | 70                                                                                        |     |
| E20           |            |                       |      |       |      |      |      |                            |                           |                           |                                |                      | 15.0 | 2      | 41.6 | 69.9                      | 76.8                                                  | 70                                                                  | 80                                                                                        |     |
| 230           |            | 14.0                  |      | 83.1  |      | 21.9 |      | 3.5                        | 4.3                       | 5.5                       | 10.0                           | None                 | -    | -      | -    | 38.8                      | 44.3                                                  | 50                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E06                  | 6.0  | 1      | 14.4 | 38.8                      | 44.3                                                  | 50                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E09                  | 9.0  | 1      | 21.7 | 44.9                      | 51.8                                                  | 50                                                                  | 60                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15.0 | 2      | 36.1 | 63.0                      | 69.9                                                  | 70                                                                  | 70                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E20                  | 20.0 | 2      | 48.1 | 78.0                      | 84.9                                                  | 80                                                                  | 90                                                                                        |     |
| 460           |            | 6.4                   |      | 41.0  |      | 10.0 |      | 3.5                        | 2.1                       | 2.2                       | 5.0                            | None                 | -    | -      | -    | 18.6                      | 20.8                                                  | 25                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E06                  | 6.0  | 1      | 7.2  | 18.6                      | 20.8                                                  | 25                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E09                  | 9.0  | 1      | 10.8 | 22.4                      | 25.2                                                  | 25                                                                  | 30                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15.0 | 2      | 18.0 | 31.4                      | 34.2                                                  | 35                                                                  | 35                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E20                  | 20.0 | 2      | 24.1 | 38.9                      | 41.7                                                  | 40                                                                  | 45                                                                                        |     |
| 575           |            | 4.6                   |      | 33.0  |      | 7.1  |      | 3.5                        | 2.0                       | 1.8                       | 4.0                            | None                 | -    | -      | -    | 14.6                      | 16.4                                                  | 15                                                                  | 20                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E09                  | 9.0  | 1      | 8.7  | 18.3                      | 20.6                                                  | 20                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15.0 | 2      | 14.4 | 25.5                      | 27.8                                                  | 30                                                                  | 30                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E20                  | 20.0 | 2      | 19.2 | 31.6                      | 33.8                                                  | 35                                                                  | 35                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | None                 | -    | -      | -    | 41.9                      | 47.4                                                  | 50                                                                  | 60                                                                                        |     |
| 061<br>(5)    | 208        | 16.5                  |      | 110.0 |      | 26   |      | 3.5                        | 4.3                       | 5.5                       | 20                             | None                 | -    | -      | -    | 41.9                      | 47.4                                                  | 50                                                                  | 60                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 41.9                      | 47.4                                                  | 50                                                                  | 60                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E08                  | 6.8  | 1      | 18.9 | 41.9                      | 48.4                                                  | 50                                                                  | 60                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 57.1                      | 64                                                    | 60                                                                  | 70                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E20                  | 15   | 2      | 41.6 | 69.9                      | 76.8                                                  | 70                                                                  | 80                                                                                        |     |
|               | 230        | 16.5                  |      | 110.0 |      | 26   |      | 3.5                        | 4.3                       | 5.5                       | 20                             | None                 | -    | -      | -    | 41.9                      | 47.4                                                  | 50                                                                  | 60                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E06                  | 6    | 1      | 14.4 | 41.9                      | 47.4                                                  | 50                                                                  | 60                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E08                  | 9    | 1      | 21.7 | 45                        | 51.9                                                  | 50                                                                  | 60                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15   | 2      | 36.1 | 63                        | 69.9                                                  | 70                                                                  | 70                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E20                  | 20   | 2      | 48.1 | 78                        | 84.9                                                  | 80                                                                  | 90                                                                                        |     |
|               | 460        | 7.2                   |      | 52.0  |      | 11   |      | 3.5                        | 2.1                       | 2.2                       | 20                             | E23                  | 24   | 2      | 57.7 | 90                        | 96.9                                                  | 90                                                                  | 100                                                                                       |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | None                 | -    | -      | -    | 19.6                      | 21.8                                                  | 25                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E06                  | 6    | 1      | 7.2  | 19.6                      | 21.8                                                  | 25                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E08                  | 9    | 1      | 10.8 | 22.4                      | 25.1                                                  | 25                                                                  | 30                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15   | 2      | 18   | 31.4                      | 34.1                                                  | 35                                                                  | 35                                                                                        |     |
|               | 575        | 5.5                   |      | 38.9  |      | 9    |      | 3.5                        | 2                         | 1.8                       | 20                             | E20                  | 20   | 2      | 24.1 | 39                        | 41.8                                                  | 40                                                                  | 45                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E23                  | 24   | 2      | 28.9 | 45                        | 47.8                                                  | 45                                                                  | 50                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | None                 | -    | -      | -    | 15.7                      | 17.5                                                  | 20                                                                  | 20                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E08                  | 9    | 1      | 8.7  | 18.4                      | 20.6                                                  | 20                                                                  | 25                                                                                        |     |
|               |            |                       |      |       |      |      |      |                            |                           |                           |                                | E15                  | 15   | 2      | 14.4 | 25.5                      | 27.8                                                  | 30                                                                  | 30                                                                                        |     |
| E20           | 20         | 2                     | 19.2 | 31.5  | 33.8 | 35   | 35   |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                     |                                                                                           |     |
|               | E23        | 24                    | 2    | 23.1  | 36.4 | 38.6 | 40   | 40                         |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                     |                                                                                           |     |

## ZT037-150 standard indoor blower - with powered convenience outlet (continued)

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max<br>fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|------|------|------|-----|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|-------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|               |      | RLA                   |      | LRA  |      | MCC |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp   |                           |                                                       |                                                                     |                                                                                           |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2 |                            |                           |                           |                                |                      |      |        |       |                           |                                                       |                                                                     |                                                                                           |
| 078<br>(6.5)  | 208  | 11.6                  | 11.6 | 73   | 73   | 18  | 18 | 3.5                        | 5.2                       | 5.5                       | 20                             | None                 | -    | -      | -     | 55.3                      | 60.8                                                  | 60                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 55.3                      | 60.8                                                  | 60                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 65.9                      | 72.8                                                  | 70                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 81.5                      | 88.4                                                  | 90                                                                  | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 107.5                     | 114.4                                                 | 110                                                                 | 125                                                                                       |
|               | 230  | 11.6                  | 11.6 | 73   | 73   | 18  | 18 | 3.5                        | 5.2                       | 5.5                       | 20                             | None                 | -    | -      | -     | 55.3                      | 60.8                                                  | 60                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 55.3                      | 60.8                                                  | 60                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 73.1                      | 80                                                    | 80                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 91.1                      | 98                                                    | 100                                                                 | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 121.3                     | 128.1                                                 | 125                                                                 | 150                                                                                       |
|               | 460  | 5.7                   | 5.7  | 38   | 38   | 9   | 9  | 1.6                        | 2.6                       | 2.2                       | 20                             | None                 | -    | -      | -     | 26.8                      | 29                                                    | 30                                                                  | 30                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 26.8                      | 29                                                    | 30                                                                  | 30                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 36.6                      | 39.4                                                  | 40                                                                  | 40                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 45.6                      | 48.4                                                  | 50                                                                  | 50                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 60.6                      | 63.4                                                  | 70                                                                  | 70                                                                                        |
| 090<br>(7.5)  | 208  | 11.6                  | 14   | 73   | 83.1 | 18  | 22 | 3.5                        | 5.2                       | 5.5                       | 20                             | None                 | -    | -      | -     | 58.3                      | 63.8                                                  | 70                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 58.3                      | 63.8                                                  | 70                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 65.9                      | 72.8                                                  | 70                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 81.5                      | 88.4                                                  | 90                                                                  | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 107.5                     | 114.4                                                 | 110                                                                 | 125                                                                                       |
|               | 230  | 11.6                  | 14   | 73   | 83.1 | 18  | 22 | 3.5                        | 5.2                       | 5.5                       | 20                             | None                 | -    | -      | -     | 58.3                      | 63.8                                                  | 70                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 58.3                      | 63.8                                                  | 70                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 73.1                      | 80                                                    | 80                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 91.1                      | 98                                                    | 100                                                                 | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 121.3                     | 128.1                                                 | 125                                                                 | 150                                                                                       |
|               | 460  | 5.7                   | 6.4  | 38   | 41   | 9   | 10 | 1.6                        | 2.6                       | 2.2                       | 20                             | None                 | -    | -      | -     | 27.7                      | 29.9                                                  | 30                                                                  | 35                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 27.7                      | 29.9                                                  | 30                                                                  | 35                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 36.6                      | 39.4                                                  | 40                                                                  | 40                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 45.6                      | 48.4                                                  | 50                                                                  | 50                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 60.6                      | 63.4                                                  | 70                                                                  | 70                                                                                        |
| 102<br>(8.5)  | 208  | 14                    | 14   | 83.1 | 83.1 | 22  | 22 | 3.5                        | 6.8                       | 5.5                       | 20                             | None                 | -    | -      | -     | 62.3                      | 67.8                                                  | 70                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 62.3                      | 67.8                                                  | 70                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 67.9                      | 74.8                                                  | 70                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 83.5                      | 90.4                                                  | 90                                                                  | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 109.5                     | 116.4                                                 | 110                                                                 | 125                                                                                       |
|               | 230  | 14                    | 14   | 83.1 | 83.1 | 22  | 22 | 3.5                        | 6.8                       | 5.5                       | 20                             | None                 | -    | -      | -     | 62.3                      | 67.8                                                  | 70                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 62.3                      | 67.8                                                  | 70                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 75.1                      | 82                                                    | 80                                                                  | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 93.1                      | 100                                                   | 100                                                                 | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 123.3                     | 130.1                                                 | 125                                                                 | 150                                                                                       |
|               | 460  | 6.4                   | 6.4  | 41   | 41   | 10  | 10 | 1.6                        | 3.4                       | 2.2                       | 20                             | None                 | -    | -      | -     | 29.2                      | 31.4                                                  | 35                                                                  | 35                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 29.2                      | 31.4                                                  | 35                                                                  | 35                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 37.6                      | 40.4                                                  | 40                                                                  | 45                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 46.6                      | 49.4                                                  | 50                                                                  | 50                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 61.6                      | 64.4                                                  | 70                                                                  | 70                                                                                        |
| 120<br>(10)   | 208  | 16.2                  | 16.2 | 110  | 110  | 25  | 25 | 3.5                        | 6.8                       | 5.5                       | 20                             | None                 | -    | -      | -     | 67.3                      | 72.8                                                  | 80                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 67.9                      | 74.8                                                  | 80                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 83.5                      | 90.4                                                  | 90                                                                  | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 109.5                     | 116.4                                                 | 110                                                                 | 125                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 40.6 | 2      | 112.7 | 161.9                     | 168.8                                                 | 175                                                                 | 175                                                                                       |
|               | 230  | 16.2                  | 16.2 | 110  | 110  | 25  | 25 | 3.5                        | 6.8                       | 5.5                       | 20                             | None                 | -    | -      | -     | 67.3                      | 72.8                                                  | 80                                                                  | 80                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 75.1                      | 82                                                    | 80                                                                  | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 93.1                      | 100                                                   | 100                                                                 | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 123.3                     | 130.1                                                 | 125                                                                 | 150                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 129.9 | 150.9                     | 157.8                                                 | 175                                                                 | 175                                                                                       |
|               | 460  | 7.6                   | 7.6  | 52   | 52   | 12  | 12 | 1.6                        | 3.4                       | 2.2                       | 20                             | None                 | -    | -      | -     | 31.9                      | 34.1                                                  | 35                                                                  | 40                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 37.6                      | 40.4                                                  | 40                                                                  | 45                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 46.6                      | 49.4                                                  | 50                                                                  | 50                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 61.6                      | 64.4                                                  | 70                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 65    | 75.5                      | 78.3                                                  | 80                                                                  | 90                                                                                        |

**ZT037-150 standard indoor blower - with powered convenience outlet (continued)**

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max<br>fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|------|------|------|-----|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|-------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|               |      | RLA                   |      | LRA  |      | MCC |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp   |                           |                                                       |                                                                     |                                                                                           |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2 |                            |                           |                           |                                |                      |      |        |       |                           |                                                       |                                                                     |                                                                                           |
| 150<br>(12.5) | 208  | 17.6                  | 17.6 | 136  | 136  | 27  | 27 | 3.5                        | 9.6                       | 5.5                       | 20                             | None                 | -    | -      | -     | 73.2                      | 78.7                                                  | 90                                                                  | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 73.2                      | 78.7                                                  | 90                                                                  | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 87                        | 93.9                                                  | 90                                                                  | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 113                       | 119.9                                                 | 125                                                                 | 125                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 40.6 | 2      | 112.7 | 165.4                     | 172.3                                                 | 175                                                                 | 175                                                                                       |
|               | 230  | 17.6                  | 17.6 | 136  | 136  | 27  | 27 | 3.5                        | 9.6                       | 5.5                       | 20                             | None                 | -    | -      | -     | 73.2                      | 78.7                                                  | 90                                                                  | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 78.6                      | 85.5                                                  | 90                                                                  | 90                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 96.6                      | 103.5                                                 | 100                                                                 | 110                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 126.8                     | 133.6                                                 | 150                                                                 | 150                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 129.9 | 154.4                     | 161.3                                                 | 175                                                                 | 175                                                                                       |
|               | 460  | 8.5                   | 8.5  | 66.1 | 66.1 | 13  | 13 | 1.6                        | 4.7                       | 2.2                       | 20                             | None                 | -    | -      | -     | 35.2                      | 37.4                                                  | 40                                                                  | 45                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 39.3                      | 42                                                    | 40                                                                  | 45                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 48.3                      | 51                                                    | 50                                                                  | 60                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 63.3                      | 66                                                    | 70                                                                  | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 65    | 77.1                      | 79.9                                                  | 90                                                                  | 90                                                                                        |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

## ZT037-150 high static indoor blower - with powered convenience outlet

| Size<br>(ton) | Volt | Compressors<br>(each) |    |       |    |      |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |      | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|----|-------|----|------|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|------|---------------------------|-------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|               |      | RLA                   |    | LRA   |    | MCC  |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp  |                           |                                                       |                                                                  |                                                                                           |
|               |      | C1                    | C2 | C1    | C2 | C1   | C2 |                            |                           |                           |                                |                      |      |        |      |                           |                                                       |                                                                  |                                                                                           |
| 037<br>(3)    | 208  | 11.6                  |    | 73    |    | 18   |    | 3.5                        | 4.3                       | 5.5                       | 20                             | None                 | -    | -      | -    | 35.8                      | 41.3                                                  | 45                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E03                  | 2.3  | 1      | 6.4  | 35.8                      | 41.3                                                  | 45                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 35.8                      | 41.3                                                  | 45                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 6.8  | 1      | 18.9 | 41.5                      | 48.4                                                  | 45                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 57.1                      | 64                                                    | 60                                                               | 70                                                                                        |
|               | 230  | 11.6                  |    | 73    |    | 18   |    | 3.5                        | 4.3                       | 5.5                       | 20                             | None                 | -    | -      | -    | 35.8                      | 41.3                                                  | 45                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E03                  | 3    | 1      | 7.2  | 35.8                      | 41.3                                                  | 45                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6    | 1      | 14.4 | 35.9                      | 42.8                                                  | 45                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 9    | 1      | 21.7 | 45                        | 51.9                                                  | 45                                                               | 60                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15   | 2      | 36.1 | 63                        | 69.9                                                  | 70                                                               | 70                                                                                        |
|               | 460  | 5.7                   |    | 38    |    | 9    |    | 1.6                        | 2.1                       | 2.2                       | 20                             | None                 | -    | -      | -    | 17.4                      | 19.6                                                  | 20                                                               | 25                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E03                  | 3    | 1      | 3.6  | 17.4                      | 19.6                                                  | 20                                                               | 25                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6    | 1      | 7.2  | 17.9                      | 20.6                                                  | 20                                                               | 25                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 9    | 1      | 10.8 | 22.4                      | 25.1                                                  | 25                                                               | 30                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15   | 2      | 18   | 31.4                      | 34.1                                                  | 35                                                               | 35                                                                                        |
|               | 575  | 4.0                   |    | 25.6  |    | 6.2  |    | 3.5                        | 2.0                       | 1.8                       | 4.0                            | None                 | -    | -      | -    | 13.8                      | 15.6                                                  | 15                                                               | 20                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 8.7  | 18.3                      | 20.6                                                  | 20                                                               | 25                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 14.4 | 25.5                      | 27.8                                                  | 30                                                               | 30                                                                                        |
| 049<br>(4)    | 208  | 14.0                  |    | 83.1  |    | 21.9 |    | 3.5                        | 4.3                       | 5.5                       | 10.0                           | None                 | -    | -      | -    | 38.8                      | 44.3                                                  | 50                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 38.8                      | 44.3                                                  | 50                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9 | 41.5                      | 48.3                                                  | 50                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 57.1                      | 64.0                                                  | 60                                                               | 70                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 15.0 | 2      | 41.6 | 69.9                      | 76.8                                                  | 70                                                               | 80                                                                                        |
|               | 230  | 14.0                  |    | 83.1  |    | 21.9 |    | 3.5                        | 4.3                       | 5.5                       | 10.0                           | None                 | -    | -      | -    | 38.8                      | 44.3                                                  | 50                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6.0  | 1      | 14.4 | 38.8                      | 44.3                                                  | 50                                                               | 50                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 21.7 | 44.9                      | 51.8                                                  | 50                                                               | 60                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 36.1 | 63.0                      | 69.9                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 48.1 | 78.0                      | 84.9                                                  | 80                                                               | 90                                                                                        |
|               | 460  | 6.4                   |    | 41.0  |    | 10.0 |    | 3.5                        | 2.1                       | 2.2                       | 5.0                            | None                 | -    | -      | -    | 18.6                      | 20.8                                                  | 25                                                               | 25                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6.0  | 1      | 7.2  | 18.6                      | 20.8                                                  | 25                                                               | 25                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 10.8 | 22.4                      | 25.2                                                  | 25                                                               | 30                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 18.0 | 31.4                      | 34.2                                                  | 35                                                               | 35                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 24.1 | 38.9                      | 41.7                                                  | 40                                                               | 45                                                                                        |
|               | 575  | 4.6                   |    | 33.0  |    | 7.1  |    | 3.5                        | 2.0                       | 1.8                       | 4.0                            | None                 | -    | -      | -    | 14.6                      | 16.4                                                  | 15                                                               | 20                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E09                  | 9.0  | 1      | 8.7  | 18.3                      | 20.6                                                  | 20                                                               | 25                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15.0 | 2      | 14.4 | 25.5                      | 27.8                                                  | 30                                                               | 30                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20.0 | 2      | 19.2 | 31.6                      | 33.8                                                  | 35                                                               | 35                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | None                 | -    | -      | -    | 44.4                      | 49.9                                                  | 60                                                               | 60                                                                                        |
| 061<br>(5)    | 208  | 16.5                  |    | 110.0 |    | 26   |    | 3.5                        | 6.8                       | 5.5                       | 20                             | None                 | -    | -      | -    | 44.4                      | 49.9                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 4.5  | 1      | 12.5 | 44.4                      | 49.9                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 6.8  | 1      | 18.9 | 44.6                      | 51.5                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 11.3 | 2      | 31.4 | 60.3                      | 67.1                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 15   | 2      | 41.6 | 73                        | 79.9                                                  | 80                                                               | 80                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E23                  | 18   | 2      | 50   | 83.5                      | 90.4                                                  | 90                                                               | 100                                                                                       |
|               | 230  | 16.5                  |    | 110.0 |    | 26   |    | 3.5                        | 6.8                       | 5.5                       | 20                             | None                 | -    | -      | -    | 44.4                      | 49.9                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6    | 1      | 14.4 | 44.4                      | 49.9                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 9    | 1      | 21.7 | 48.1                      | 55                                                    | 60                                                               | 60                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15   | 2      | 36.1 | 66.1                      | 73                                                    | 70                                                               | 80                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20   | 2      | 48.1 | 81.1                      | 88                                                    | 90                                                               | 90                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E23                  | 24   | 2      | 57.7 | 93.1                      | 100                                                   | 100                                                              | 100                                                                                       |
|               | 460  | 7.2                   |    | 52.0  |    | 11   |    | 3.5                        | 3.15                      | 2.2                       | 20                             | None                 | -    | -      | -    | 20.7                      | 22.9                                                  | 25                                                               | 30                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E06                  | 6    | 1      | 7.2  | 20.7                      | 22.9                                                  | 25                                                               | 30                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 9    | 1      | 10.8 | 23.7                      | 26.4                                                  | 25                                                               | 30                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E15                  | 15   | 2      | 18   | 32.7                      | 35.4                                                  | 35                                                               | 40                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E20                  | 20   | 2      | 24.1 | 40.3                      | 43.1                                                  | 45                                                               | 45                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E23                  | 24   | 2      | 28.9 | 46.3                      | 49.1                                                  | 50                                                               | 50                                                                                        |
|               | 575  | 5.5                   |    | 38.9  |    | 9    |    | 3.5                        | 2.2                       | 1.8                       | 20                             | None                 | -    | -      | -    | 15.9                      | 17.7                                                  | 20                                                               | 20                                                                                        |
|               |      |                       |    |       |    |      |    |                            |                           |                           |                                | E08                  | 9    | 1      | 8.7  | 18.6                      | 20.9                                                  | 20                                                               | 25                                                                                        |
| E15           |      |                       |    |       |    |      |    |                            |                           |                           |                                | 15                   | 2    | 14.4   | 25.8 | 28                        | 30                                                    | 30                                                               |                                                                                           |
| E20           |      |                       |    |       |    |      |    |                            |                           |                           |                                | 20                   | 2    | 19.2   | 31.8 | 34                        | 35                                                    | 35                                                               |                                                                                           |
| E23           |      |                       |    |       |    |      |    |                            |                           |                           |                                | 24                   | 2    | 23.1   | 36.6 | 38.9                      | 40                                                    | 40                                                               |                                                                                           |

## ZT037-150 high static indoor blower - with powered convenience outlet (continued)

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size<br>(Amp) | Max<br>fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|------|------|------|-----|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|-------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|               |      | RLA                   |      | LRA  |      | MCC |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp   |                           |                                                       |                                                                  |                                                                                              |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2 |                            |                           |                           |                                |                      |      |        |       |                           |                                                       |                                                                  |                                                                                              |
| 078<br>(6.5)  | 208  | 11.6                  | 11.6 | 73   | 73   | 18  | 18 | 3.5                        | 6.8                       | 5.5                       | 20                             | None                 | -    | -      | -     | 56.9                      | 62.4                                                  | 60                                                               | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 56.9                      | 62.4                                                  | 60                                                               | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 67.9                      | 74.8                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 83.5                      | 90.4                                                  | 90                                                               | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 109.5                     | 116.4                                                 | 110                                                              | 125                                                                                          |
|               | 230  | 11.6                  | 11.6 | 73   | 73   | 18  | 18 | 3.5                        | 6.8                       | 5.5                       | 20                             | None                 | -    | -      | -     | 56.9                      | 62.4                                                  | 60                                                               | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 56.9                      | 62.4                                                  | 60                                                               | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 75.1                      | 82                                                    | 80                                                               | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 93.1                      | 100                                                   | 100                                                              | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 123.3                     | 130.1                                                 | 125                                                              | 150                                                                                          |
|               | 460  | 5.7                   | 5.7  | 38   | 38   | 9   | 9  | 1.6                        | 3.4                       | 2.2                       | 20                             | None                 | -    | -      | -     | 27.6                      | 29.8                                                  | 30                                                               | 35                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 27.6                      | 29.8                                                  | 30                                                               | 35                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 37.6                      | 40.4                                                  | 40                                                               | 45                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 46.6                      | 49.4                                                  | 50                                                               | 50                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 61.6                      | 64.4                                                  | 70                                                               | 70                                                                                           |
| 090<br>(7.5)  | 208  | 11.6                  | 14   | 73   | 83.1 | 18  | 22 | 3.5                        | 9.6                       | 5.5                       | 20                             | None                 | -    | -      | -     | 62.7                      | 68.2                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 62.7                      | 68.2                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 71.4                      | 78.3                                                  | 80                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 87                        | 93.9                                                  | 90                                                               | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 113                       | 119.9                                                 | 125                                                              | 125                                                                                          |
|               | 230  | 11.6                  | 14   | 73   | 83.1 | 18  | 22 | 3.5                        | 9.6                       | 5.5                       | 20                             | None                 | -    | -      | -     | 62.7                      | 68.2                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 62.7                      | 68.2                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 78.6                      | 85.5                                                  | 80                                                               | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 96.6                      | 103.5                                                 | 100                                                              | 110                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 126.8                     | 133.6                                                 | 150                                                              | 150                                                                                          |
|               | 460  | 5.7                   | 6.4  | 38   | 41   | 9   | 10 | 1.6                        | 4.7                       | 2.2                       | 20                             | None                 | -    | -      | -     | 29.8                      | 32                                                    | 35                                                               | 35                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 29.8                      | 32                                                    | 35                                                               | 35                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 39.3                      | 42                                                    | 40                                                               | 45                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 48.3                      | 51                                                    | 50                                                               | 60                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 63.3                      | 66                                                    | 70                                                               | 70                                                                                           |
| 102<br>(8.5)  | 208  | 14                    | 14   | 83.1 | 83.1 | 22  | 22 | 3.5                        | 9.6                       | 5.5                       | 20                             | None                 | -    | -      | -     | 65.1                      | 70.6                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 6.8  | 1      | 18.9  | 65.1                      | 70.6                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 71.4                      | 78.3                                                  | 80                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 87                        | 93.9                                                  | 90                                                               | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 113                       | 119.9                                                 | 125                                                              | 125                                                                                          |
|               | 230  | 14                    | 14   | 83.1 | 83.1 | 22  | 22 | 3.5                        | 9.6                       | 5.5                       | 20                             | None                 | -    | -      | -     | 65.1                      | 70.6                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 21.7  | 65.1                      | 70.6                                                  | 70                                                               | 80                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 78.6                      | 85.5                                                  | 80                                                               | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 96.6                      | 103.5                                                 | 100                                                              | 110                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 126.8                     | 133.6                                                 | 150                                                              | 150                                                                                          |
|               | 460  | 6.4                   | 6.4  | 41   | 41   | 10  | 10 | 1.6                        | 4.7                       | 2.2                       | 20                             | None                 | -    | -      | -     | 30.5                      | 32.7                                                  | 35                                                               | 35                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E09                  | 9    | 1      | 10.8  | 30.5                      | 32.7                                                  | 35                                                               | 35                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 39.3                      | 42                                                    | 40                                                               | 45                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 48.3                      | 51                                                    | 50                                                               | 60                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 63.3                      | 66                                                    | 70                                                               | 70                                                                                           |
| 120<br>(10)   | 208  | 16.2                  | 16.2 | 110  | 110  | 25  | 25 | 3.5                        | 9.6                       | 5.5                       | 20                             | None                 | -    | -      | -     | 70.1                      | 75.6                                                  | 80                                                               | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 71.4                      | 78.3                                                  | 80                                                               | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 87                        | 93.9                                                  | 90                                                               | 100                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 113                       | 119.9                                                 | 125                                                              | 125                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 40.6 | 2      | 112.7 | 165.4                     | 172.3                                                 | 175                                                              | 175                                                                                          |
|               | 230  | 16.2                  | 16.2 | 110  | 110  | 25  | 25 | 3.5                        | 9.6                       | 5.5                       | 20                             | None                 | -    | -      | -     | 70.1                      | 75.6                                                  | 80                                                               | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 78.6                      | 85.5                                                  | 80                                                               | 90                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 96.6                      | 103.5                                                 | 100                                                              | 110                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 126.8                     | 133.6                                                 | 150                                                              | 150                                                                                          |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 129.9 | 154.4                     | 161.3                                                 | 175                                                              | 175                                                                                          |
|               | 460  | 7.6                   | 7.6  | 52   | 52   | 12  | 12 | 1.6                        | 4.7                       | 2.2                       | 20                             | None                 | -    | -      | -     | 33.2                      | 35.4                                                  | 40                                                               | 40                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 39.3                      | 42                                                    | 40                                                               | 45                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 48.3                      | 51                                                    | 50                                                               | 60                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 63.3                      | 66                                                    | 70                                                               | 70                                                                                           |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 65    | 77.1                      | 79.9                                                  | 90                                                               | 90                                                                                           |

