



The new degree of comfort.™



Air

Package Gas Electric
RKNL-C/H Series

Rheem *Commercial Classic®* Series Package Gas Electric Unit



RKNL-C Series

With ClearControl™

Nominal Sizes 15-25 Tons [52.8-87.9 kW]

ASHRAE 90.1-2007 Compliant

RKNL-H Series

With ClearControl™ and VFD Technology

Nominal Sizes 15-25 Tons [52.8-87.9 kW]

ASHRAE 90.1-2010 Compliant



25 TON MODEL IS OUTSIDE THE
SCOPE OF AHRI STANDARD 340/360



INTEGRATED AIR & WATER

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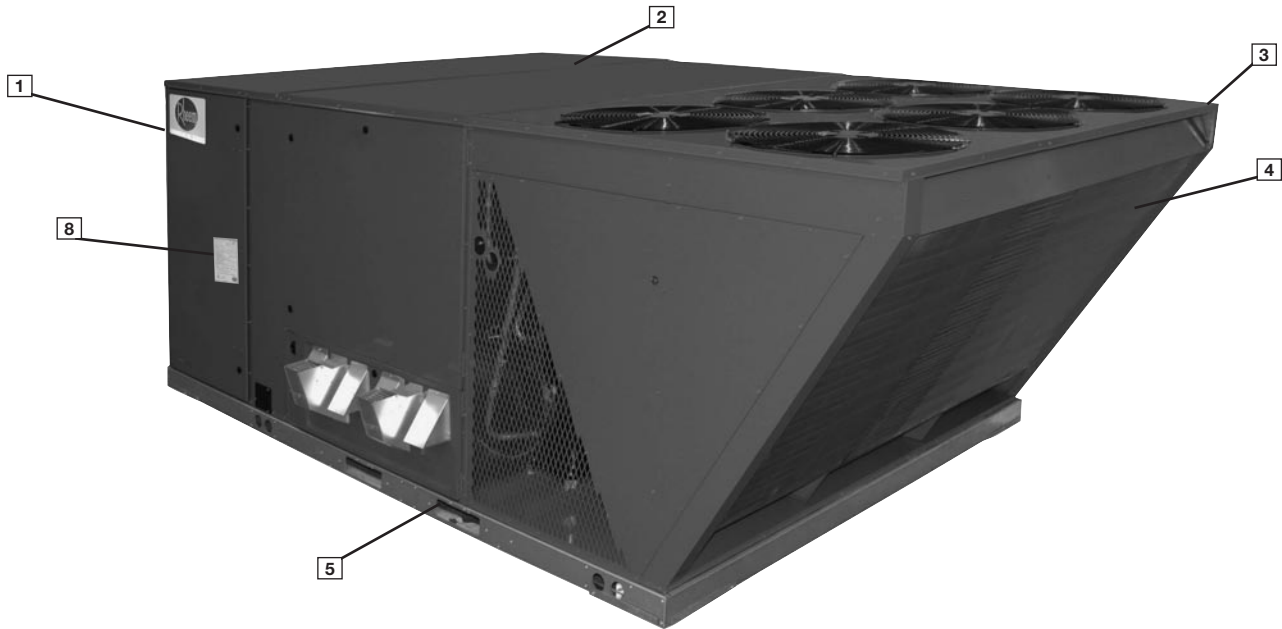
RKNL-C/H STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Dual stage compressors.
- Convertible airflow – vertical downflow or horizontal sideflow.
- TXV refrigerant metering system on each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintaining high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- Hinged major access door with heavy-duty gasketing, 1/4 turn latches and door retainers.
- Slide Out Indoor fan assembly for added service convenience.
- Powder Paint Finish meets ASTM B117 steel coated on each side for maximum protection. G90 galvanized.
- Base pan with drawn supply and return opening for superior water management.
- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 2 inch filter standard with slide out design.
- Two stage gas valve and direct spark ignition.
- Tubular heat exchange for long life and induced draft for efficiency and reliability.
- Solid state furnace control with on board diagnostics.
- 24 volt control system with resettable circuit breakers.
- Colored and labeled wiring.
- Copper tube/Aluminum Fin coils. (Exception: C241 has microchannel condenser coils.)
- Factory Installed Direct Digital Control (DDC) and sensors which can connect to LonWorks™ or BACnet® BAS systems for remote monitoring and control.
- (-H) Models with Variable Frequency Drive (VFD) meet ASHRAE 90.1-2010 and California Title 24.
- MERV 8 (RXMF-M08A22520) & MERV 13 (RXMF-M13A22520) filters are available as an accessory.



Air

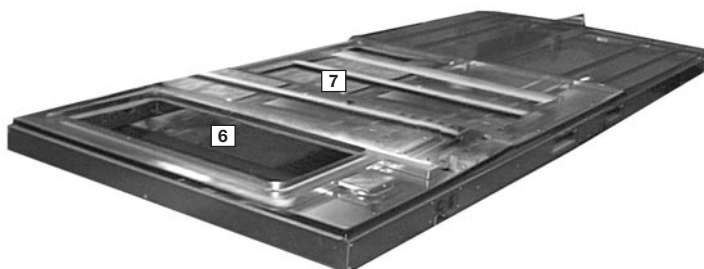
Unit Features & Benefits RKNL-C/H Series



Rheem Package equipment is designed from the ground up with the latest features and benefits required to compete in today's market. The clean design stands alone in the industry and is a testament to the quality, reliability, ease of installation and serviceability that goes into each unit. Outwardly, the large Rheem *Commercial Series™* label (1) identifies the brand to the customer.

The sheet-metal cabinet (2) uses nothing less than 20-gauge material for structural components with an underlying coat of G90. To ensure the leak-proof integrity of these units, the design utilizes a top with a 1/8" drip lip (3), gasket-protected panels and screws. The slanted outdoor coil protects the coil from hail damage (4). Every Rheem package unit uses the toughest finish in the industry, using electro deposition baked-on enamel tested to withstand a rigorous 1000-hour salt spray test, per ASTM B117.

Anything built to last must start with the right foundation. In this case, the foundation is 14-gauge, commercial-grade, full-perimeter base rails (5), which integrate fork slots and rigging holes to save set-up time on the job site. The base pan is stamped, which forms a 1-1/8" flange around the supply and return opening and has eliminated the worry of water entering the conditioned space (6). The drainpan (7) is made of material that resists the growth of harmful bacteria and is sloped for the latest IAQ benefits. Furthermore, the drainpan slides out for easy cleaning. The insulation has been placed on the underside of the basepan, removing areas that would allow for potential moisture accumulation, which can facilitate growth of harmful bacteria. All insulation is secured with both adhesive and mechanical fasteners, and all edges are hidden.

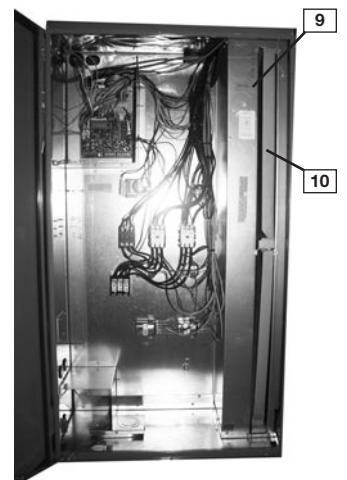


During development, each unit was tested to U.L. 1995, ANSI 21.47, AHRI 340-360 and other Rheem-required reliability tests. Rheem adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate (8). Contractors can rest assured that when a Rheem package unit arrives at the job, it is ready to go with a factory charge and quality checks.

Access to all major compartments is from the front of the unit, including the filter and electrical compartment, blower compartment, furnace section, and outdoor section. Each panel is permanently embossed with the compartment name (control/filter access, blower access and furnace access).

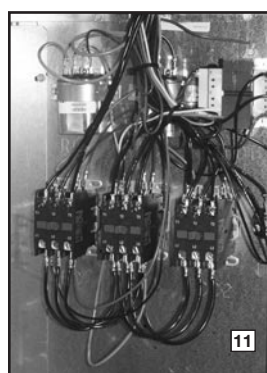
Electrical and filter compartment access is through a large, toolless, hinged-access panel with 1/4 turn latches. On the outside of the panel is the unit nameplate, which contains the model and serial number, electrical data and other important unit information.

The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. To the right of the control box the model and serial number can be found. Having this information on the inside will assure model identification for the life of the product. The production line quality test assurance label is also placed in this location (9). The two-inch throwaway filters (10) are easily removed on a tracked system for easy replacement.





Inside the control box (11), each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and color-coded to match the wiring diagram. The integrated furnace control, used to control furnace operation, incorporates a flashing LED troubleshooting device. Flash codes are clearly outlined on the unit wiring diagram. The control transformer has a low voltage circuit breaker that trips if a low voltage electrical short occurs. There is a blower contactor and compressor contactor for each compressor.



As part of the ClearControl™ system which allows real time monitoring and communication between rooftop units, the RKNL-C/H Package Gas Electric Unit has a Rooftop Unit Controller (RTU-C) factory mounted and wired in the control panel. The RTU-C is a solid-state microprocessor-based control board that provides flexible control and extensive diagnostics for all unit functions. The RTU-C through proportional/integral control algorithms perform specific unit functions that govern unit operation in response to: zone conditions, system temperatures, system pressures, ambient conditions and electrical inputs. The RTU-C features a 16 x 2 character LCD display and a five-button keypad for local configuration and direct diagnosis of the system. New features include a clogged filter switch (CFS), fan proving switch (FPS), return air temperature sensor (RAT), discharge air temperature sensor (DAT) and outdoor air temperature sensor (OAT). Freeze sensors (FS) are used in place of freezestats to allow measurement of refrigerant suction line temperatures. The RKNL-C/H Package Gas/Electric with ClearControl™ is specifically designed to be applied in four distinct applications:



The RKNL-C/H is compatible with a third party building management system that supports the BACnet Application Specific Controller device profile, with the use of a field installed BACnet Communication Module. The BACnet Communication Module plugs onto the unit RTU-C controller and allows communication between ClearControl™ and the BACnet MSTP network. A zone sensor, a BACnet network zone sensor, a BACnet thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The BACnet Communication Module is compatible with MSTP EIA-485 daisy chain networks communicating at 38.4 bps. It is compatible with twisted pair, shielded cables.

The RKNL-C/H is compatible with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. This is accomplished with a field installed LonMark communication module. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between ClearControl™ and a LonWorks Network. A zone sensor, a LonTalk network zone sensor, or a LonTalk thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The LonMark Communication Module utilizes an FTT-10A free topology transceiver communicating at 78.8 kbps. It is compatible with Echelon qualified twisted pair cable, Belden 8471 or NEMA Level 4 cables. The Module can communicate up to 1640 ft. with no repeater. The LonWorks limit of 64 nodes per segment applies to this device.

The RKNL-C/H is compatible with a programmable 24 volt thermostat. Connections are made via conventional thermostat screw terminals. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.

The RKNL-C/H is compatible with a zone sensor and mechanical or solid state time clock connected to the RTU-C. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.

A factory or field installed Comfort Alert® module is available for power phase-monitoring protection and additional compressor diagnostics. The alarms can be displayed on the RTU-C display, through the (BAS) network, or connected to the "L-Terminal" of a thermostat for notification.



-H models with factory installed VFD (13) (variable frequency drive) optimize energy usage year round by providing a lower speed for first stage cooling operation improving IEER's over the conventional constant fan system. Furthermore, operating in the constant fan mode at the reduced speed can use as little as 1/5th of the energy of a conventional constant fan system. Also, by operating at a lower speed on first stage cooling up to 51% more moisture is removed improving comfort during low load operation. The VFD equipped units meet California Title 24 and ASHRAE 90.1-2010 requirements for multi blower speed control. VFD also ramps up to the desired speed reducing stress on the supply fan components and reducing the noise from sudden inrush of air. Because the airflow is cut in half during first stage cooling and constant fan operation, noise is much less during these modes of operation.



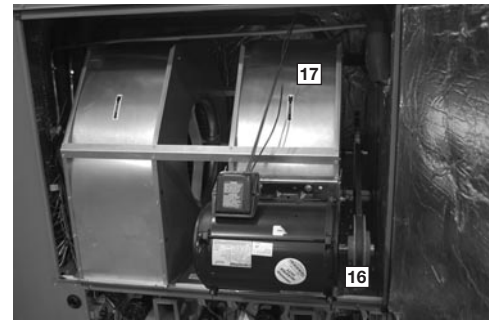
For added convenience in the field, a factory-installed convenience outlet and disconnect (14) are available. Low and High voltage can enter either from the side or through the base. Low-voltage connections are made through the low-voltage terminal strip. For ease of access, the U.L.-required low voltage barrier can be temporarily removed for low-voltage termination and then reinstalled. The high-voltage connection is terminated at the high-voltage terminal block. The suggested mounting for the field-installed disconnect is on the exterior side of the electrical control box.



In the outdoor section are the external gauge ports. (15). With gauge ports mounted externally, an accurate diagnostic of system operation can be performed quickly and easily.



The blower compartment is to the right of the control box and can be accessed by 1/4 turn latches. To allow easy maintenance of the blower assembly, the entire assembly

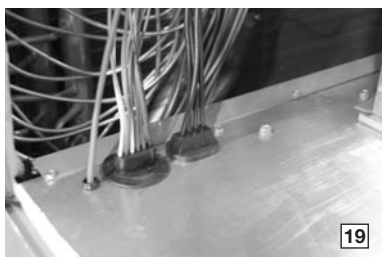


easily slides out by removing four #10 screws from the blower assembly. The adjustable motor pulley (16) can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the blower pulley by pushing the blower assembly up to loosen the belt. Once the belt is removed, the motor sheave can be adjusted to the desired number of turns, ranging from 1 to 6 turns open. Where the demands for the job require high static, Rheem has high-static drives available that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing (17) and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an "H" bushing which firmly secures the pulley to the blower shaft for years of trouble-free operation. The "H" bushing allows for easy removal of the blower pulley from the shaft, as opposed to the use of a set screw, which can score the shaft, creating burrs that make blower-pulley removal difficult.

Also inside the blower compartment are the optional low-ambient controls (18). The low-ambient controls allow for operation of the compressor down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. Use of polarized plugs and schrader fittings allow for easy field or factory installation. The freeze sensor clips on the suction line near the evaporator outlet. The freeze sensor protects the compressor if the evaporator coil gets too cold (below freezing) due to low airflow and allows monitoring of the suction line temperature on the controller display.



Inside the blower compartment the interlaced evaporator can also be viewed. The evaporator uses enhanced fin technology for maximum heat transfer. The TXV metering device assures even distribution of refrigerant throughout the evaporator.



Wiring throughout the unit is neatly bundled and routed. Where wire harnesses go through the condenser bulkhead or blower deck, a molded wire harness assembly (19) provides an air-tight and water-tight seal, and provides strain relief. Care is also taken to tuck raw edges of insulation behind sheet metal to improve indoor air quality.

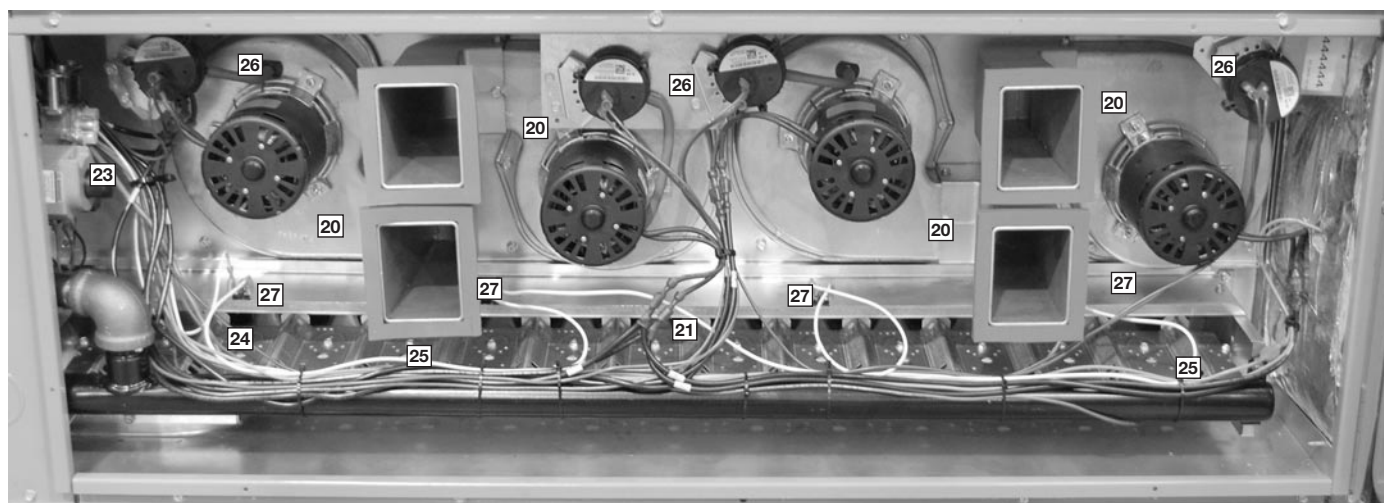
The furnace compartment contains the latest furnace technology on the market. The draft inducers (20) draw the flame from the Rheem exclusive in-shot burners (21) into the aluminized tubular heat exchanger (22) for clean, efficient gas heat. Stainless steel heat exchangers can be factory installed for those applications that have high fresh-air requirements, or applications in corrosive environments. Each furnace is equipped with a two-stage gas valve (23), which provides two stages of gas heat input. The first stage operates at 50% of the second stage (full fire). 81% steady state efficiency is maintained on both first and second stage by staging the multiple inducers to optimize the combustion airflow and maintain a near stoichiometric burn at each stage.

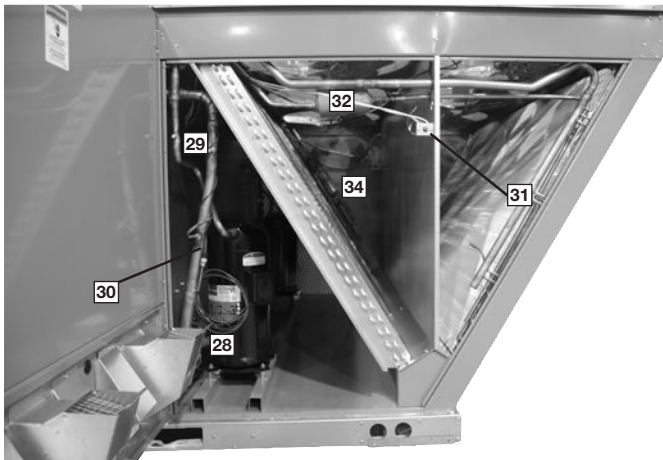


The direct spark igniter (24) assures reliable ignition in the most adverse conditions. This is coupled with remote flame sense (25) to assure that the flame has carried across the entire length of the burner assembly. Gas supply can be routed from the side or up through the base.

Each furnace has the following safety devices to assure consistent and reliable operation after ignition:

- Pressures switches (26) to assure adequate combustion air-flow before ignition.
- Rollout switches (27) to assure no obstruction or cracks in the heat exchanger.
- A limit device that protects the furnace from over-temperature problems.





The compressor compartment houses the heartbeat of the unit. The scroll compressor (28) is known for its long life, and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops (29) to absorb the strain and stress that the starting torque, steady state operation, and shut down cycle impose on the refrigerant tubing. Each compressor and circuit is independent for built-in redundancy, and each circuit is clearly marked throughout the system. Each unit has two stages of efficient cooling operation, first stage is approximately 50% of second stage.

The low-pressure switches (30) and high-pressure switches (31) are mounted on the appropriate refrigerant lines in the condenser section. The high-pressure switch will shut off the compressors if pressures exceeding 610 PSIG are detected as may occur if the outdoor fan motor fails. The low-pressure switches shut off the compressors if low pressure is detected due to loss of refrigerant charge. Each factory-installed option is brazed into the appropriate high or low side and wired appropriately. Use of polarized plugs allow for easy field inspection and repair.

Each unit comes standard with filter dryer (32). The condenser fan motor (33) can easily be accessed and maintained by removing the protective fan grille. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit. The outdoor coil uses the latest enhanced fin design (34) for the most effective method of heat transfer. The outdoor coil is slanted to protect it from Mother Nature.



Each unit is designed for both down-flow or horizontal applications (35) for job configuration flexibility.

The return air compartment can also contain an economizer (36).