**ZT037-150 high static indoor blower - with powered convenience outlet (continued)**

| Size<br>(ton) | Volt | Compressors<br>(each) |      |      |      |     |    | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>with<br>power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size with<br>power<br>exhaust<br>(Amp) |
|---------------|------|-----------------------|------|------|------|-----|----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|-------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|               |      | RLA                   |      | LRA  |      | MCC |    |                            |                           |                           |                                | Model                | kW   | Stages | Amp   |                           |                                                       |                                                                  |                                                                                           |
|               |      | C1                    | C2   | C1   | C2   | C1  | C2 |                            |                           |                           |                                |                      |      |        |       |                           |                                                       |                                                                  |                                                                                           |
| 150<br>(12.5) | 208  | 17.6                  | 17.6 | 136  | 136  | 27  | 27 | 3.5                        | 14                        | 5.5                       | 20                             | None                 | -    | -      | -     | 77.6                      | 83.1                                                  | 90                                                               | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 13.5 | 2      | 37.5  | 77.6                      | 83.8                                                  | 90                                                               | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 18   | 2      | 50    | 92.5                      | 99.4                                                  | 100                                                              | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 25.5 | 2      | 70.8  | 118.5                     | 125.4                                                 | 125                                                              | 150                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 40.6 | 2      | 112.7 | 170.9                     | 177.8                                                 | 175                                                              | 200                                                                                       |
|               | 230  | 17.6                  | 17.6 | 136  | 136  | 27  | 27 | 3.5                        | 14                        | 5.5                       | 20                             | None                 | -    | -      | -     | 77.6                      | 83.1                                                  | 90                                                               | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 43.3  | 84.1                      | 91                                                    | 90                                                               | 100                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 57.7  | 102.1                     | 109                                                   | 110                                                              | 110                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 81.8  | 132.3                     | 139.1                                                 | 150                                                              | 150                                                                                       |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 129.9 | 159.9                     | 166.8                                                 | 175                                                              | 175                                                                                       |
|               | 460  | 8.5                   | 8.5  | 66.1 | 66.1 | 13  | 13 | 1.6                        | 6.6                       | 2.2                       | 20                             | None                 | -    | -      | -     | 37.1                      | 39.3                                                  | 45                                                               | 45                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E18                  | 18   | 2      | 21.7  | 41.6                      | 44.4                                                  | 45                                                               | 45                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E24                  | 24   | 2      | 28.9  | 50.6                      | 53.4                                                  | 60                                                               | 60                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E36                  | 34   | 2      | 40.9  | 65.6                      | 68.4                                                  | 70                                                               | 70                                                                                        |
|               |      |                       |      |      |      |     |    |                            |                           |                           |                                | E54                  | 54   | 2      | 65    | 79.5                      | 82.3                                                  | 90                                                               | 90                                                                                        |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

**ZB078-150 standard indoor blower - without powered convenience outlet**

| Size (ton) | Volt     | Compressors (each) |      |     | OD fan motors (each) | Supply blower motor | Power exchange motor | Power convenience outlet | Electric Heat Option |      |        |      | MCA <sup>1</sup> (Amp) | MCA <sup>1</sup> w/power exchange (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size w/ power exhaust (Amp) |
|------------|----------|--------------------|------|-----|----------------------|---------------------|----------------------|--------------------------|----------------------|------|--------|------|------------------------|-----------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|
|            |          | RLA                | LRA  | MCC |                      |                     |                      |                          | Model                | kW   | Stages | Amp  |                        |                                         |                                                        |                                                                         |
| 078 (6.5)  | 208-3-60 | 9.6                | 73.8 | 15  | 3.03                 | 4.9                 | 5.5                  | 20                       | None                 | -    | -      | -    | 47.5                   | 53                                      | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 6.8  | 1      | 18.9 | 47.5                   | 53                                      | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 13.5 | 2      | 37.5 | 65.5                   | 72.4                                    | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 18   | 2      | 50   | 81.1                   | 88                                      | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 25.5 | 2      | 70.8 | 107.1                  | 114                                     | 110                                                    | 125                                                                     |
|            | 230-3-60 | 9.6                | 73.8 | 15  | 3.03                 | 4.9                 | 5.5                  | 20                       | None                 | -    | -      | -    | 47.5                   | 53                                      | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 21.7 | 47.5                   | 53                                      | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 43.3 | 72.8                   | 79.6                                    | 80                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 57.7 | 90.8                   | 97.6                                    | 100                                                    | 100                                                                     |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 81.8 | 120.9                  | 127.8                                   | 125                                                    | 150                                                                     |
|            | 460-3-60 | 5.1                | 37   | 8   | 1.6                  | 2.4                 | 2.2                  | 20                       | None                 | -    | -      | -    | 23.2                   | 25.4                                    | 25                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 10.8 | 23.2                   | 25.5                                    | 25                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 21.7 | 36.4                   | 39.1                                    | 40                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 28.9 | 45.4                   | 48.1                                    | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 40.9 | 60.4                   | 63.1                                    | 70                                                     | 70                                                                      |
|            | 575-3-60 | 3.2                | 26   | 5   | 1.35                 | 2.1                 | 1.8                  | 20                       | None                 | -    | -      | -    | 18.1                   | 19.9                                    | 20                                                     | 20                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 8.7  | 18.5                   | 20.8                                    | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 17.3 | 29.3                   | 31.5                                    | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 23.1 | 36.5                   | 38.8                                    | 40                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 32.7 | 48.5                   | 50.8                                    | 50                                                     | 60                                                                      |
| 090 (7.5)  | 208-3-60 | 14                 | 83.1 | 22  | 3.03                 | 4.9                 | 5.5                  | 20                       | None                 | -    | -      | -    | 52.1                   | 57.6                                    | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 6.8  | 1      | 18.9 | 52.1                   | 57.6                                    | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 13.5 | 2      | 37.5 | 65.5                   | 72.4                                    | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 18   | 2      | 50   | 81.1                   | 88                                      | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 25.5 | 2      | 70.8 | 107.1                  | 114                                     | 110                                                    | 125                                                                     |
|            | 230-3-60 | 14                 | 83.1 | 22  | 3.03                 | 4.9                 | 5.5                  | 20                       | None                 | -    | -      | -    | 52.1                   | 57.6                                    | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 21.7 | 52.1                   | 57.6                                    | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 43.3 | 72.8                   | 79.6                                    | 80                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 57.7 | 90.8                   | 97.6                                    | 100                                                    | 100                                                                     |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 81.8 | 120.9                  | 127.8                                   | 125                                                    | 150                                                                     |
|            | 460-3-60 | 6.4                | 41   | 10  | 1.6                  | 2.4                 | 2.2                  | 20                       | None                 | -    | -      | -    | 24.7                   | 26.9                                    | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 10.8 | 24.7                   | 26.9                                    | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 21.7 | 36.4                   | 39.1                                    | 40                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 28.9 | 45.4                   | 48.1                                    | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 40.9 | 60.4                   | 63.1                                    | 70                                                     | 70                                                                      |
|            | 575-3-60 | 4.6                | 33   | 7   | 1.35                 | 2.1                 | 1.8                  | 20                       | None                 | -    | -      | -    | 18.8                   | 20.6                                    | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 8.7  | 18.8                   | 20.8                                    | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 17.3 | 29.3                   | 31.5                                    | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 23.1 | 36.5                   | 38.8                                    | 40                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 32.7 | 48.5                   | 50.8                                    | 50                                                     | 60                                                                      |
| 102 (8.5)  | 208-3-60 | 14                 | 83.1 | 22  | 2.8                  | 6.8                 | 5.5                  |                          | None                 | -    | -      | -    | 43.7                   | 49.2                                    | 50                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 6.8  | 1      | 18.9 | 43.7                   | 49.2                                    | 50                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 13.5 | 2      | 37.5 | 55.4                   | 62.3                                    | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 18   | 2      | 50   | 71                     | 77.9                                    | 80                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 25.5 | 2      | 70.8 | 97                     | 103.9                                   | 100                                                    | 110                                                                     |
|            | 230-3-60 | 14                 | 83.1 | 22  | 2.8                  | 6.8                 | 5.5                  |                          | None                 | -    | -      | -    | 43.7                   | 49.2                                    | 50                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 21.7 | 43.7                   | 49.2                                    | 50                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 43.3 | 62.6                   | 69.5                                    | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 57.7 | 80.6                   | 87.5                                    | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 81.8 | 110.8                  | 117.6                                   | 125                                                    | 125                                                                     |
|            | 460-3-60 | 6.4                | 41   | 10  | 1.6                  | 3.4                 | 2.2                  |                          | None                 | -    | -      | -    | 20.8                   | 23                                      | 25                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 10.8 | 20.8                   | 23                                      | 25                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 21.7 | 31.4                   | 34.1                                    | 35                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 28.9 | 40.4                   | 43.1                                    | 45                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 40.9 | 55.4                   | 58.1                                    | 60                                                     | 60                                                                      |
|            | 575-3-60 | 4.6                | 33   | 7   | 1.35                 | 2.2                 | 1.8                  | 20                       | None                 | -    | -      | -    | 19.6                   | 21.4                                    | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E09                  | 9    | 1      | 8.7  | 19.6                   | 21.4                                    | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E18                  | 18   | 2      | 17.3 | 29.4                   | 31.6                                    | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E24                  | 24   | 2      | 23.1 | 36.6                   | 38.9                                    | 40                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                      |                          | E36                  | 34   | 2      | 32.7 | 48.6                   | 50.9                                    | 50                                                     | 60                                                                      |



## ZB078-150 standard indoor blower - without powered convenience outlet (continued)

| Size<br>(ton) | Volt     | Compressors<br>(each) |      |     | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exchange<br>motor | Power<br>convenience<br>outlet | Electric Heat Option |      |        |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>w/power<br>exchange<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup> size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size w/<br>power<br>exhaust<br>(Amp) |
|---------------|----------|-----------------------|------|-----|----------------------------|---------------------------|----------------------------|--------------------------------|----------------------|------|--------|-------|---------------------------|--------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|               |          | RLA                   | LRA  | MCC |                            |                           |                            |                                | Model                | kW   | Stages | Amp   |                           |                                                  |                                                               |                                                                                         |
| 120<br>(10)   | 208-3-60 | 16.2                  | 110  | 25  | 2.8                        | 6.8                       | 5.5                        |                                | None                 | -    | -      | -     | 48.6                      | 54.1                                             | 60                                                            | 70                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E18                  | 13.5 | 2      | 37.5  | 55.4                      | 62.3                                             | 60                                                            | 70                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E24                  | 18   | 2      | 50    | 71                        | 77.9                                             | 80                                                            | 80                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E36                  | 25.5 | 2      | 70.8  | 97                        | 103.9                                            | 100                                                           | 110                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E54                  | 40.6 | 2      | 112.7 | 149.4                     | 156.3                                            | 150                                                           | 175                                                                                     |
|               | 230-3-60 | 16.2                  | 110  | 25  | 2.8                        | 6.8                       | 5.5                        |                                | None                 | -    | -      | -     | 48.6                      | 54.1                                             | 60                                                            | 70                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E18                  | 18   | 2      | 43.3  | 62.6                      | 69.5                                             | 70                                                            | 70                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E24                  | 24   | 2      | 57.7  | 80.6                      | 87.5                                             | 90                                                            | 90                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E36                  | 34   | 2      | 81.8  | 110.8                     | 117.6                                            | 125                                                           | 125                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E54                  | 54   | 2      | 129.9 | 138.4                     | 145.3                                            | 150                                                           | 175                                                                                     |
|               | 460-3-60 | 7.6                   | 52   | 12  | 1.6                        | 3.4                       | 2.2                        |                                | None                 | -    | -      | -     | 23.2                      | 25.4                                             | 30                                                            | 30                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E18                  | 18   | 2      | 21.7  | 31.4                      | 34.1                                             | 35                                                            | 35                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E24                  | 24   | 2      | 28.9  | 40.4                      | 43.1                                             | 45                                                            | 45                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E36                  | 34   | 2      | 40.9  | 55.4                      | 58.1                                             | 60                                                            | 60                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E54                  | 54   | 2      | 65    | 69.3                      | 72                                               | 80                                                            | 80                                                                                      |
|               | 575-3-60 | 5.1                   | 43.8 | 8   | 1.35                       | 2.2                       | 1.8                        | 20                             | None                 | -    | -      | -     | 20.4                      | 22.2                                             | 25                                                            | 25                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E18                  | 18   | 2      | 17.3  | 29.4                      | 31.6                                             | 30                                                            | 35                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E24                  | 24   | 2      | 23.1  | 36.6                      | 38.9                                             | 40                                                            | 40                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E36                  | 34   | 2      | 32.7  | 48.6                      | 50.9                                             | 50                                                            | 60                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E54                  | 54   | 2      | 52    | 59.8                      | 62                                               | 70                                                            | 70                                                                                      |
| 150<br>(12.5) | 208-3-60 | 18.6                  | 149  | 29  | 2.1                        | 9.6                       | 5.5                        | 20                             | None                 | -    | -      | -     | 74.6                      | 80.1                                             | 90                                                            | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E18                  | 13.5 | 2      | 37.5  | 74.6                      | 80.1                                             | 90                                                            | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E24                  | 18   | 2      | 50    | 87                        | 93.9                                             | 90                                                            | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E36                  | 25.5 | 2      | 70.8  | 113                       | 119.9                                            | 125                                                           | 125                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E54                  | 40.6 | 2      | 112.7 | 165.4                     | 172.3                                            | 175                                                           | 175                                                                                     |
|               | 230-3-60 | 18.6                  | 149  | 29  | 2.1                        | 9.6                       | 5.5                        | 20                             | None                 | -    | -      | -     | 74.6                      | 80.1                                             | 90                                                            | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E18                  | 18   | 2      | 43.3  | 78.6                      | 85.5                                             | 90                                                            | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E24                  | 24   | 2      | 57.7  | 96.6                      | 103.5                                            | 100                                                           | 110                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E36                  | 34   | 2      | 81.8  | 126.8                     | 133.6                                            | 150                                                           | 150                                                                                     |
|               |          |                       |      |     |                            |                           |                            |                                | E54                  | 54   | 2      | 129.9 | 154.4                     | 161.3                                            | 175                                                           | 175                                                                                     |
|               | 460-3-60 | 9                     | 60.9 | 14  | 1.26                       | 4.7                       | 2.2                        | 20                             | None                 | -    | -      | -     | 37                        | 39.2                                             | 45                                                            | 45                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E18                  | 18   | 2      | 21.7  | 39.3                      | 42                                               | 45                                                            | 45                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E24                  | 24   | 2      | 28.9  | 48.3                      | 51                                               | 50                                                            | 60                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E36                  | 34   | 2      | 40.9  | 63.3                      | 66                                               | 70                                                            | 70                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E54                  | 54   | 2      | 65    | 77.1                      | 79.9                                             | 90                                                            | 90                                                                                      |
|               | 575-3-60 | 7.1                   | 56   | 11  | 0.66                       | 3.2                       | 1.8                        | 20                             | None                 | -    | -      | -     | 26.5                      | 28.3                                             | 30                                                            | 35                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E18                  | 18   | 2      | 17.3  | 30.6                      | 32.9                                             | 35                                                            | 35                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E24                  | 24   | 2      | 23.1  | 37.9                      | 40.1                                             | 40                                                            | 45                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E36                  | 34   | 2      | 32.7  | 49.9                      | 52.1                                             | 50                                                            | 60                                                                                      |
|               |          |                       |      |     |                            |                           |                            |                                | E54                  | 54   | 2      | 52    | 61                        | 63.3                                             | 70                                                            | 70                                                                                      |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

## ZB078-150 standard indoor blower - with powered convenience outlet

| Size (ton) | Volt     | Compressors (each) |      |     | OD fan motors (each) | Supply blower motor | Power exhaust motor | Power convenience outlet | Electric heat option |      |   |      | MCA <sup>1</sup> (Amp) | MCA <sup>1</sup> w/power exhaust (Amp) | Max fuse <sup>2</sup> / breaker <sup>3</sup> size (Amp) | Max fuse <sup>2</sup> / breaker <sup>3</sup> size w/ power exhaust (Amp) |
|------------|----------|--------------------|------|-----|----------------------|---------------------|---------------------|--------------------------|----------------------|------|---|------|------------------------|----------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------|
|            |          | RLA                | LRA  | MCC |                      |                     |                     |                          |                      |      |   |      |                        |                                        |                                                         |                                                                          |
| 078 (6.5)  | 208-3-60 | 9.6                | 73.8 | 15  | 3.03                 | 4.9                 | 5.5                 |                          | None                 | -    | - | -    | 37.5                   | 43                                     | 50                                                      | 50                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 37.5                   | 43                                     | 50                                                      | 50                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 53                     | 59.9                                   | 60                                                      | 60                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 68.6                   | 75.5                                   | 70                                                      | 80                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 94.6                   | 101.5                                  | 100                                                     | 110                                                                      |
|            | 230-3-60 | 9.6                | 73.8 | 15  | 3.03                 | 4.9                 | 5.5                 |                          | None                 | -    | - | -    | 37.5                   | 43                                     | 50                                                      | 50                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 37.5                   | 43                                     | 50                                                      | 50                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 60.3                   | 67.1                                   | 70                                                      | 70                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 78.3                   | 85.1                                   | 80                                                      | 90                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 108.4                  | 115.3                                  | 110                                                     | 125                                                                      |
|            | 460-3-60 | 5.1                | 37   | 8   | 1.6                  | 2.4                 | 2.2                 |                          | None                 | -    | - | -    | 18.2                   | 20.4                                   | 20                                                      | 25                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 18.2                   | 20.4                                   | 20                                                      | 25                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 30.1                   | 32.9                                   | 35                                                      | 35                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 39.1                   | 41.9                                   | 40                                                      | 45                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 54.1                   | 56.9                                   | 60                                                      | 60                                                                       |
|            | 575-3-60 | 3.2                | 26   | 5   | 1.35                 | 2.1                 | 1.8                 |                          | None                 | -    | - | -    | 14.1                   | 15.9                                   | 15                                                      | 20                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 14.1                   | 15.9                                   | 15                                                      | 20                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 24.3                   | 26.5                                   | 25                                                      | 30                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 31.5                   | 33.8                                   | 35                                                      | 35                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 43.5                   | 45.8                                   | 45                                                      | 50                                                                       |
| 090 (7.5)  | 208-3-60 | 14                 | 83.1 | 22  | 3.03                 | 4.9                 | 5.5                 |                          | None                 | -    | - | -    | 42.1                   | 47.6                                   | 50                                                      | 60                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 42.1                   | 47.6                                   | 50                                                      | 60                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 53                     | 59.9                                   | 60                                                      | 60                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 68.6                   | 75.5                                   | 70                                                      | 80                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 94.6                   | 101.5                                  | 100                                                     | 110                                                                      |
|            | 230-3-60 | 14                 | 83.1 | 22  | 3.03                 | 4.9                 | 5.5                 |                          | None                 | -    | - | -    | 42.1                   | 47.6                                   | 50                                                      | 60                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 42.1                   | 47.6                                   | 50                                                      | 60                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 60.3                   | 67.1                                   | 70                                                      | 70                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 78.3                   | 85.1                                   | 80                                                      | 90                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 108.4                  | 115.3                                  | 110                                                     | 125                                                                      |
|            | 460-3-60 | 6.4                | 41   | 10  | 1.6                  | 2.4                 | 2.2                 |                          | None                 | -    | - | -    | 19.7                   | 21.9                                   | 25                                                      | 25                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 19.7                   | 21.9                                   | 25                                                      | 25                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 30.1                   | 32.9                                   | 35                                                      | 35                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 39.1                   | 41.9                                   | 40                                                      | 45                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 54.1                   | 56.9                                   | 60                                                      | 60                                                                       |
|            | 575-3-60 | 4.6                | 33   | 7   | 1.35                 | 2.1                 | 1.8                 |                          | None                 | -    | - | -    | 14.8                   | 16.6                                   | 15                                                      | 20                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 14.8                   | 16.6                                   | 15                                                      | 20                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 24.3                   | 26.5                                   | 25                                                      | 30                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 31.5                   | 33.8                                   | 35                                                      | 35                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 43.5                   | 45.8                                   | 45                                                      | 50                                                                       |
| 102 (8.5)  | 208-3-60 | 14                 | 83.1 | 22  | 2.8                  | 6.8                 | 5.5                 | 20                       | None                 | -    | - | -    | 53.7                   | 59.2                                   | 60                                                      | 70                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 53.7                   | 59.2                                   | 60                                                      | 70                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 67.9                   | 74.8                                   | 70                                                      | 80                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 83.5                   | 90.4                                   | 90                                                      | 100                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 109.5                  | 116.4                                  | 110                                                     | 125                                                                      |
|            | 230-3-60 | 14                 | 83.1 | 22  | 2.8                  | 6.8                 | 5.5                 | 20                       | None                 | -    | - | -    | 53.7                   | 59.2                                   | 60                                                      | 70                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 53.7                   | 59.2                                   | 60                                                      | 70                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 75.1                   | 82                                     | 80                                                      | 90                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 93.1                   | 100                                    | 100                                                     | 100                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 123.3                  | 130.1                                  | 125                                                     | 150                                                                      |
|            | 460-3-60 | 6.4                | 41   | 10  | 1.6                  | 3.4                 | 2.2                 | 20                       | None                 | -    | - | -    | 25.8                   | 28                                     | 30                                                      | 30                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 25.8                   | 28                                     | 30                                                      | 30                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 37.6                   | 40.4                                   | 40                                                      | 45                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 46.6                   | 49.4                                   | 50                                                      | 50                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 61.6                   | 64.4                                   | 70                                                      | 70                                                                       |
|            | 575-3-60 | 4.6                | 33   | 7   | 1.35                 | 2.2                 | 1.8                 |                          | None                 | -    | - | -    | 15.6                   | 17.4                                   | 20                                                      | 20                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 15.6                   | 17.4                                   | 20                                                      | 20                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 24.4                   | 26.6                                   | 25                                                      | 30                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 31.6                   | 33.9                                   | 35                                                      | 35                                                                       |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 43.6                   | 45.9                                   | 45                                                      | 50                                                                       |

**ZB078-150 standard indoor blower - with powered convenience outlet**

| Size (ton) | Volt     | Compressors (each) |      |     | OD fan motors (each) | Supply blower motor | Power exhaust motor | Power convenience outlet | Electric heat option |      |   |       | MCA <sup>1</sup> (Amp) | MCA <sup>1</sup> w/power exhaust (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size w/ power exhaust (Amp) |
|------------|----------|--------------------|------|-----|----------------------|---------------------|---------------------|--------------------------|----------------------|------|---|-------|------------------------|----------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|
|            |          | RLA                | LRA  | MCC |                      |                     |                     |                          |                      |      |   |       |                        |                                        |                                                        |                                                                         |
| 120 (10)   | 208-3-60 | 16.2               | 110  | 25  | 2.8                  | 6.8                 | 5.5                 | 20                       | None                 | -    | - | -     | 58.6                   | 64.1                                   | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5  | 67.9                   | 74.8                                   | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50    | 83.5                   | 90.4                                   | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8  | 109.5                  | 116.4                                  | 110                                                    | 125                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 40.6 | 2 | 112.7 | 161.9                  | 168.8                                  | 175                                                    | 175                                                                     |
|            | 230-3-60 | 16.2               | 110  | 25  | 2.8                  | 6.8                 | 5.5                 | 20                       | None                 | -    | - | -     | 58.6                   | 64.1                                   | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3  | 75.1                   | 82                                     | 80                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7  | 93.1                   | 100                                    | 100                                                    | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8  | 123.3                  | 130.1                                  | 125                                                    | 150                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 129.9 | 150.9                  | 157.8                                  | 175                                                    | 175                                                                     |
|            | 460-3-60 | 7.6                | 52   | 12  | 1.6                  | 3.4                 | 2.2                 | 20                       | None                 | -    | - | -     | 28.2                   | 30.4                                   | 35                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7  | 37.6                   | 40.4                                   | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9  | 46.6                   | 49.4                                   | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9  | 61.6                   | 64.4                                   | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 65    | 75.5                   | 78.3                                   | 80                                                     | 90                                                                      |
|            | 575-3-60 | 5.1                | 43.8 | 8   | 1.35                 | 2.2                 | 1.8                 | 20                       | None                 | -    | - | -     | 20.4                   | 22.2                                   | 25                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3  | 29.4                   | 31.6                                   | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1  | 36.6                   | 38.9                                   | 40                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7  | 48.6                   | 50.9                                   | 50                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 52    | 59.8                   | 62                                     | 70                                                     | 70                                                                      |
| 150 (12.5) | 208-3-60 | 16.2               | 110  | 25  | 2.8                  | 6.8                 | 5.5                 | 20                       | None                 | -    | - | -     | 58.6                   | 64.1                                   | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5  | 67.9                   | 74.8                                   | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50    | 83.5                   | 90.4                                   | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8  | 109.5                  | 116.4                                  | 110                                                    | 125                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 40.6 | 2 | 112.7 | 161.9                  | 168.8                                  | 175                                                    | 175                                                                     |
|            | 230-3-60 | 16.2               | 110  | 25  | 2.8                  | 6.8                 | 5.5                 | 20                       | None                 | -    | - | -     | 58.6                   | 64.1                                   | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3  | 75.1                   | 82                                     | 80                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7  | 93.1                   | 100                                    | 100                                                    | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8  | 123.3                  | 130.1                                  | 125                                                    | 150                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 129.9 | 150.9                  | 157.8                                  | 175                                                    | 175                                                                     |
|            | 460-3-60 | 7.6                | 52   | 12  | 1.6                  | 3.4                 | 2.2                 | 20                       | None                 | -    | - | -     | 28.2                   | 30.4                                   | 35                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7  | 37.6                   | 40.4                                   | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9  | 46.6                   | 49.4                                   | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9  | 61.6                   | 64.4                                   | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 65    | 75.5                   | 78.3                                   | 80                                                     | 90                                                                      |
|            | 575-3-60 | 7.1                | 56   | 11  | 0.66                 | 3.2                 | 1.8                 |                          | None                 | -    | - | -     | 22.5                   | 24.3                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3  | 25.6                   | 27.9                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1  | 32.9                   | 35.1                                   | 35                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7  | 44.9                   | 47.1                                   | 45                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 52    | 56                     | 58.3                                   | 60                                                     | 70                                                                      |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

**ZB078-150 high static indoor blower - without powered convenience outlet**

| Size (ton) | Volt     | Compressors (each) |      |     | OD fan motors (each) | Supply blower motor | Power exhaust motor | Power convenience outlet | Electric heat option |      |   |      | MCA <sup>1</sup> (Amp) | MCA <sup>1</sup> w/power exhaust (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size w/ power exhaust (Amp) |
|------------|----------|--------------------|------|-----|----------------------|---------------------|---------------------|--------------------------|----------------------|------|---|------|------------------------|----------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|
|            |          | RLA                | LRA  | MCC |                      |                     |                     |                          |                      |      |   |      |                        |                                        |                                                        |                                                                         |
| 078 (6.5)  | 208-3-60 | 9.6                | 73.8 | 15  | 3.03                 | 6.8                 | 5.5                 |                          | None                 | -    | - | -    | 39.4                   | 44.9                                   | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 39.4                   | 44.9                                   | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 55.4                   | 62.3                                   | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 71                     | 77.9                                   | 80                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 97                     | 103.9                                  | 100                                                    | 110                                                                     |
|            | 230-3-60 | 9.6                | 73.8 | 15  | 3.03                 | 6.8                 | 5.5                 |                          | None                 | -    | - | -    | 39.4                   | 44.9                                   | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 39.4                   | 44.9                                   | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 62.6                   | 69.5                                   | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 80.6                   | 87.5                                   | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 110.8                  | 117.6                                  | 125                                                    | 125                                                                     |
|            | 460-3-60 | 5.1                | 37   | 8   | 1.6                  | 3.4                 | 2.2                 |                          | None                 | -    | - | -    | 19.2                   | 21.4                                   | 25                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 19.2                   | 21.4                                   | 25                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 31.4                   | 34.1                                   | 35                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 40.4                   | 43.1                                   | 45                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 55.4                   | 58.1                                   | 60                                                     | 60                                                                      |
|            | 575-3-60 | 3.2                | 26   | 5   | 1.35                 | 2.5                 | 1.8                 |                          | None                 | -    | - | -    | 14.5                   | 16.3                                   | 15                                                     | 20                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 14.5                   | 16.3                                   | 15                                                     | 20                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 24.8                   | 27                                     | 25                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 32                     | 34.3                                   | 35                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 44                     | 46.3                                   | 45                                                     | 50                                                                      |
| 090 (7.5)  | 208-3-60 | 14                 | 83.1 | 22  | 3.03                 | 9.6                 | 5.5                 |                          | None                 | -    | - | -    | 46.8                   | 52.3                                   | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 46.8                   | 52.3                                   | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 58.9                   | 65.8                                   | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 74.5                   | 81.4                                   | 80                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 100.5                  | 107.4                                  | 110                                                    | 110                                                                     |
|            | 230-3-60 | 14                 | 83.1 | 22  | 3.03                 | 9.6                 | 5.5                 |                          | None                 | -    | - | -    | 46.8                   | 52.3                                   | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 46.8                   | 52.3                                   | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 66.1                   | 73                                     | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 84.1                   | 91                                     | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 114.3                  | 121.1                                  | 125                                                    | 125                                                                     |
|            | 460-3-60 | 6.4                | 41   | 10  | 1.6                  | 4.7                 | 2.2                 |                          | None                 | -    | - | -    | 22                     | 24.2                                   | 25                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 22                     | 24.2                                   | 25                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 33                     | 35.8                                   | 35                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 42                     | 44.8                                   | 45                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 57                     | 59.8                                   | 60                                                     | 60                                                                      |
|            | 575-3-60 | 4.6                | 33   | 7   | 1.35                 | 3.2                 | 1.8                 |                          | None                 | -    | - | -    | 15.9                   | 17.7                                   | 20                                                     | 20                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 15.9                   | 17.7                                   | 20                                                     | 20                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 25.6                   | 27.9                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 32.9                   | 35.1                                   | 35                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 44.9                   | 47.1                                   | 45                                                     | 50                                                                      |
| 102 (8.5)  | 208-3-60 | 14                 | 83.1 | 22  | 2.8                  | 9.6                 | 5.5                 |                          | None                 | -    | - | -    | 46.5                   | 52                                     | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 46.5                   | 52                                     | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 58.9                   | 65.8                                   | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 74.5                   | 81.4                                   | 80                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 100.5                  | 107.4                                  | 110                                                    | 110                                                                     |
|            | 230-3-60 | 14                 | 83.1 | 22  | 2.8                  | 9.6                 | 5.5                 |                          | None                 | -    | - | -    | 46.5                   | 52                                     | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 46.5                   | 52                                     | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 66.1                   | 73                                     | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 84.1                   | 91                                     | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 114.3                  | 121.1                                  | 125                                                    | 125                                                                     |
|            | 460-3-60 | 6.4                | 41   | 10  | 1.6                  | 4.7                 | 2.2                 |                          | None                 | -    | - | -    | 22.1                   | 24.3                                   | 25                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 22.1                   | 24.3                                   | 25                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 33                     | 35.8                                   | 35                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 42                     | 44.8                                   | 45                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 57                     | 59.8                                   | 60                                                     | 60                                                                      |
|            | 575-3-60 | 4.6                | 33   | 7   | 1.35                 | 3.2                 | 1.8                 |                          | None                 | -    | - | -    | 16.6                   | 18.4                                   | 20                                                     | 20                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 16.6                   | 18.4                                   | 20                                                     | 20                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 25.6                   | 27.9                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 32.9                   | 35.1                                   | 35                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 44.9                   | 47.1                                   | 45                                                     | 50                                                                      |

**ZB078-150 high static indoor blower - without powered convenience outlet**

| Size (ton) | Volt     | Compressors (each) |      |     | OD fan motors (each) | Supply blower motor | Power exhaust motor | Power convenience outlet | Electric heat option |      |   |       | MCA <sup>1</sup> (Amp) | MCA <sup>1</sup> w/power exhaust (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size w/ power exhaust (Amp) |
|------------|----------|--------------------|------|-----|----------------------|---------------------|---------------------|--------------------------|----------------------|------|---|-------|------------------------|----------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|
|            |          | RLA                | LRA  | MCC |                      |                     |                     |                          |                      |      |   |       |                        |                                        |                                                        |                                                                         |
| 120 (10)   | 208-3-60 | 16.2               | 110  | 25  | 2.8                  | 9.6                 | 5.5                 |                          | None                 | -    | - | -     | 51.4                   | 56.9                                   | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5  | 58.9                   | 65.8                                   | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50    | 74.5                   | 81.4                                   | 80                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8  | 100.5                  | 107.4                                  | 110                                                    | 110                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 40.6 | 2 | 112.7 | 152.9                  | 159.8                                  | 175                                                    | 175                                                                     |
|            | 230-3-60 | 16.2               | 110  | 25  | 2.8                  | 9.6                 | 5.5                 |                          | None                 | -    | - | -     | 51.4                   | 56.9                                   | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3  | 66.1                   | 73                                     | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7  | 84.1                   | 91                                     | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8  | 114.3                  | 121.1                                  | 125                                                    | 125                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 129.9 | 141.9                  | 148.8                                  | 175                                                    | 175                                                                     |
|            | 460-3-60 | 7.6                | 52   | 12  | 1.6                  | 4.7                 | 2.2                 |                          | None                 | -    | - | -     | 24.5                   | 26.7                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7  | 33                     | 35.8                                   | 35                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9  | 42                     | 44.8                                   | 45                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9  | 57                     | 59.8                                   | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 65    | 70.9                   | 73.6                                   | 80                                                     | 80                                                                      |
|            | 575-3-60 | 5.1                | 43.8 | 8   | 1.35                 | 3.2                 | 1.8                 |                          | None                 | -    | - | -     | 17.4                   | 19.2                                   | 20                                                     | 20                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3  | 25.6                   | 27.9                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1  | 32.9                   | 35.1                                   | 35                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7  | 44.9                   | 47.1                                   | 45                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 52    | 56                     | 58.3                                   | 60                                                     | 70                                                                      |
| 150 (12.5) | 208-3-60 | 18.6               | 149  | 29  | 2.1                  | 14                  | 5.5                 |                          | None                 | -    | - | -     | 69                     | 74.5                                   | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5  | 69                     | 74.5                                   | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50    | 80                     | 86.9                                   | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8  | 106                    | 112.9                                  | 110                                                    | 125                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 40.6 | 2 | 112.7 | 158.4                  | 165.3                                  | 175                                                    | 175                                                                     |
|            | 230-3-60 | 18.6               | 149  | 29  | 2.1                  | 14                  | 5.5                 |                          | None                 | -    | - | -     | 69                     | 74.5                                   | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3  | 71.6                   | 78.5                                   | 90                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7  | 89.6                   | 96.5                                   | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8  | 119.8                  | 126.6                                  | 125                                                    | 150                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 129.9 | 147.4                  | 154.3                                  | 175                                                    | 175                                                                     |
|            | 460-3-60 | 9                  | 60.9 | 14  | 1.26                 | 6.6                 | 2.2                 |                          | None                 | -    | - | -     | 33.9                   | 36.1                                   | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7  | 35.4                   | 38.1                                   | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9  | 44.4                   | 47.1                                   | 45                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9  | 59.4                   | 62.1                                   | 60                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 65    | 73.3                   | 76                                     | 80                                                     | 90                                                                      |
|            | 575-3-60 | 7.1                | 56   | 11  | 0.66                 | 5.2                 | 1.8                 |                          | None                 | -    | - | -     | 24.5                   | 26.3                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3  | 28.1                   | 30.4                                   | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1  | 35.4                   | 37.6                                   | 40                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7  | 47.4                   | 49.6                                   | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E54                  | 54   | 2 | 52    | 58.5                   | 60.8                                   | 70                                                     | 70                                                                      |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

**ZB078-150 high static indoor blower - with powered convenience outlet**

| Size (ton) | Volt     | Compressors (each) |      |     | OD fan motors (each) | Supply blower motor | Power exhaust motor | Power convenience outlet | Electric heat option |      |   |      | MCA <sup>1</sup> (Amp) | MCA <sup>1</sup> w/power exhaust (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size (Amp) | Max fuse <sup>2</sup> /breaker <sup>3</sup> size w/ power exhaust (Amp) |
|------------|----------|--------------------|------|-----|----------------------|---------------------|---------------------|--------------------------|----------------------|------|---|------|------------------------|----------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|
|            |          | RLA                | LRA  | MCC |                      |                     |                     |                          |                      |      |   |      |                        |                                        |                                                        |                                                                         |
| 078 (6.5)  | 208-3-60 | 9.6                | 73.8 | 15  | 3.03                 | 6.8                 | 5.5                 | 20                       | None                 | -    | - | -    | 49.4                   | 54.9                                   | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 49.4                   | 54.9                                   | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 67.9                   | 74.8                                   | 70                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 83.5                   | 90.4                                   | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 109.5                  | 116.4                                  | 110                                                    | 125                                                                     |
|            | 230-3-60 | 9.6                | 73.8 | 15  | 3.03                 | 6.8                 | 5.5                 | 20                       | None                 | -    | - | -    | 49.4                   | 54.9                                   | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 49.4                   | 55                                     | 60                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 75.1                   | 82                                     | 80                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 93.1                   | 100                                    | 100                                                    | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 123.3                  | 130.1                                  | 125                                                    | 150                                                                     |
|            | 460-3-60 | 5.1                | 37   | 8   | 1.6                  | 3.4                 | 2.2                 | 20                       | None                 | -    | - | -    | 24.2                   | 26.4                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 24.2                   | 26.8                                   | 30                                                     | 30                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 37.6                   | 40.4                                   | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 46.6                   | 49.4                                   | 50                                                     | 50                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 61.6                   | 64.4                                   | 70                                                     | 70                                                                      |
|            | 575-3-60 | 3.2                | 26   | 5   | 1.35                 | 2.5                 | 1.8                 | 20                       | None                 | -    | - | -    | 18.5                   | 20.3                                   | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 19                     | 21.3                                   | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 29.8                   | 32                                     | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 37                     | 39.3                                   | 40                                                     | 40                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 49                     | 51.3                                   | 50                                                     | 60                                                                      |
| 090 (7.5)  | 208-3-60 | 14                 | 83.1 | 22  | 3.03                 | 9.6                 | 5.5                 | 20                       | None                 | -    | - | -    | 56.8                   | 62.3                                   | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 56.8                   | 62.3                                   | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 71.4                   | 78.3                                   | 80                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 87                     | 93.9                                   | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 113                    | 119.9                                  | 125                                                    | 125                                                                     |
|            | 230-3-60 | 14                 | 83.1 | 22  | 3.03                 | 9.6                 | 5.5                 | 20                       | None                 | -    | - | -    | 56.8                   | 62.3                                   | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 56.8                   | 62.3                                   | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 78.6                   | 85.5                                   | 80                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 96.6                   | 103.5                                  | 100                                                    | 110                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 126.8                  | 133.6                                  | 150                                                    | 150                                                                     |
|            | 460-3-60 | 6.4                | 41   | 10  | 1.6                  | 4.7                 | 2.2                 | 20                       | None                 | -    | - | -    | 27                     | 29.2                                   | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 27                     | 29.2                                   | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 39.3                   | 42                                     | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 48.3                   | 51                                     | 50                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 63.3                   | 66                                     | 70                                                     | 70                                                                      |
|            | 575-3-60 | 4.6                | 33   | 7   | 1.35                 | 3.2                 | 1.8                 | 20                       | None                 | -    | - | -    | 19.9                   | 21.7                                   | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 19.9                   | 22.1                                   | 20                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 30.6                   | 32.9                                   | 35                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 37.9                   | 40.1                                   | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 49.9                   | 52.1                                   | 50                                                     | 60                                                                      |
| 102 (8.5)  | 208-3-60 | 14                 | 83.1 | 22  | 2.8                  | 9.6                 | 5.5                 | 20                       | None                 | -    | - | -    | 56.5                   | 62                                     | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 6.8  | 1 | 18.9 | 56.5                   | 62                                     | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 13.5 | 2 | 37.5 | 71.4                   | 78.3                                   | 80                                                     | 80                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 18   | 2 | 50   | 87                     | 93.9                                   | 90                                                     | 100                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 25.5 | 2 | 70.8 | 113                    | 119.9                                  | 125                                                    | 125                                                                     |
|            | 230-3-60 | 14                 | 83.1 | 22  | 2.8                  | 9.6                 | 5.5                 | 20                       | None                 | -    | - | -    | 56.5                   | 62                                     | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 21.7 | 56.5                   | 62                                     | 70                                                     | 70                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 43.3 | 78.6                   | 85.5                                   | 80                                                     | 90                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 57.7 | 96.6                   | 103.5                                  | 100                                                    | 110                                                                     |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 81.8 | 126.8                  | 133.6                                  | 150                                                    | 150                                                                     |
|            | 460-3-60 | 6.4                | 41   | 10  | 1.6                  | 4.7                 | 2.2                 | 20                       | None                 | -    | - | -    | 27.1                   | 29.3                                   | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 10.8 | 27.1                   | 29.3                                   | 30                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 21.7 | 39.3                   | 42                                     | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 28.9 | 48.3                   | 51                                     | 50                                                     | 60                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 40.9 | 63.3                   | 66                                     | 70                                                     | 70                                                                      |
|            | 575-3-60 | 4.6                | 33   | 7   | 1.35                 | 3.2                 | 1.8                 | 20                       | None                 | -    | - | -    | 20.6                   | 22.4                                   | 25                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E09                  | 9    | 1 | 8.7  | 20.6                   | 22.4                                   | 25                                                     | 25                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E18                  | 18   | 2 | 17.3 | 30.6                   | 32.9                                   | 35                                                     | 35                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E24                  | 24   | 2 | 23.1 | 37.9                   | 40.1                                   | 40                                                     | 45                                                                      |
|            |          |                    |      |     |                      |                     |                     |                          | E36                  | 34   | 2 | 32.7 | 49.9                   | 52.1                                   | 50                                                     | 60                                                                      |

**ZB078-150 high static indoor blower - with powered convenience outlet**

| Size<br>(ton) | Volt     | Compressors<br>(each) |      |     | OD fan<br>motors<br>(each) | Supply<br>blower<br>motor | Power<br>exhaust<br>motor | Power<br>convenience<br>outlet | Electric heat option |      |   |       | MCA <sup>1</sup><br>(Amp) | MCA <sup>1</sup><br>w/power<br>exhaust<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup> size<br>(Amp) | Max fuse <sup>2</sup> /<br>breaker <sup>3</sup><br>size w/<br>power<br>exhaust<br>(Amp) |
|---------------|----------|-----------------------|------|-----|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------|------|---|-------|---------------------------|-------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|               |          | RLA                   | LRA  | MCC |                            |                           |                           |                                |                      |      |   |       |                           |                                                 |                                                               |                                                                                         |
| 120<br>(10)   | 208-3-60 | 16.2                  | 110  | 25  | 2.8                        | 9.6                       | 5.5                       | 20                             | None                 | -    | - | -     | 61.4                      | 66.9                                            | 70                                                            | 80                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E18                  | 13.5 | 2 | 37.5  | 71.4                      | 78.3                                            | 80                                                            | 80                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E24                  | 18   | 2 | 50    | 87                        | 93.9                                            | 90                                                            | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E36                  | 25.5 | 2 | 70.8  | 113                       | 119.9                                           | 125                                                           | 125                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E54                  | 40.6 | 2 | 112.7 | 165.4                     | 172.3                                           | 175                                                           | 175                                                                                     |
|               | 230-3-60 | 16.2                  | 110  | 25  | 2.8                        | 9.6                       | 5.5                       | 20                             | None                 | -    | - | -     | 61.4                      | 66.9                                            | 70                                                            | 80                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E18                  | 18   | 2 | 43.3  | 78.6                      | 85.5                                            | 80                                                            | 90                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E24                  | 24   | 2 | 57.7  | 96.6                      | 103.5                                           | 100                                                           | 110                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E36                  | 34   | 2 | 81.8  | 126.8                     | 133.6                                           | 150                                                           | 150                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E54                  | 54   | 2 | 129.9 | 154.4                     | 161.3                                           | 175                                                           | 175                                                                                     |
|               | 460-3-60 | 7.6                   | 52   | 12  | 1.6                        | 4.7                       | 2.2                       | 20                             | None                 | -    | - | -     | 29.5                      | 31.7                                            | 35                                                            | 35                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E18                  | 18   | 2 | 21.7  | 39.3                      | 42                                              | 40                                                            | 45                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E24                  | 24   | 2 | 28.9  | 48.3                      | 51                                              | 50                                                            | 60                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E36                  | 34   | 2 | 40.9  | 63.3                      | 66                                              | 70                                                            | 70                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E54                  | 54   | 2 | 65    | 77.1                      | 79.9                                            | 90                                                            | 90                                                                                      |
|               | 575-3-60 | 5.1                   | 43.8 | 8   | 1.35                       | 3.2                       | 1.8                       | 20                             | None                 | -    | - | -     | 21.4                      | 23.2                                            | 25                                                            | 25                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E18                  | 18   | 2 | 17.3  | 30.6                      | 32.9                                            | 35                                                            | 35                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E24                  | 24   | 2 | 23.1  | 37.9                      | 40.1                                            | 40                                                            | 45                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E36                  | 34   | 2 | 32.7  | 49.9                      | 52.1                                            | 50                                                            | 60                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E54                  | 54   | 2 | 52    | 61                        | 63.3                                            | 70                                                            | 70                                                                                      |
| 150<br>(12.5) | 208-3-60 | 18.6                  | 149  | 29  | 2.1                        | 14                        | 5.5                       | 20                             | None                 | -    | - | -     | 79                        | 84.5                                            | 100                                                           | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E18                  | 13.5 | 2 | 37.5  | 79                        | 84.5                                            | 100                                                           | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E24                  | 18   | 2 | 50    | 92.5                      | 99.4                                            | 100                                                           | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E36                  | 25.5 | 2 | 70.8  | 118.5                     | 125.4                                           | 125                                                           | 150                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E54                  | 40.6 | 2 | 112.7 | 170.9                     | 177.8                                           | 175                                                           | 200                                                                                     |
|               | 230-3-60 | 18.6                  | 149  | 29  | 2.1                        | 14                        | 5.5                       | 20                             | None                 | -    | - | -     | 79                        | 84.5                                            | 100                                                           | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E18                  | 18   | 2 | 43.3  | 84.1                      | 91                                              | 100                                                           | 100                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E24                  | 24   | 2 | 57.7  | 102.1                     | 109                                             | 110                                                           | 110                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E36                  | 34   | 2 | 81.8  | 132.3                     | 139.1                                           | 150                                                           | 150                                                                                     |
|               |          |                       |      |     |                            |                           |                           |                                | E54                  | 54   | 2 | 129.9 | 159.9                     | 166.8                                           | 175                                                           | 175                                                                                     |
|               | 460-3-60 | 9                     | 60.9 | 14  | 1.26                       | 6.6                       | 2.2                       | 20                             | None                 | -    | - | -     | 38.9                      | 41.1                                            | 45                                                            | 50                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E18                  | 18   | 2 | 21.7  | 41.6                      | 44.4                                            | 45                                                            | 50                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E24                  | 24   | 2 | 28.9  | 50.6                      | 53.4                                            | 60                                                            | 60                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E36                  | 34   | 2 | 40.9  | 65.6                      | 68.4                                            | 70                                                            | 70                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E54                  | 54   | 2 | 65    | 79.5                      | 82.3                                            | 90                                                            | 90                                                                                      |
|               | 575-3-60 | 7.1                   | 56   | 11  | 0.66                       | 5.2                       | 1.8                       | 20                             | None                 | -    | - | -     | 28.5                      | 30.3                                            | 35                                                            | 35                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E18                  | 18   | 2 | 17.3  | 33.1                      | 35.4                                            | 35                                                            | 40                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E24                  | 24   | 2 | 23.1  | 40.4                      | 42.6                                            | 45                                                            | 45                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E36                  | 34   | 2 | 32.7  | 52.4                      | 54.6                                            | 60                                                            | 60                                                                                      |
|               |          |                       |      |     |                            |                           |                           |                                | E54                  | 54   | 2 | 52    | 63.5                      | 65.8                                            | 70                                                            | 70                                                                                      |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

**Electric heat multipliers**

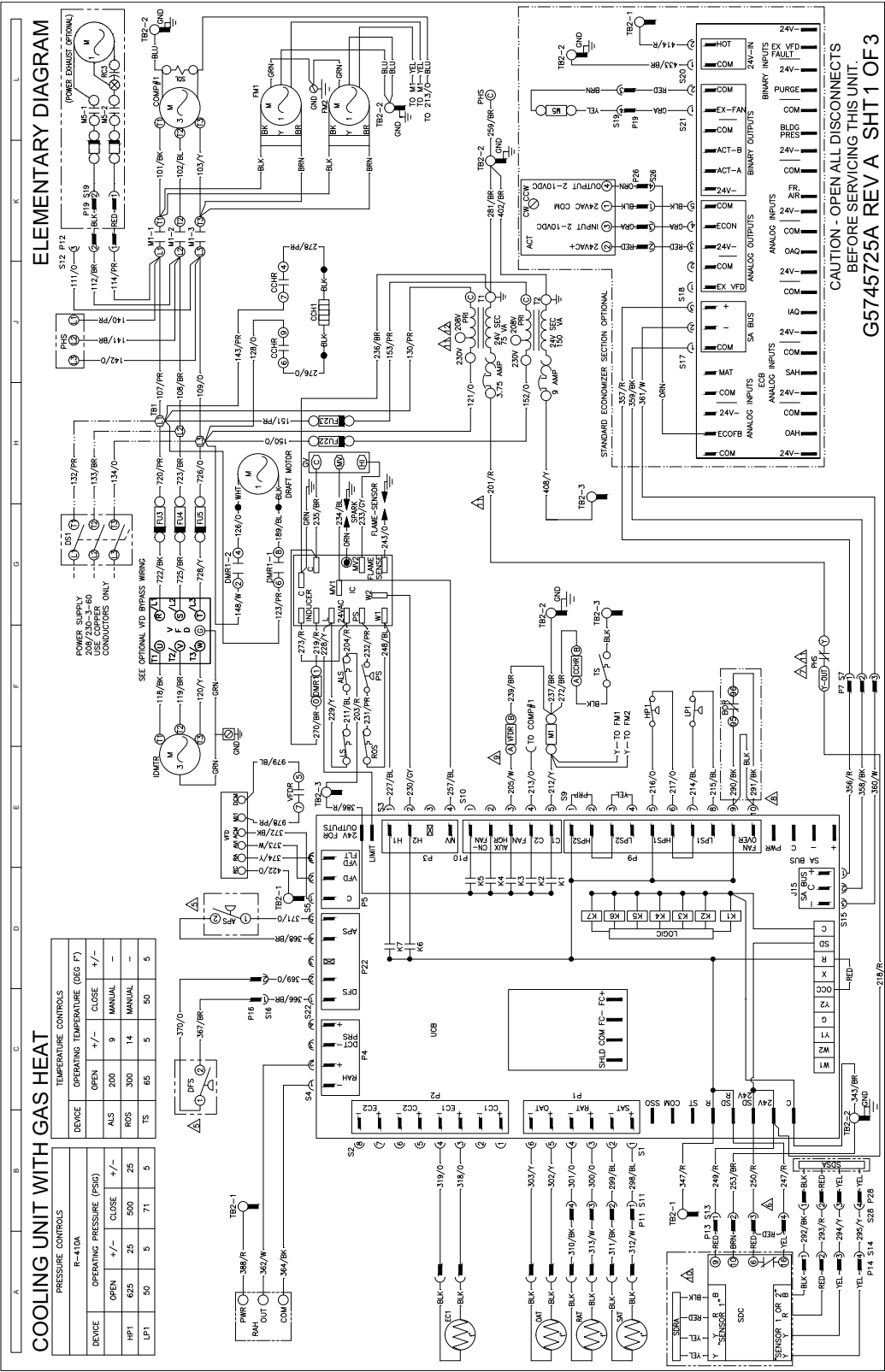
| Voltage |         | kW capacity multipliers <sup>1</sup> |
|---------|---------|--------------------------------------|
| Nominal | Applied |                                      |
| 240     | 208     | 0.75                                 |
|         | 230     | 0.92                                 |
| 480     | 460     | 0.92                                 |
| 600     | 575     | 0.92                                 |

1. Electric heaters are rated at nominal voltage. Use this table to determine the electric heat capacity for heaters applied at lower voltages.

# Typical wiring diagrams

## ZT037-150 typical wiring diagrams

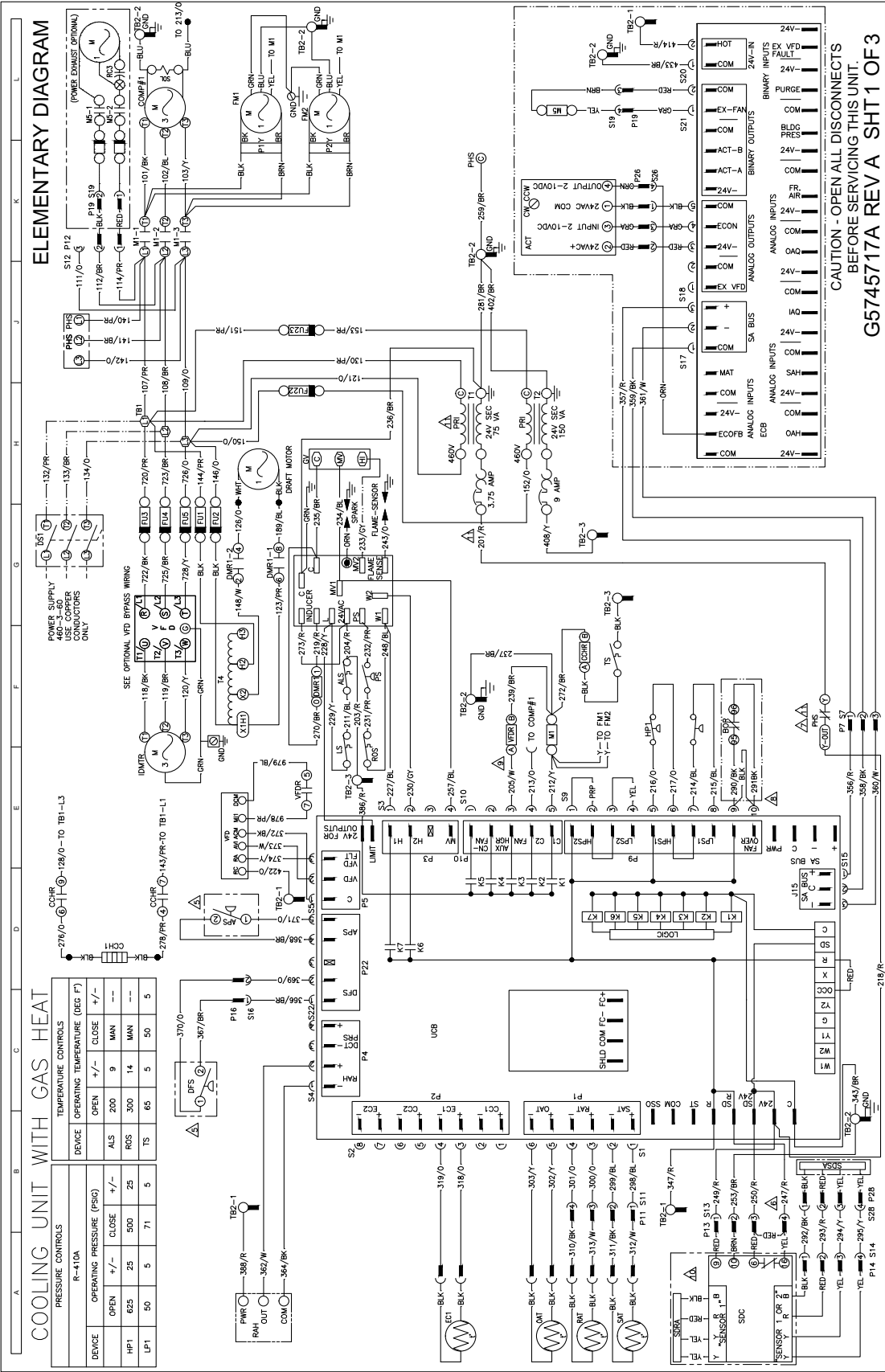
### Typical ZT037-061 cooling unit with gas heat 208/230 volt wiring diagram