Three models exist; two for down-flow applications (a downflow economizer with factory installed smoke detector in the return section is available), and one for horizontal applications. Each unit is pre-wired for the economizer to allow quick plug-in installation. The downflow economizer is also available as a factory-installed option. Power Exhaust is easily field-installed. The economizer, which provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements, comes standard with single enthalpy controls. The controls can be upgraded to dual enthalpy easily in the field. The direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment in the field.

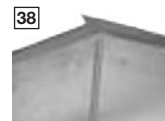
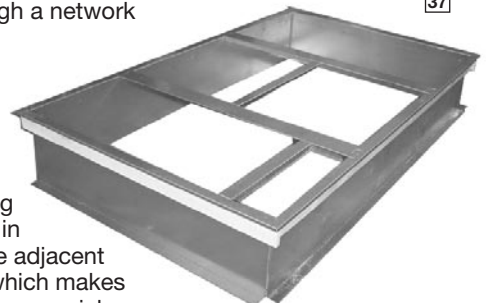
The economizer control has a minimum position setpoint, an outdoor-air setpoint, a mix-air setpoint, and a CO₂ setpoint. Barometric relief is standard on all economizers. The power exhaust is housed in the barometric relief opening and is easily slipped in with a plug-in assembly. The wire harness to the economizer also has accommodations for a smoke detector.



The damper minimum position, actual damper position, power exhaust on/off setpoint, mixed air temperature limit setpoint and Demand Controlled Ventilation (DCV) setpoint can be read and adjusted at the unit controller display or remotely through a network connection.

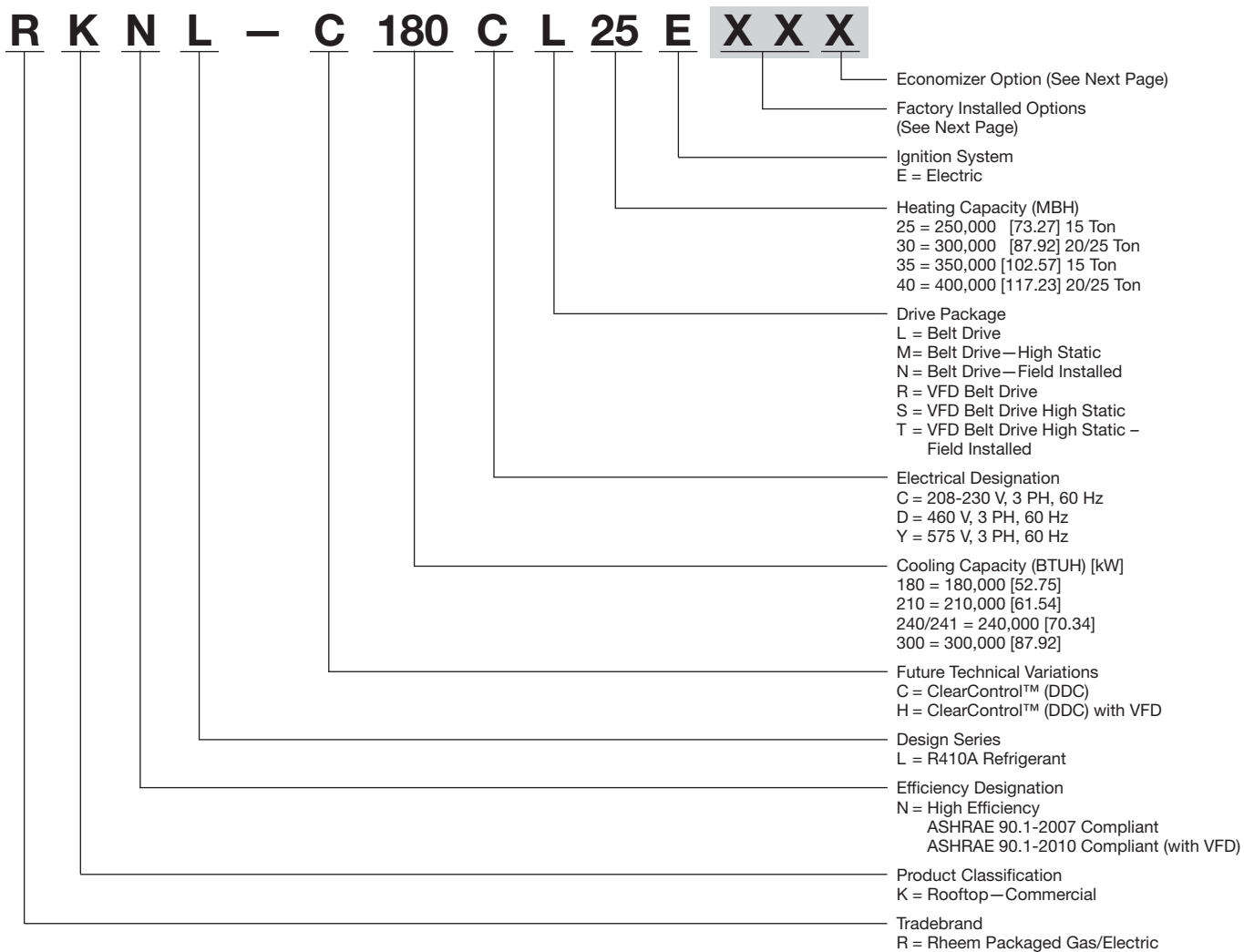
The Space CO₂ level, mixed air temperature, and Economizer Status (Free Cooling Available, Single or Dual Enthalpy) can be read at the unit controller display or remotely through a network connection. Economizer Faults will trigger a network Alarm and can be read at the unit controller display or remotely through a network connection.

The Rheem roofcurb (37) is made for toolless assembly at the jobsite by inserting a pin into a hinge in each corner of the adjacent curb sides (38), which makes the assembly process quick and easy.





Air



[] Designates Metric Conversions

FACTORY INSTALLED OPTION CODES FOR RKNL-C/H (15-25 TON) [52.8-87.9 kW]

Option Code	Hail Guard	Stainless Steel Heat Exchanger	Non-Powered Convenience Outlet/Unfused Service Disconnect	Low Ambient/Comfort Alert
AA	NO OPTIONS			
AD	X			
AJ		X		
AH			X	
AR				X
BF	X		X	
BG	X	X		
CY		X	X	X
JD	X			X
JB		X	X	
KA	X	X		X
DP	X	X	X	X

"X" indicates factory installed option.

ECONOMIZER SELECTION FOR RKNL-C/H (15-25 TON) [52.8-87.9 kW]

Option Code	No Economizer	DDC Single Enthalpy Economizer* With Barometric Relief	DDC Single Enthalpy Economizer* With Barometric Relief and Smoke Detector
A	X		
H		X	
J			X

"X" indicates factory installed option.

*Downflow economizer only.

Instructions for Factory Installed Option(s) Selection

Note: Three characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, nothing follows the model number.

Step 1. After a basic rooftop model is selected, choose a *two-character* option code from the FACTORY INSTALLED OPTION SELECTION TABLE.

Proceed to Step 2.

Step 2. The last option code character is utilized for factory-installed economizers. Choose a character from the FACTORY INSTALLED ECONOMIZER SELECTION TABLE.

Example: RKNL-C240CL40E**XX**X (where **XX** is factory installed option)

Example: No Options

RKNL-C240CL40E

Example: No option with factory installed economizer

RKNL-C240CL40EAAH

Example: Options with low ambient and comfort alert, unwired convenience outlet, unfused service disconnect, and stainless steel heat exchanger with no factory installed economizer

RKNL-C240CL40ECYA

Example: Options same as above with factory installed economizer

RKNL-C240CL40ECYJ

To select an RKNL-C Cooling and Heating unit to meet a job requirement, follow this procedure, with example, using data supplied in this specification sheet.

1. DETERMINE COOLING AND HEATING REQUIREMENTS AND SPECIFIC OPERATING CONDITIONS FROM PLANS AND SPECS.

Example:

Voltage—	208/240V – 3 Phase – 60 Hz
Total Cooling Capacity—	205,000 BTUH [60.0 kW]
Sensible Cooling Capacity—	155,000 BTUH [45.4 kW]
Heating Capacity—	235,000 BTUH [68.8 kW]
*Condenser Entering Air—	95°F [35.0°C] DB
*Evaporator Mixed Air Entering—	65°F [18.3°C] WB 78°F [25.6°C] DB
*Indoor Air Flow (vertical)—	7200 CFM [3398 L/s]
*External Static Pressure—	0.70 in. WG [.17 kPa]

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 20 ton [70.3 kW] unit, enter cooling performance table at 95°F [35.0°C] DB condenser inlet air. Interpolate between 63°F [17.2°C] WB and 67°F [19.4°C] to determine total and sensible capacity and power input for 65°F [18.3°C] WB evaporator inlet air at 7725 CFM [3645 L/s] indoor air flow (table basis):

Total Cooling Capacity = 238,250 BTUH [69.76 kW]
Sensible Cooling Capacity = 192,550 BTUH [56.38 kW]
Power Input (Compressor and Cond. Fans) = 18,200 watts

Use formula in note ① to determine sensible capacity at 78°F [25.6°C] DB evaporator entering air:

$192,550 + (1.10 \times 7,200 \times (1 - 0.11) \times (78 - 80))$
Sensible Cooling Capacity = 178,452 BTUH [52.25 kW]

3. CORRECT CAPACITIES OF STEP 2 FOR ACTUAL AIR FLOW.

Select factors from airflow correction table at 7200 CFM [3398 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity = $238,250 \times 0.99 = 235,868$ BTUH [69.06 kW]
Sensible Capacity = $178,452 \times 0.96 = 171,314$ BTUH [50.16 kW]
Power Input = $18,200 \times 0.99 = 18,018$ Watts

These are Gross Capacities, not corrected for blower motor heat or power.

4. DETERMINE BLOWER SPEED AND WATTS TO MEET SYSTEM DESIGN.

Enter Indoor Blower performance table at 7200 CFM [3398 L/s]. Total ESP (external static pressure) per the spec of 0.70 in. WG [.17 kPa] includes the system duct and grilles. Add from the table “Component Air Resistance,” 0.01 in. WG [.00 kPa] for wet coil, 0.08 in. WG [.02 kPa] for downflow air flow, for a total selection static pressure of 0.79 (0.8) in. WG [.20 kPa], and determine:

RPM = 739
WATTS = 2,862
DRIVE = L (standard 5 H.P. motor)

5. CALCULATE INDOOR BLOWER BTUH HEAT EFFECT FROM MOTOR WATTS, STEP 4.

$2,862 \times 3.412 = 9,765$ BTUH [2.86 kW]

6. CALCULATE NET COOLING CAPACITIES, EQUAL TO GROSS CAPACITY, STEP 3, MINUS INDOOR BLOWER MOTOR HEAT.

Net Total Capacity = $235,868 - 9,765 =$
226,103 BTUH [66.21 kW]
Net Sensible Capacity = $171,314 - 9,765 =$
161,549 BTUH [47.30 kW]

7. CALCULATE UNIT INPUT AND JOB EER.

Total Power Input = 18,018 (step 3) + 2,862 (step 4) = 20,880 Watts

$EER = \frac{\text{Net Total BTUH [kW]} (\text{step 6})}{\text{Power Input, Watts (above)}} = \frac{226,103}{20,880} = 10.83$

8. SELECT UNIT HEATING CAPACITY.

From Physical Data Table read that gas heating output (input rating x efficiency) is:

Heating Capacity = 243,000 BTUH [71.2 kW]

9. CHOOSE MODEL RKNL-C240CL30E.

*NOTE: These operating conditions are typical of a commercial application in a 95°F/79°F [35°C/26°C] design area with indoor design of 76°F [24°C] DB and 50% RH and 10% ventilation air, with the unit roof mounted and centered on the zone it conditions by ducts.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series	C180CL25E	C180CL35E	C180CM25E	C180CM35E
Model RKNL- Series (with VFD)	H180CR25E	H180CR35E	H180CS25E	H180CS35E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	188,000 [53.47]	188,000 [53.47]	188,000 [53.47]	188,000 [53.47]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	6000/5900 [2831/2784]	6000/5900 [2831/2784]	6000/5900 [2831/2784]	6000/5900 [2831/2784]
AHRI Net Cooling Capacity Btu [kW]	172,000 [48.92]	172,000 [48.92]	172,000 [48.92]	172,000 [48.92]
Net Sensible Capacity Btu [kW]	125,700 [35.75]	125,700 [35.75]	125,700 [35.75]	125,700 [35.75]
Net Latent Capacity Btu [kW]	46,300 [13.17]	46,300 [13.17]	46,300 [13.17]	46,300 [13.17]
IEER ³	12.2/14	12.2/14	12.2/14	12.2/14
Net System Power kW	15.93	15.93	15.93	15.93
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	125,000/250,000 [36.62/73.25]	175,000/350,000 [51.27/102.55]	125,000/250,000 [36.62/73.25]	175,000/350,000 [51.27/102.55]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	101,250/202,500 [29.67/59.33]	141,750/283,500 [41.53/83.06]	101,250/202,500 [29.67/59.33]	141,750/283,500 [41.53/83.06]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	30-60 [16.7-33.3] / 30-60 [16.7-33.3]	15-45 [8.3-25] / 15-45 [8.3-25]	30-60 [16.7-33.3] / 30-60 [16.7-33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	3	3	5	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	184	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	205/211 [5812/5982]	205/211 [5812/5982]	205/211 [5812/5982]	205/211 [5812/5982]
Weights				
Net Weight lbs. [kg]	1958 [888]	1971 [894]	1987 [901]	2000 [907]
Ship Weight lbs. [kg]	2084 [945]	2097 [951]	2113 [958]	2126 [964]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8 & 87.9 kW] MODELS

Model RKNL- Series Model RKNL- Series (with VFD)	C180DL25E H180DR25E	C180DL35E H180DR35E	C180DM25E H180DS25E	C180DM35E H180DS35E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	188,000 [53.47]	188,000 [53.47]	188,000 [53.47]	188,000 [53.47]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	6000/5900 [2831/2784]	6000/5900 [2831/2784]	6000/5900 [2831/2784]	6000/5900 [2831/2784]
AHRI Net Cooling Capacity Btu [kW]	172,000 [48.92]	172,000 [48.92]	172,000 [48.92]	172,000 [48.92]
Net Sensible Capacity Btu [kW]	125,700 [35.75]	125,700 [35.75]	125,700 [35.75]	125,700 [35.75]
Net Latent Capacity Btu [kW]	46,300 [13.17]	46,300 [13.17]	46,300 [13.17]	46,300 [13.17]
IEER ³	12.2/14	12.2/14	12.2/14	12.2/14
Net System Power kW	15.93	15.93	15.93	15.93
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	125,000/250,000 [36.62/73.25]	175,000/350,000 [51.27/102.55]	125,000/250,000 [36.62/73.25]	175,000/350,000 [51.27/102.55]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	101,250/202,500 [29.67/59.33]	141,750/283,500 [41.53/83.06]	101,500/203,000 [29.74/59.48]	143,250/286,500 [41.97/83.94]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	30-60 [16.7-33.3] / 30-60 [16.7-33.3]	15-45 [8.3-25] / 15-45 [8.3-25]	30-60 [16.7-33.3] / 30-60 [16.7-33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	3	3	5	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	184	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	205/211 [5812/5982]	205/211 [5812/5982]	205/211 [5812/5982]	205/211 [5812/5982]
Weights				
Net Weight lbs. [kg]	1958 [888]	1971 [894]	1987 [901]	2000 [907]
Ship Weight lbs. [kg]	2084 [945]	2097 [951]	2113 [958]	2126 [964]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series Model RKNL- Series (with VFD)	C180YL35E	C180YM35E	C210CL25E H210CR25E	C210CL35E H210CR35E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	188,000 [53.47]	188,000 [53.47]	212,000 [60.30]	212,000 [60.30]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	6000/5900 [2831/2784]	6000/5900 [2831/2784]	7000/6750 [3303/3185]	7000/6750 [3303/3185]
AHRI Net Cooling Capacity Btu [kW]	172,000 [48.92]	172,000 [48.92]	200,000 [56.88]	200,000 [56.88]
Net Sensible Capacity Btu [kW]	125,700 [35.75]	125,700 [35.75]	150,900 [42.91]	150,900 [42.91]
Net Latent Capacity Btu [kW]	46,300 [13.17]	46,300 [13.17]	49,100 [13.96]	49,100 [13.96]
IEER ³	12.2/14	12.2/14	12.2/14	12.2/14
Net System Power kW	15.93	15.93	18.52	18.52
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	175,000/350,000 [51.27/102.55]	175,000/350,000 [51.27/102.55]	125,000/250,000 [36.62/73.25]	175,000/350,000 [51.27/102.55]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	141,750/283,500 [41.53/83.06]	141,750/283,500 [41.53/83.06]	101,250/202,500 [29.67/59.33]	141,750/283,500 [41.53/83.06]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	30-60 [16.7-33.3] / 30-60 [16.7-33.3]	30-60 [16.7-33.3] / 30-60 [16.7-33.3]	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	14	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	2 / 18 [7]	2 / 18 [7]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	14800 [6984]	14800 [6984]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single	Single	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	3	5	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	184	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	205/211 [5812/5982]	205/211 [5812/5982]	294/302 [8335/8562]	294/302 [8335/8562]
Weights				
Net Weight lbs. [kg]	1986 [901]	2015 [914]	2145 [973]	2158 [979]
Ship Weight lbs. [kg]	2112 [958]	2141 [971]	2272 [1031]	2285 [1036]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series Model RKNL- Series (with VFD)	C210CM25E H210CS25E	C210CM35E H210CS35E	C210DL25E H210DR25E	C210DL35E H210DR35E
Cooling Performance¹	CONTINUED →			
Gross Cooling Capacity Btu [kW]	212,000 [60.30]	212,000 [60.30]	212,000 [60.30]	212,000 [60.30]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	7000/6750 [3303/3185]	7000/6750 [3303/3185]	7000/6750 [3303/3185]	7000/6750 [3303/3185]
AHRI Net Cooling Capacity Btu [kW]	200,000 [56.88]	200,000 [56.88]	200,000 [56.88]	200,000 [56.88]
Net Sensible Capacity Btu [kW]	150,900 [42.91]	150,900 [42.91]	150,900 [42.91]	150,900 [42.91]
Net Latent Capacity Btu [kW]	49,100 [13.96]	49,100 [13.96]	49,100 [13.96]	49,100 [13.96]
IEER ³	12.2/14	12.2/14	12.2/14	12.2/14
Net System Power kW	18.52	18.52	18.52	18.52
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	125,000/250,000 [36.62/73.25]	175,000/350,000 [51.27/102.55]	125,000/250,000 [36.62/73.25]	175,000/350,000 [51.27/102.55]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	101,250/202,500 [29.67/59.33]	141,750/283,500 [41.53/83.06]	101,250/202,500 [29.67/59.33]	141,750/283,500 [41.53/83.06]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	14800 [6984]	14800 [6984]	14800 [6984]	14800 [6984]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	5	5	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	294/302 [8335/8562]	294/302 [8335/8562]	294/302 [8335/8562]	294/302 [8335/8562]
Weights				
Net Weight lbs. [kg]	2174 [986]	2187 [992]	2145 [973]	2158 [979]
Ship Weight lbs. [kg]	2301 [1044]	2314 [1050]	2272 [1031]	2285 [1036]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series	C210DM25E	C210DM35E	C210YL35E	C210YM35E
Model RKNL- Series (with VFD)	H210DS25E	H210DS35E		
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	212,000 [60.30]	212,000 [60.30]	212,000 [60.30]	212,000 [60.30]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	7000/6750 [3303/3185]	7000/6750 [3303/3185]	7000/6750 [3303/3185]	7000/6750 [3303/3185]
AHRI Net Cooling Capacity Btu [kW]	200,000 [56.88]	200,000 [56.88]	200,000 [56.88]	200,000 [56.88]
Net Sensible Capacity Btu [kW]	150,900 [42.91]	150,900 [42.91]	150,900 [42.91]	150,900 [42.91]
Net Latent Capacity Btu [kW]	49,100 [13.96]	49,100 [13.96]	49,100 [13.96]	49,100 [13.96]
IEER ³	12.2/14	12.2/14	12.2/14	12.2/14
Net System Power kW	18.52	18.52	18.52	18.52
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	125,000/250,000 [36.62/73.25]	175,000/350,000 [51.27/102.55]	175,000/350,000 [51.27/102.55]	175,000/350,000 [51.27/102.55]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	101,250/202,500 [29.67/59.33]	141,750/283,500 [41.53/83.06]	141,750/283,500 [41.53/83.06]	141,750/283,500 [41.53/83.06]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	14	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	14800 [6984]	14800 [6984]	14800 [6984]	14800 [6984]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single	Single
No. Motors	1	1	1	1
Motor HP	5	5	3	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	56	184
Filter—Type				
	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	294/302 [8335/8562]	294/302 [8335/8562]	294/302 [8335/8562]	294/302 [8335/8562]
Weights				
Net Weight lbs. [kg]	2174 [986]	2187 [992]	2173 [986]	2202 [999]
Ship Weight lbs. [kg]	2301 [1044]	2314 [1050]	2300 [1043]	2329 [1056]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series Model RKNL- Series (with VFD)	C240CL30E H240CR30E	C240CL40E H240CR40E	C240CM30E H240CS30E	C240CM40E H240CS40E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]
Net Latent Capacity Btu [kW]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]
IEER ³	12.2/14	12.2/14	12.2/14	12.2/14
Net System Power kW	21.11	21.11	21.11	21.11
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	5	5	7 1/2	7 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	213	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]
Weights				
Net Weight lbs. [kg]	2289 [1038]	2303 [1045]	2327 [1056]	2341 [1062]
Ship Weight lbs. [kg]	2415 [1095]	2430 [1102]	2453 [1113]	2468 [1119]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series Model RKNL- Series (with VFD)	C240CN30E H240CT30E	C240CN40E H240CT40E	C240DL30E H240DR30E	C240DL40E H240DR40E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]
Net Latent Capacity Btu [kW]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]
IEER ³	12.2/14	12.2/14	12.2/14	12.2/14
Net System Power kW	21.11	21.11	21.11	21.11
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPCm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPCm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	7 1/2	7 1/2	5	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	213	213	184	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]
Weights				
Net Weight lbs. [kg]	2325 [1055]	2340 [1061]	2289 [1038]	2303 [1045]
Ship Weight lbs. [kg]	2452 [1112]	2466 [1119]	2415 [1095]	2430 [1102]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series Model RKNL- Series (with VFD)	C240DM30E H240DS30E	C240DM40E H240DS40E	C240DN30E H240DT30E	C240DN40E H240DT40E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]
Net Latent Capacity Btu [kW]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]
IEER ³	12.2/14	12.2/14	12.2/14	12.2/14
Net System Power kW	21.11	21.11	21.11	21.11
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	7 1/2	7 1/2	7 1/2	7 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	213	184	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]
Weights				
Net Weight lbs. [kg]	2327 [1056]	2341 [1062]	2325 [1055]	2340 [1061]
Ship Weight lbs. [kg]	2453 [1113]	2468 [1119]	2452 [1112]	2466 [1119]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series	C240YL40E	C240YM40E	C240YN40E
Model RKNL- Series (with VFD)			
Cooling Performance¹			
Gross Cooling Capacity Btu [kW]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]
Net Latent Capacity Btu [kW]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]
IEER ³	12.2/14	12.2/14	12.2/14
Net System Power kW	21.11	21.11	21.11
Heating Performance (Gas)⁴			
Heating Input Btu [kW] (1st Stage / 2nd Stage)	200,000/400,000 [58.6/117.2]	200,000/400,000 [58.6/117.2]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	162,000/324,000 [47.47/94.93]	162,000/324,000 [47.47/94.93]	162,000/324,000 [47.47/94.93]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81
No. Burners	14	14	14
No. Stages	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor			
No./Type	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵			
	91	91	91
Outdoor Coil—Fin Type			
Tube Type	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type			
Tube Type	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Refrigerant Control	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves
	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type			
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller
Drive Type/No. Speeds	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1
No. Motors/HP	19800 [9344]	19800 [9344]	19800 [9344]
Motor RPM	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
	1075	1075	1075
Indoor Fan—Type			
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
No. Speeds (Standard / VFD)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single
Motor HP	1	1	1
Motor RPM	5	7 1/2	7 1/2
Motor Frame Size	1725	1725	1725
	184	213	213
Filter—Type			
Furnished	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes
	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]			
	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]
Weights			
Net Weight lbs. [kg]	2323 [1054]	2361 [1071]	2360 [1070]
Ship Weight lbs. [kg]	2450 [1111]	2488 [1129]	2486 [1128]