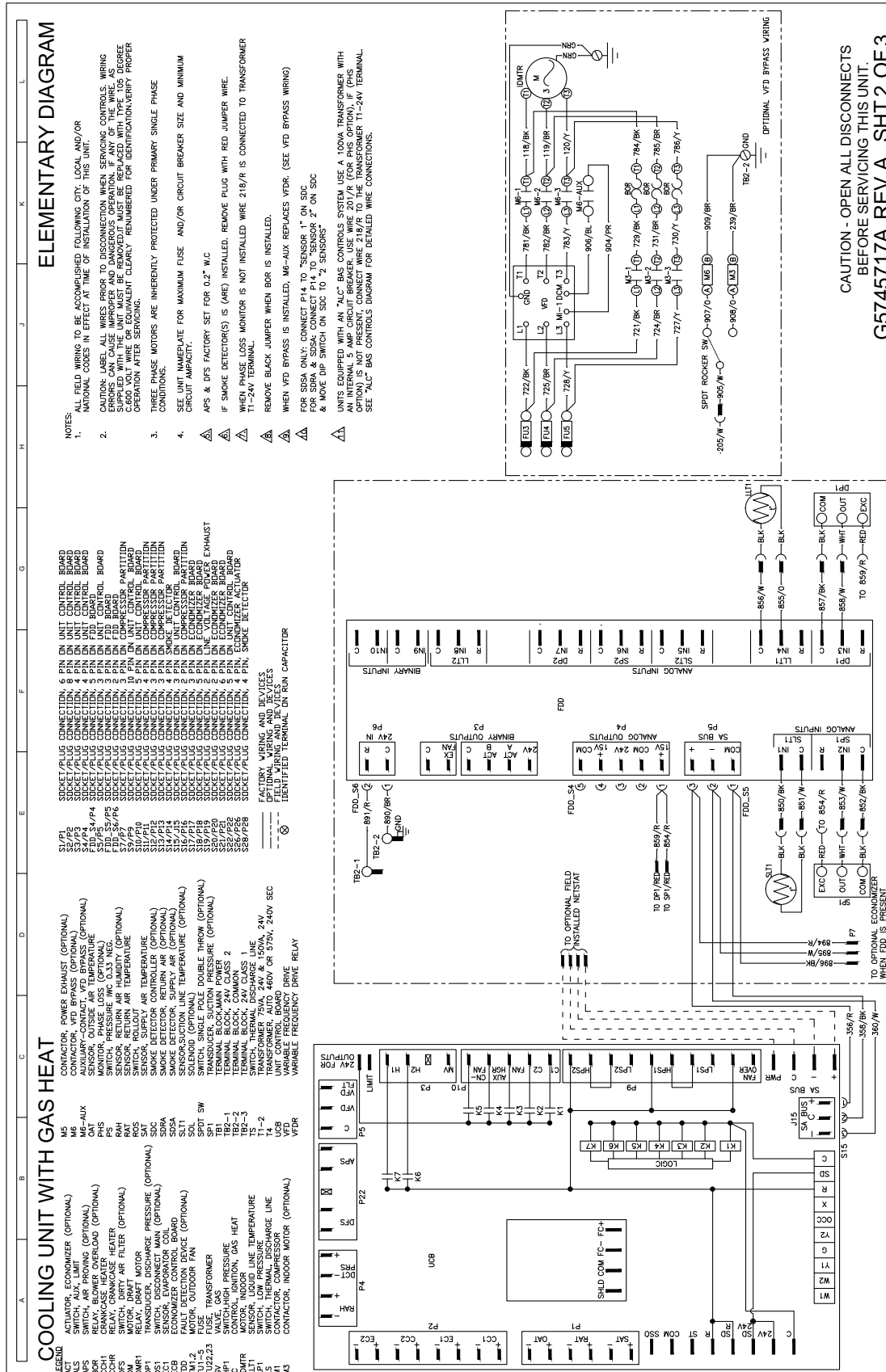




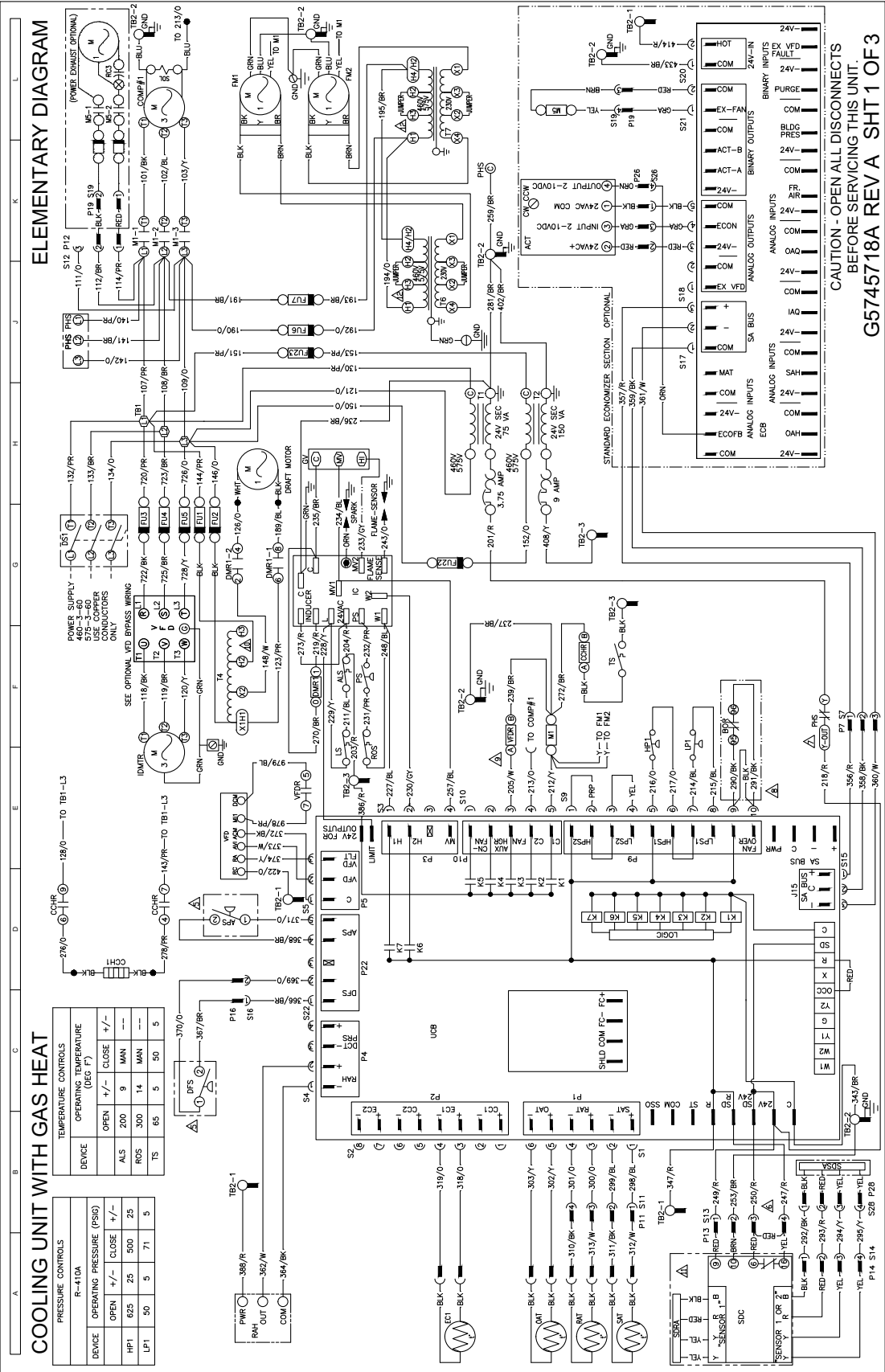
Typical ZT037 cooling unit with gas heat 460 volt wiring diagram



## Typical ZT037 cooling unit with gas heat 460 volt unit (options)



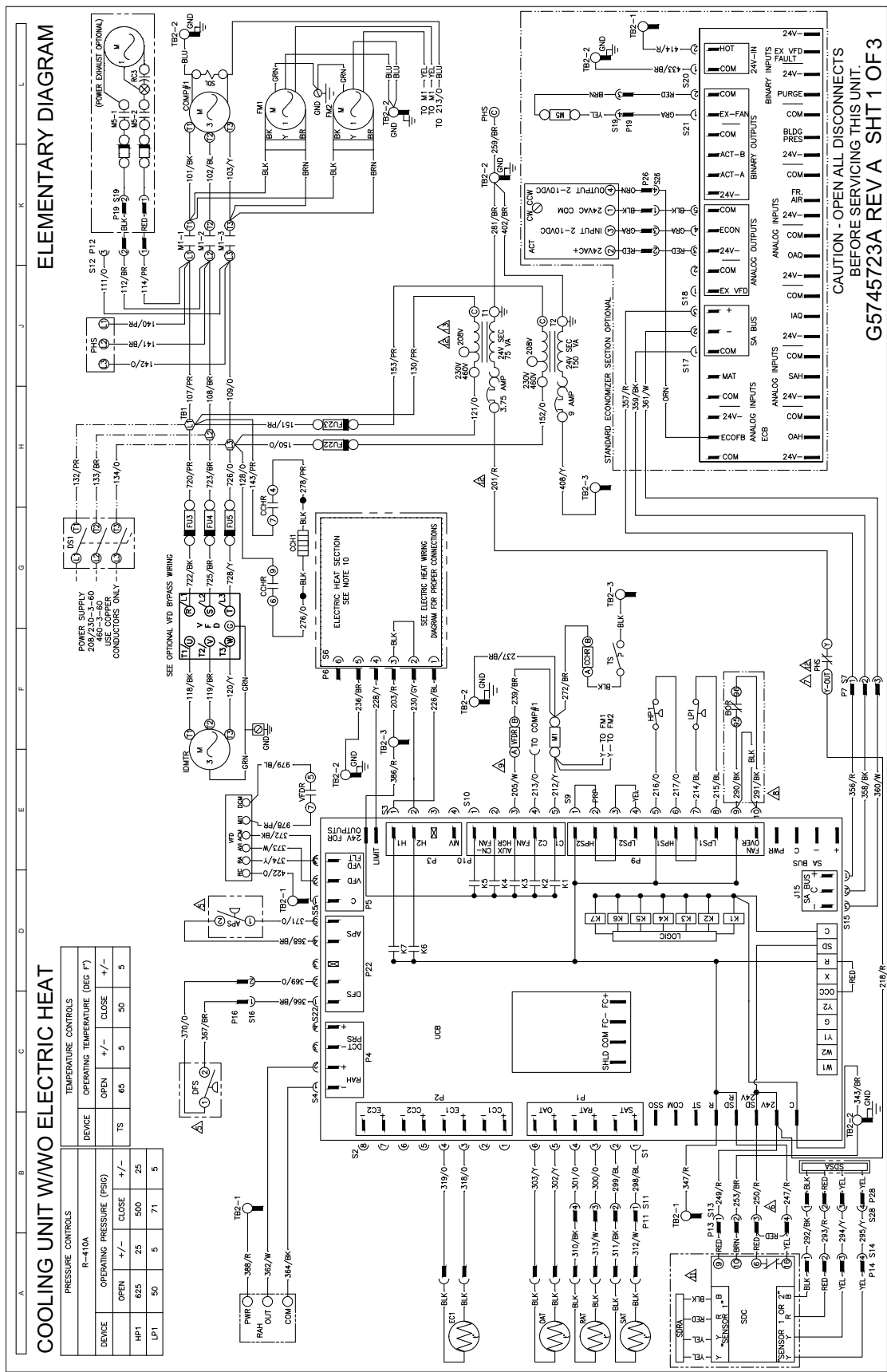
Typical ZT049-061 cooling unit with gas heat 460/575 volt unit



Typical ZT049-061 cooling unit with gas heat 460/575 volt unit (options)



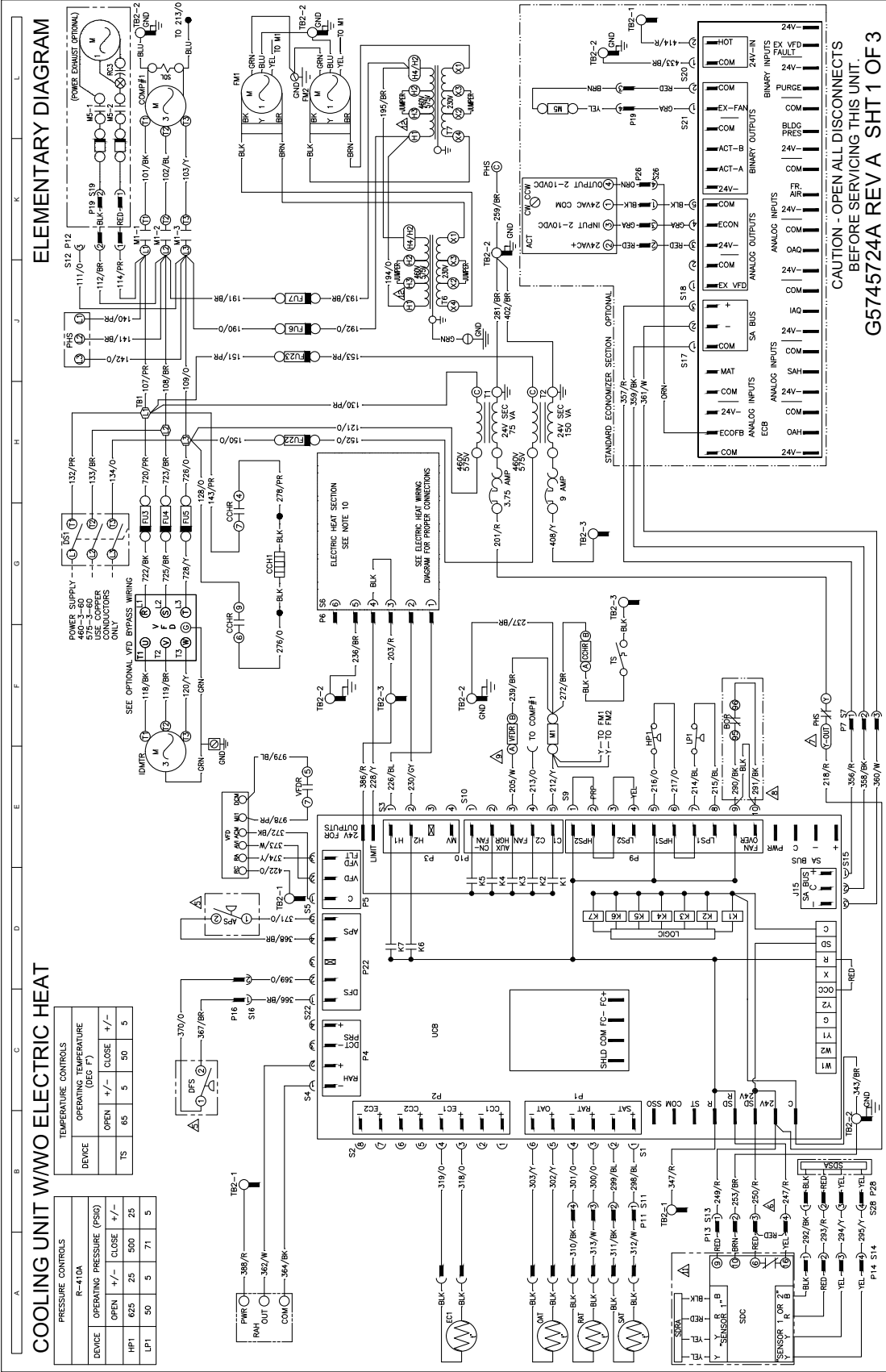
Typical ZT037-061 cooling unit with/without electric heat 208/230/480 volt wiring diagram



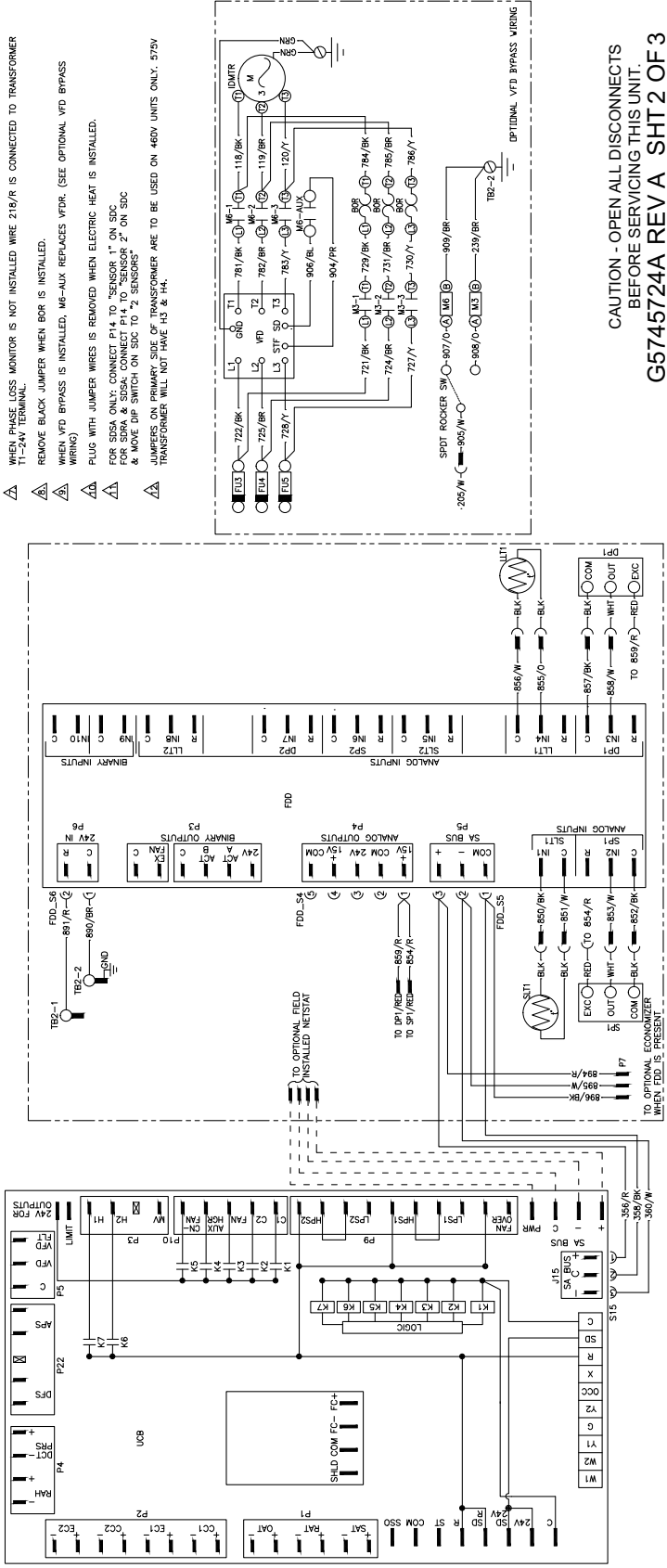




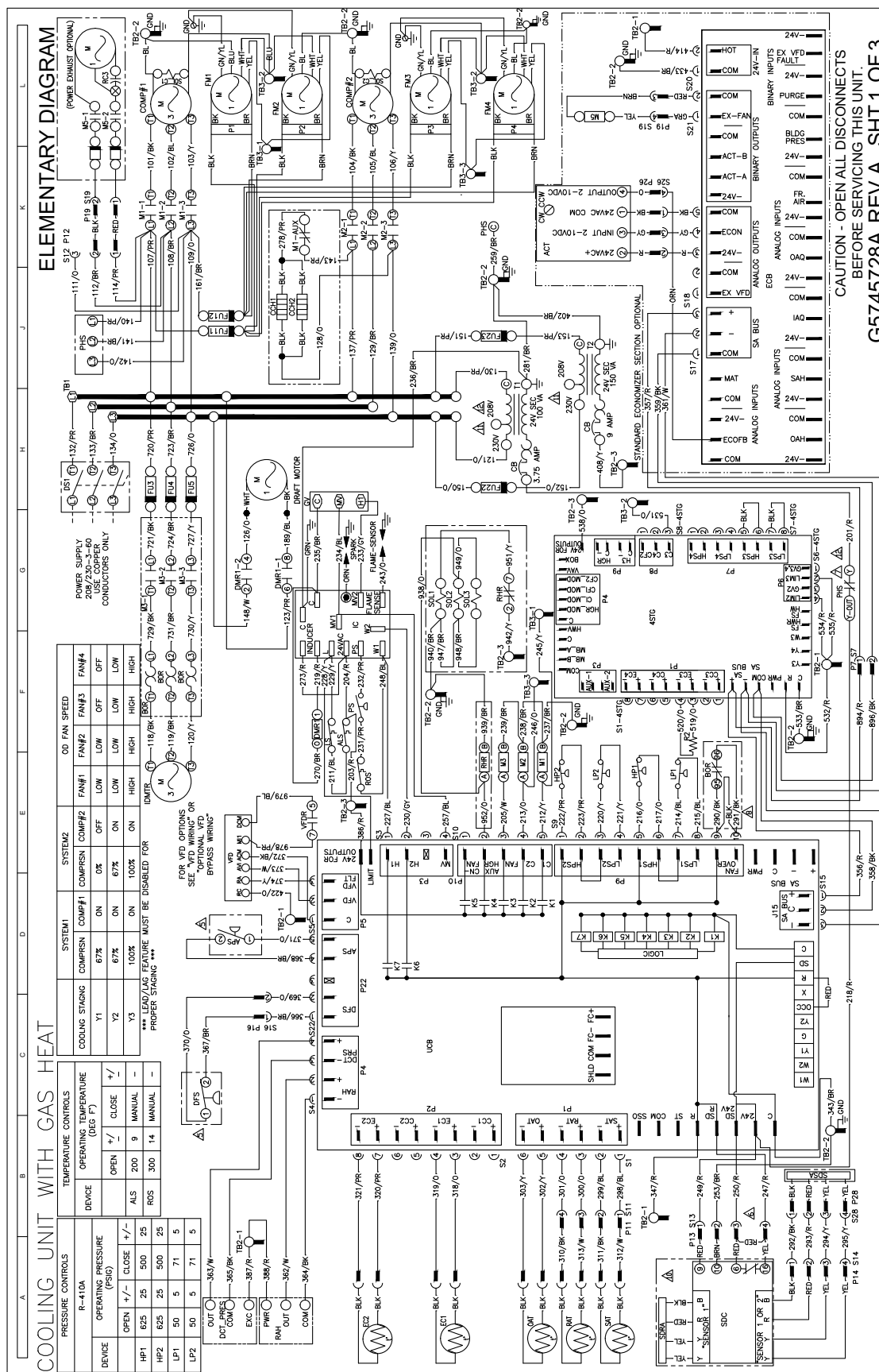
Typical ZT037-061 cooling unit with/without electric heat 460/575 volt wiring diagram



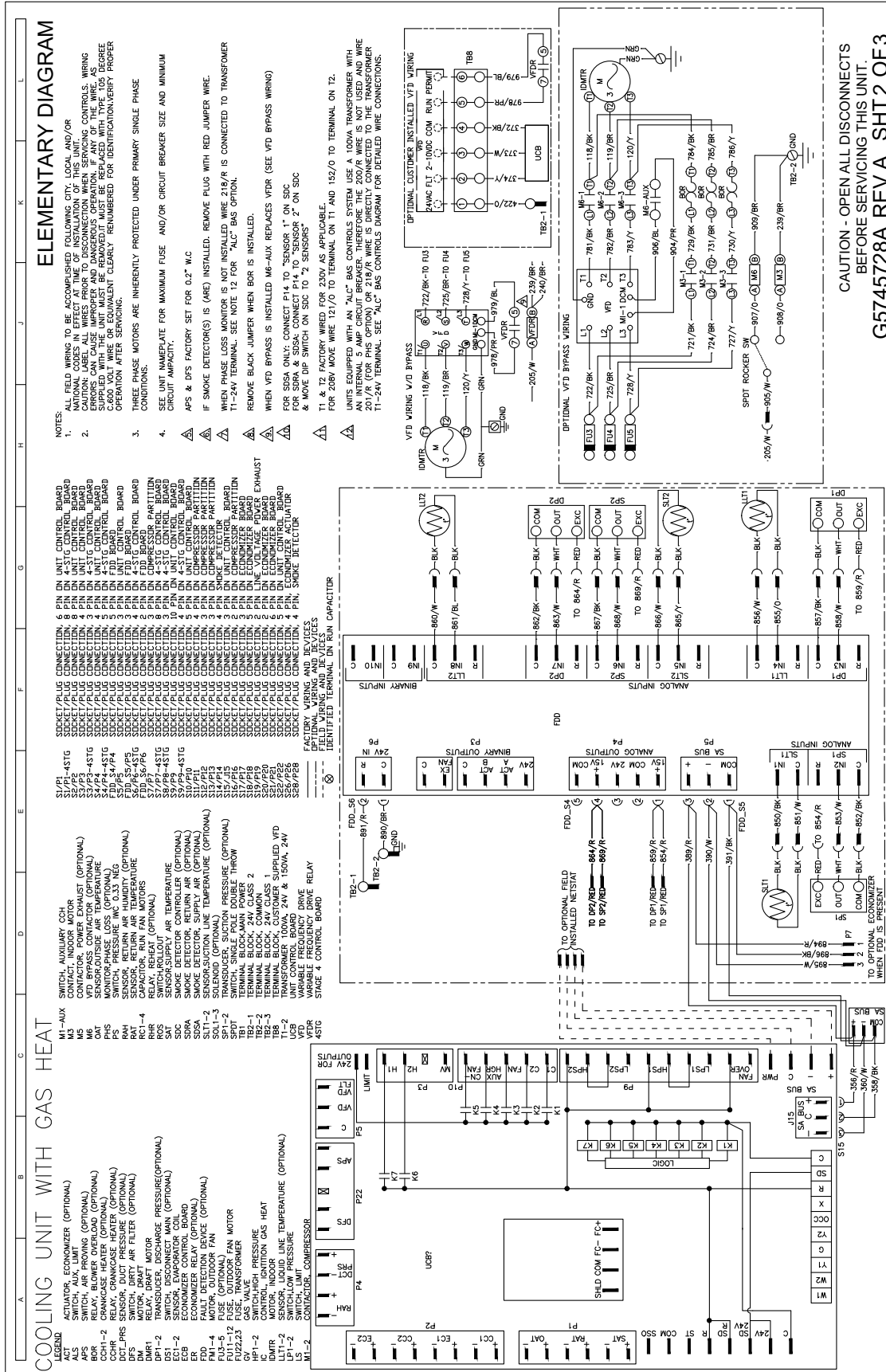




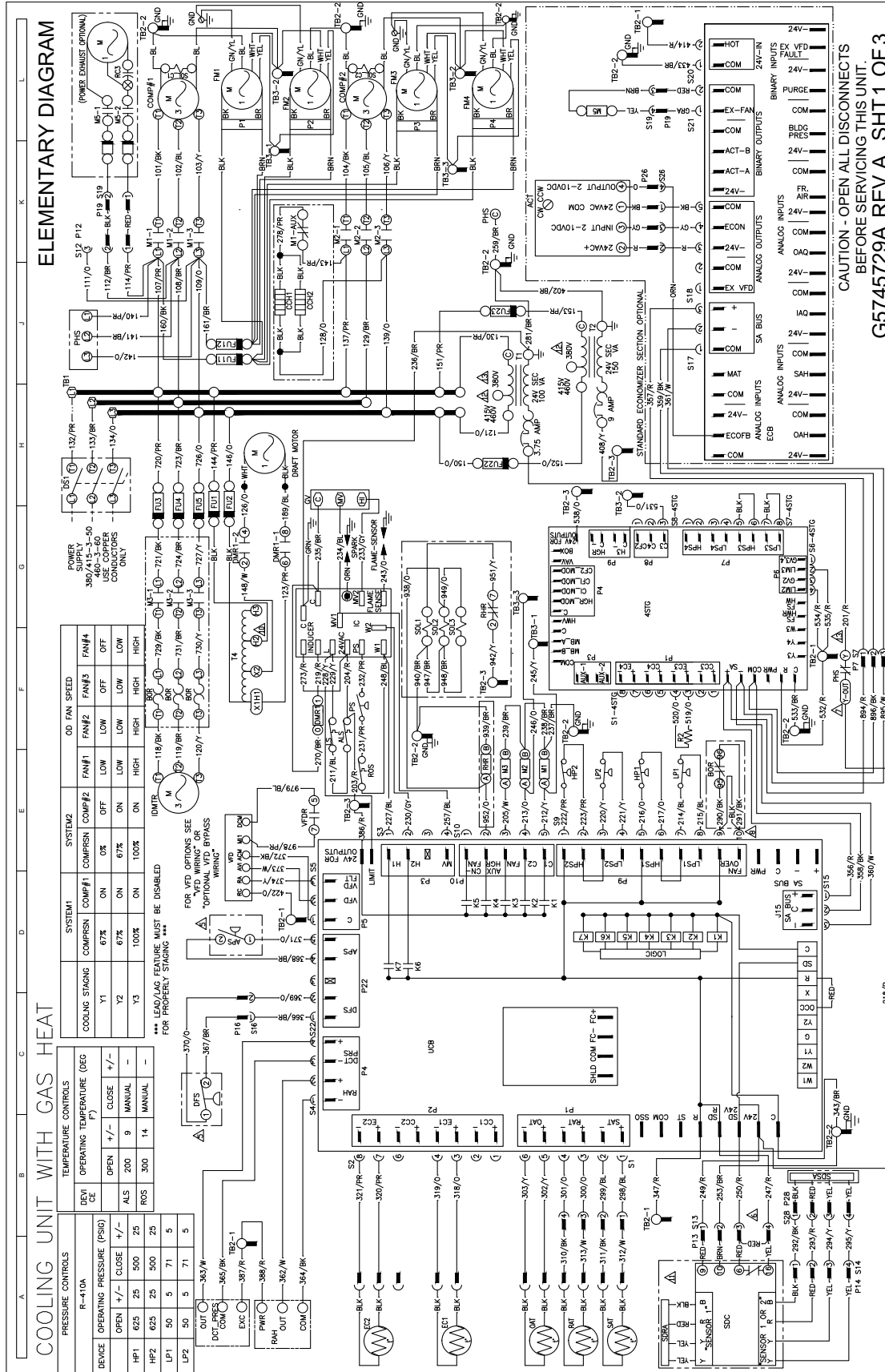
## Johnson Controls Ducted Systems



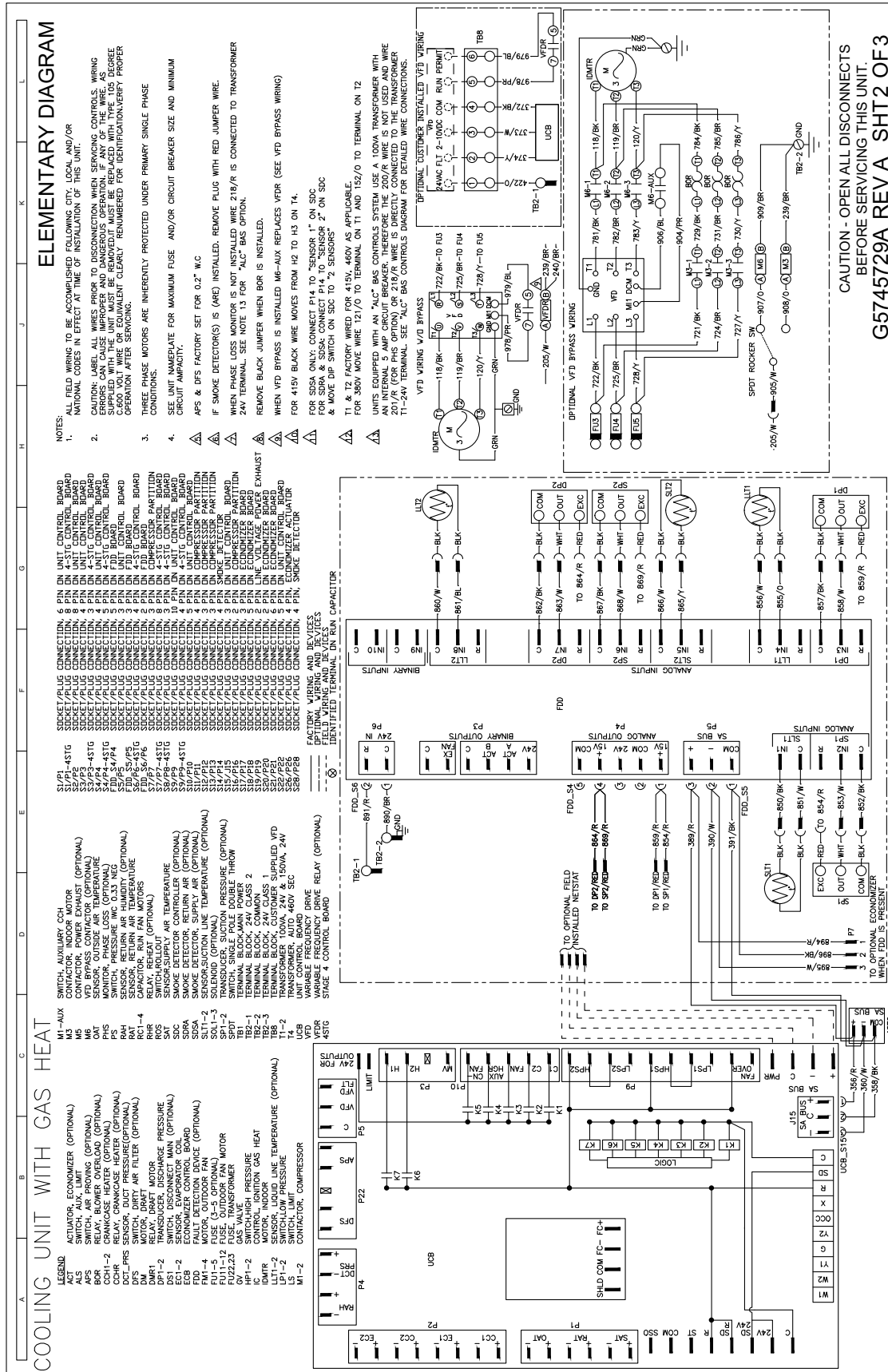
## Typical ZT078-150 cooling unit with gas heat 208/230 volt unit (options)



Typical ZT078-150 cooling unit with gas heat 460 volt wiring diagram

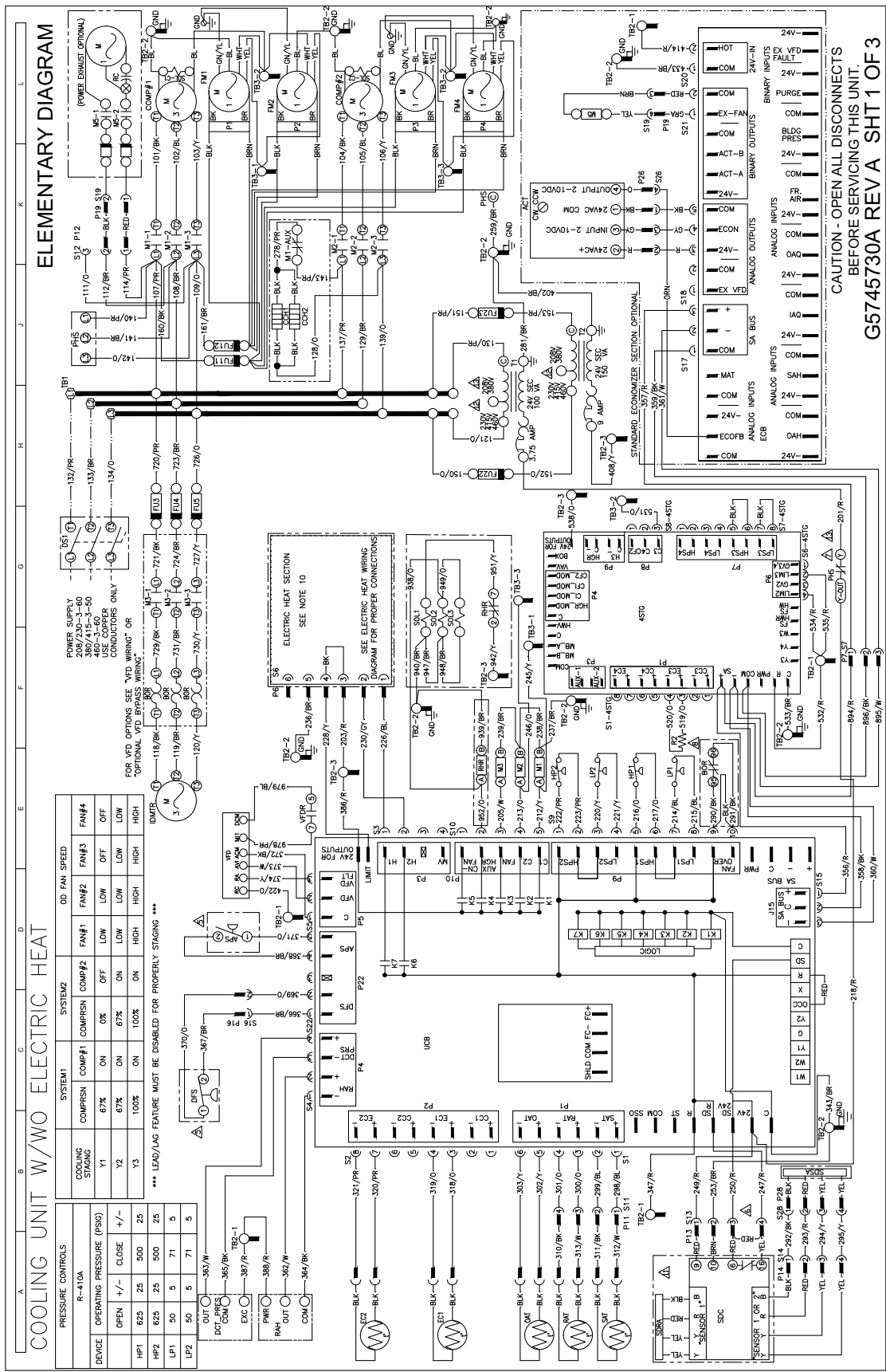


**Typical ZT078-150 cooling unit with gas heat 460 volt unit (options)**

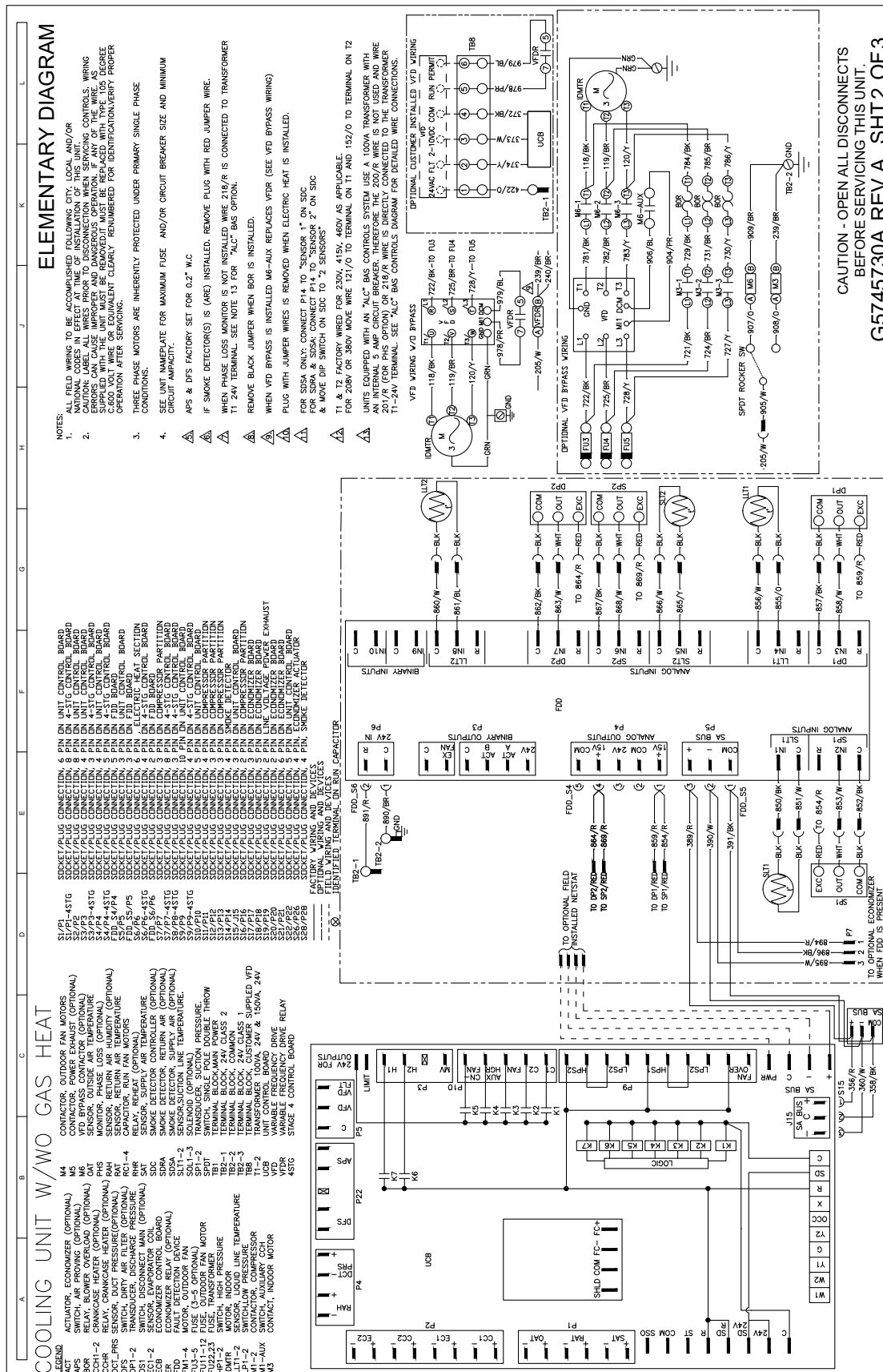




Typical ZT078-150 cooling unit with/without electric heat wiring diagram



### Typical ZT078-150 cooling unit with/without electric heat unit (options)



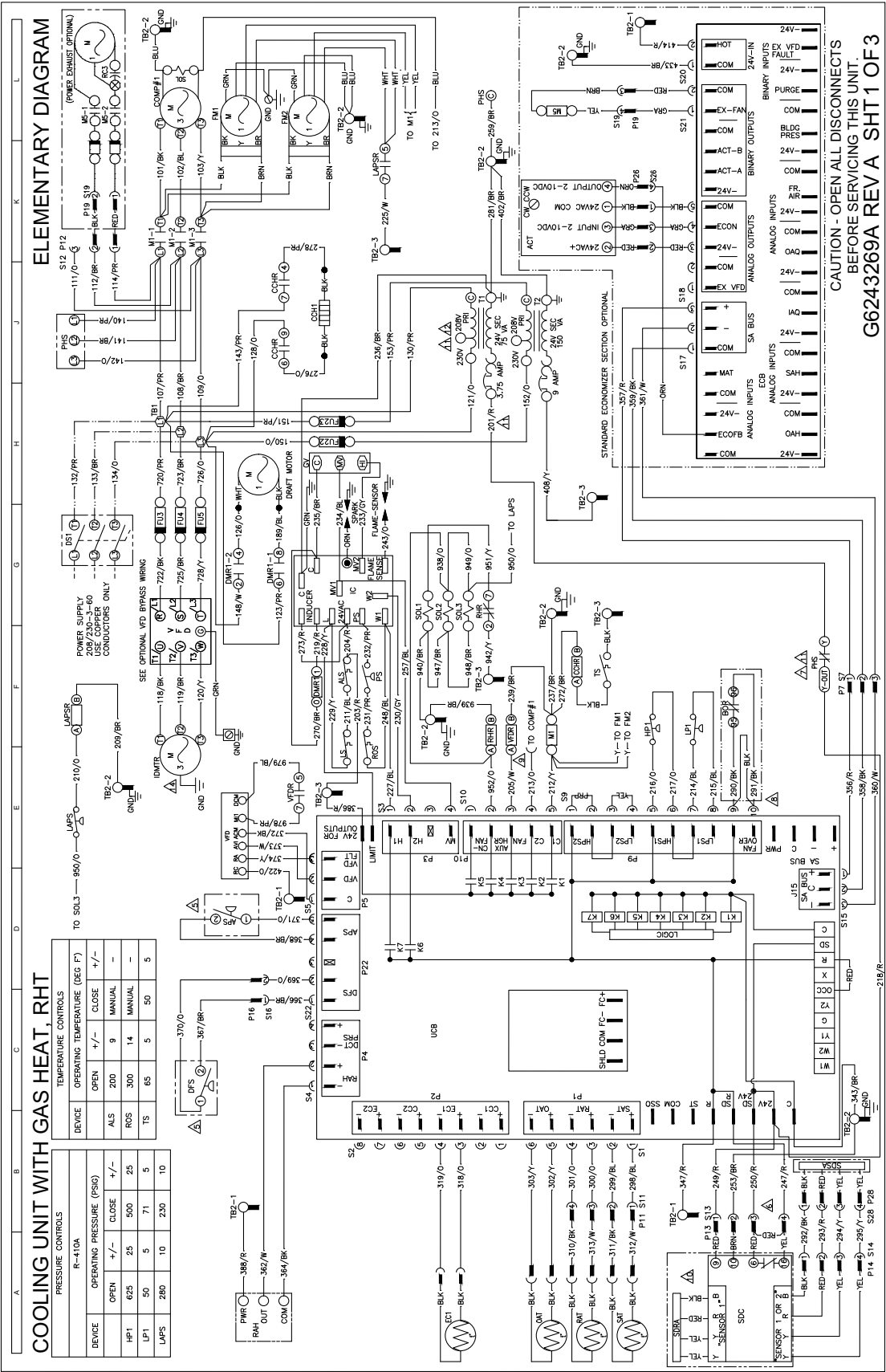
CAUTION - OPEN ALL DISCONNECTS  
BEFORE SERVICING THIS UNIT.  
G5745730A REV A SHT 2 OF 3



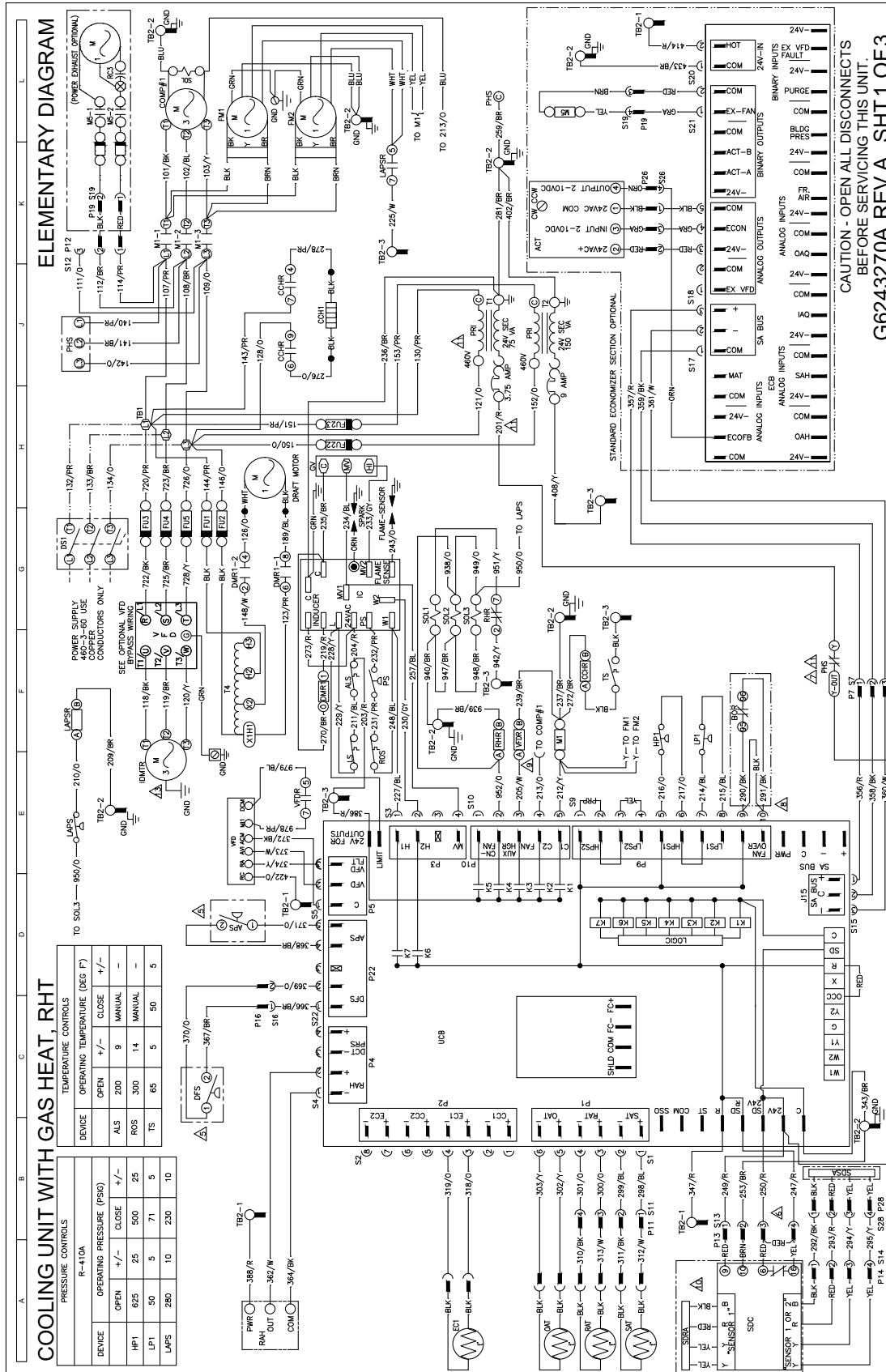




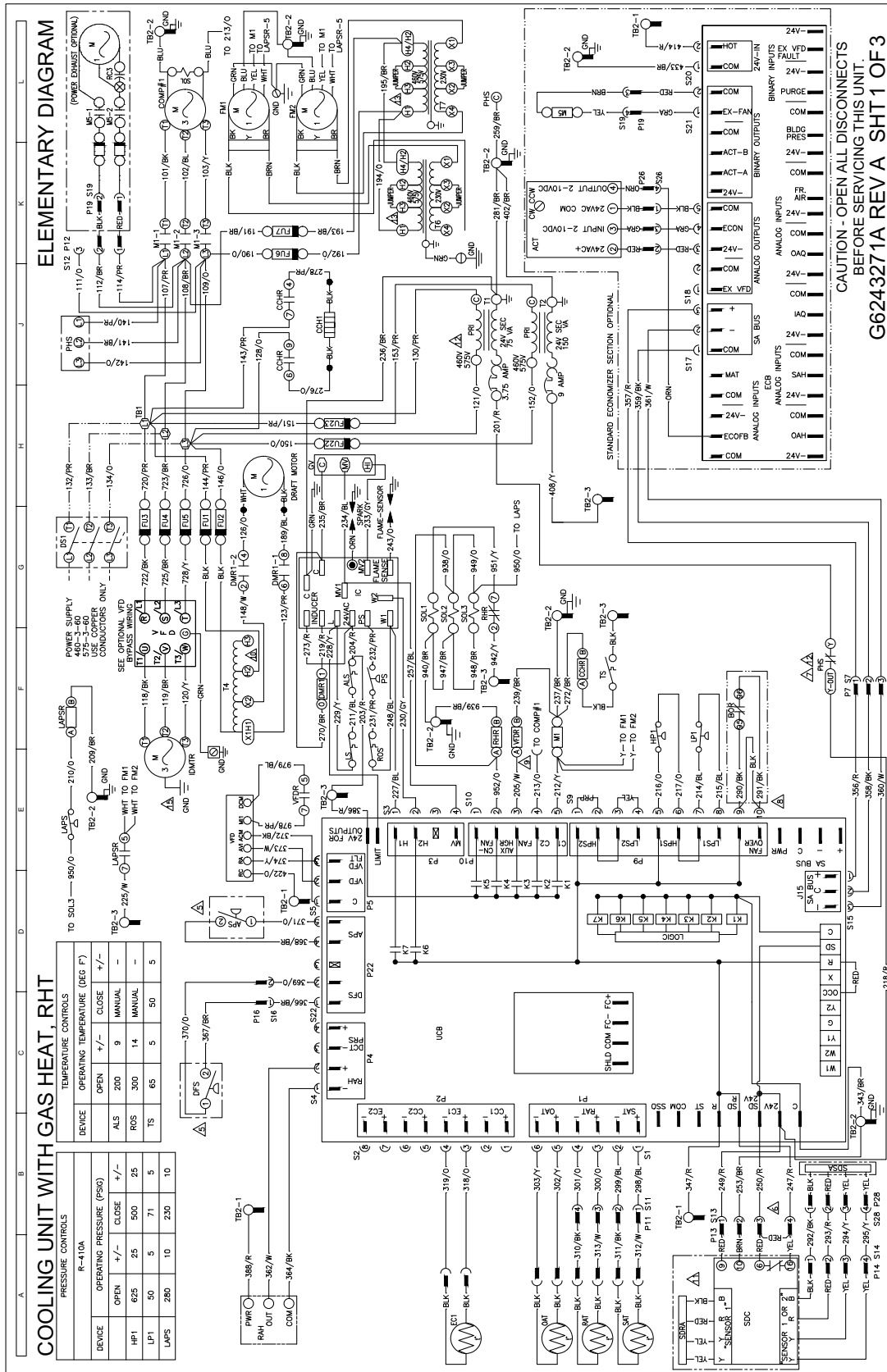
Typical ZT037-061 cooling unit with gas heat with reheat 208/230 volt wiring diagram



## Typical ZT037 460 volt cooling unit with gas heat with reheat wiring diagram

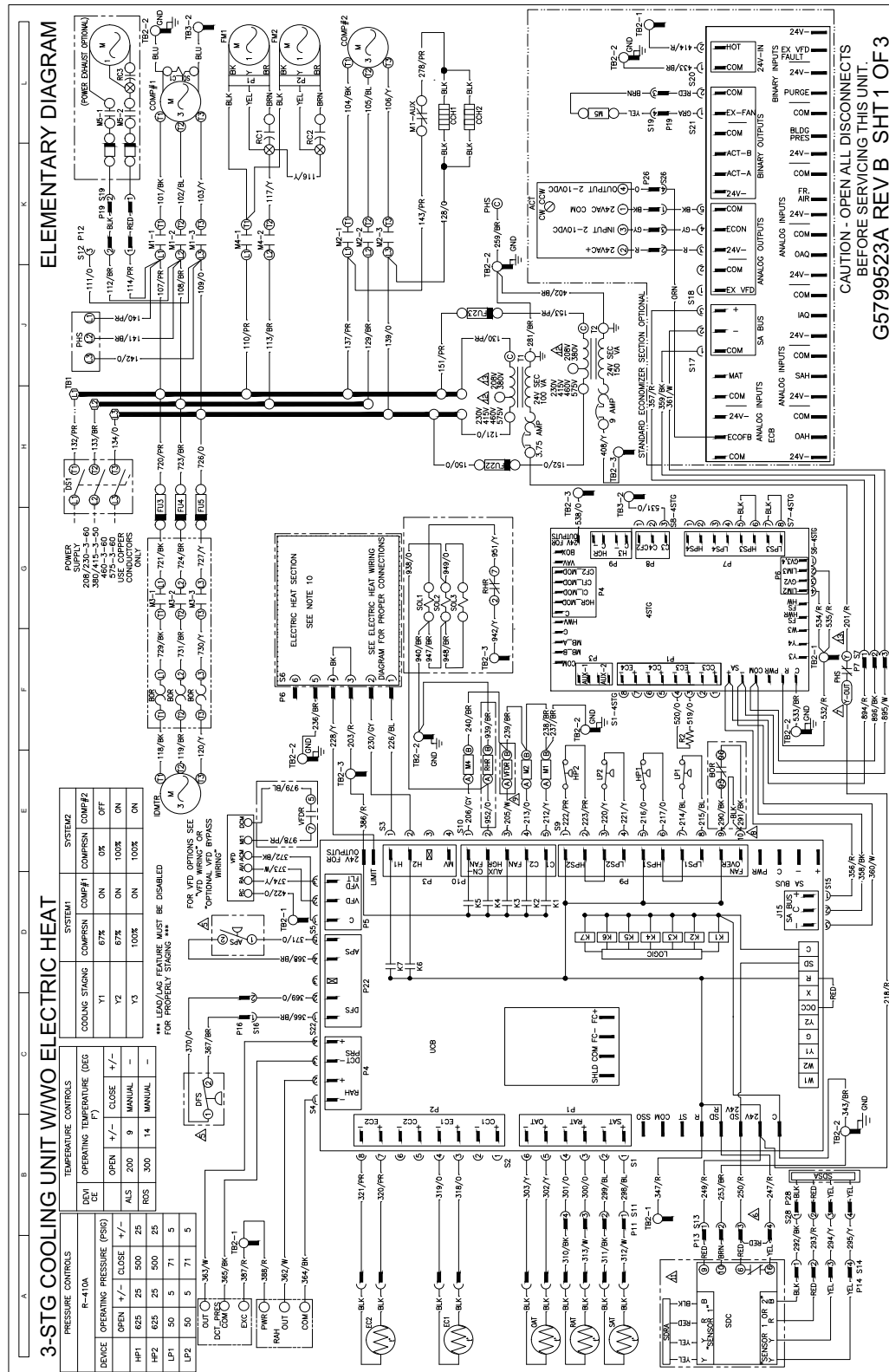


Typical ZT049-061 460/575 volt, ZT037 575 volt cooling unit with gas heat with reheat wiring diagram