CONTINUED →

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8 & 87.9 kW] MODELS

Model RKNL- Series	C241CL40E	C241CM30E	C241CM40E	C241DL30E
Cooling Performance¹	CONTINUED →			
Gross Cooling Capacity Btu [kW]	242,000 [68.83]	242,000 [68.83]	242,000 [68.83]	242,000 [68.83]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7375 [3775/3480]	8000/7375 [3775/3480]	8000/7375 [3775/3480]	8000/7375 [3775/3480]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	167,000 [47.50]	167,000 [47.50]	167,000 [47.50]	167,000 [47.50]
Net Latent Capacity Btu [kW]	63,000 [17.92]	63,000 [17.92]	63,000 [17.92]	63,000 [17.92]
IEER ³	12.2	12.2	12.2	12.2
Net System Power kW	21.11	21.11	21.11	21.11
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] / 15-45 [8.3-25]
Steady State Efficiency (%)	81	81	81	81
No. Burners	14	12	14	12
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	50.8 [4.72]	50.8 [4.72]	50.8 [4.72]	53.3 [4.95]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	5	7 1/2	7 1/2	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	213	213	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	271/227 [7683/6435]	271/227 [7683/6435]	271/227 [7683/6435]	271/227 [7683/6435]
Weights				
Net Weight lbs. [kg]	2303 [1045]	2327 [1056]	2341 [1062]	2289 [1038]
Ship Weight lbs. [kg]	2403 [1090]	2427 [1101]	2441 [1107]	2389 [1084]

See Page 27 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8 & 87.9 kW] MODELS

Model RKNL- Series	C241DL40E	C241DM30E	C241DM40E	C241YL40E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	242,000 [68.83]	242,000 [68.83]	242,000 [68.83]	242,000 [68.83]
EER/SEER ²	10.8/NA	10.8/NA	10.8/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7375 [3775/3480]	8000/7375 [3775/3480]	8000/7375 [3775/3480]	8000/7375 [3775/3480]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	167,000 [47.50]	167,000 [47.50]	167,000 [47.50]	167,000 [47.50]
Net Latent Capacity Btu [kW]	63,000 [17.92]	63,000 [17.92]	63,000 [17.92]	63,000 [17.92]
IEER ³	12.2	12.2	12.2	12.2
Net System Power kW	21.11	21.11	21.11	21.11
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]	162,000/324,000 [47.47/94.93]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	14	12	14	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	50.8 [4.72]	50.8 [4.72]	50.8 [4.72]	50.8 [4.72]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single
No. Motors	1	1	1	1
Motor HP	5	7 1/2	7 1/2	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	213	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	271/227 [7683/6435]	271/227 [7683/6435]	271/227 [7683/6435]	271/227 [7683/6435]
Weights				
Net Weight lbs. [kg]	2303 [1045]	2327 [1056]	2341 [1062]	2323 [1054]
Ship Weight lbs. [kg]	2403 [1090]	2427 [1101]	2441 [1107]	2423 [1099]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8 & 87.9 kW] MODELS

Model RKNL- Series	C241YM40E	C300CL30E
Model RKNL- Series (with VFD)		H300CR30E
Cooling Performance¹		CONTINUED →
Gross Cooling Capacity Btu [kW]	242,000 [68.83]	312000 [88.74]
EER/SEER ²	10.8/NA	9.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7375 [3775/3480]	10000/8350 [4719/3940]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	286,000 [81.34]
Net Sensible Capacity Btu [kW]	167,000 [47.50]	206100 [60.40]
Net Latent Capacity Btu [kW]	63,000 [17.92]	79,900 [23.41]
IEER ³	12.2	11.4/13
Net System Power kW	21.11	29.18
Heating Performance (Gas)⁴		
Heating Input Btu [kW] (1st Stage / 2nd Stage)	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	10-40 [5.6-22.2] / 10-40 [5.6-22.2]
Steady State Efficiency (%)	81	81
No. Burners	14	12
No. Stages	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]
Compressor		
No./Type	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	92
Outdoor Coil—Fin Type	Louvered	Louvered
Tube Type	MicroChannel	Rifled
Tube Size in. [mm] OD	1 [25.4]	0.375 [9.5]
Face Area sq. ft. [sq. m]	50.8 [4.72]	53.3 [4.95]
Rows / FPI [FPcm]	1 / 23 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single	Single / Multiple
No. Motors	1	1
Motor HP	7 1/2	7 1/2
Motor RPM	1725	1725
Motor Frame Size	213	213
Filter—Type	Disposable	Disposable
Furnished	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	271/227 [7683/6435]	339/357 [9611/10121]
Weights		
Net Weight lbs. [kg]	2361 [1071]	2388 [1083]
Ship Weight lbs. [kg]	2461 [1116]	2514 [1140]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series Model RKNL- Series (with VFD)	C300CL40E H300CR40E	C300CM30E H300CS30E	C300CM40E H300CS40E	C300DL30E H300DR30E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	312000 [88.74]	312000 [88.74]	312000 [88.74]	312000 [88.74]
EER/SEER ²	9.8/NA	9.8/NA	9.8/NA	9.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	10000/8350 [4719/3940]	10000/8350 [4719/3940]	10000/8350 [4719/3940]	10000/8350 [4719/3940]
AHRI Net Cooling Capacity Btu [kW]	286,000 [81.34]	286,000 [81.34]	286,000 [81.34]	286,000 [81.34]
Net Sensible Capacity Btu [kW]	206,100 [60.40]	206,100 [60.40]	206,100 [60.40]	206,100 [60.40]
Net Latent Capacity Btu [kW]	79,900 [23.41]	79,900 [23.41]	79,900 [23.41]	79,900 [23.41]
IEER ³	11.4/13	11.4/13	11.4/13	11.4/13
Net System Power kW	29.18	29.18	29.18	29.18
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	10-40 [5.6-22.2] / 10-40 [5.6-22.2]	25-45 [13.9-25] / 15-45 [8.3-25]	10-40 [5.6-22.2] / 10-40 [5.6-22.2]
Steady State Efficiency (%)	81	81	81	81
No. Burners	14	12	14	12
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	92	92	92	92
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	7 1/2	10	10	7 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	213	215	215	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	339/357 [9611/10121]	339/357 [9611/10121]	339/357 [9611/10121]	339/357 [9611/10121]
Weights				
Net Weight lbs. [kg]	2402 [1090]	2399 [1088]	2413 [1095]	2388 [1083]
Ship Weight lbs. [kg]	2529 [1147]	2525 [1145]	2540 [1152]	2514 [1140]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series Model RKNL- Series (with VFD)	C300DL40E H300DR40E	C300DM30E H300DS30E	C300DM40E H300DS40E	C300YL40E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	312000 [88.74]	312000 [88.74]	312000 [88.74]	312,000 [91.42]
EER/SEER ²	9.8/NA	9.8/NA	9.8/NA	9.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	10000/8350 [4719/3940]	10000/8350 [4719/3940]	10000/8350 [4719/3940]	10000/8350 [4719/3940]
AHRI Net Cooling Capacity Btu [kW]	286,000 [81.34]	286,000 [81.34]	286,000 [81.34]	286,000 [81.34]
Net Sensible Capacity Btu [kW]	206100 [60.40]	206100 [60.40]	206100 [60.40]	206100 [60.40]
Net Latent Capacity Btu [kW]	79,900 [23.41]	79,900 [23.41]	79,900 [23.41]	79,900 [23.41]
IEER ³	11.4/13	11.4/13	11.4/13	11.4
Net System Power kW	29.18	29.18	29.18	29.18
Heating Performance (Gas)⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	200,000/400,000 [58.6/117.2]	150,000/300,000 [43.95/87.9]	200,000/400,000 [58.6/117.2]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	162,000/324,000 [47.47/94.93]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.47/94.93]	162,000/324,000 [47.47/94.93]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	10-40 [5.6-22.2] / 10-40 [5.6-22.2]	15-45 [8.3-25] / 15-45 [8.3-25]	15-45 [8.3-25] / 15-45 [8.3-25]
Steady State Efficiency (%)	81	81	81	81
No. Burners	14	12	14	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	92	92	92	92
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single
No. Motors	1	1	1	1
Motor HP	7 1/2	10	10	7 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	213	215	215	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	339/357 [9611/10121]	339/357 [9611/10121]	339/357 [9611/10121]	339/357 [9611/10121]
Weights				
Net Weight lbs. [kg]	2402 [1090]	2399 [1088]	2413 [1095]	2422 [1099]
Ship Weight lbs. [kg]	2529 [1147]	2525 [1145]	2540 [1152]	2549 [1156]

See Page 27 for Notes.

[] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] MODELS

Model RKNL- Series	C300YM40E
Model RKNL- Series (with VFD)	
Cooling Performance¹	
Gross Cooling Capacity Btu [kW]	312,000 [91.42]
EER/SEER ²	9.4/NA
Nominal CFM/AHRI Rated CFM [L/s]	10000/8350 [4719/3940]
AHRI Net Cooling Capacity Btu [kW]	286,000 [81.34]
Net Sensible Capacity Btu [kW]	206,100 [60.40]
Net Latent Capacity Btu [kW]	79,900 [23.41]
IEER ³ Latent (Standard / VFD)	11.4
Net System Power kW	29.18
Heating Performance (Gas)⁴	
Heating Input Btu [kW] (1st Stage / 2nd Stage)	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage / 2nd Stage)	162,000/324,000 [47.47/94.93]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]
Steady State Efficiency (%)	81
No. Burners	14
No. Stages	2
Gas Connection Pipe Size in. [mm]	0.75 [19]
Compressor	
No./Type	2/Scroll
Outdoor Sound Rating (dB)⁵	
92	
Outdoor Coil—Fin Type	
Tube Type	Louvered
Tube Size in. [mm] OD	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]
Rows / FPI [FPcm]	53.3 [4.95]
2 / 22 [9]	
Indoor Coil—Fin Type	
Tube Type	Louvered
Tube Size in. [mm]	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]
Rows / FPI [FPcm]	26.67 [2.48]
Refrigerant Control	4 / 15 [6]
Drain Connection No./Size in. [mm]	TX Valves
1/1 [25.4]	
Outdoor Fan—Type	
No. Used/Diameter in. [mm]	Propeller
Drive Type/No. Speeds	6/24 [609.6]
CFM [L/s]	Direct/1
No. Motors/HP	19800 [9344]
Motor RPM	6 at 1/3 HP
1075	
Indoor Fan—Type	
No. Used/Diameter in. [mm]	FC Centrifugal
Drive Type	2/18x9 [457x229]
No. Speeds (Standard / VFD)	Belt (Adjustable)
No. Motors	Single
Motor HP	1
Motor RPM	10
Motor Frame Size	1725
215	
Filter—Type	
Furnished	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes
(8)2x25x20 [51x635x508]	
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	
339/357 [9611/10121]	
Weights	
Net Weight lbs. [kg]	2433 [1104]
Ship Weight lbs. [kg]	2560 [1161]

See Page 27 for Notes.

[] Designates Metric Conversions

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
2. EER is rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360.
4. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standard Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
5. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.
6. 25 ton model (C300) is outside the scope of AHRI Standard 340/360.



GROSS SYSTEMS PERFORMANCE DATA—C/H180

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			7200 [3398]	5900 [2784]	4800 [2265]	7200 [3398]	5900 [2784]	4800 [2265]	7200 [3398]	5900 [2784]	4800 [2265]
DR ①			.04	.08	.13	.04	.08	.13	.04	.08	.13
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	226.5 [66.4]	217.8 [63.8]	210.4 [61.7]	214.3 [62.8]	206.0 [60.4]	199.0 [58.3]	206.3 [60.5]	198.4 [58.1]	191.7 [56.2]
		Sens BTUH [kW]	148.8 [43.6]	126.2 [37.0]	108.5 [31.8]	174.1 [51.0]	149.6 [43.9]	130.2 [38.2]	193.4 [56.7]	167.5 [49.1]	146.8 [43.0]
		Power	12.6	12.3	12.1	12.4	12.2	12.0	12.2	12.0	11.8
	80 [26.7]	Total BTUH [kW]	222.2 [65.1]	213.6 [62.6]	206.4 [60.5]	209.9 [61.5]	201.8 [59.1]	195.0 [57.1]	202.0 [59.2]	194.2 [56.9]	187.6 [55.0]
		Sens BTUH [kW]	146.6 [43.0]	124.3 [36.4]	106.9 [31.3]	171.9 [50.4]	147.8 [43.3]	128.7 [37.7]	191.3 [56.1]	165.7 [48.6]	145.3 [42.6]
		Power	13.1	12.9	12.7	13.0	12.7	12.5	12.8	12.6	12.4
	85 [29.4]	Total BTUH [kW]	217.5 [63.7]	209.1 [61.3]	202.0 [59.2]	205.3 [60.2]	197.3 [57.8]	190.7 [55.9]	197.3 [57.8]	189.7 [55.6]	183.3 [53.7]
		Sens BTUH [kW]	144.1 [42.2]	122.3 [35.9]	105.2 [30.8]	169.5 [49.7]	145.7 [42.7]	127.0 [37.2]	188.8 [55.3]	163.6 [48.0]	143.5 [42.1]
		Power	13.8	13.5	13.3	13.6	13.4	13.1	13.5	13.2	13.0
	90 [32.2]	Total BTUH [kW]	212.5 [62.3]	204.3 [59.9]	197.4 [57.9]	200.2 [58.7]	192.5 [56.4]	186.0 [54.5]	192.3 [56.4]	184.9 [54.2]	178.6 [52.3]
		Sens BTUH [kW]	141.4 [41.5]	120.0 [35.2]	103.3 [30.3]	166.7 [48.9]	143.5 [42.1]	125.1 [36.7]	186.2 [54.6]	161.4 [47.3]	141.6 [41.5]
		Power	14.5	14.2	14.0	14.3	14.0	13.8	14.2	13.9	13.7
	95 [35]	Total BTUH [kW]	207.2 [60.7]	199.2 [58.4]	192.4 [56.4]	194.9 [57.1]	187.4 [54.9]	181.0 [53.0]	187.0 [54.8]	179.8 [52.7]	173.7 [50.9]
		Sens BTUH [kW]	138.5 [40.6]	117.6 [34.5]	101.2 [29.7]	163.9 [48.0]	141.1 [41.4]	123.0 [36.1]	183.3 [53.7]	159.0 [46.6]	139.6 [40.9]
		Power	15.2	14.9	14.7	15.1	14.8	14.5	14.9	14.6	14.4
	100 [37.8]	Total BTUH [kW]	201.5 [59.1]	193.7 [56.8]	187.2 [54.9]	189.2 [55.4]	181.9 [53.3]	175.8 [51.5]	181.3 [53.1]	174.3 [51.1]	168.4 [49.4]
		Sens BTUH [kW]	135.4 [39.7]	115.0 [33.7]	99.1 [29.1]	160.7 [47.1]	138.4 [40.6]	120.8 [35.4]	180.1 [52.8]	156.3 [45.8]	137.3 [40.2]
		Power	16.0	15.7	15.4	15.9	15.6	15.3	15.7	15.4	15.1
	105 [40.6]	Total BTUH [kW]	195.5 [57.3]	188.0 [55.1]	181.6 [53.2]	183.2 [53.7]	176.2 [51.6]	170.2 [49.9]	175.3 [51.4]	168.5 [49.4]	162.8 [47.7]
		Sens BTUH [kW]	132.0 [38.7]	112.2 [32.9]	96.6 [28.3]	157.3 [46.1]	135.6 [39.8]	118.3 [34.7]	175.3 [51.4]	153.4 [45.0]	134.8 [39.5]
		Power	16.9	16.5	16.3	16.7	16.4	16.1	16.5	16.2	16.0
	110 [43.3]	Total BTUH [kW]	189.2 [55.4]	181.9 [53.3]	175.7 [51.5]	176.9 [51.8]	170.1 [49.9]	164.3 [48.2]	169.0 [49.5]	162.5 [47.6]	156.9 [46.0]
		Sens BTUH [kW]	128.4 [37.6]	109.1 [32.0]	93.9 [27.5]	153.7 [45.1]	132.6 [38.9]	115.8 [33.9]	169.0 [49.5]	150.5 [44.1]	132.3 [38.8]
		Power	17.8	17.4	17.1	17.6	17.3	17.0	17.5	17.1	16.8
	115 [46.1]	Total BTUH [kW]	182.5 [53.5]	175.5 [51.4]	169.5 [49.7]	170.2 [49.9]	163.7 [48.0]	158.1 [46.3]	162.3 [47.6]	156.0 [45.7]	150.8 [44.2]
		Sens BTUH [kW]	124.5 [36.5]	105.9 [31.0]	91.2 [26.7]	149.9 [43.9]	129.4 [37.9]	113.0 [33.1]	162.3 [47.6]	147.2 [43.2]	129.6 [38.0]
		Power	18.7	18.4	18.1	18.6	18.2	17.9	18.4	18.1	17.8