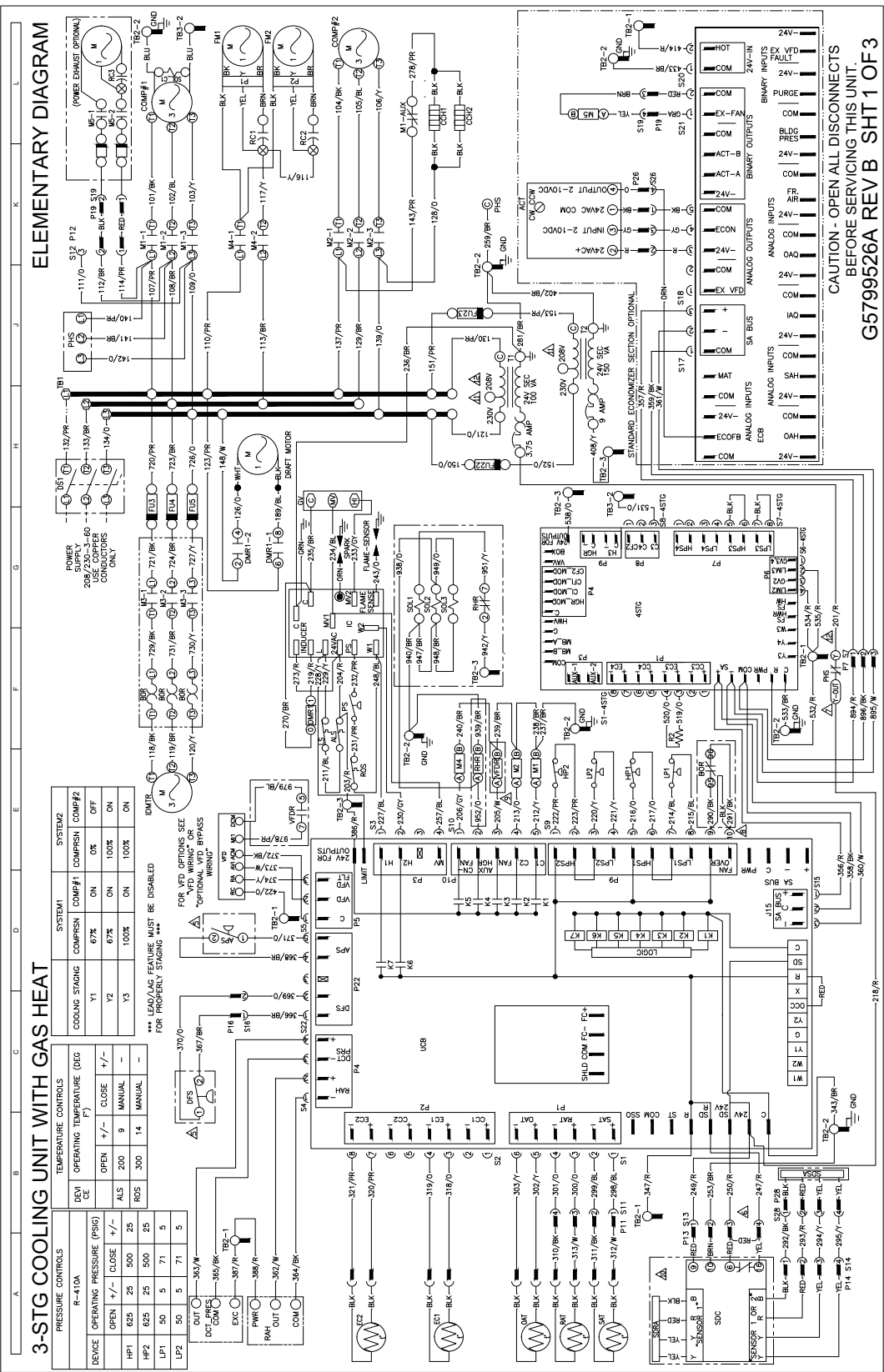


## ZB078-150 typical wiring diagrams

## Typical ZB078-120 3-stage cooling unit with/without electric heat wiring diagram

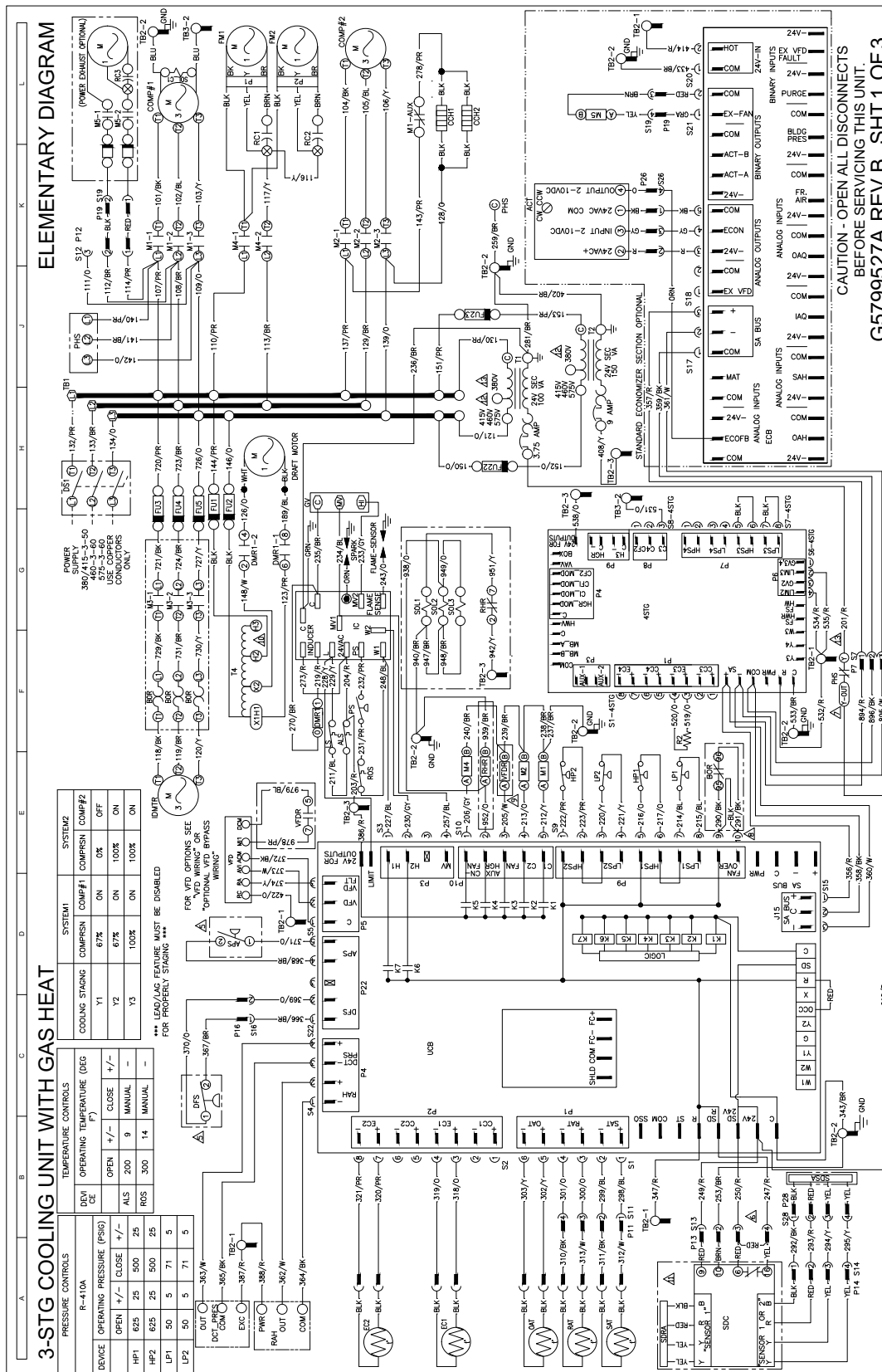


Typical ZB078-120 3-stage cooling 208/230-3-60 volt unit with gas heat wiring diagram

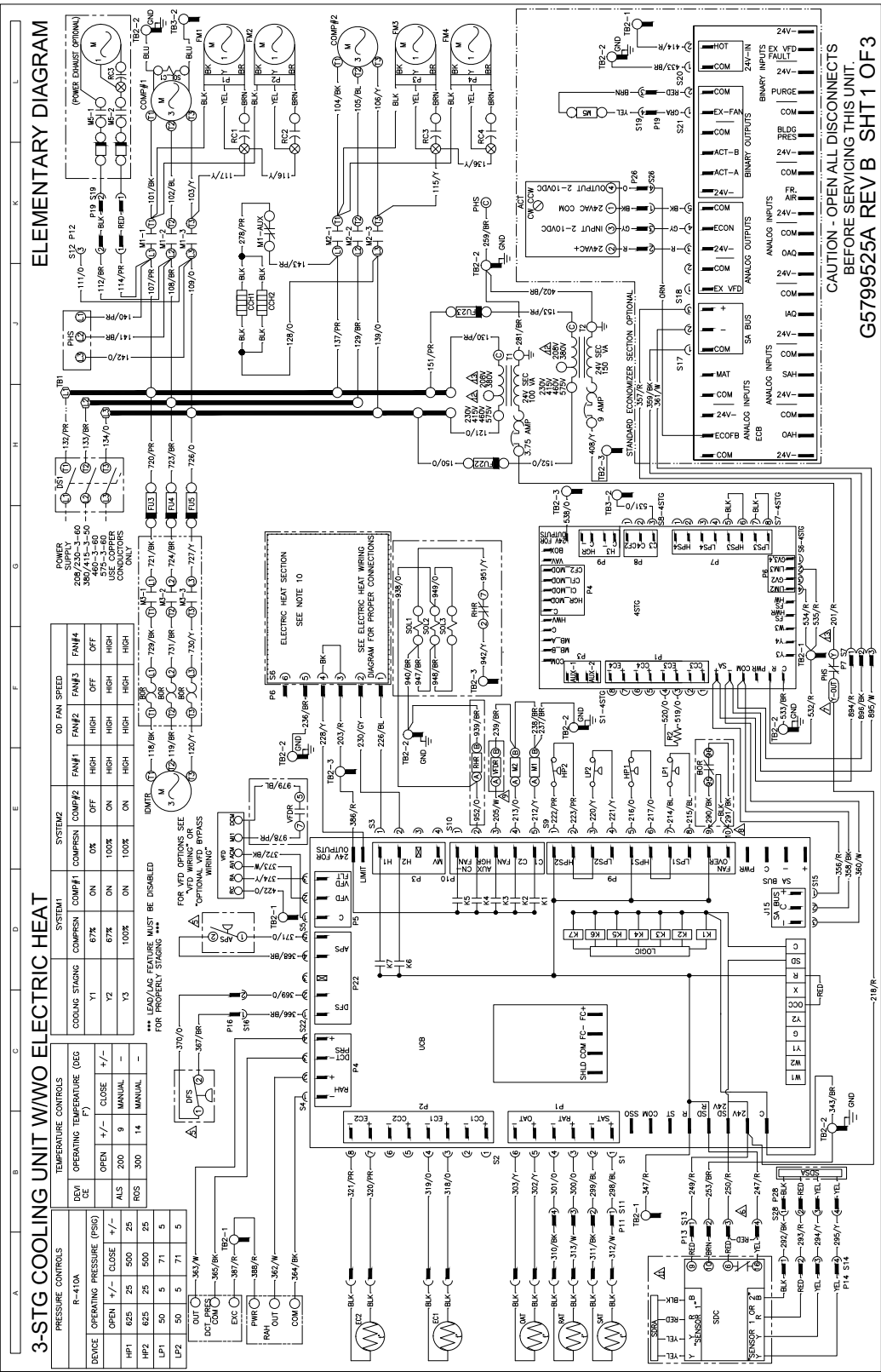




Typical ZB078-120 3-stage cooling 380/415-3-50, 460-3-60 and 575-3-60 volt units with gas heat wiring diagram

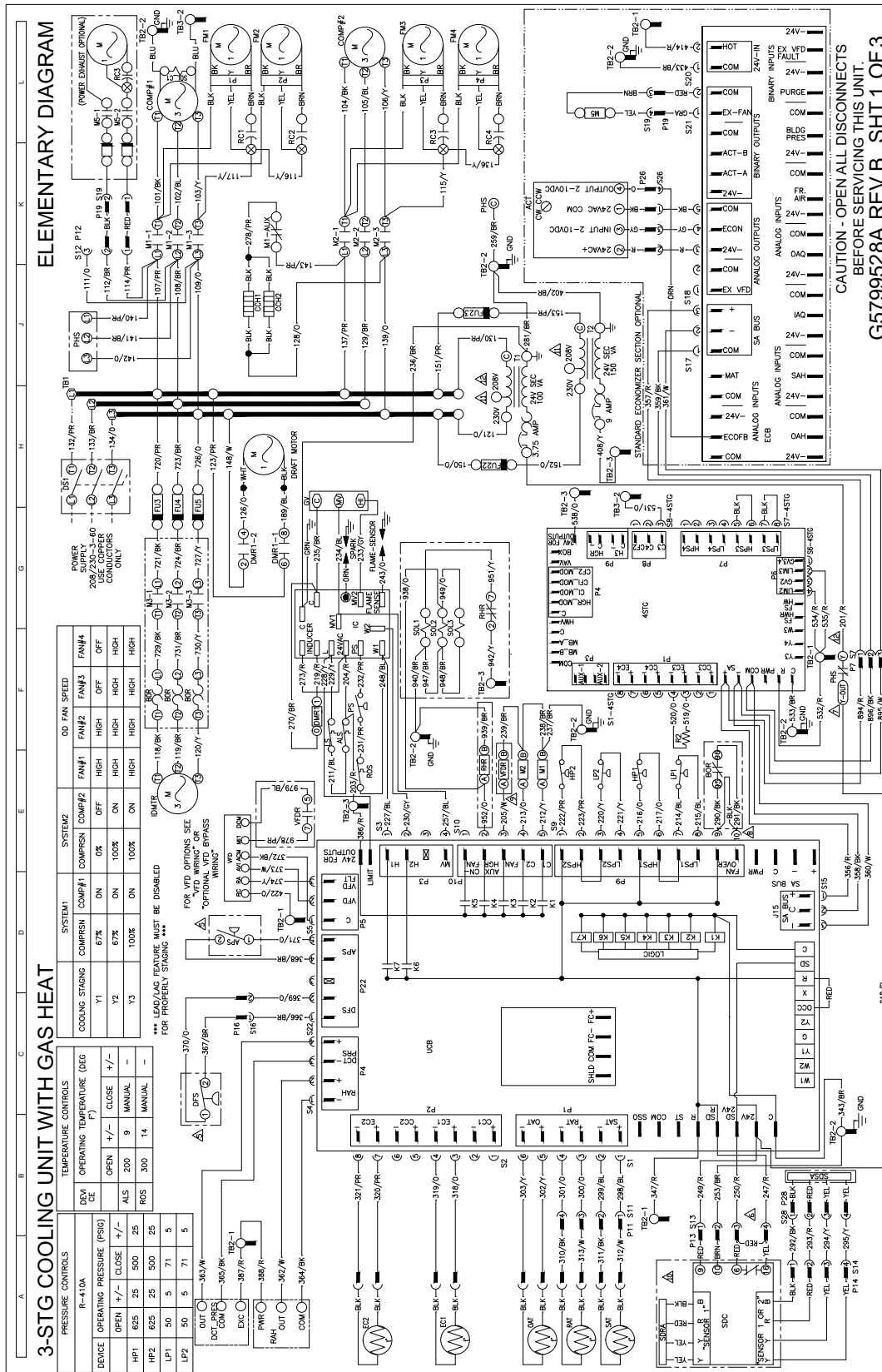


Typical ZB150 3-stage cooling unit with/without electric heat wiring diagram

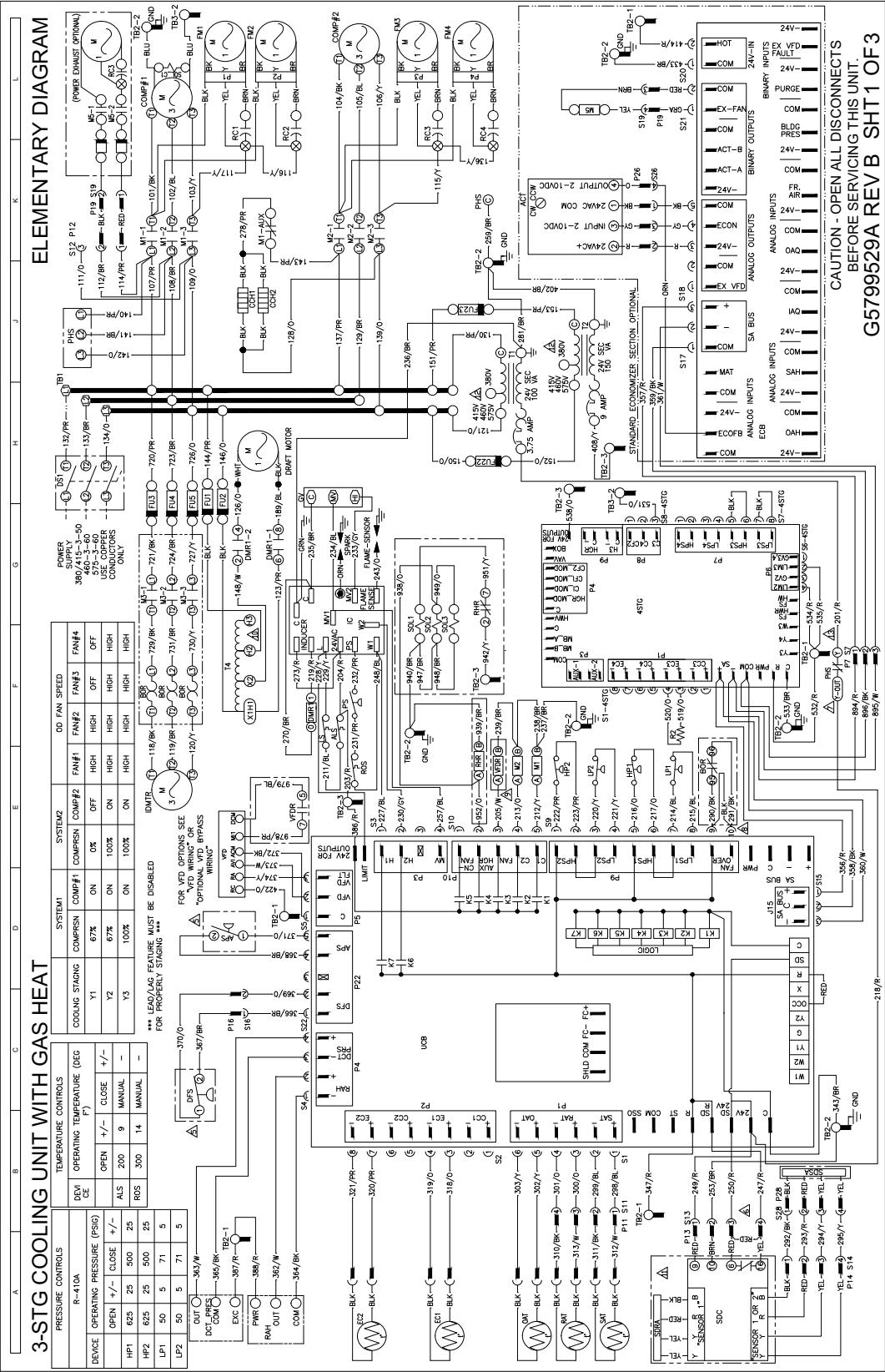




# Typical ZB150 3-stage cooling 208/230-3-60 volt unit with gas heat wiring diagram

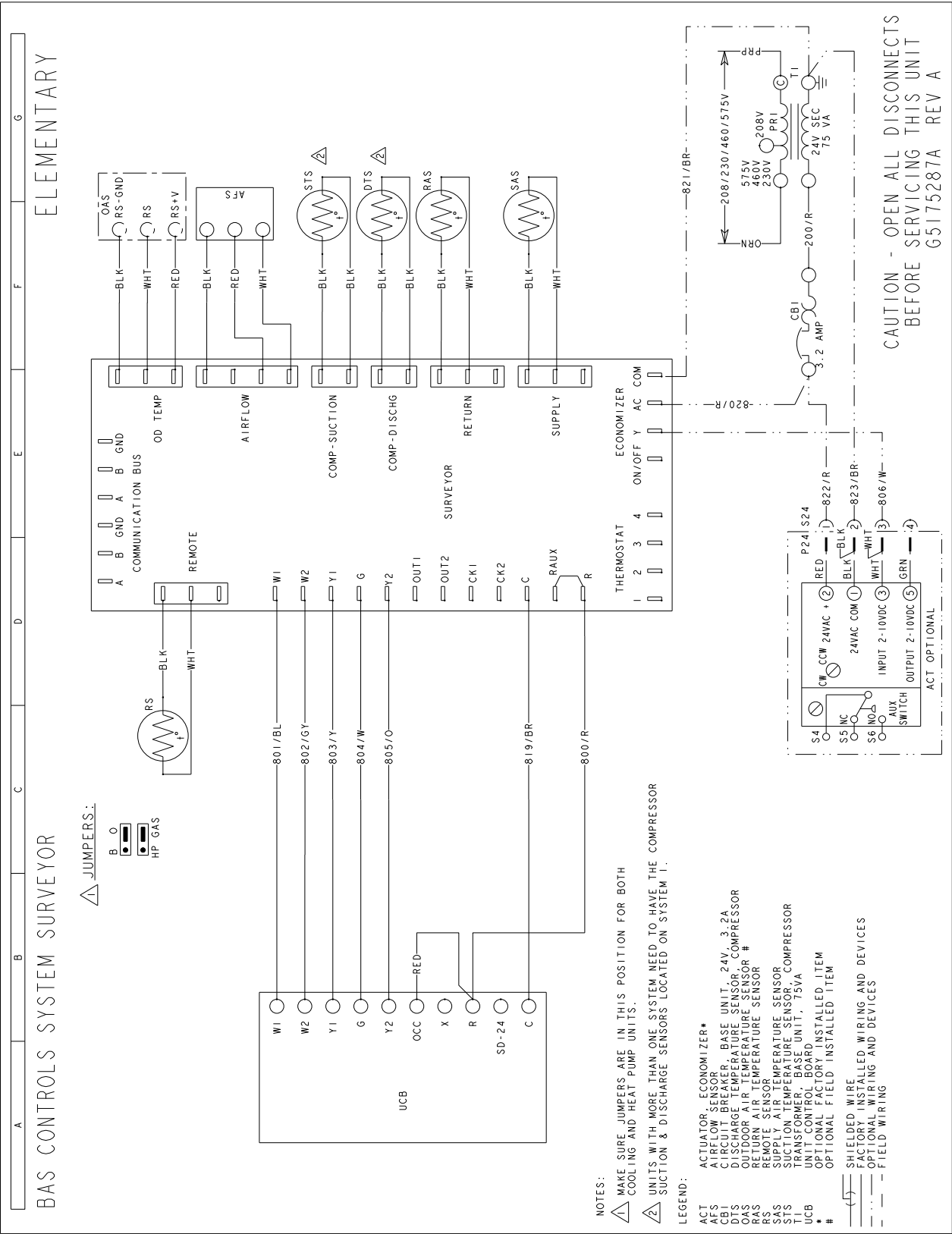


Typical ZB150 3-stage cooling 380/415-3-50, 460-3-60 and 575-3-60 volt units with gas heat wiring diagram

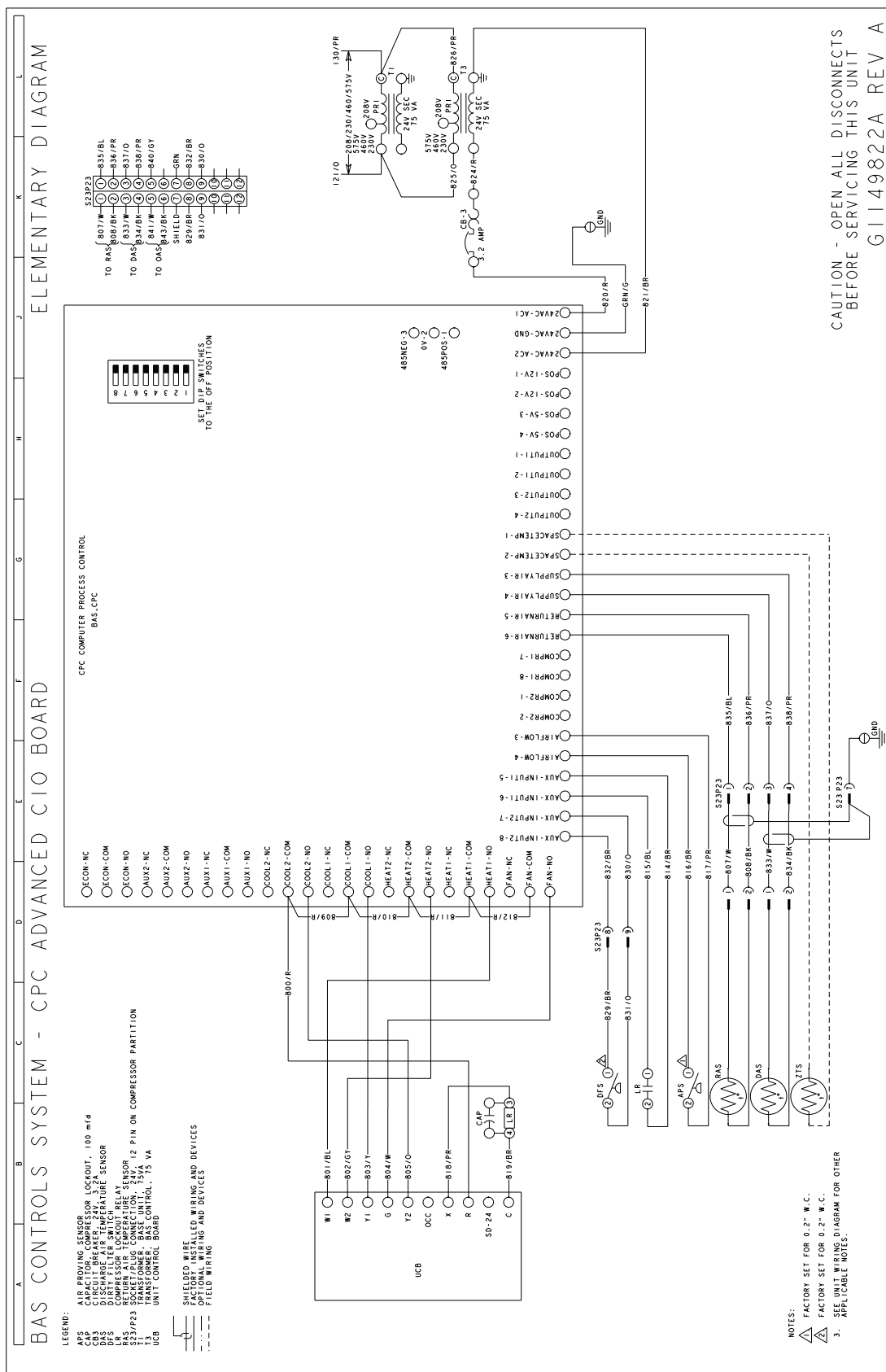


BAS controls typical wiring diagrams

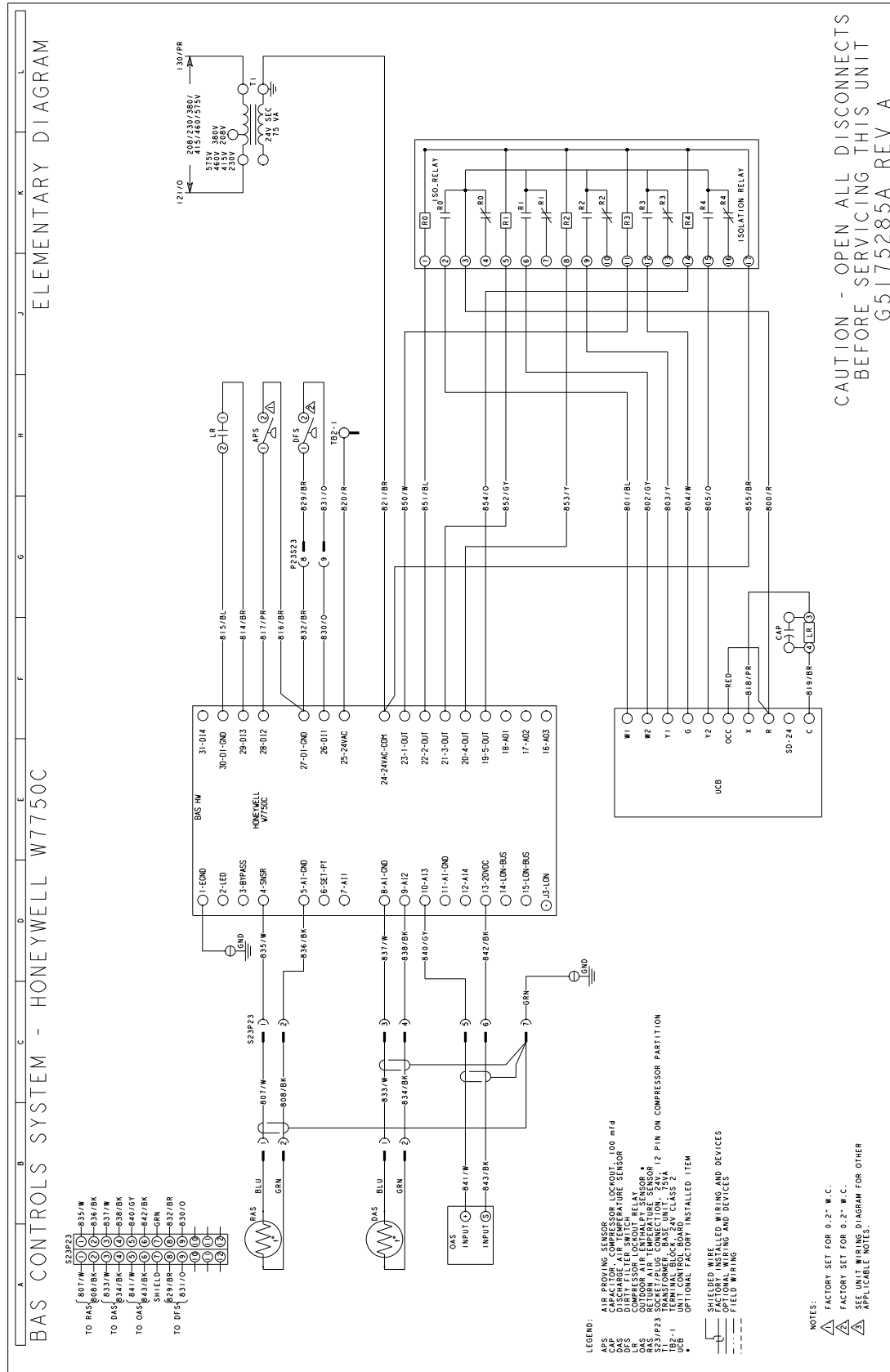
Typical SURVEYOR BAS control wiring diagram