GROSS SYSTEMS PERFORMANCE DATA—C/H210

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			8400 [3964]	7025 [3315]	5600 [2643]	8400 [3964]	7025 [3315]	5600 [2643]	8400 [3964]	7025 [3315]	5600 [2643]
DR ①			.06	.09	.13	.06	.09	.13	.06	.09	.13
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	258.4 [75.7]	249.5 [73.1]	240.3 [70.4]	244.1 [71.5]	235.7 [69.1]	227.0 [66.5]	231.9 [68.0]	223.9 [65.6]	215.7 [63.2]
		Sens BTUH [kW]	193.9 [56.8]	168.8 [49.5]	144.5 [42.4]	224.6 [65.8]	197.4 [57.9]	170.8 [50.1]	231.9 [68.0]	217.1 [63.6]	189.1 [55.4]
		Power	13.0	12.8	12.5	12.8	12.6	12.4	12.7	12.4	12.2
	80 [26.7]	Total BTUH [kW]	252.7 [74.1]	244.0 [71.5]	235.0 [68.9]	238.4 [69.9]	230.2 [67.5]	221.7 [65.0]	226.2 [66.3]	218.4 [64.0]	210.4 [61.7]
		Sens BTUH [kW]	182.3 [53.4]	158.3 [46.4]	135.2 [39.6]	212.9 [62.4]	186.9 [54.8]	161.5 [47.3]	226.2 [66.3]	206.6 [60.6]	179.8 [52.7]
		Power	13.6	13.4	13.1	13.4	13.2	13.0	13.3	13.0	12.8
	85 [29.4]	Total BTUH [kW]	246.7 [72.3]	238.2 [69.8]	229.4 [67.2]	232.4 [68.1]	224.4 [65.8]	216.1 [63.3]	220.2 [64.5]	212.6 [62.3]	204.8 [60.0]
		Sens BTUH [kW]	171.9 [50.4]	149.0 [43.7]	126.9 [37.2]	202.7 [59.4]	177.7 [52.1]	153.4 [45.0]	220.2 [64.5]	197.4 [57.9]	171.7 [50.3]
		Power	14.2	14.0	13.7	14.1	13.8	13.6	13.9	13.7	13.4
	90 [32.2]	Total BTUH [kW]	240.4 [70.5]	232.1 [68.0]	223.5 [65.5]	226.1 [66.3]	218.3 [64.0]	210.3 [61.6]	213.9 [62.7]	206.5 [60.5]	198.9 [58.3]
		Sens BTUH [kW]	162.9 [47.8]	141.0 [41.3]	119.9 [35.1]	193.6 [56.7]	169.6 [49.7]	146.3 [42.9]	213.9 [62.7]	189.3 [55.5]	164.5 [48.2]
		Power	14.9	14.7	14.4	14.8	14.5	14.3	14.6	14.4	14.1
	95 [35]	Total BTUH [kW]	233.8 [68.5]	225.7 [66.1]	217.4 [63.7]	219.5 [64.3]	212.0 [62.1]	204.1 [59.8]	207.3 [60.8]	200.2 [58.7]	192.8 [56.5]
		Sens BTUH [kW]	155.3 [45.5]	134.2 [39.3]	114.0 [33.4]	186.0 [54.5]	162.9 [47.8]	140.3 [41.1]	207.0 [60.7]	182.6 [53.5]	158.6 [46.5]
		Power	15.7	15.4	15.1	15.5	15.2	15.0	15.3	15.1	14.8
	100 [37.8]	Total BTUH [kW]	226.9 [66.5]	219.1 [64.2]	211.0 [61.8]	212.6 [62.3]	205.3 [60.2]	197.7 [57.9]	200.4 [58.7]	193.5 [56.7]	186.4 [54.6]
		Sens BTUH [kW]	149.0 [43.7]	128.7 [37.7]	109.2 [32.0]	179.6 [52.6]	157.3 [46.1]	135.5 [39.7]	200.4 [58.7]	177.0 [51.9]	153.8 [45.1]
		Power	16.5	16.2	15.9	16.3	16.0	15.7	16.1	15.9	15.6
	105 [40.6]	Total BTUH [kW]	219.7 [64.4]	212.1 [62.2]	204.3 [59.9]	205.4 [60.2]	198.3 [58.1]	191.0 [56.0]	193.2 [56.6]	186.5 [54.7]	179.7 [52.7]
		Sens BTUH [kW]	143.9 [42.2]	124.3 [36.4]	105.5 [30.9]	174.6 [51.2]	152.9 [44.8]	131.8 [38.6]	193.2 [56.6]	172.7 [50.6]	150.2 [44.0]
		Power	17.3	17.0	16.7	17.1	16.8	16.5	17.0	16.7	16.4
	110 [43.3]	Total BTUH [kW]	212.2 [62.2]	204.9 [60.1]	197.3 [57.8]	197.9 [58.0]	191.1 [56.0]	184.0 [53.9]	185.7 [54.4]	179.3 [52.5]	172.7 [50.6]
		Sens BTUH [kW]	140.3 [41.1]	121.3 [35.6]	102.9 [30.2]	171.0 [50.1]	149.9 [43.9]	129.3 [37.9]	185.7 [54.4]	169.6 [49.7]	147.6 [43.3]
		Power	18.2	17.9	17.5	18.0	17.7	17.4	17.9	17.6	17.2
	115 [46.1]	Total BTUH [kW]	204.4 [59.9]	197.3 [57.8]	190.1 [55.7]	190.1 [55.7]	183.5 [53.8]	176.8 [51.8]	177.9 [52.1]	171.8 [50.3]	165.4 [48.5]
		Sens BTUH [kW]	138.1 [40.5]	119.4 [35.0]	101.6 [29.8]	168.7 [49.5]	148.0 [43.4]	127.9 [37.5]	177.9 [52.1]	167.8 [49.2]	146.1 [42.8]
		Power	19.1	18.8	18.5	19.0	18.6	18.3	18.8	18.5	18.1

DR —Depression ratio
dbE —Entering air dry bulb
wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions





GROSS SYSTEMS PERFORMANCE DATA—C/H240

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			9600 [4531]	7725 [3646]	6400 [3020]	9600 [4531]	7725 [3646]	6400 [3020]	9600 [4531]	7725 [3646]	6400 [3020]
DR ①			.06	.11	.15	.06	.11	.15	.06	.11	.15
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	283.5 [83.1]	271.5 [79.6]	263.0 [77.1]	269.6 [79.0]	258.2 [75.7]	250.2 [73.3]	258.7 [75.8]	247.8 [72.6]	240.0 [70.3]
		Sens BTUH [kW]	187.4 [54.9]	156.3 [45.8]	136.0 [39.9]	220.5 [64.6]	186.7 [54.7]	164.4 [48.2]	245.6 [72.0]	209.7 [61.5]	185.7 [54.4]
		Power	15.4	15.1	14.9	15.3	15.0	14.7	15.1	14.8	14.6
	80 [26.7]	Total BTUH [kW]	280.8 [82.3]	269.0 [78.8]	260.6 [76.4]	267.0 [78.2]	255.7 [74.9]	247.7 [72.6]	256.1 [75.1]	245.3 [71.9]	237.6 [69.6]
		Sens BTUH [kW]	186.4 [54.6]	155.6 [45.6]	135.4 [39.7]	219.6 [64.4]	186.0 [54.5]	163.8 [48.0]	244.7 [71.7]	209.0 [61.3]	185.2 [54.3]
		Power	16.2	15.9	15.6	16.0	15.7	15.5	15.9	15.5	15.3
	85 [29.4]	Total BTUH [kW]	277.4 [81.3]	265.7 [77.9]	257.4 [75.4]	263.5 [77.2]	252.4 [74.0]	244.5 [71.7]	252.6 [74.0]	242.0 [70.9]	234.4 [68.7]
		Sens BTUH [kW]	184.9 [54.2]	154.4 [45.3]	134.4 [39.4]	218.1 [63.9]	184.8 [54.2]	162.7 [47.7]	243.1 [71.3]	207.8 [60.9]	184.2 [54.0]
		Power	17.0	16.7	16.4	16.9	16.5	16.3	16.7	16.3	16.1
90 [32.2]	Total BTUH [kW]	273.1 [80.0]	261.6 [76.7]	253.4 [74.3]	259.3 [76.0]	248.3 [72.8]	240.6 [70.5]	248.4 [72.8]	237.9 [69.7]	230.5 [67.6]	
	Sens BTUH [kW]	182.8 [53.6]	152.7 [44.8]	132.9 [39.0]	216.2 [63.4]	183.2 [53.7]	161.5 [47.3]	241.1 [70.7]	206.1 [60.4]	182.8 [53.6]	
	Power	17.9	17.5	17.3	17.7	17.4	17.1	17.6	17.2	16.9	
95 [35]	Total BTUH [kW]	268.1 [78.6]	256.7 [75.2]	248.7 [72.9]	254.2 [74.5]	243.5 [71.4]	235.9 [69.1]	243.3 [71.3]	233.0 [68.3]	225.8 [66.2]	
	Sens BTUH [kW]	180.2 [52.8]	150.5 [44.1]	131.1 [38.4]	213.5 [62.6]	181.1 [53.1]	159.6 [46.8]	238.6 [69.9]	204.0 [59.8]	181.0 [53.1]	
	Power	18.8	18.4	18.2	18.7	18.3	18.0	18.5	18.1	17.8	
100 [37.8]	Total BTUH [kW]	262.2 [76.8]	251.1 [73.6]	243.3 [71.3]	248.3 [72.8]	237.8 [69.7]	230.4 [67.5]	237.4 [69.6]	227.4 [66.6]	220.3 [64.6]	
	Sens BTUH [kW]	177.1 [51.9]	148.0 [43.4]	129.0 [37.8]	210.4 [61.7]	178.5 [52.3]	157.4 [46.1]	235.3 [69.0]	201.4 [59.0]	178.7 [52.4]	
	Power	19.8	19.4	19.1	19.6	19.2	18.9	19.5	19.1	18.8	
105 [40.6]	Total BTUH [kW]	255.5 [74.9]	244.7 [71.7]	237.1 [69.5]	241.6 [70.8]	231.4 [67.8]	224.2 [65.7]	230.7 [67.6]	221.0 [64.8]	214.1 [62.7]	
	Sens BTUH [kW]	173.4 [50.8]	145.0 [42.5]	126.4 [37.1]	206.6 [60.6]	175.4 [51.4]	154.7 [45.3]	230.7 [67.6]	198.4 [58.2]	176.2 [51.6]	
	Power	20.8	20.4	20.1	20.7	20.2	19.9	20.5	20.1	19.8	
110 [43.3]	Total BTUH [kW]	248.0 [72.7]	237.5 [69.6]	230.1 [67.4]	234.1 [68.6]	224.2 [65.7]	217.2 [63.7]	223.2 [65.4]	213.8 [62.7]	207.1 [60.7]	
	Sens BTUH [kW]	169.2 [49.6]	141.5 [41.5]	123.4 [36.2]	202.4 [59.3]	171.9 [50.4]	151.7 [44.5]	223.2 [65.4]	194.9 [57.1]	173.1 [50.7]	
	Power	21.9	21.5	21.1	21.7	21.3	21.0	21.6	21.1	20.8	
115 [46.1]	Total BTUH [kW]	239.6 [70.2]	229.5 [67.3]	222.3 [65.1]	225.8 [66.2]	216.2 [63.4]	209.5 [61.4]	214.9 [63.0]	205.8 [60.3]	199.4 [58.4]	
	Sens BTUH [kW]	164.3 [48.2]	137.5 [40.3]	119.9 [35.1]	197.7 [58.0]	168.0 [49.2]	148.4 [43.5]	214.9 [63.0]	191.0 [56.0]	169.8 [49.8]	
	Power	23.1	22.6	22.2	22.9	22.4	22.1	22.7	22.2	21.9	

DR —Depression ratio
dbE —Entering air dry bulb
wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions



GROSS SYSTEMS PERFORMANCE DATA—C241

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			8030 [3790]	7300 [3445]	6205 [2928]	8030 [3790]	7300 [3445]	6205 [2928]	8030 [3790]	7300 [3445]	6205 [2928]
DR ①			.01	.08	.05	.01	.08	.05	.01	.08	.05
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2
	125 [51.7]	Total BTUH [kW] Sens BTUH [kW] Power	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2	245.9 [72.1] 186.8 [54.7] 16.5	241.5 [70.8] 178.5 [52.3] 16.4	234.9 [68.8] 166 [48.6] 16.2

DR —Depression ratio
dbE —Entering air dry bulb
wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions





GROSS SYSTEMS PERFORMANCE DATA—C/H300

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		12000 [5663]	9475 [4472]	8000 [3776]	12000 [5663]	9475 [4472]	8000 [3776]	12000 [5663]	9475 [4472]	8000 [3776]	
DR ①		.02	.08	0.11	.02	.08	0.11	.02	.08	0.11	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	376.4 [110.3] 251.6 [73.7] 20.8	359.0 [105.2] 206.4 [60.5] 20.3	348.9 [102.3] 182.0 [53.3] 20.0	358.0 [104.9] 294.2 [86.2] 20.5	341.5 [100.1] 245.2 [71.9] 20.0	331.8 [97.2] 218.4 [64.0] 19.7	347.0 [101.7] 326.2 [95.6] 20.2	330.9 [97.0] 274.0 [80.3] 19.7	321.6 [94.3] 245.5 [72.0] 19.5
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	369.9 [108.4] 248.1 [72.7] 21.7	352.8 [103.4] 203.6 [59.7] 21.2	342.8 [100.5] 179.5 [52.6] 21.0	351.5 [103.0] 290.8 [85.2] 21.4	335.2 [98.2] 242.3 [71.0] 21.0	325.7 [95.5] 215.9 [63.3] 20.7	340.4 [99.8] 322.6 [94.6] 21.2	324.6 [95.1] 271.1 [79.5] 20.7	315.5 [92.5] 243.0 [71.2] 20.4
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	362.5 [106.2] 244.2 [71.6] 22.8	345.7 [101.3] 200.4 [58.7] 22.2	335.9 [98.4] 176.8 [51.8] 21.9	344.1 [100.8] 286.8 [84.1] 22.5	328.2 [96.2] 239.2 [70.1] 22.0	318.9 [93.5] 213.2 [62.5] 21.7	333.0 [97.6] 318.6 [93.4] 22.2	317.6 [93.1] 268.0 [78.6] 21.7	308.6 [90.4] 240.2 [70.4] 21.4
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	354.3 [103.8] 239.8 [70.3] 23.9	338.0 [99.1] 197.0 [57.7] 23.3	328.4 [96.2] 173.8 [50.9] 23.0	335.9 [98.4] 282.4 [82.8] 23.6	320.4 [93.9] 235.7 [69.1] 23.0	311.3 [91.2] 210.1 [61.6] 22.7	324.9 [95.2] 314.4 [92.2] 23.3	309.8 [90.8] 264.5 [77.5] 22.7	301.1 [88.2] 237.2 [69.5] 22.4
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	345.4 [101.2] 235.2 [68.9] 25.0	329.4 [96.5] 193.2 [56.6] 24.4	320.1 [93.8] 170.5 [50.0] 24.1	327.0 [95.8] 277.8 [81.4] 24.7	311.9 [91.4] 232.0 [68.0] 24.1	303.1 [88.8] 207.0 [60.7] 23.8	315.9 [92.6] 309.7 [90.8] 24.4	301.3 [88.3] 260.8 [76.4] 23.9	292.8 [85.8] 234.0 [68.6] 23.5
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	335.7 [98.4] 230.3 [67.5] 26.2	320.2 [93.8] 189.3 [55.5] 25.6	311.1 [91.2] 167.1 [49.0] 25.3	317.3 [93.0] 272.9 [80.0] 25.9	302.6 [88.7] 228.0 [66.8] 25.3	294.1 [86.2] 203.6 [59.7] 25.0	306.2 [89.7] 304.7 [89.3] 25.6	292.1 [85.6] 256.9 [75.3] 25.1	283.8 [83.2] 230.5 [67.6] 24.7
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	325.2 [95.3] 224.9 [65.9] 27.5	310.2 [90.9] 185.0 [54.2] 26.9	301.4 [88.3] 163.4 [47.9] 26.5	306.8 [89.9] 267.5 [78.4] 27.2	292.6 [85.8] 223.7 [65.6] 26.6	284.3 [83.3] 199.8 [58.6] 26.2	295.7 [86.7] 295.7 [86.7] 26.9	282.0 [82.6] 252.5 [74.0] 26.3	274.1 [80.3] 226.8 [66.5] 25.9
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	313.9 [92.0] 219.3 [64.3] 28.9	299.4 [87.7] 180.5 [52.9] 28.2	290.9 [85.3] 159.5 [46.8] 27.8	295.5 [86.6] 261.9 [76.8] 28.6	281.9 [82.6] 219.3 [64.3] 27.9	273.9 [80.3] 195.9 [57.4] 27.5	284.4 [83.3] 284.4 [83.4] 28.3	271.3 [79.5] 248.1 [72.7] 27.6	263.6 [77.3] 222.9 [65.3] 27.2
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	301.8 [88.4] 213.2 [62.5] 30.3	287.9 [84.4] 175.7 [51.5] 29.6	279.7 [82.0] 155.3 [45.5] 29.2	283.4 [83.1] 255.8 [75.0] 30.0	270.4 [79.2] 214.5 [62.9] 29.3	262.7 [77.0] 191.8 [56.2] 28.9	272.4 [79.8] 272.4 [79.8] 29.7	259.8 [76.1] 243.3 [71.3] 29.0	252.4 [74.0] 218.8 [64.1] 28.6

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions



AIRFLOW PERFORMANCE — 15 TON [52.8 kW]—SIDEFLOW

Model RKNL-C/H180 Voltage 208/230, 460, 575 — 3 Phase

Air Flow CFM [L/s]	Model RKNL-C/H180												Voltage 208/230, 460, 575 — 3 Phase												External Static Pressure—Inches of Water [kPa]																							
	0.1 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [0.12]		0.6 [0.15]		0.7 [0.17]		0.8 [0.20]		0.9 [0.22]		1.0 [0.25]		1.1 [0.27]		1.2 [0.30]		1.3 [0.32]		1.4 [0.35]		1.5 [0.37]		1.6 [0.40]		1.7 [0.42]		1.8 [0.45]		1.9 [0.47]		2.0 [0.50]									
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W								
4800 [2265]	—	—	—	—	—	—	—	—	—	—	583	1393	608	1508	632	1621	656	1732	679	1841	701	1947	723	2052	744	2154	764	2254	785	2326	805	2430	825	2537	844	2647	863	2761	881	2878								
5000 [2359]	—	—	—	—	—	—	—	—	—	—	591	1476	616	1593	640	1707	663	1820	686	1930	708	2038	729	2145	750	2246	771	2350	791	2420	811	2523	836	2640	855	2755	868	2877	887	2995								
5200 [2454]	—	—	—	—	—	—	—	—	—	575	1442	600	1562	624	1681	648	1797	671	1911	693	2023	715	2133	736	2241	757	2346	777	2410	791	2520	811	2633	836	2749	855	2869	874	2992	887	3118							
5400 [2548]	—	—	—	—	—	—	—	—	583	1530	608	1652	632	1772	655	1890	678	2005	701	2119	722	2231	743	2340	764	2447	784	2512	804	2626	823	2744	842	2865	861	2989	879	3117	897	3248								
5600 [2643]	—	—	—	—	—	—	—	—	592	1621	616	1745	640	1866	663	1986	686	2103	708	2218	729	2331	750	2447	770	2551	791	2620	810	2739	838	2861	849	2987	867	3116	885	3248	903	3384								
5800 [2737]	—	—	—	—	—	—	—	576	1588	601	1715	625	1840	649	1964	672	2085	694	2204	716	2321	737	2436	757	2548	778	2614	798	2735	817	2858	836	2985	855	3116	873	3249	891	3386	909	3527							
6000 [2831]	—	—	—	—	—	—	—	585	1683	610	1813	634	1940	657	2065	680	2187	702	2308	724	2426	744	2543	765	2657	785	2731	805	2856	824	2984	843	3116	861	3251	879	3389	897	3531	914	3676							
6200 [2926]	—	—	—	—	—	—	—	570	1650	595	1783	619	1913	643	2042	666	2169	688	2293	710	2415	731	2535	752	2653	773	2728	792	2854	811	2984	831	3116	850	3253	868	3392	886	3535	903	3682	920	3832					
6400 [3020]	—	—	—	—	—	—	—	579	1750	604	1885	628	2017	652	2148	674	2276	697	2402	718	2526	739	2648	760	2767	780	2852	800	2983	819	3118	838	3255	856	3396	875	3541	882	3688	909	3833	926	3994					
6600 [3114]	—	—	—	—	—	—	—	589	1854	614	1991	637	2125	661	2257	683	2386	705	2514	727	2640	748	2763	768	2884	788	2984	808	3117	827	3258	840	3380	863	3548	881	3695	899	3847	916	4003	—	—					
6800 [3209]	—	—	—	574	1822	599	1961	623	2099	647	2235	670	2369	692	2500	714	2629	735	2756	756	2882	776	2984	796	3121	815	3262	834	3405	853	3552	871	3702	888	3856	905	4013	922	4173	—	—							
7000 [3303]	—	—	—	584	1930	609	2072	633	2211	656	2349	679	2484	701	2617	723	2748	744	2877	764	3003	785	3124	804	3265	823	3410	842	3559	860	3710	878	3865	895	4024	912	4185	929	4350	—	—							
7200 [3398]	570	1897	595	2042	619	2185	643	2327	666	2466	689	2602	711	2737	732	2870	753	3000	773	3127	793	3270	812	3416	831	3566	849	3719	868	3875	885	4035	903	4198	919	4364	—	—	—	—								

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L, R						M, S					
Motor H.P. [W]	3.0 [2237.1]						5.0 [3728.5]					
Blower Sheave	BK105H						BK105H					
Motor Sheave	1VL-44						1VP-56					
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6
RPM	733	701	669	640	605	572	927	903	873	840	808	775

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.



Air

Indoor Airflow Performance
RKNL-C/H Series

COMPONENT AIR RESISTANCE — 15 TON [52.8 kW]

CFM [L/s]	4800	5000	5200	5400	5600	5800	6000	6200	6400	6600	6800	7000	7200
	[2265]	[2360]	[2454]	[2549]	[2643]	[2737]	[2832]	[2926]	[3020]	[3115]	[3209]	[3304]	[3398]
	Resistance — Inches of Water [kPa]												
Wet Coil	0.03 [0.01]	0.04 [0.01]	0.05 [0.01]	0.06 [0.01]	0.06 [0.01]	0.07 [0.02]	0.08 [0.02]	0.09 [0.02]	0.10 [0.02]	0.10 [0.02]	0.11 [0.03]	0.12 [0.03]	0.13 [0.03]
Downflow	0.05 [0.01]	0.05 [0.01]	0.05 [0.01]	0.05 [0.01]	0.05 [0.01]	0.05 [0.01]	0.05 [0.01]	0.06 [0.01]	0.06 [0.01]	0.06 [0.01]	0.07 [0.02]	0.08 [0.02]	0.08 [0.02]
Downflow Economizer R.A. Damper Open	0.09 [0.02]	0.10 [0.02]	0.10 [0.02]	0.11 [0.03]	0.12 [0.03]	0.13 [0.03]	0.13 [0.03]	0.14 [0.03]	0.15 [0.04]	0.16 [0.04]	0.16 [0.04]	0.17 [0.04]	0.18 [0.04]
Horizontal Economizer R.A. Damper Open	0.00 [0.00]	0.01 [0.00]	0.01 [0.00]	0.02 [0.00]	0.02 [0.00]	0.03 [0.01]	0.03 [0.01]	0.04 [0.01]	0.04 [0.01]	0.05 [0.01]	0.05 [0.01]	0.06 [0.01]	0.06 [0.01]
Concentric Grill RXRN-AD80 or RXRN-AD81 & Transition RXMC-CJ07	0.21 [0.05]	0.25 [0.06]	0.28 [0.07]	0.32 [0.08]	0.35 [0.09]	0.39 [0.10]	0.43 [0.11]	0.46 [0.11]	0.50 [0.12]	0.54 [0.13]	0.57 [0.14]	0.61 [0.15]	0.64 [0.16]
Pressure Drop MERV 8	0.068 [0.02]	0.072 [0.02]	0.076 [0.02]	0.08 [0.02]	0.084 [0.02]	0.088 [0.02]	0.092 [0.02]	0.096 [0.02]	0.1 [0.02]	0.104 [0.02]	0.108 [0.03]	0.112 [0.03]	0.116 [0.03]
Pressure Drop MERV 13	0.009 [0.00]	0.015 [0.00]	0.021 [0.00]	0.028 [0.01]	0.034 [0.01]	0.04 [0.01]	0.046 [0.01]	0.052 [0.01]	0.058 [0.01]	0.065 [0.02]	0.071 [0.02]	0.077 [0.02]	0.083 [0.02]

NOTE: Add component resistance to duct resistance to determine total external static pressure.

AIRFLOW CORRECTION FACTORS — 15 TON [52.8 kW]

ACTUAL—CFM [L/s]	4800 [2265]	5000 [2360]	5200 [2454]	5400 [2549]	5600 [2643]	5800 [2737]	6000 [2832]	6200 [2926]	6400 [3020]	6600 [3115]	6800 [3209]	7000 [3304]	7200 [3398]
TOTAL MBTUH	0.97	0.97	0.98	0.98	0.99	1.00	1.00	1.01	1.02	1.02	1.03	1.03	1.04
SENSIBLE MBTUH	0.87	0.90	0.92	0.94	0.97	0.99	1.02	1.04	1.06	1.09	1.11	1.14	1.16
POWER kW	0.98	0.98	0.99	0.99	0.99	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02

NOTES: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions



INTEGRATED AIR & WATER

AIRFLOW PERFORMANCE — 17.5 TON [61.5 kW]—SIDEFLOW

Air Flow CFM [L/s]	Model RKNL-C/H210												Voltage 208/230, 460, 575 — 3 Phase												External Static Pressure—Inches of Water [kPa]																			
	0.1 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [0.12]		0.6 [0.15]		0.7 [0.17]		0.8 [0.20]		0.9 [0.22]		1.0 [0.25]		1.1 [0.27]		1.2 [0.30]		1.3 [0.32]		1.4 [0.35]		1.5 [0.37]		1.6 [0.40]		1.7 [0.42]		1.8 [0.45]		1.9 [0.47]		2.0 [0.50]					
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W				
5600 [2643]	—	—	—	—	—	—	—	599	1627	625	1762	651	1900	676	2042	701	2186	725	2334	749	2484	773	2638	796	2795	819	2955	841	3119	863	3285	885	3455	906	3628	927	3803	—	—	—	—	—	—	
5800 [2737]	—	—	—	—	—	—	—	610	1719	635	1856	661	1996	685	2140	710	2286	734	2436	757	2588	780	2744	803	2903	825	3065	847	3230	869	3399	890	3570	911	3745	931	3923	—	—	—	—	—	—	
6000 [2831]	—	—	—	—	—	—	—	621	1822	646	1961	671	2103	695	2248	719	2397	742	2548	765	2703	788	2860	810	3021	832	3185	854	3353	875	3523	896	3696	916	3873	936	4053	—	—	—	—	—	—	
6200 [2926]	—	—	—	—	—	—	—	607	1797	632	1935	657	2076	681	2220	705	2367	728	2517	751	2671	774	2827	796	2987	818	3150	840	3316	861	3485	881	3657	902	3833	921	4011	941	4193	—	—	—	—	—
6400 [3020]	—	—	—	—	—	—	—	619	1919	644	2058	668	2201	692	2347	715	2496	738	2649	761	2804	783	2962	805	3124	826	3289	847	3457	868	3628	888	3802	908	3980	927	4160	—	—	—	—	—	—	
6600 [3114]	—	—	—	—	—	—	—	607	1912	632	2051	656	2192	679	2337	703	2485	726	2636	748	2790	770	2947	792	3108	813	3272	834	3438	855	3608	875	3781	895	3957	914	4137	933	4319	—	—	—	—	—
6800 [3209]	—	—	—	—	—	—	—	620	2052	644	2193	668	2336	691	2483	714	2633	737	2786	759	2942	780	3101	802	3264	822	3429	843	3598	863	3770	883	3945	902	4123	921	4304	940	4489	—	—	—	—	—
7000 [3303]	610	2064	634	2203	657	2345	681	2491	703	2640	726	2791	748	2946	769	3104	791	3266	811	3430	832	3598	852	3768	871	3942	891	4119	910	4299	928	4482	—	—	—	—	—	—	—	—	—	—		
7200 [3398]	624	2223	648	2364	671	2508	693	2656	716	2807	738	2960	759	3117	780	3277	801	3440	822	3607	841	3776	861	3949	880	4124	899	4303	917	4485	936	4670	—	—	—	—	—	—	—	—	—	—		
7400 [3492]	639	2392	662	2536	684	2682	707	2831	728	2984	750	3139	771	3298	792	3460	812	3625	832	3794	851	3965	871	4139	889	4317	908	4498	926	4682	—	—	—	—	—	—	—	—	—	—	—	—		
7600 [3586]	653	2572	676	2717	698	2866	720	3017	742	3171	763	3329	783	3490	803	3654	823	3821	843	3991	862	4164	881	4341	899	4520	917	4703	934	4889	—	—	—	—	—	—	—	—	—	—	—	—	—	
7800 [3681]	669	2762	691	2910	713	3060	734	3213	755	3369	775	3529	796	3692	815	3857	835	4026	854	4199	872	4374	891	4552	909	4734	926	4918	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8000 [3775]	684	2963	706	3112	727	3264	748	3419	769	3578	789	3739	808	3904	828	4072	847	4243	865	4417	883	4594	901	4774	919	4958	936	5144	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8200 [3869]	700	3174	721	3325	742	3479	762	3636	783	3796	802	3960	821	4127	840	4296	859	4469	877	4645	895	4824	912	5007	929	5192	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8400 [3964]	716	3395	737	3548	757	3704	777	3863	797	4026	816	4191	835	4359	853	4531	871	4706	889	4884	906	5065	923	5249	940	5437	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package		L, R						M, S					
Motor H.P. [W]		3.0 [2237.1]						5.0 [3728.5]					
Blower Sheave		BK100H						BK105H					
Motor Sheave		1VL-44						1VP-56					
Turns Open		1	2	3	4	5	6	1	2	3	4	5	6
RPM		763	731	699	666	633	601	939	909	879	845	814	781

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

COMPONENT AIR RESISTANCE—17.5 TON [61.5 kW]

CFM [L/s]	5600	5800	6000	6200	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400
	[2643]	[2737]	[2831]	[2926]	[3020]	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]
Resistance — Inches of Water [kPa]															
Wet Coil	0.06 [.01]	0.07 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]	0.10 [.02]	0.11 [.03]	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.14 [.03]	0.15 [.04]	0.16 [.04]	0.17 [.04]	0.18 [.04]
Downflow	0.05 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.08 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]	0.11 [.03]	0.12 [.03]	0.13 [.03]	0.14 [.03]
Downflow Economizer R.A. Damper Open	0.12 [.03]	0.13 [.03]	0.13 [.03]	0.14 [.03]	0.15 [.04]	0.16 [.04]	0.16 [.04]	0.17 [.04]	0.18 [.04]	0.19 [.05]	0.20 [.05]	0.21 [.05]	0.22 [.05]	0.23 [.06]	0.24 [.06]
Horizontal Economizer R.A. Damper Open	0.02 [.00]	0.03 [.01]	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.07 [.02]	0.08 [.02]	0.09 [.02]	0.09 [.02]	0.10 [.02]
Concentric Grill RXRN-AD80 or RXRN-AD81 & Transition RXMC-CJ07	0.35 [.09]	0.39 [.10]	0.43 [.11]	0.46 [.11]	0.50 [.11]	0.54 [.13]	0.57 [.14]	0.61 [.15]	0.64 [.16]	0.68 [.17]	0.72 [.18]	0.75 [.19]	0.79 [.20]	0.83 [.21]	0.86 [.21]
Concentric Grill RXRN-AD86 & Transition RXMC-CK08	0.14 [.03]	0.17 [.04]	0.20 [.05]	0.23 [.06]	0.26 [.06]	0.29 [.07]	0.32 [.08]	0.35 [.09]	0.38 [.09]	0.41 [.10]	0.44 [.11]	0.47 [.12]	0.50 [.12]	0.53 [.13]	0.56 [.14]
Pressure Drop MERV 8	0.084 [.02]	0.088 [.02]	0.092 [.02]	0.096 [.02]	0.1 [.02]	0.104 [.02]	0.108 [.03]	0.112 [.03]	0.116 [.03]	0.12 [.03]	0.124 [.03]	0.128 [.03]	0.132 [.03]	0.136 [.03]	0.14 [.03]
Pressure Drop MERV 13	0.034 [.01]	0.04 [.01]	0.046 [.01]	0.052 [.01]	0.058 [.01]	0.065 [.02]	0.071 [.02]	0.077 [.02]	0.083 [.02]	0.089 [.02]	0.095 [.02]	0.102 [.02]	0.108 [.03]	0.114 [.03]	0.12 [.03]

AIRFLOW CORRECTION FACTORS—17.5 TON [61.5 kW]

ACTUAL—CFM [L/s]	5600 [2643]	5800 [2737]	6000 [2831]	6200 [2926]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]
TOTAL MBUH	0.96	0.97	0.97	0.98	0.98	0.98	0.99	0.99	1.00	1.01	1.01	1.02	1.03	1.03	1.04
SENSIBLE MBUH	0.86	0.88	0.90	0.92	0.92	0.94	0.96	0.98	1.00	1.04	1.06	1.08	1.10	1.12	1.14
POWER KW	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.02	1.02	1.02

NOTES: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 20 TON [70.3 kW]—SIDEFLOW (C/H240)

Air Flow CFM [L/s]	Model RKNL-C/H240		Voltage 208/230, 460, 575 — 3 Phase																				External Static Pressure—Inches of Water [kPa]																			
	0.1 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [0.12]		0.6 [0.15]		0.7 [0.17]		0.8 [0.20]		0.9 [0.22]		1.0 [0.25]		1.1 [0.27]		1.2 [0.30]		1.3 [0.32]		1.4 [0.35]		1.5 [0.37]		1.6 [0.40]		1.7 [0.42]		1.8 [0.45]		1.9 [0.47]		2.0 [0.50]			
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W		
6400 [3020]	—	—	—	—	—	—	—	—	632	2007	654	2111	676	2218	698	2328	719	2439	741	2553	763	2670	785	2789	810	3065	830	3203	850	3342	869	3481	888	3621	906	3761	923	3902	937	4121		
6600 [3115]	—	—	—	—	—	—	—	—	642	2106	664	2247	686	2330	707	2446	729	2564	751	2685	787	2808	798	3060	819	3201	838	3342	857	3484	876	3626	894	3769	912	3912	930	4056	944	4271		
6800 [3209]	—	—	—	—	—	—	—	—	630	2100	652	2215	674	2332	696	2452	718	2574	739	2699	761	2827	783	2955	807	3202	827	3346	849	3490	865	3634	884	3778	901	3926	919	4072	933	4283	950	4432
7000 [3304]	—	—	—	—	—	—	—	—	641	2213	663	2334	684	2458	706	2585	728	2713	750	2844	772	2977	796	3207	816	3352	835	3496	854	3646	873	3794	891	3942	909	4091	926	4240	940	4484	957	4603
7200 [3398]	—	—	—	—	—	—	—	—	640	2211	663	2346	695	2544	717	2727	739	2862	761	2999	783	3139	805	3362	825	3511	844	3661	863	3811	881	3961	908	4112	916	4264	932	4417	947	4624	964	4784
7400 [3492]	—	—	—	—	—	—	—	—	631	2238	664	2604	706	2741	728	2880	750	3021	772	3165	795	3375	815	3526	834	3678	853	3831	871	3984	889	4137	906	4292	923	4447	938	4650	954	4810	971	4976
7600 [3587]	—	—	—	—	—	—	—	—	630	2339	652	2475	674	2613	696	2754	718	2897	740	3043	761	3190	783	3340	805	3545	824	3699	843	3854	862	4009	879	4165	897	4322	914	4479	939	4637	958	4841
7800 [3681]	—	—	—	—	—	—	—	—	642	2480	664	2622	686	2767	707	2914	729	3064	751	3216	773	3370	795	3567	815	3723	834	3880	852	4038	870	4197	888	4356	905	4515	922	4675	936	4837	953	5043
8000 [3776]	632	2485	654	2631	676	2780	698	2931	719	3085	741	3241	763	3399	785	3559	806	3750	825	3910	844	4070	862	4231	880	4392	897	4554	914	4717	930	4880	944	5084	961	5255	977	5432	993	5616		
8200 [3870]	644	2640	666	2793	688	2948	710	3105	732	3265	754	3427	776	3592	797	3760	816	3942	835	4105	854	4268	871	4432	889	4596	906	4761	922	4927	936	5130	952	5300	969	5477	985	5660				
8400 [3964]	657	2805	679	2964	701	3126	723	3290	745	3456	767	3625	789	3796	808	3978	827	4143	846	4309	864	4475	881	4642	898	4809	915	4977	931	5146	944	5352	961	5528	977	5710	993	5899				
8600 [4059]	670	2980	692	3146	714	3314	736	3484	758	3657	780	3832	800	4017	819	4184	838	4352	856	4521	874	4690	891	4860	907	5030	924	5201	937	5408	953	5584	969	5765	985	5954						
8800 [4153]	683	3166	705	3338	727	3512	749	3689	771	3868	793	4059	812	4229	831	4399	849	4570	867	4742	884	4914	901	5087	917	5260	933	5434	946	5645	962	5826	978	6013	993	6208						
9000 [4248]	697	3361	719	3540	741	3721	763	3904	785	4089	805	4276	824	4449	842	4622	860	4796	877	4971	894	5146	911	5322	927	5498	939	5712	955	5892	971	6079	986	6272								
9200 [4342]	711	3567	733	3752	755	3939	777	4129	798	4327	817	4502	835	4678	853	4854	871	5031	888	5209	905	5387	921	5565	933	5784	949	5963	964	6149	980	6342										
9400 [4436]	725	3783	747	3975	769	4168	792	4381	811	4558	829	4736	847	4915	865	5094	882	5274	899	5455	915	5636	931	5818	942	6040	958	6225	973	6418	989	6616										
9600 [4531]	739	4010	762	4207	784	4407	805	4617	823	4798	842	4979	859	5161	877	5343	894	5526	910	5709	926	5894	937	6122	952	6307	968	6498	983	6696												

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L, R						M, S						N(field installed only), T					
Motor H.P. [W]	5.0 [3728.5]						7.5 [5592.7]						7.5 [5592.7]					
Blower Sheave	BK130H						BK130H						BK120H					
Motor Sheave	1VP-56						1VP-71						1VP-71					
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM	756	734	709	683	658	631	928	902	874	847	820	793	767	740	713	686	659	632



Air

Indoor Airflow Performance
RKNL-C/H Series**COMPONENT AIRFLOW RESISTANCE—20 TON [70.3 kW] (C/H240)**