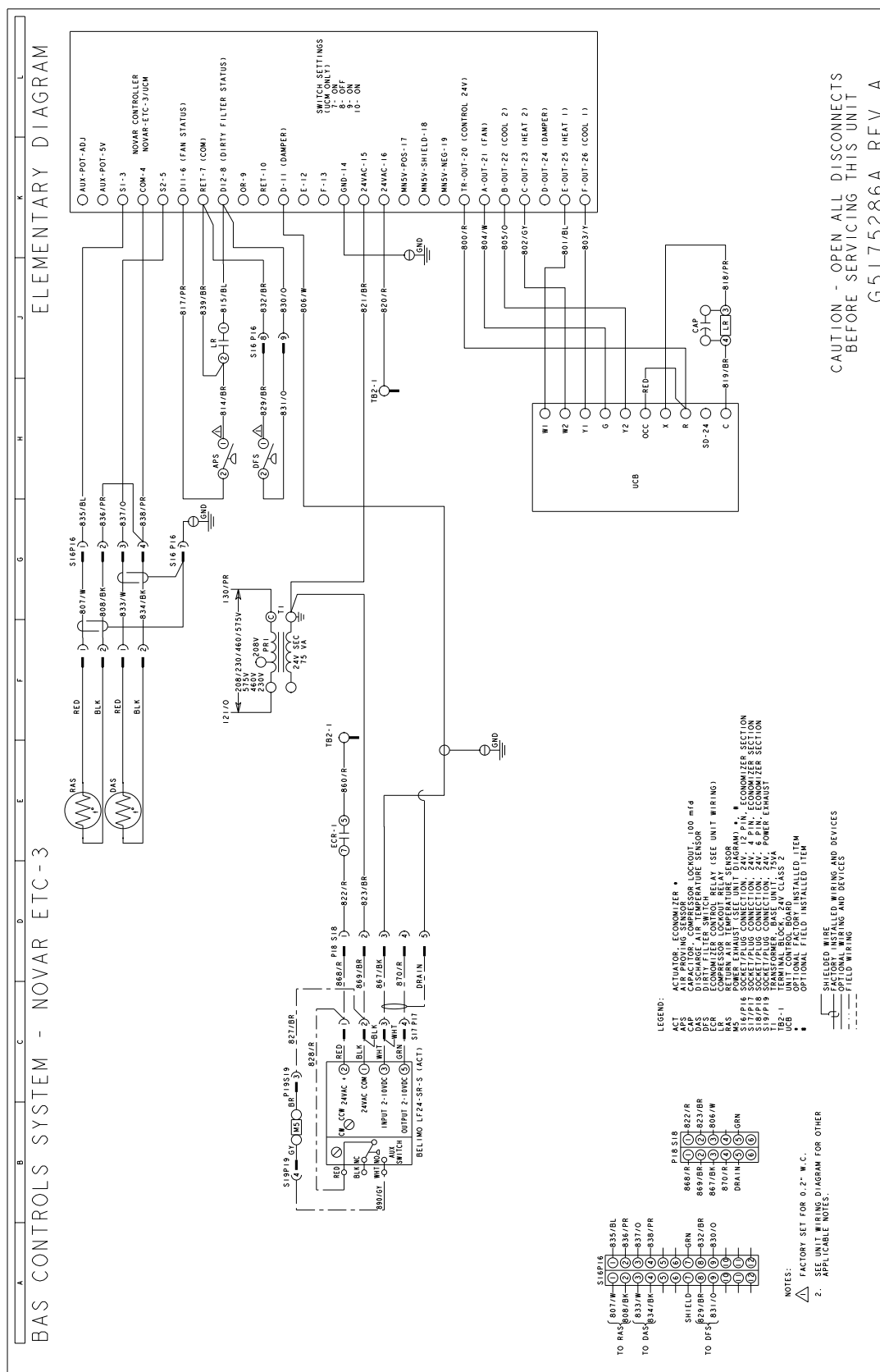
## Johnson Controls Ducted Systems



## Typical HONEYWELL BAS control wiring diagram



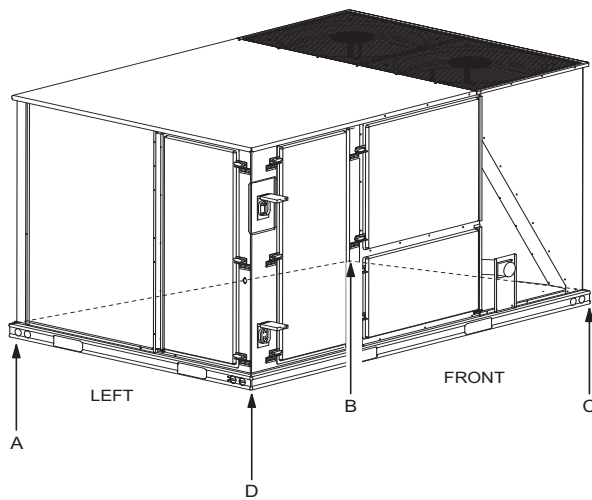
### Typical NOVAR BAS control wiring diagram



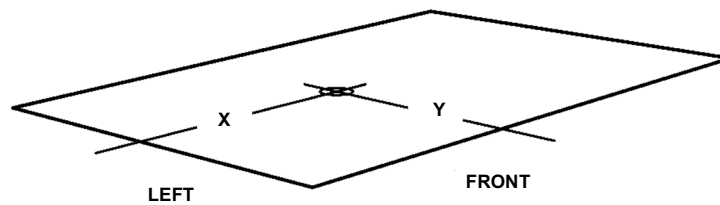
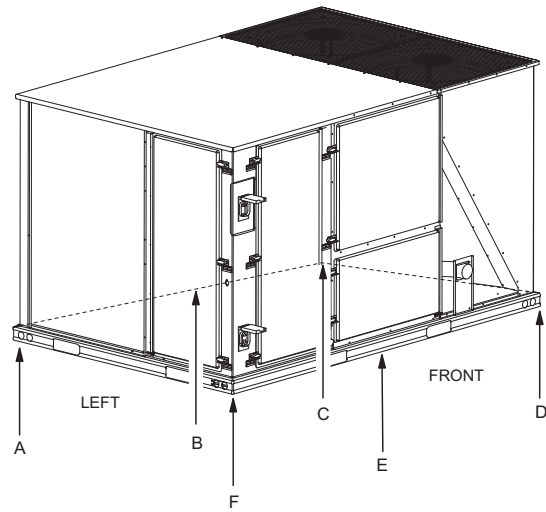
## Weights and dimensions

### ZT037-150/ZB078-150 unit weights

Unit 4 point load weight



Unit 6 point load weight



ZT037-150 standard unit weights

| Size<br>(ton) | Model | Weight (lb.) |           | Center of gravity |       | 4 point load location (lb.) |     |     |     | 6 point load location (lb.) |     |     |     |     |     |
|---------------|-------|--------------|-----------|-------------------|-------|-----------------------------|-----|-----|-----|-----------------------------|-----|-----|-----|-----|-----|
|               |       | Shipping     | Operating | X                 | Y     | A                           | B   | C   | D   | A                           | B   | C   | D   | E   | F   |
| 037<br>(3)    | ZT    | 927          | 922       | 42.4              | 24.7  | 202                         | 184 | 255 | 281 | 137                         | 128 | 121 | 168 | 178 | 190 |
| 049<br>(4)    | ZT    | 965          | 960       | 42.5              | 25.5  | 217                         | 198 | 260 | 285 | 147                         | 138 | 130 | 171 | 181 | 193 |
| 061<br>(5)    | ZT    | 973          | 968       | 41.6              | 25.5  | 223                         | 196 | 257 | 293 | 152                         | 139 | 128 | 168 | 183 | 199 |
| 078<br>(6.5)  | ZT    | 1287         | 1282      | 47.25             | 24.00 | 245                         | 277 | 404 | 357 | 160                         | 173 | 188 | 275 | 253 | 233 |
| 090<br>(7.5)  | ZT    | 1288         | 1283      | 48.25             | 25.34 | 252                         | 299 | 397 | 335 | 164                         | 183 | 205 | 272 | 242 | 217 |
| 102<br>(8.5)  | ZT    | 1289         | 1284      | 47.25             | 24.75 | 253                         | 286 | 396 | 350 | 165                         | 179 | 195 | 269 | 248 | 228 |
| 120<br>(10)   | ZT    | 1465         | 1460      | 45.00             | 25.50 | 312                         | 319 | 419 | 410 | 207                         | 210 | 214 | 280 | 276 | 272 |
| 150<br>(12.5) | ZT    | 1483         | 1478      | 49.75             | 24.50 | 271                         | 343 | 483 | 381 | 174                         | 202 | 238 | 335 | 285 | 244 |

**ZT078-150 with MagnaDry option unit weights**

| Size (ton) | Model | Weight (lb.) |           | Center of gravity |       | 4 point load location (lb.) |     |     |     | 6 point load location (lb.) |     |     |     |     |     |
|------------|-------|--------------|-----------|-------------------|-------|-----------------------------|-----|-----|-----|-----------------------------|-----|-----|-----|-----|-----|
|            |       | Shipping     | Operating | X                 | Y     | A                           | B   | C   | D   | A                           | B   | C   | D   | E   | F   |
| 037 (3)    | ZT    | 875          | 870       | 42                | 25    | 191                         | 174 | 241 | 265 | 129                         | 121 | 114 | 158 | 168 | 179 |
| 049 (4)    | ZT    | 910          | 905       | 43                | 26    | 204                         | 187 | 245 | 268 | 138                         | 130 | 123 | 161 | 171 | 182 |
| 061 (5)    | ZT    | 910          | 905       | 42                | 26    | 208                         | 183 | 240 | 274 | 142                         | 130 | 119 | 157 | 171 | 186 |
| 078 (6.5)  | ZT    | 1293         | 1288      | 47.25             | 24.00 | 246                         | 278 | 406 | 358 | 161                         | 174 | 189 | 276 | 254 | 234 |
| 090 (7.5)  | ZT    | 1298         | 1293      | 48.25             | 25.34 | 254                         | 301 | 400 | 338 | 165                         | 184 | 207 | 274 | 244 | 219 |
| 102 (8.5)  | ZT    | 1309         | 1304      | 47.25             | 24.75 | 257                         | 290 | 402 | 355 | 168                         | 182 | 198 | 274 | 251 | 232 |
| 120 (10)   | ZT    | 1486         | 1481      | 45.00             | 25.50 | 316                         | 324 | 425 | 416 | 210                         | 213 | 217 | 285 | 280 | 276 |
| 150 (12.5) | ZT    | 1503         | 1498      | 49.75             | 24.50 | 274                         | 348 | 490 | 386 | 176                         | 205 | 241 | 340 | 288 | 248 |

**ZB078-150 standard unit weights**

| Size (ton) | Model | Weight (lb.) |           | Center of gravity |      | 4 point load location (lb.) |     |     |     | 6 point load location (lb.) |     |     |     |     |     |
|------------|-------|--------------|-----------|-------------------|------|-----------------------------|-----|-----|-----|-----------------------------|-----|-----|-----|-----|-----|
|            |       | Shipping     | Operating | X                 | Y    | A                           | B   | C   | D   | A                           | B   | C   | D   | E   | F   |
| 078 (6.5)  | ZB    | 1035         | 1030      | 39.6              | 25.3 | 245                         | 197 | 262 | 327 | 170                         | 146 | 126 | 168 | 194 | 226 |
| 090 (7.5)  | ZB    | 1085         | 1080      | 38.7              | 23.7 | 245                         | 189 | 281 | 365 | 171                         | 142 | 121 | 180 | 212 | 255 |
| 102 (8.5)  | ZB    | 1089         | 1084      | 38.4              | 24.4 | 255                         | 193 | 274 | 361 | 178                         | 147 | 123 | 175 | 208 | 252 |
| 120 (10)   | ZB    | 1090         | 1085      | 38.8              | 24.8 | 257                         | 199 | 274 | 355 | 179                         | 150 | 127 | 175 | 207 | 247 |
| 150 (12.5) | ZB    | 1285         | 1280      | 49.6              | 24.1 | 231                         | 291 | 422 | 335 | 149                         | 172 | 202 | 292 | 249 | 215 |

**ZB078-150 MagnaDry option unit weights**

| Size (ton) | Model | Weight (lb.) |           | Center of gravity |    | 4 point load location (lb.) |     |     |     | 6 point load location (lb.) |     |     |     |     |     |
|------------|-------|--------------|-----------|-------------------|----|-----------------------------|-----|-----|-----|-----------------------------|-----|-----|-----|-----|-----|
|            |       | Shipping     | Operating | X                 | Y  | A                           | B   | C   | D   | A                           | B   | C   | D   | E   | F   |
| 078 (6.5)  | ZB    | 1085         | 1080      | 40                | 25 | 257                         | 206 | 274 | 342 | 178                         | 153 | 133 | 177 | 203 | 237 |
| 090 (7.5)  | ZB    | 1075         | 1070      | 39                | 24 | 243                         | 187 | 278 | 362 | 169                         | 141 | 119 | 178 | 210 | 252 |
| 102 (8.5)  | ZB    | 1140         | 1135      | 38                | 24 | 267                         | 203 | 287 | 378 | 186                         | 154 | 129 | 183 | 218 | 264 |
| 120 (10)   | ZB    | 1125         | 1120      | 39                | 25 | 266                         | 205 | 283 | 366 | 185                         | 155 | 131 | 181 | 213 | 255 |
| 150 (12.5) | ZB    | 1400         | 1395      | 50                | 24 | 252                         | 318 | 460 | 365 | 162                         | 188 | 220 | 319 | 272 | 235 |

**ZT037-150/ZB078-150 unit accessory weights**

| Unit accessory                        | Weight (lb.) |           |
|---------------------------------------|--------------|-----------|
|                                       | Shipping     | Operating |
| Economizer                            | 90           | 85        |
| Power exhaust                         | 40           | 35        |
| Electric heat <sup>1</sup>            | 49           | 49        |
| Gas heat <sup>2</sup>                 | 110          | 110       |
| Variable frequency drive <sup>3</sup> | 30           | 30        |

1. Weight given is for the maximum heater size available (54KW).

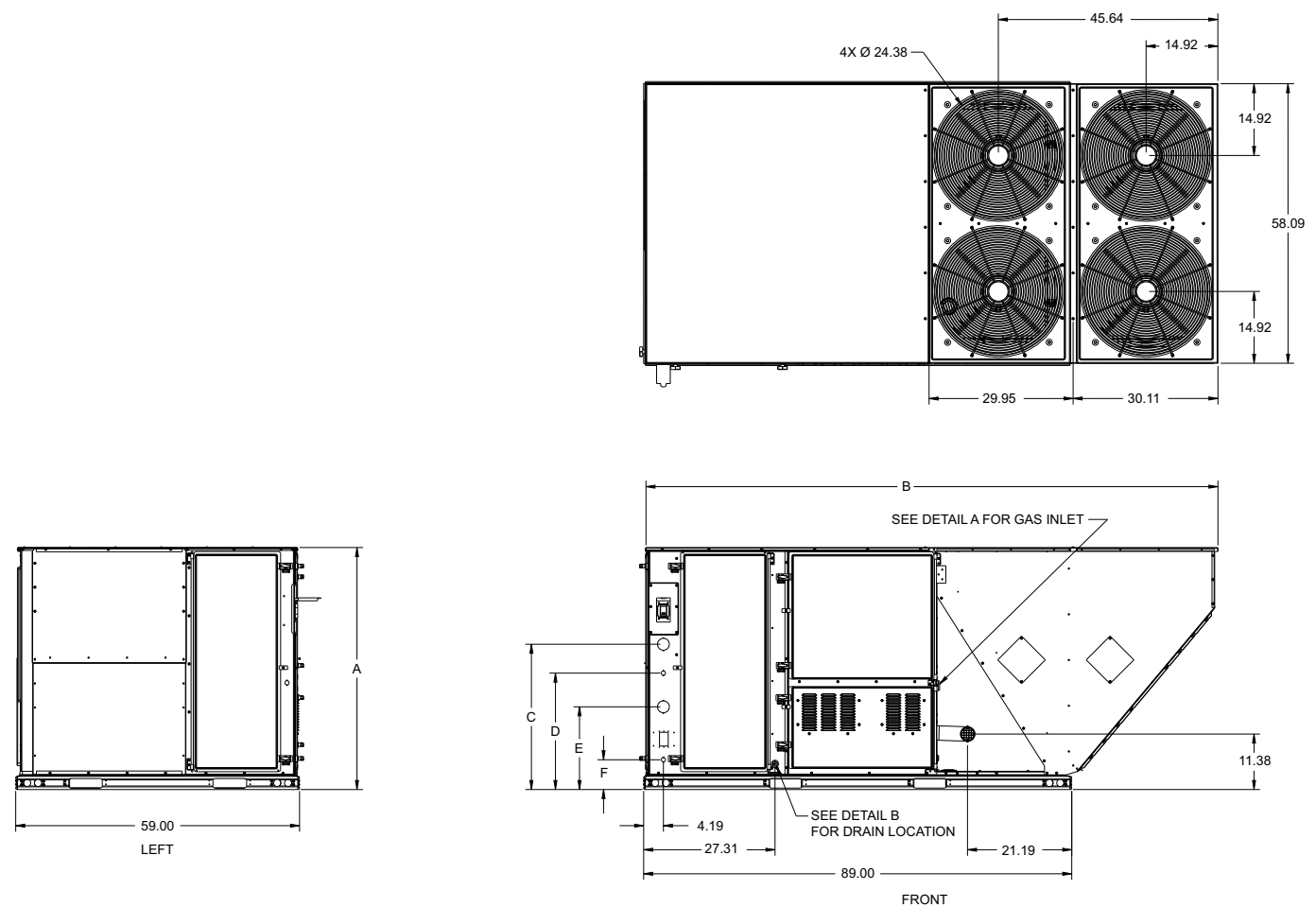
2. Weight given is for the maximum number of tube heat exchangers available (8 tube).

3. Weight includes mounting hardware, controls and manual bypass option (3 to 5 ton only).



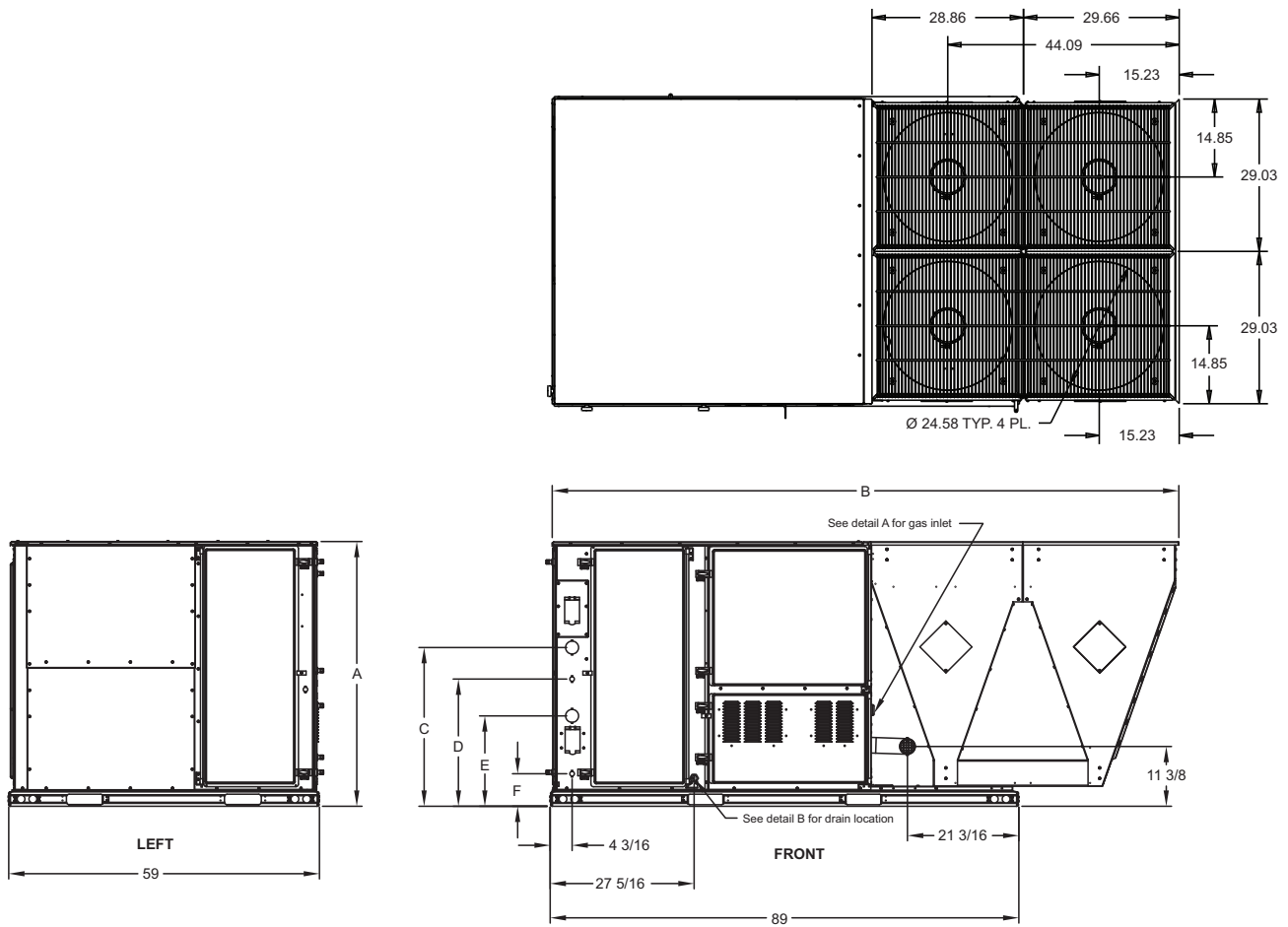


ZT078 - ZT102



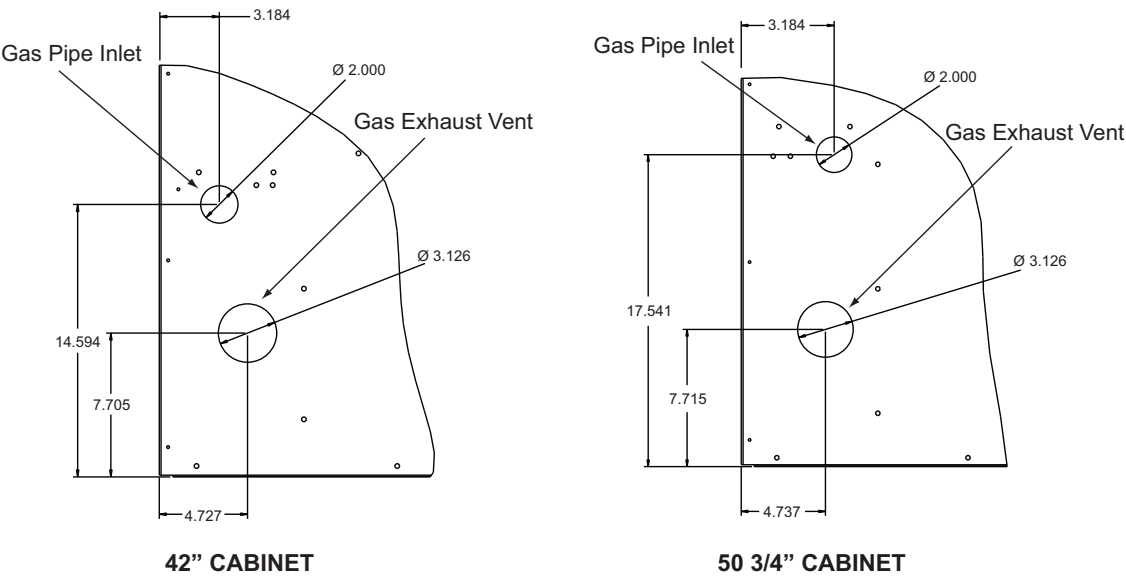
ZT078-102 unit physical dimensions

| Unit model number | Dimension (in.) |         |         |         |         |        |
|-------------------|-----------------|---------|---------|---------|---------|--------|
|                   | A               | B       | C       | D       | E       | F      |
| 078, 090 and 102  | 50 3/4          | 119 1/2 | 30 3/16 | 24 3/16 | 17 3/16 | 6 3/16 |

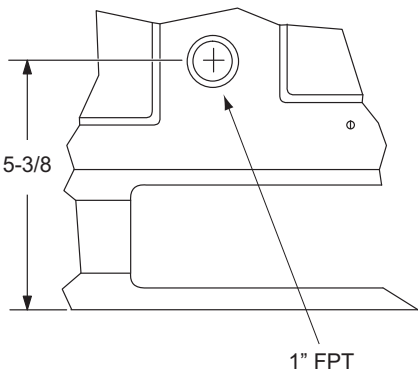
**ZT120 - ZT150/ZB150****ZT120-150 unit physical dimensions**

| Unit model number   | Dimension (in.) |         |         |         |         |        |
|---------------------|-----------------|---------|---------|---------|---------|--------|
|                     | A               | B       | C       | D       | E       | F      |
| ZT120 and 150/ZB150 | 50 3/4          | 119 1/2 | 30 3/16 | 24 3/16 | 17 3/16 | 6 3/16 |