CFM [L/s]	Resistance — Inches of Water [kPa]															
	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]	8600 [4058]	8800 [4153]	9000 [4247]	9200 [4341]	9600 [4530]
Wet Coil	0.00 [.00]	0.00 [.00]	0.00 [.00]	0.01 [.00]	0.01 [.00]	0.02 [.00]	0.02 [.00]	0.03 [.01]	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]
Downflow	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.08 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]	0.11 [.03]	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.15 [.04]	0.16 [.04]	0.18 [.04]	0.19 [.05]	0.20 [.05]
Downflow Economizer R.A. Damper Open	0.15 [.04]	0.16 [.04]	0.16 [.04]	0.17 [.04]	0.18 [.04]	0.19 [.05]	0.20 [.05]	0.21 [.05]	0.22 [.05]	0.23 [.06]	0.24 [.06]	0.25 [.06]	0.26 [.06]	0.27 [.07]	0.28 [.07]	0.30 [.07]
Horizontal Economizer R.A. Damper Open	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.07 [.02]	0.08 [.02]	0.09 [.02]	0.09 [.02]	0.10 [.02]	0.10 [.02]	0.11 [.03]	0.11 [.03]	0.12 [.03]	0.13 [.03]
Concentric Grill RXRN-AD86 & Transition RXMC-CK08	0.26 [.06]	0.29 [.07]	0.32 [.08]	0.35 [.09]	0.38 [.09]	0.41 [.10]	0.44 [.11]	0.47 [.12]	0.5 [.12]	0.53 [.13]	0.56 [.14]	0.59 [.15]	0.62 [.15]	0.65 [.16]	0.69 [.17]	0.75 [.19]
Pressure Drop MERV 8	0.1 [.02]	0.104 [.02]	0.108 [.03]	0.112 [.03]	0.116 [.03]	0.12 [.03]	0.124 [.03]	0.128 [.03]	0.132 [.03]	0.136 [.03]	0.14 [.03]	0.144 [.03]	0.148 [.04]	0.152 [.04]	0.156 [.04]	0.164 [.04]
Pressure Drop MERV 13	0.058 [.01]	0.065 [.02]	0.071 [.02]	0.077 [.02]	0.083 [.02]	0.089 [.02]	0.095 [.02]	0.102 [.02]	0.108 [.03]	0.114 [.03]	0.12 [.03]	0.126 [.03]	0.132 [.03]	0.138 [.03]	0.145 [.04]	0.157 [.04]

AIRFLOW CORRECTION FACTORS—20 TON [70.3 kW] (C/H240)

ACTUAL—CFM [L/s]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]	8600 [4058]	8800 [4153]	9000 [4247]	9200 [4341]	9600 [4530]
TOTAL MBH	0.97	0.97	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.02	1.02	1.03	1.03	1.04	1.04
SENSIBLE MBH	0.88	0.90	0.92	0.94	0.96	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.10	1.12	1.14	1.18
POWER KW	0.98	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.01	1.02	1.02

NOTES: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions



INTEGRATED AIR & WATER



Air

Indoor Airflow Performance

RKNL-C/H Series

AIRFLOW PERFORMANCE — 20 TON [70.3 kW] — 60 Hz — SIDEFLOW (C241)

Air Flow CFM [L/s]	Model RKNL-C241		Voltage 208/230, 460, 575 — 3 Phase 60 Hz																		External Static Pressure—Inches of Water [kPa]																	
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																		
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W																	
6400 [3020]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
6600 [3114]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
6800 [3209]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
7000 [3303]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
7200 [3398]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
7400 [3492]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
7600 [3586]	682	2566	704	2727	724	2889	745	3051	765	3214	785	3378	805	3543	824	3708	843	3874	862	4041	880	4209																
7800 [3681]	697	2768	718	2931	739	3094	759	3258	779	3423	798	3588	818	3754	837	3921	856	4089	874	4257	892	4426																
8000 [3775]	712	2979	733	3143	753	3308	773	3473	793	3640	812	3806	831	3974	850	4142	868	4312	886	4481	904	4652																
8200 [3869]	728	3199	748	3365	768	3531	787	3698	806	3865	825	4034	844	4203	862	4373	881	4543	898	4715	916	4887																
8400 [3964]	743	3428	763	3595	782	3762	802	3931	820	4100	839	4270	857	4441	875	4612	893	4784	911	4957	928	5131																
8600 [4058]	758	3665	778	3834	797	4003	816	4173	835	4343	853	4515	871	4687	889	4860	906	5034	923	5208	940	5383																
8800 [4153]	774	3911	793	4081	812	4252	830	4423	849	4596	867	4769	884	4942	902	5117	919	5292	936	5468	952	5644																
9000 [4247]	790	4166	808	4338	827	4510	845	4683	863	4857	881	5031	898	5206	915	5382	932	5559	948	5736	964	5915																
9200 [4341]	805	4430	824	4603	842	4777	860	4949	877	5127	895	5303	912	5479	929	5657	945	5835	961	6014	977	6194																
9400 [4436]	821	4703	839	4877	857	5052	875	5229	892	5405	909	5583	926	5761	942	5940	958	6120	974	6300	989	6481																
9600 [4530]	837	4984	855	5160	872	5337	890	5514	907	5693	923	5872	940	6052	956	6232	971	6413	987	6595	1002	6778																

NOTE: L-Drive left of bold line, M-Drive right of bold line, N-Drive right of double line.

Drive Package	L						M						N (field installed only)					
Motor H.P. [W]	5.0 [3728.5]						7.5 [5592.7]						7.5 [5592.7]					
Blower Sheave	BK120H						BK130H						BK120H					
Motor Sheave	1VP-56						1VP-71						1VP-71					
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM	822	798	771	742	712	684	932	905	878	851	824	797	1007	978	949	921	892	863

NOTES: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHRl minimum External Static Pressure.

4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions



COMPONENT AIRFLOW RESISTANCE—20 TON [70.3 kW] (C241)

Airflow CFM [L/s]	Airflow Correction Factors*			Component Airflow Resistance								
				Wet Coil	Downflow	Downflow Economizer RA Damper Open	Horizontal Economizer RA Damper Open	Concentric Grill RXRN-AD80 or RXRN-AD81 & Transition RXMC-CJ07	Concentric Grill RXRN-AD86 & Transition RXMC-CK08	Concentric Grill RXRN-AD88 & Transition RXMC-CL09	Pressure Drop MERV 8	Pressure Drop MERV 13
	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]								
6400 [3020]	0.97	0.88	0.98	0.01 [0.00]	0.06 [0.01]	0.15 [0.04]	0.04 [0.01]	0.50 [0.12]	—	7.1	0.100 [0.02]	0.058 [0.02]
6600 [3114]	0.97	0.90	0.99	0.02 [0.00]	0.06 [0.01]	0.16 [0.04]	0.05 [0.01]	0.54 [0.13]	—	7.5	0.104 [0.02]	0.065 [0.02]
6800 [3209]	0.98	0.92	0.99	0.03 [0.01]	0.07 [0.02]	0.16 [0.04]	0.05 [0.01]	—	—	7.8	0.108 [0.03]	0.071 [0.02]
7000 [3303]	0.98	0.94	0.99	0.03 [0.01]	0.08 [0.02]	0.17 [0.04]	0.06 [0.01]	—	—	8.2	0.112 [0.03]	0.077 [0.02]
7200 [3398]	0.99	0.96	0.99	0.04 [0.01]	0.08 [0.02]	0.18 [0.04]	0.06 [0.01]	—	0.38 [0.09]	8.6	0.116 [0.03]	0.083 [0.02]
7400 [3492]	0.99	0.97	1.00	0.05 [0.01]	0.09 [0.02]	0.19 [0.05]	0.07 [0.02]	—	0.41 [0.10]	9.0	0.120 [0.03]	0.089 [0.02]
7600 [3586]	1.00	0.99	1.00	0.06 [0.01]	0.10 [0.02]	0.20 [0.05]	0.07 [0.02]	—	0.44 [0.11]	9.5	0.124 [0.03]	0.095 [0.02]
7800 [3681]	1.00	1.01	1.00	0.06 [0.01]	0.11 [0.03]	0.21 [0.05]	0.08 [0.02]	—	0.47 [0.12]	9.9	0.128 [0.03]	0.102 [0.02]
8000 [3775]	1.01	1.03	1.00	0.07 [0.02]	0.12 [0.03]	0.22 [0.05]	0.09 [0.02]	—	0.50 [0.12]	—	0.132 [0.03]	0.108 [0.03]
8200 [3869]	1.01	1.05	1.01	0.08 [0.02]	0.13 [0.03]	0.23 [0.06]	0.09 [0.02]	—	0.53 [0.13]	—	0.136 [0.03]	0.114 [0.03]
8400 [3964]	1.02	1.07	1.01	0.09 [0.02]	0.14 [0.03]	0.24 [0.06]	0.10 [0.02]	—	0.56 [0.14]	—	0.140 [0.03]	0.120 [0.03]
8600 [4058]	1.02	1.09	1.01	0.09 [0.02]	0.15 [0.04]	0.25 [0.06]	0.10 [0.02]	—	0.59 [0.15]	—	0.144 [0.03]	0.126 [0.03]
8800 [4153]	1.03	1.10	1.01	0.10 [0.02]	0.16 [0.04]	0.26 [0.06]	0.11 [0.03]	—	0.62 [0.15]	—	0.148 [0.04]	0.132 [0.03]
9000 [4247]	1.03	1.12	1.01	0.11 [0.03]	0.18 [0.04]	0.27 [0.07]	0.11 [0.03]	—	—	—	0.152 [0.04]	0.138 [0.03]
9200 [4341]	1.03	1.14	1.02	0.12 [0.03]	0.19 [0.05]	0.28 [0.07]	0.12 [0.03]	—	—	—	0.156 [0.04]	0.145 [0.04]
9400 [4436]	1.04	1.16	1.02	0.12 [0.03]	0.20 [0.05]	0.29 [0.07]	0.12 [0.03]	—	—	—	0.160 [0.04]	0.151 [0.04]
9600 [4530]	1.04	1.18	1.02	0.13 [0.03]	0.22 [0.05]	0.30 [0.07]	0.13 [0.03]	—	—	—	0.164 [0.04]	0.157 [0.04]

* Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE — 25 TON [87.9 kW]—SIDEFLOW

Air Flow CFM [L/s]	Model RKNL-C/H300 Voltage 208/230, 460, 575 — 3 Phase										External Static Pressure—Inches of Water [kPa]																																
	0.1 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [0.12]		0.6 [0.15]		0.7 [0.17]		0.8 [0.20]		0.9 [0.22]		1.0 [0.25]		1.1 [0.27]		1.2 [0.30]		1.3 [0.32]		1.4 [0.35]		1.5 [0.37]		1.6 [0.40]		1.7 [0.42]		1.8 [0.45]		1.9 [0.47]		2.0 [0.50]				
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W			
8000 [3775]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	794 [3720]	814 [3870]	833 [4024]	851 [4182]	869 [4344]	886 [4510]	903 [4680]	920 [4854]	948 [5256]	963 [5410]	979 [5565]	994 [5720]	1009 [5877]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8200 [3869]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	807 [3908]	826 [4065]	845 [4226]	863 [4392]	880 [4561]	897 [4735]	914 [4912]	943 [5296]	958 [5455]	973 [5614]	988 [5774]	1003 [5935]	1018 [6097]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8400 [3964]	—	—	—	—	—	—	—	—	—	—	—	—	—	801 [3947]	820 [4108]	838 [4273]	856 [4442]	874 [4614]	891 [4791]	908 [4972]	924 [5157]	952 [5503]	967 [5667]	982 [5832]	997 [5997]	1012 [6164]	1028 [6331]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8600 [4058]	—	—	—	—	—	—	—	—	—	—	—	—	—	794 [3989]	813 [4153]	832 [4321]	850 [4493]	868 [4670]	886 [4850]	902 [5034]	919 [5223]	947 [5557]	962 [5725]	977 [5894]	992 [6064]	1007 [6235]	1022 [6407]	1037 [6579]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8800 [4153]	—	—	—	—	—	—	—	—	—	—	—	—	—	807 [4200]	826 [4371]	845 [4547]	862 [4727]	880 [4910]	897 [5098]	913 [5290]	942 [5614]	957 [5787]	972 [5960]	987 [6134]	1002 [6310]	1017 [6486]	1032 [6663]	1047 [6841]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9000 [4247]	—	—	—	—	—	—	—	—	—	—	—	—	—	801 [4249]	820 [4424]	839 [4603]	857 [4786]	874 [4973]	892 [5164]	908 [5359]	924 [5558]	952 [5853]	967 [6031]	982 [6209]	997 [6389]	1012 [6570]	1027 [6752]	1042 [6934]	1057 [7118]	—	—	—	—	—	—	—	—	—	—	—	—	—	
9200 [4341]	—	—	—	—	—	—	—	—	—	—	—	—	—	795 [4300]	815 [4478]	833 [4660]	851 [4847]	869 [5037]	886 [5232]	903 [5430]	919 [5633]	947 [5923]	962 [6105]	977 [6289]	992 [6473]	1007 [6658]	1022 [6844]	1037 [7031]	1052 [7219]	1068 [7408]	—	—	—	—	—	—	—	—	—	—	—	—	
9400 [4436]	—	—	—	—	—	—	—	—	—	—	—	—	—	790 [4352]	809 [4534]	828 [4720]	846 [4910]	864 [5104]	881 [5302]	898 [5504]	915 [5710]	943 [5997]	958 [6184]	972 [6372]	987 [6561]	1002 [6750]	1017 [6941]	1032 [7132]	1048 [7325]	1063 [7518]	—	—	—	—	—	—	—	—	—	—	—	—	
9600 [4530]	—	—	—	—	—	—	—	—	—	—	—	—	—	804 [4592]	823 [4781]	841 [4975]	859 [5172]	876 [5373]	893 [5579]	910 [5788]	926 [6002]	953 [6267]	968 [6460]	983 [6653]	998 [6847]	1013 [7042]	1028 [7238]	1043 [7434]	1058 [7632]	—	—	—	—	—	—	—	—	—	—	—	—	—	
9800 [4624]	—	—	—	—	—	—	—	—	—	—	—	—	—	798 [4652]	817 [4845]	836 [5042]	854 [5242]	872 [5447]	889 [5656]	905 [5869]	922 [6085]	949 [6355]	964 [6551]	979 [6749]	994 [6947]	1009 [7147]	1024 [7347]	1039 [7548]	1054 [7751]	1069 [7954]	—	—	—	—	—	—	—	—	—	—	—	—	
10000 [4719]	793 [4714]	813 [4910]	831 [5110]	849 [5315]	867 [5523]	884 [5735]	901 [5951]	917 [6171]	945 [6446]	960 [6647]	975 [6849]	990 [7052]	1005 [7256]	1019 [7461]	1034 [7667]	1050 [7873]	1065 [8081]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10200 [4813]	808 [4978]	827 [5181]	845 [5389]	863 [5600]	880 [5816]	897 [6035]	913 [6259]	941 [6542]	956 [6748]	971 [6954]	986 [7162]	1001 [7370]	1016 [7579]	1031 [7789]	1046 [8000]	1061 [8212]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
10400 [4908]	822 [5254]	840 [5465]	858 [5680]	876 [5899]	893 [6122]	909 [6349]	926 [6580]	953 [6852]	967 [7063]	982 [7275]	997 [7488]	1012 [7701]	1027 [7916]	1042 [8131]	1057 [8348]	1072 [8565]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
10600 [5002]	836 [5543]	854 [5761]	872 [5984]	889 [6210]	906 [6441]	922 [6675]	949 [6961]	964 [7176]	979 [7393]	993 [7610]	1008 [7828]	1023 [8047]	1038 [8267]	1053 [8488]	1068 [8710]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
10800 [5096]	850 [5845]	868 [6071]	885 [6301]	902 [6534]	918 [6772]	946 [7074]	961 [7294]	975 [7514]	990 [7736]	1005 [7959]	1020 [8182]	1035 [8407]	1050 [8632]	1065 [8858]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
11000 [5191]	864 [6160]	882 [6393]	899 [6630]	915 [6871]	943 [7191]	958 [7415]	972 [7640]	987 [7867]	1002 [8094]	1017 [8321]	1032 [8550]	1046 [8780]	1061 [9011]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
11200 [5285]	878 [6487]	895 [6728]	912 [6972]	940 [7313]	955 [7541]	969 [7771]	984 [8001]	999 [8233]	1014 [8465]	1029 [8698]	1043 [8933]	1058 [9168]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
11400 [5379]	892 [6827]	909 [7075]	925 [7328]	952 [7671]	967 [7905]	981 [8140]	996 [8376]	1011 [8613]	1026 [8851]	1041 [9089]	1055 [9329]	1070 [9570]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
11600 [5474]	906 [7180]	922 [7436]	950 [7806]	964 [8044]	979 [8283]	994 [8524]	1008 [8765]	1023 [9007]	1038 [9250]	1053 [9494]	1068 [9739]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
11800 [5568]	920 [7546]	948 [7944]	962 [8187]	977 [8431]	991 [8676]	1006 [8921]	1021 [9168]	1035 [9416]	1050 [9664]	1065 [9913]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
12000 [5663]	946 [8087]	960 [8334]	975 [8583]	989 [8832]	1004 [9082]	1019 [9333]	1033 [9585]	1048 [9838]	1063 [10092]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L, R						M, S					
Motor H.P. [W]	7.5 [5592.7]						10 [7457.0]					
Blower Sheave	BK130H						BK120H					
Motor Sheave	1VP-71						1VP-75					
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6
RPM	919	894	869	844	817	790	1067	1039	1012	982	953	925

- NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

COMPONENT AIR RESISTANCE—25 TON [87.9 kW]

CFM [L/s]	8000	8400	8800	9200	9600	10000	10400	10800	11200	11600	12000
	[3775]	[3964]	[4153]	[4341]	[4530]	[4719]	[4908]	[5096]	[5285]	[5474]	[5663]
	Resistance — Inches of Water [kPa]										
Wet Coil	0.07 [.02]	0.09 [.02]	0.10 [.02]	0.12 [.03]	0.13 [.03]	0.15 [.04]	0.16 [.04]	0.18 [.04]	0.19 [.05]	0.21 [.05]	0.22 [.05]
Downflow	0.12 [.03]	0.14 [.03]	0.16 [.04]	0.19 [.05]	0.22 [.05]	0.25 [.06]	0.29 [.07]	0.33 [.08]	0.37 [.09]	0.42 [.10]	0.46 [.11]
Downflow Economizer R.A. Damper Open	0.22 [.05]	0.24 [.06]	0.26 [.06]	0.28 [.07]	0.3 [.07]	0.32 [.08]	0.34 [.08]	0.37 [.09]	0.39 [.10]	0.41 [.10]	0.44 [.11]
Horizontal Economizer R.A. Damper Open	0.09 [.02]	0.10 [.02]	0.11 [.03]	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.15 [.04]	0.16 [.04]	0.17 [.04]	0.18 [.04]	0.19 [.05]
Concentric Grill RXRN-AD88 & Transition RXMC-CL09	0.17 [.04]	0.23 [.06]	0.30 [.07]	0.36 [.09]	0.43 [.11]	0.50 [.12]	0.56 [.14]	0.63 [.16]	0.69 [.17]	0.76 [.19]	0.82 [.20]
Pressure Drop MERV 8	0.132 [.03]	0.14 [.03]	0.148 [.04]	0.156 [.04]	0.164 [.04]	0.172 [.04]	0.18 [.04]	0.188 [.05]	0.196 [.05]	0.204 [.05]	0.212 [.05]
Pressure Drop MERV 13	0.108 [.03]	0.12 [.03]	0.132 [.03]	0.145 [.04]	0.157 [.04]	0.169 [.04]	0.182 [.04]	0.194 [.05]	0.206 [.05]	0.219 [.05]	0.231 [.06]

AIRFLOW CORRECTION FACTORS—25 TON [87.9 kW]

ACTUAL—CFM [L/s]	8000 [3775]	8400 [3964]	8800 [4153]	9200 [4341]	9600 [4530]	10000 [4719]	10400 [4908]	10800 [5096]	11200 [5285]	11600 [5474]	12000 [5663]
TOTAL MBTUH	0.97	0.98	0.99	0.99	1.00	1.01	1.02	1.03	1.03	1.04	1.05
SENSIBLE MBTUH	0.89	0.92	0.95	0.98	1.01	1.04	1.08	1.11	1.14	1.17	1.20
POWER kW	0.99	0.99	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.02