Detail A



Detail B

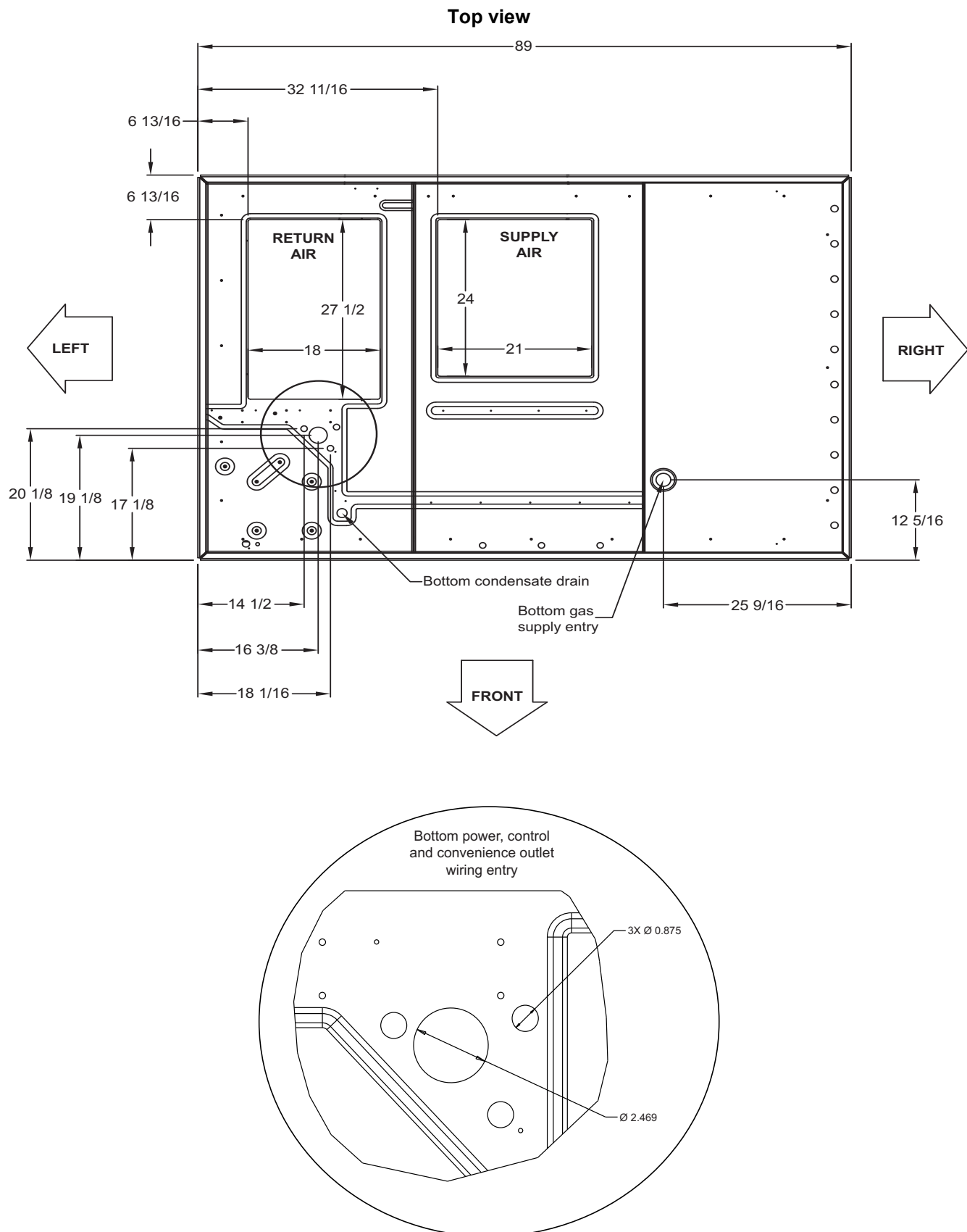


ZT037-150/ZB078-150 unit clearances

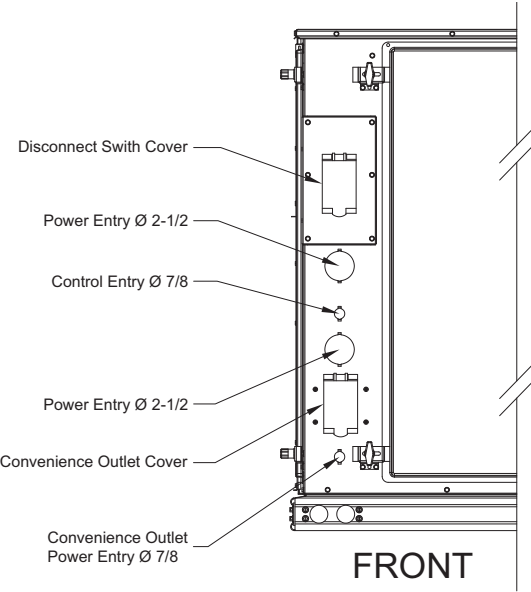
| Direction        | Distance (in.)  | Direction           | Distance (in.) |
|------------------|-----------------|---------------------|----------------|
| Top <sup>1</sup> | 72              | Right               | 12             |
| Front (037-061)  | 36              | Left                | 36             |
| Front (078-150)  | 48              | Bottom <sup>2</sup> | 0              |
| Rear             | 36 <sup>3</sup> |                     |                |

- 1. Units must be installed outdoors. make sure that overhanging structure or shrubs do not obscure the condenser air discharge outlet.
- 2. Units may be installed on combustible floors made from wood or class A, B or C roof covering materials.
- 3. With economizer, 12 in. without economizer.

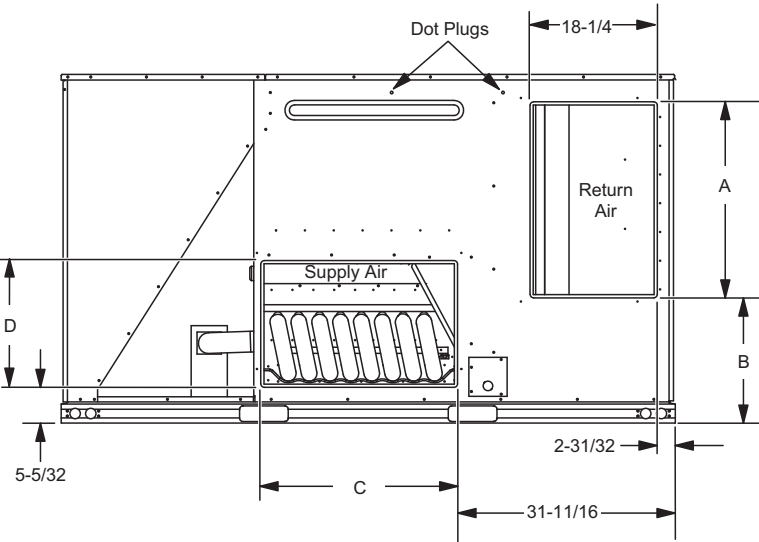
## ZT037-150/ZB078-150 unit bottom duct openings



ZT037-150/ZB078-150 unit electrical entry

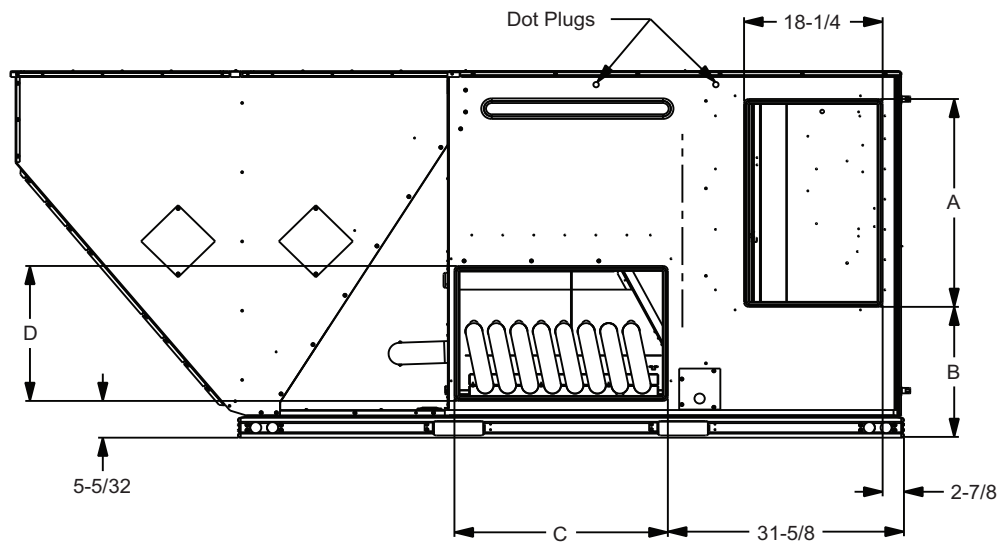


ZT037-061/ZB078-120 unit side duct openings

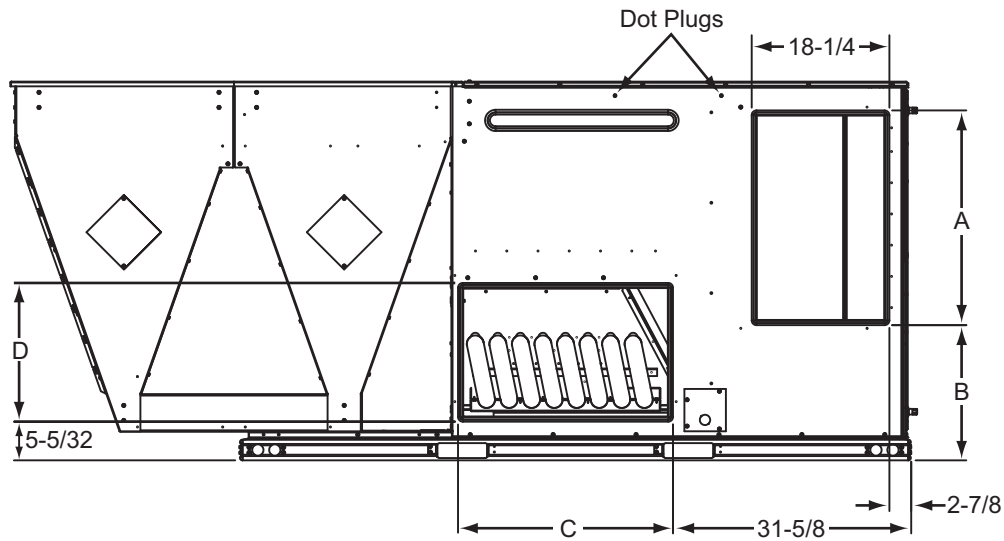


ZT037-061/ZB078-120 side duct dimensions

| Unit model number    | Dimension (in.) |         |        |        |
|----------------------|-----------------|---------|--------|--------|
|                      | A               | B       | C      | D      |
| ZT037, 049, 061      | 27 3/4          | 12 1/16 | 27 1/2 | 16     |
| ZB078, 090, 102, 120 | 28 1/4          | 18 1/16 | 28 1/4 | 18 1/4 |

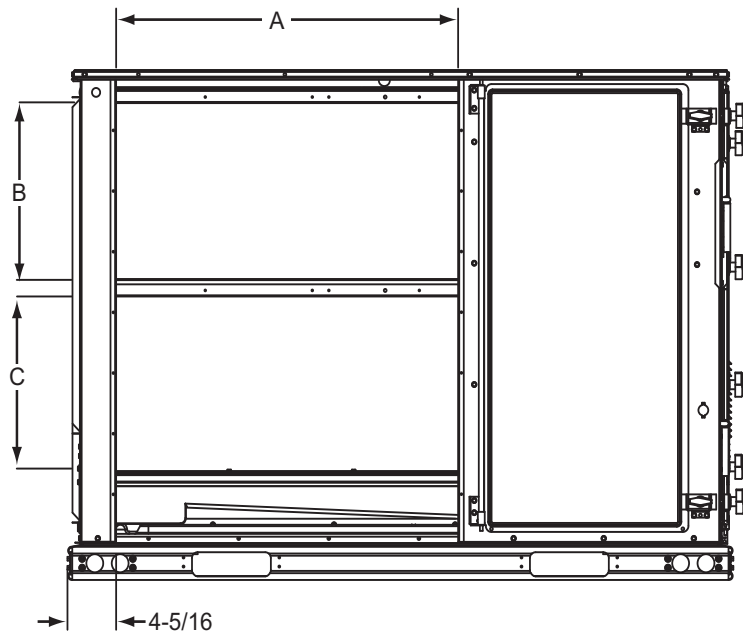
**ZT078-102 unit side duct openings****ZT078-102 side duct dimensions**

| Unit model number | Dimension (in.) |                  |                 |                 |
|-------------------|-----------------|------------------|-----------------|-----------------|
|                   | A               | B                | C               | D               |
| ZT078, 090, 102   | $28\frac{1}{4}$ | $18\frac{1}{16}$ | $28\frac{1}{4}$ | $18\frac{1}{4}$ |

**ZT120-150/ZB150 unit side duct openings****ZT120-150/ZB150 side duct dimensions**

| Unit model number | Dimension (in.) |                  |                 |                 |
|-------------------|-----------------|------------------|-----------------|-----------------|
|                   | A               | B                | C               | D               |
| ZT120, 150/ZB150  | $28\frac{1}{4}$ | $18\frac{1}{16}$ | $28\frac{1}{4}$ | $18\frac{1}{4}$ |

ZT037-150/ZB078-150 unit left/end duct opening



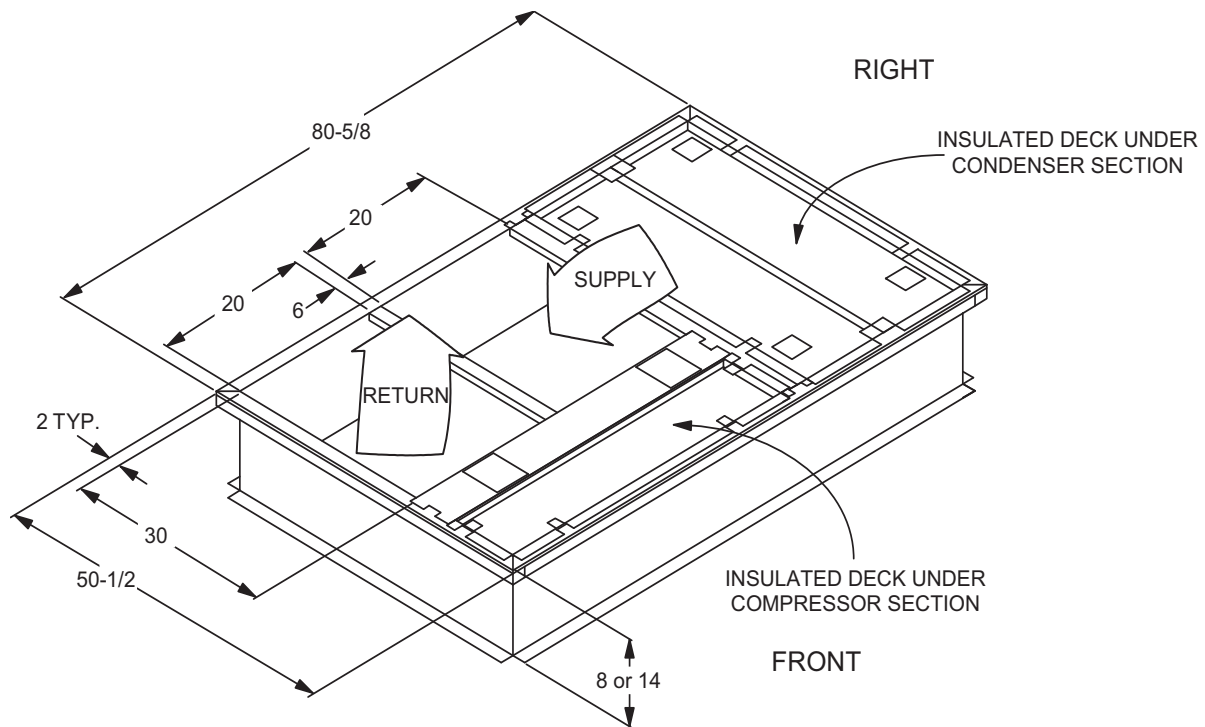
ZT037-150/ZB078-150 left/end duct dimensions

| Unit model number    | Dimension (in.) |        |        |
|----------------------|-----------------|--------|--------|
|                      | A               | B      | C      |
| ZT037, 049, 061      | 30.357          | 13.365 | 22.516 |
| ZT078, 090, 102      | 30.358          | 22.580 | 22.330 |
| ZT120, 150           | 30.358          | 22.580 | 22.330 |
| ZB078, 090, 102, 120 | 30.358          | 22.580 | 22.330 |
| ZB150                | 30.358          | 22.580 | 22.330 |

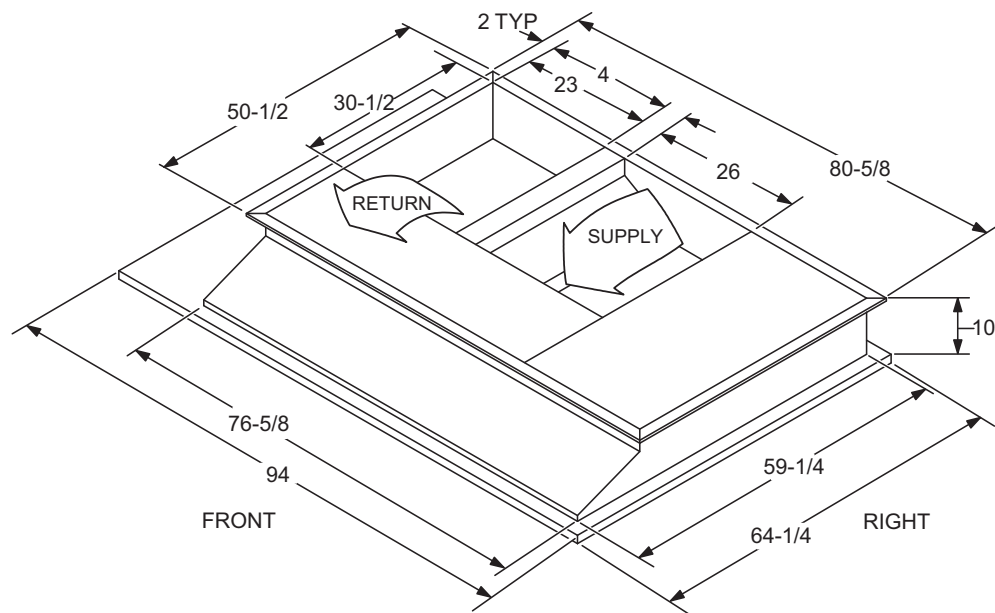


## ZT037-150/ZB078-150 unit accessory dimensions

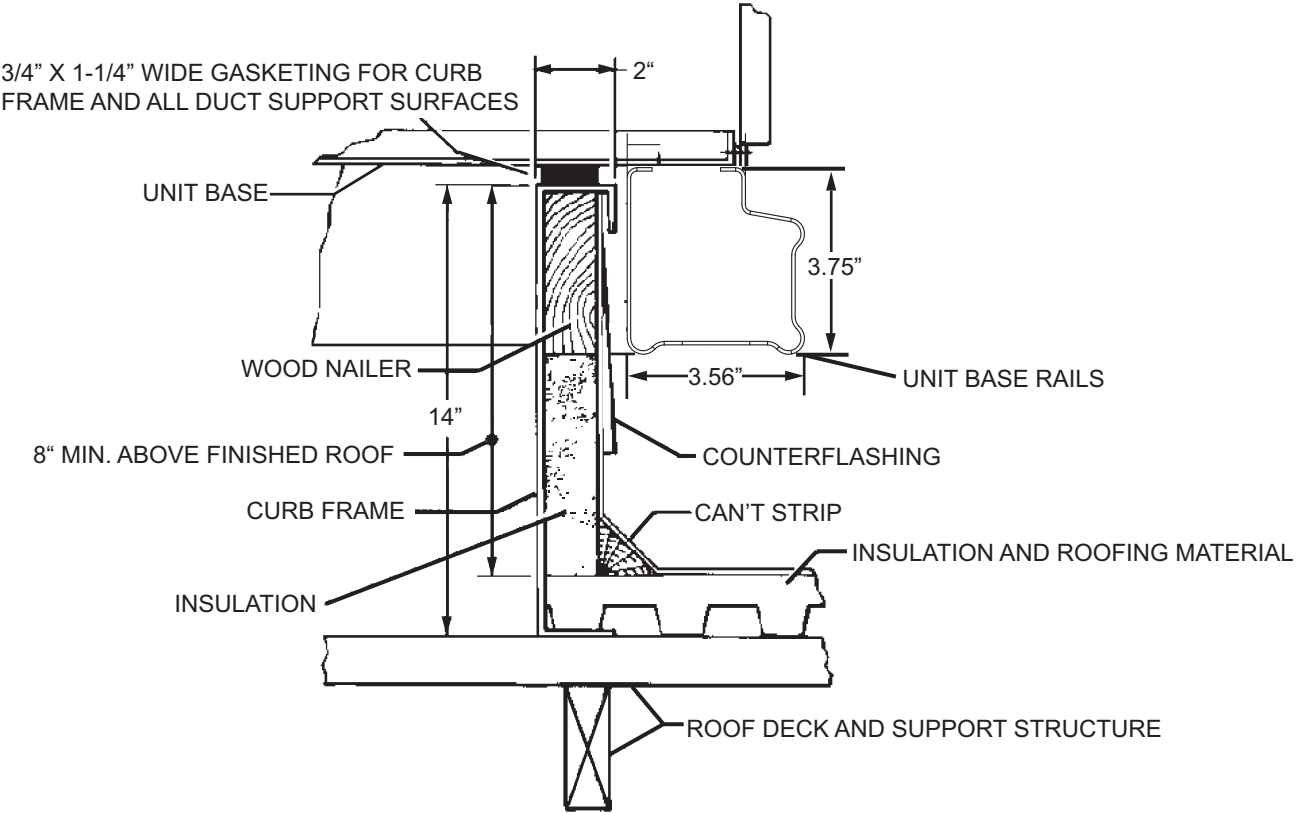
### ZT037-150/ZB078-150 roof curb



### ZT037-061 transition roof curb



**ZT037-150/ZB078-150 roof curb cutaway**



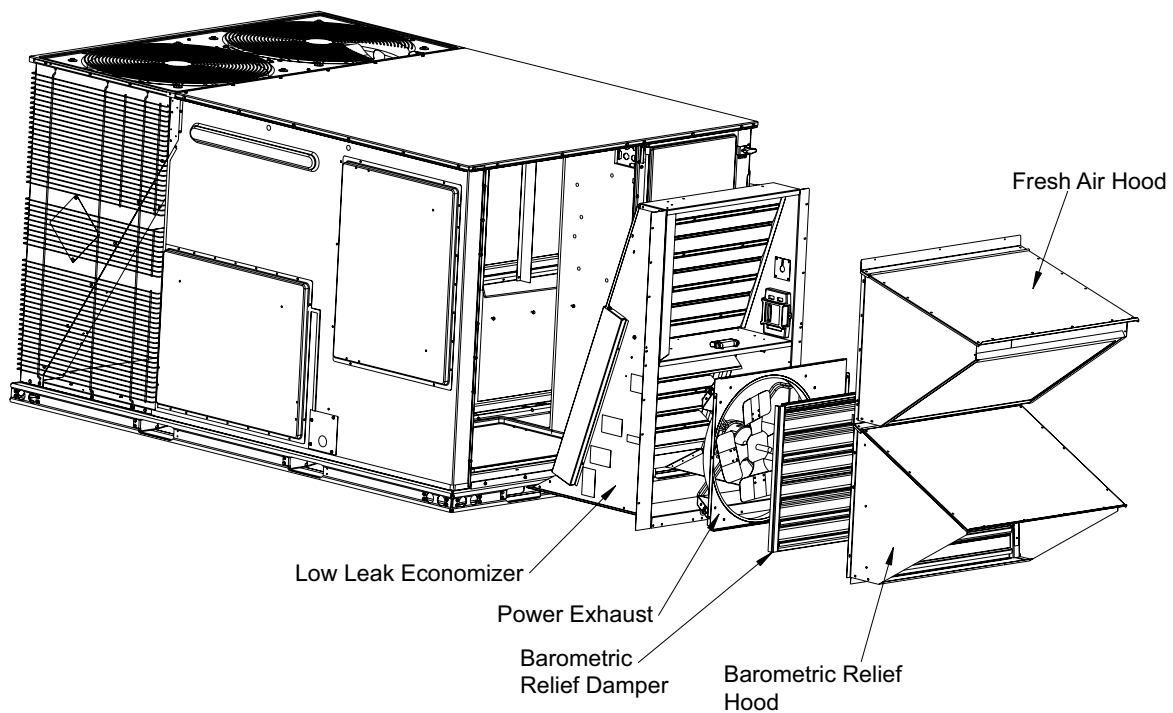
## Economizer options

### Economizer usage

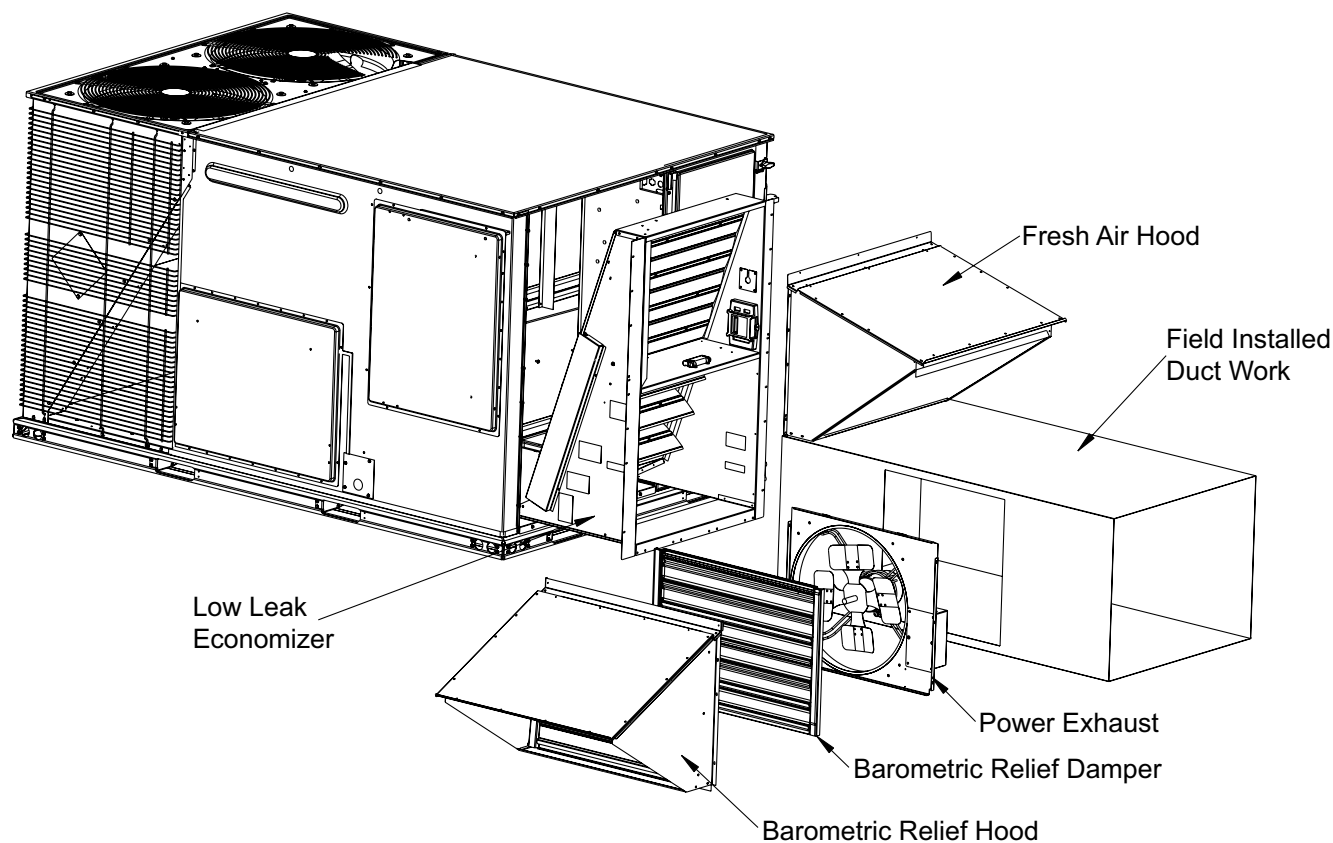
| Application                                                     | Cabinet height | Description                                     | Model                    |
|-----------------------------------------------------------------|----------------|-------------------------------------------------|--------------------------|
| Side return                                                     | All            | Horizontal economizer without barometric relief | 2EE04706924 <sup>1</sup> |
| Downflow, end return<br>horizontal or bottom<br>return vertical | 42 in.         | Economizer, 42 in. tall cabinet                 | 2EE04717425 <sup>2</sup> |
|                                                                 |                | Economizer, 42 in. tall cabinet, BAS ready      | 2EE04709725 <sup>2</sup> |
|                                                                 | 50 in.         | Economizer, 50 in. tall cabinet                 | 2EE04717625 <sup>2</sup> |
|                                                                 |                | Economizer, 50 in. tall cabinet, BAS ready      | 2EE04709825 <sup>2</sup> |

1. Barometric relief must be ordered separately and installed in duct work.
2. Includes fresh air hood, exhaust hood and barometric relief.

### Economizer down flow with power exhaust



**Economizer end return with power exhaust**



**Field-installed horizontal economizer with power exhaust**