NOTES: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

ELECTRICAL DATA – RKNL- SERIES

		C180CL H180CR	C180CM H180CS	C180DL H180DR	C180DM H180DS	C180YL	C180YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
	Volts	208/230	208/230	460	460	575	575
	Minimum Circuit Ampacity	78/78	81/81	38	40	28	30
	Minimum Overcurrent Protection Device Size	90/90	90/90	45	45	30	35
	Maximum Overcurrent Protection Device Size	100/100	100/100	45	50	35	35
Compressor Motor	No.	2	2	2	2	2	2
	Volts	200/230	200/230	460	460	575	575
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7	7	7
	Amps (RLA), Comp. 1	25/25	25/25	12.2	12.2	9	9
	Amps (LRA), Comp. 1	164/164	164/164	100	100	78	78
	HP, Compressor 2	7	7	7	7	7	7
	Amps (RLA), Comp. 2	25/25	25/25	12.2	12.2	9	9
	Amps (LRA), Comp. 2	164/164	164/164	100	100	78	78
Compressor Motor	No.	4	4	4	4	4	4
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2.4/2.4	1.4	1.4	1	1
	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.4	2.4	1.8	1.8
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	3	5	3	5	3	5
	Amps (FLA, each)	11.5/11.5	14.9/14.9	4.6	6.6	3.5	5.3
	Amps (LRA, each)	74.5/74.5	82.6/82.6	38.1	46.3	20	39.4

ELECTRICAL DATA – RKNL- SERIES							
		C210CL H210CR	C210CM H210CS	C210DL H210DR	C210DM H210DS	C210YL	C210YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
	Volts	208/230	208/230	460	460	575	575
	Minimum Circuit Ampacity	88/88	91/91	44	46	35	37
	Minimum Overcurrent Protection Device Size	100/100	100/100	50	50	40	40
	Maximum Overcurrent Protection Device Size	110/110	110/110	50	50	45	45
Compressor Motor	No.	2	2	2	2	2	2
	Volts	200/230	200/230	460	460	575	575
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1	29.5/29.5	29.5/29.5	14.7	14.7	12.2	12.2
	Amps (LRA), Comp. 1	195/195	195/195	95	95	80	80
	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	29.5/29.5	29.5/29.5	14.7	14.7	12.2	12.2
	Amps (LRA), Comp. 2	195/195	195/195	95	95	80	80
Compressor Motor	No.	4	4	4	4	4	4
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2.4/2.4	1.4	1.4	1	1
	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.4	2.4	1.8	1.8
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	3	5	3	5	3	5
	Amps (FLA, each)	11.5/11.5	14.9/14.9	4.6	6.6	3.5	5.3
	Amps (LRA, each)	74.5/74.5	82.6/82.6	38.1	46.3	20	39.4

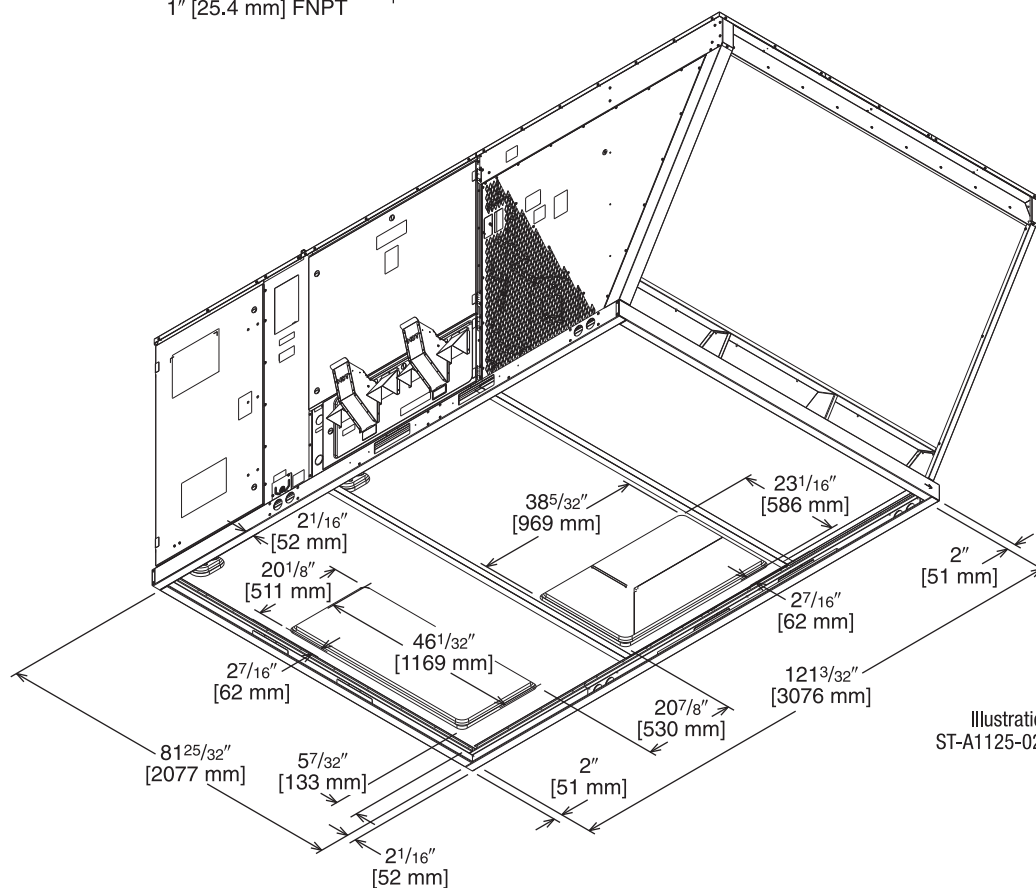
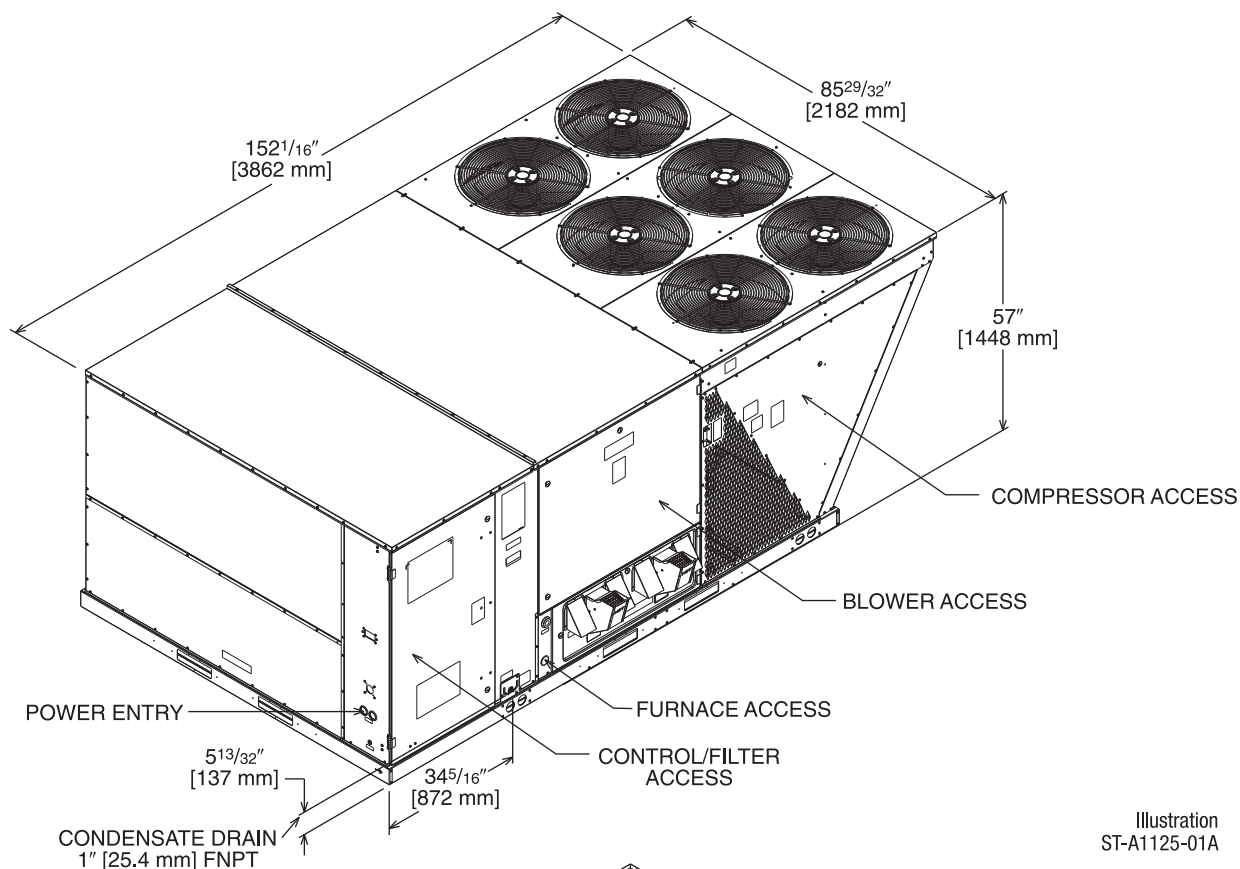
ELECTRICAL DATA – RKNL- SERIES

		C240CL H240CR	C240CM H240CS	C240CN H240CT	C240DL H240DR	C240DM H240DS	C240DN H240DT	C240YL	C240YM	C240YN
Unit Information	Unit Operating Voltage	187-253	187-253	187-253	414-506	414-506	414-506	518-632	518-632	518-632
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Minimum Circuit Ampacity	101/101	109/109	109/109	52	56	56	40	42	42
	Minimum Overcurrent Protection Device Size	110/110	125/125	125/125	60	60	60	45	50	50
	Maximum Overcurrent Protection Device Size	125/125	125/125	125/125	60	70	70	50	50	50
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10	10	10	10
	Amps (RLA), Comp. 1	33.3/33.3	33.3/33.3	33.3/33.3	17.9	17.9	17.9	12.8	12.8	12.8
	Amps (LRA), Comp. 1	239/239	239/239	239/239	125	125	125	80	80	80
	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	29.5/29.5	29.5/29.5	29.5/29.5	14.7	14.7	14.7	12.2	12.2	12.2
	Amps (LRA), Comp. 2	195/195	195/195	195/195	95	95	95	80	80	80
Compressor Motor	No.	6	6	6	6	6	6	6	6	6
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2.4/2.4	2.4/2.4	1.4	1.4	1.4	1	1	1
	Amps (LRA, each)	4.7/4.7	4.7/4.7	4.7/4.7	2.4	2.4	2.4	1.8	1.8	1.8
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	5	7 1/2	7 1/2	5	7 1/2	7 1/2	5	7 1/2	7 1/2
	Amps (FLA, each)	14.7/14.7	23.1/23.1	23.1/23.1	6.6	9.6	9.6	5.3	7.8	7.8
	Amps (LRA, each)	82.6/82.6	136/136	136/136	46.3	67	67	39.4	53.8	53.8

ELECTRICAL DATA – RKNL- SERIES							
		C241CL	C241CM	C241DL	C241DM	C241YL	C241YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
	Volts	208/230	208/230	460	460	575	575
	Minimum Circuit Ampacity	95/95	103/103	49	52	37	39
	Minimum Overcurrent Protection Device Size	110/110	125/125	60	60	40	45
	Maximum Overcurrent Protection Device Size	110/110	125/125	60	60	45	50
Compressor Motor	No.	2	2	2	2	2	2
	Volts	200/230	200/230	460	460	575	575
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10
	Amps (RLA), Comp. 1	30.1/30.1	30.1/30.1	16.7	16.7	12.2	12.2
	Amps (LRA), Comp. 1	225/225	225/225	114	114	80	80
	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	27.6/27.6	27.6/27.6	12.8	12.8	9.6	9.6
	Amps (LRA), Comp. 2	191/191	191/191	100	100	78	78
Compressor Motor	No.	6	6	6	6	6	6
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2.4/2.4	1.4	1.4	1	1
	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.4	2.4	1.8	1.8
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	5	7 1/2	5	7 1/2	5	7 1/2
	Amps (FLA, each)	14.7/14.7	23.1/23.1	6.6	9.6	5.3	7.8
	Amps (LRA, each)	82.6/82.6	136/136	46.3	67	39.4	53.8

ELECTRICAL DATA – RKNL- SERIES

		C300CL H300CR	C300CM H300CS	C300DL H300DR	C300DM H300DS	C300YL	C300YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
	Volts	208/230	208/230	460	460	575	575
	Minimum Circuit Ampacity	147/147	149/149	60	63	47	50
	Minimum Overcurrent Protection Device Size	175/175	175/175	70	70	60	60
	Maximum Overcurrent Protection Device Size	175/175	175/175	70	80	60	60
Compressor Motor	No.	2	2	2	2	2	2
	Volts	200/240	200/240	460	460	575	575
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
	Amps (RLA), Comp. 1	48.1/48.1	48.1/48.1	18.6	18.6	14.7	14.7
	Amps (LRA), Comp. 1	245/245	245/245	125	125	100	100
	HP, Compressor 2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
	Amps (RLA), Comp. 2	48.1/48.1	48.1/48.1	18.6	18.6	14.7	14.7
	Amps (LRA), Comp. 2	245/245	245/245	125	125	100	100
Compressor Motor	No.	6	6	6	6	6	6
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2/2	1.4	1.4	1	1
	Amps (LRA, each)	4.7/4.7	3.9/3.9	2.4	2.4	1.8	1.8
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	7 1/2	10	7 1/2	10	7 1/2	10
	Amps (FLA, each)	24.2/24.2	28.5/28.5	9.6	12.5	7.8	10
	Amps (LRA, each)	136/136	178/178	67	74.6	53.8	59.2



BOTTOM VIEW

[] Designates Metric Conversions

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS

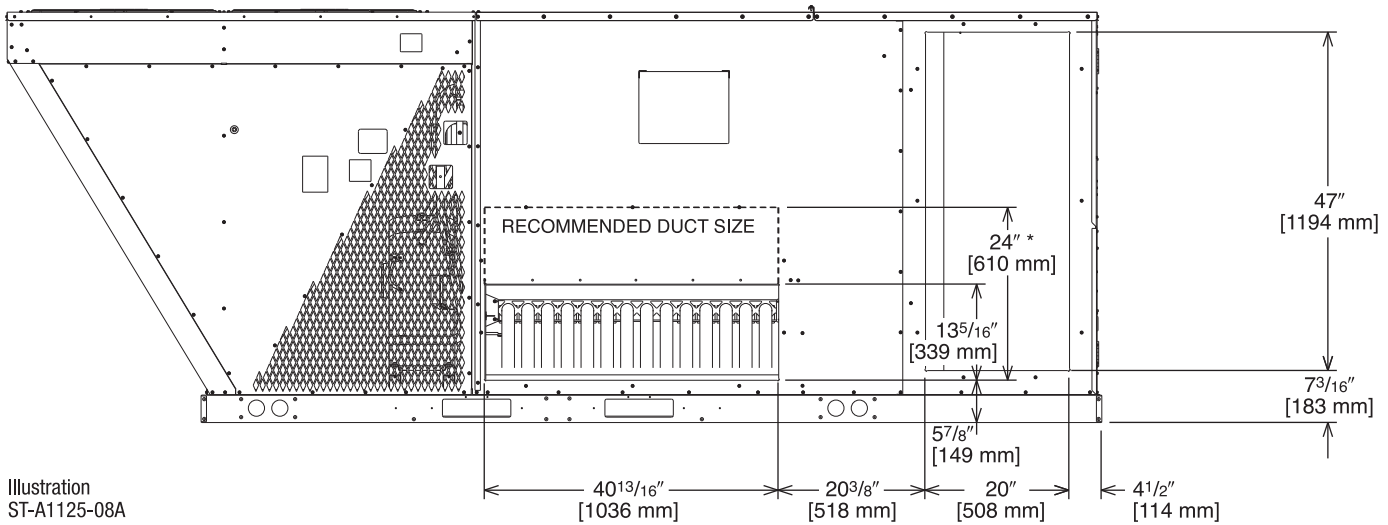


Illustration
ST-A1125-08A

* RECOMMENDED DUCT CONNECTION SIZE

DUCT SIDE VIEW (REAR)

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS

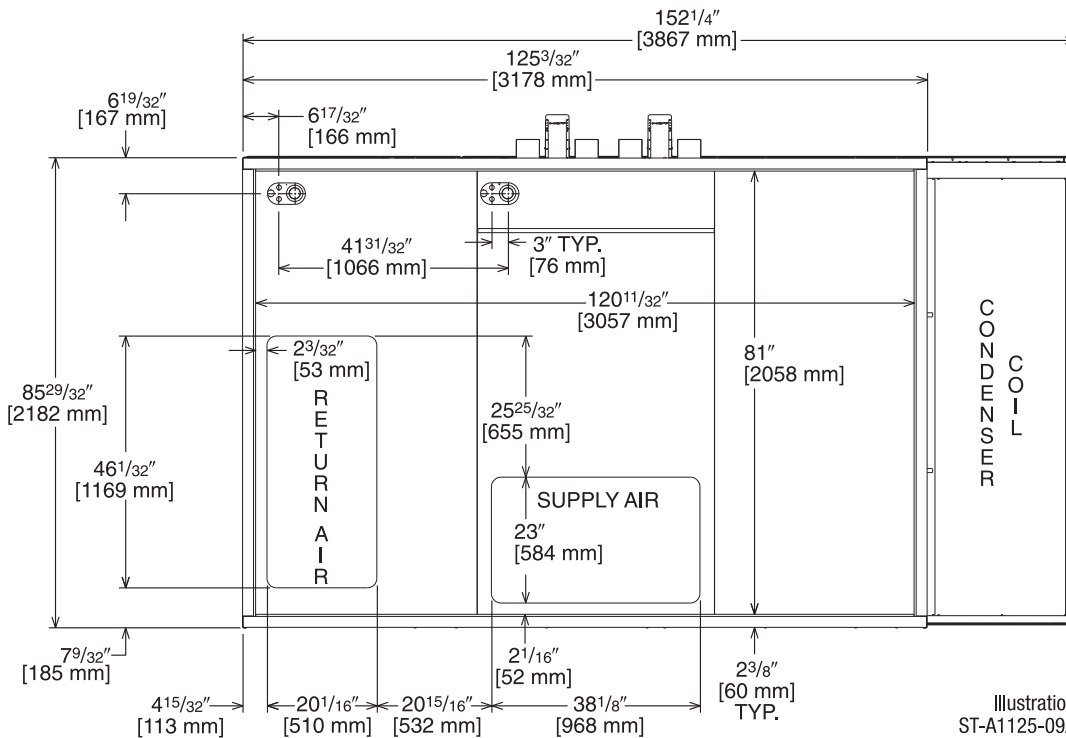


Illustration
ST-A1125-09A

BOTTOM VIEW

[] Designates Metric Conversions

UNIT DIMENSIONS GAS HEAT / ELECTRIC COOLING PACKAGE

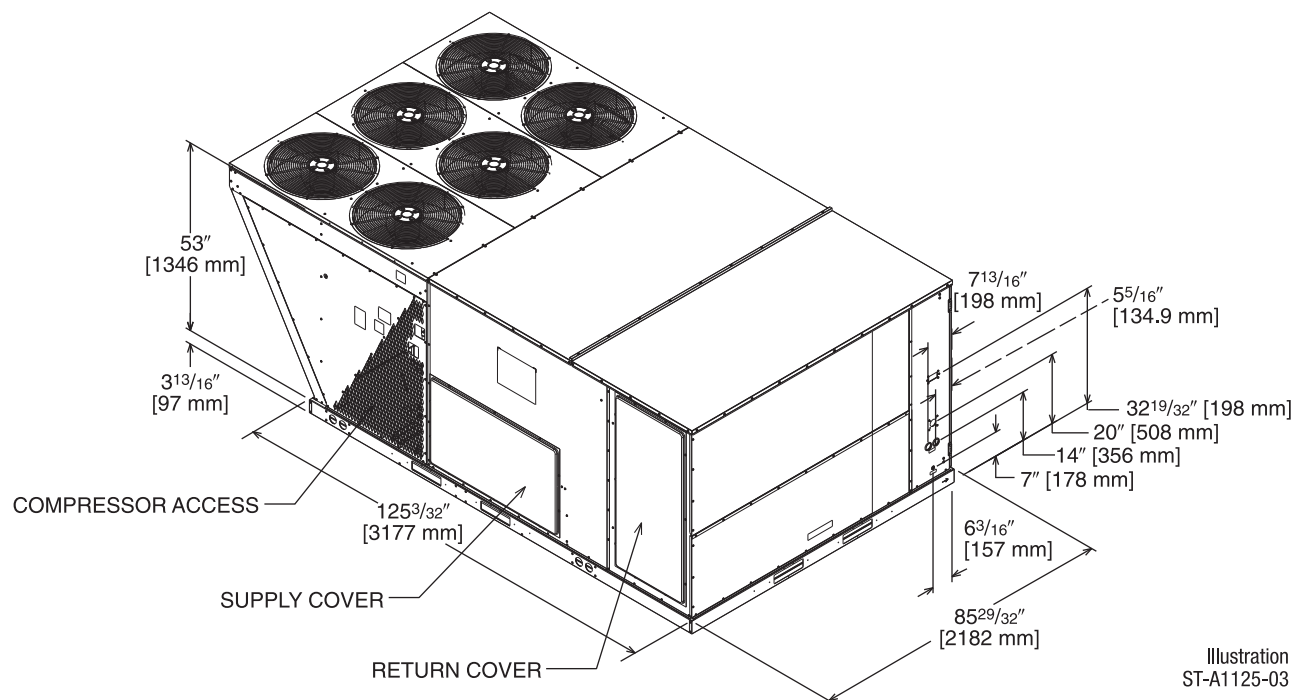
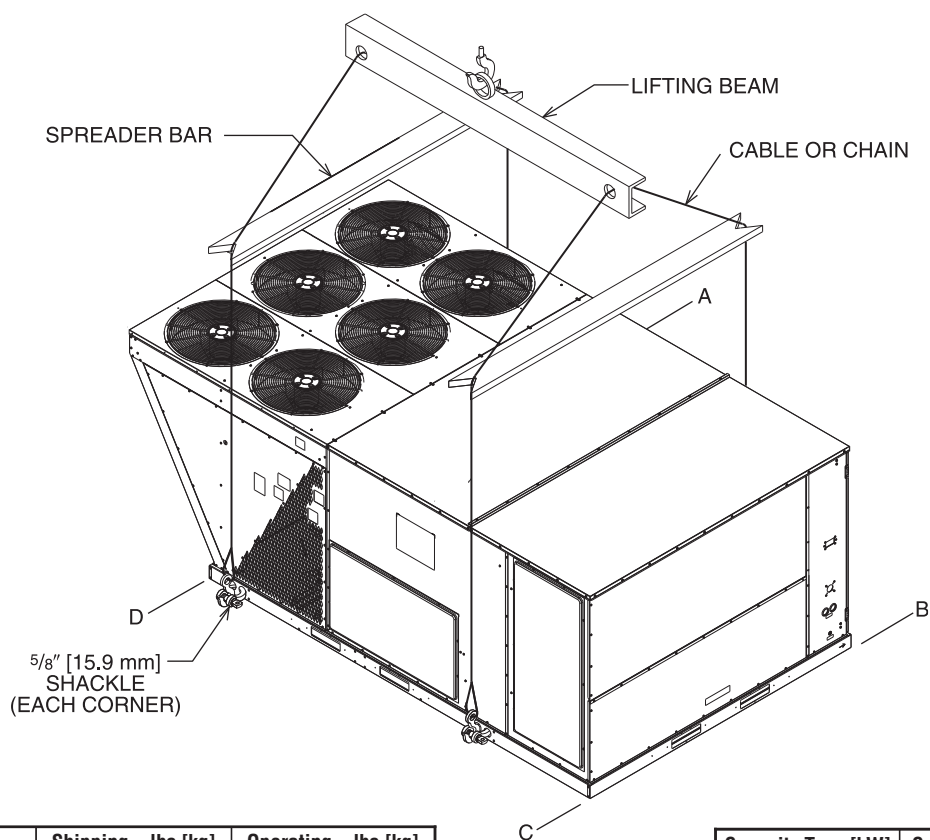


Illustration
ST-A1125-03



WEIGHTS

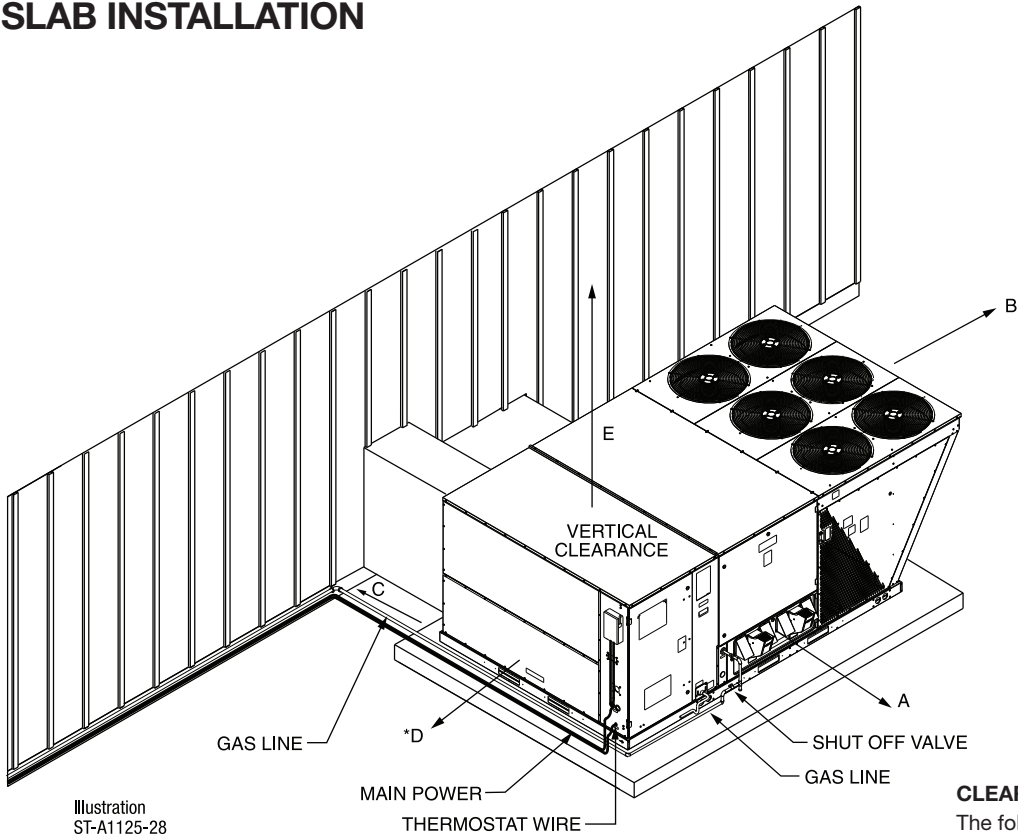
Accessory	Shipping—lbs [kg]	Operating—lbs [kg]
Economizer—Downflow	155 [70.31]	146 [66.22]
Economizer—Horizontal	165 [74.80]	155 [70.31]
Fresh Air Damper (Manual)	51 [23.13]	40 [18.14]
Fresh Air Damper (Motorized)	46 [20.87]	35 [15.88]
Roof Curb 14"	170 [77.11]	164 [74.39]

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
15-25 [52.8-87.9]	32%	27%	16%	24%

Corner weights measured at base of unit.

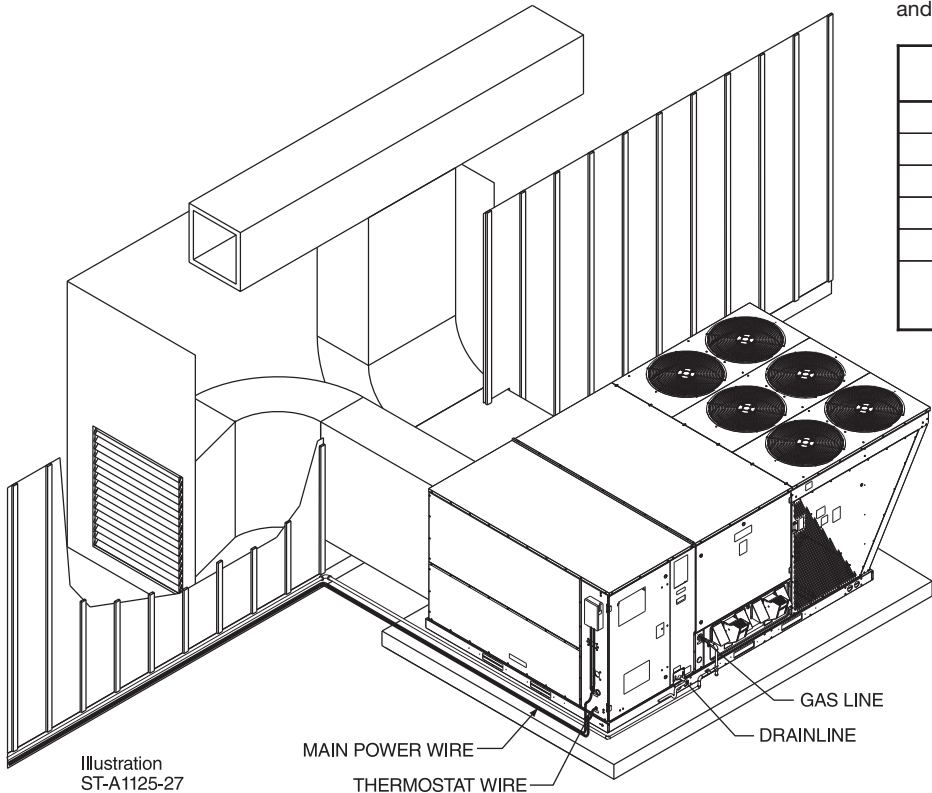
[] Designates Metric Conversions

SLAB INSTALLATION



CLEARANCES
 The following minimum clearances are recommended for proper unit performance and serviceability.

Recommended Clearance In. [mm]	Location
80 [2032]	A - Front
18 [457]	B - Condenser Coil
+18 [457]	+C - Duct Side
*18 [457]	*D - Evaporator End
60 [1524]	E - Above
*Without Economizer. 48" [1219 mm] With Economizer +Without Horizontal Economizer, 42" [1067 mm] with Horizontal Economizer	



[] Designates Metric Conversions

FIELD INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Downflow Economizer w/Single Enthalpy (DDC)	AXRD-PMCM3	277 [125.6]	168 [76.2]	Yes
Downflow Economizer w/Smoke Detector (DDC)	AXRD-SMCM3	280 [127.0]	171 [77.6]	Yes
Dual Enthalpy Kit	RXXR-AV03	1 [0.5]	.5 [0.2]	No
Horizontal Economizer w/Single Enthalpy (DDC)	AXRD-RMCM3	333 [151.0]	301 [36.5]	No
Carbon Dioxide Sensor (Wall Mount)	RXXR-AR02	3 [1.4]	2 [1.0]	No
Power Exhaust (208/230V)	RXXR-BGF05C	119 [54.0]	59 [26.8]	No
Power Exhaust (460V)	RXXR-BGF05D	119 [54.0]	59 [26.8]	No
Power Exhaust (575V)	RXXR-BGF05Y	119 [54.0]	59 [26.8]	No
Manual Fresh Air Damper*	AXRF-KFA1	61 [27.7]	52 [23.6]	No
Motorized Kit for Manual Fresh Air Damper*	RXXR-AW03	42 [19.1]	35 [15.9]	No
Modulating Motor Kit w/position feedback for RXRF-KFA1	RXXR-AW05	45 [20.4]	38 [17.2]	No
Roofcurb, 14"	RXKG-CBH14	184 [83.5]	176 [79.8]	No
Roofcurb Adapter to RXRK-E56	RXXR-CJCE56	465 [210.9]	415 [88.2]	No
Roofcurb Adapter to RXKG-CAF14	RXXR-CJCF14	555 [251.7]	505 [29.1]	No
Concentric Diffuser (Step-Down, 18" x 36")	RXRN-AD81	310 [140.6]	157 [71.2]	No
Concentric Diffuser (Step-Down, 24" x 48")	RXRN-AD86	367 [166.5]	212 [96.2]	No
Concentric Diffuser (Step-Down, 28" x 60")	RXRN-AD88	410 [186.0]	370 [67.8]	No
Concentric Diffuser (Flush, 18" x 36")	RXRN-AD80	213 [96.6]	115 [52.2]	No
Downflow Transition (Rect. to Rect., 18" x 36")	RXMC-CJ07	81 [36.7]	74 [33.6]	No
Downflow Transition (Rect. to Rect., 24" x 48")	RXMC-CK08	81 [36.7]	74 [33.6]	No
Downflow Transition (Rect. to Rect., 28" x 60")	RXMC-CL09	81 [36.7]	74 [33.6]	No
Low-Ambient Control Kit (1 Per Compressor)	RXRZ-C02	3 [1.4]	2 [0.9]	Yes
Unwired Convenience Outlet	RXXR-AN01	2 [0.9]	1.5 [0.7]	Yes
Unfused Service Disconnect+	RXXR-AP01	10 [4.5]	9 [4.1]	Yes
Comfort Alert (1 per compressor)	RXXR-AZ01	3 [1.4]	2 [0.9]	Yes
BACnet Communication Card	RXXR-AY01	1 [0.5]	1 [0.5]	No
LonWorks Communication Card	RXXR-AY02	1 [0.5]	1 [0.5]	No
Hail Guard Louvers	AXRX-AAD01L	55 [24.8]	45 [20.3]	Yes
MERV 8 Filter	RXMF-M08A22520	2 [0.9]	1 [0.45]	No
MERV 13 Filter	RXMF-M13A22520	2 [0.9]	1 [0.45]	No

*Motorized Kit and Manual Fresh Air Damper must be combined for a complete Motorized Outside Air Damper Selection.

+Do not use on or RKNL-C 300C voltage models.

[] Designates Metric Conversions

FLUSH MOUNT ROOM TEMPERATURE SENSORS FOR NETWORKED DDC APPLICATIONS



ROOM TEMPERATURE SENSOR RHC-ZNS1 with TIMED OVERRIDE BUTTON

10k Ω room temperature sensor transmits room temperature to DDC system. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



ROOM TEMPERATURE SENSOR RHC-ZNS2 with TIMED OVERRIDE BUTTON and STATUS INDICATOR

10k Ω room temperature sensor transmits room temperature to DDC system. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time. Status Indicator Light transmits ALARM flash code to occupied space.



ROOM TEMPERATURE SENSOR RHC-ZNS3 with SETPOINT ADJUSTMENT and TIMED OVERRIDE BUTTON

10k Ω room temperature sensor with setpoint adjustment transmits room temperature to DDC system along with desired occupied room temperature setpoint. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.

COMMUNICATION CARDS

Field Installed



BACnet® COMMUNICATION CARD RXRX-AY01

The field installed BACnet® Communication Card allows the RTU-C unit controller to communicate with a third party building management system that supports the BACnet Application Specific Controller device profile. The BACnet® Communication Module plugs onto the unit RTU-C controller and allows communication between the RTU-C and the BACnet MSTP network.



LonWorks® COMMUNICATION CARD RXRX-AY02

The field installed LonWorks® Communication Card allows the RTU-C unit controller to communicate with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks Network.

ECONOMIZERS

Use to Select Factory Installed Options Only

AXRD-PMCM3—Single Enthalpy (Outdoor) with DDC

AXRD-SMCM3—Single Enthalpy (Outdoor) with Smoke Detector and DDC

RXXR-AV03—Dual Enthalpy Upgrade Kit

RXXR-AR02—Optional Wall-Mounted CO₂ Sensor

- Features **Honeywell** Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application.
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is available from Prostock.
- Field Installed Power Exhaust Available
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS) or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 character LCD screen

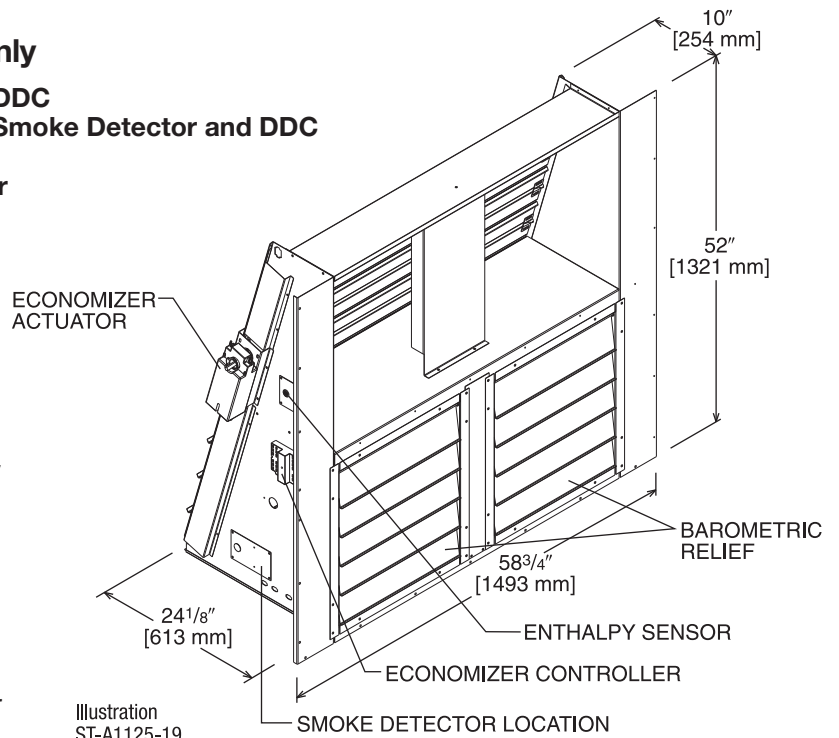


Illustration
ST-A1125-19

TOLERANCE ± .125

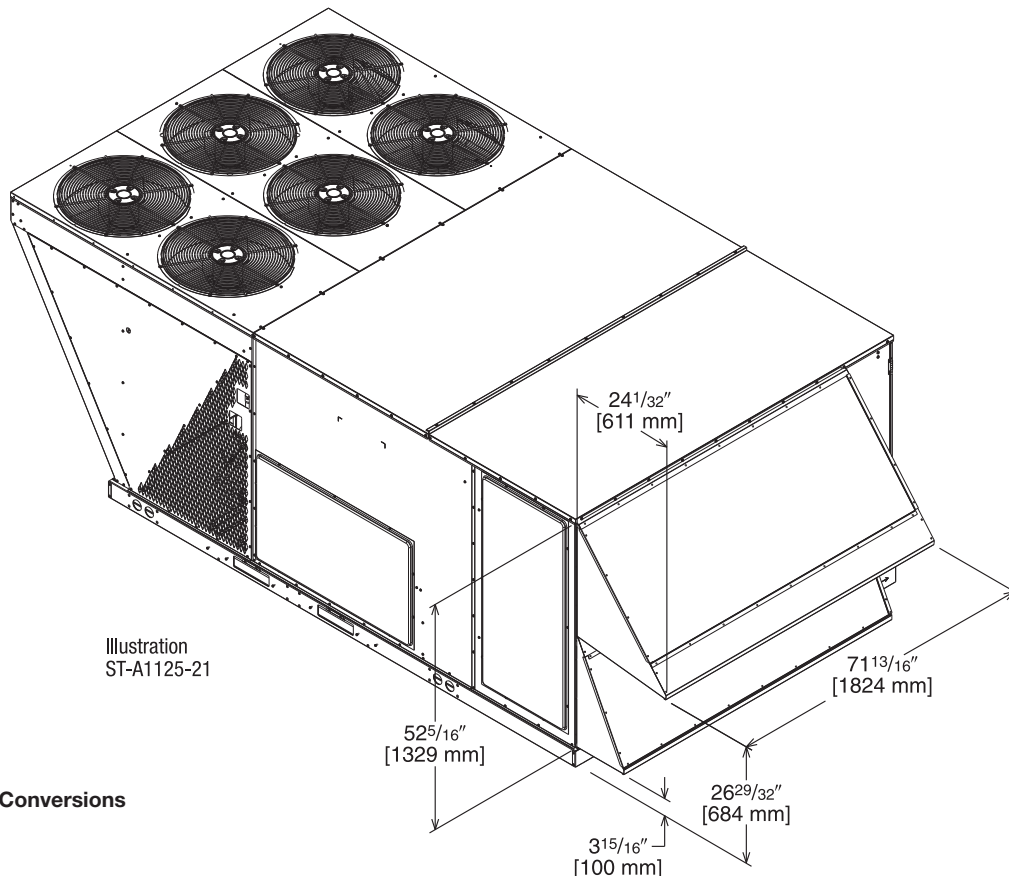


Illustration
ST-A1125-21

[] Designates Metric Conversions

ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

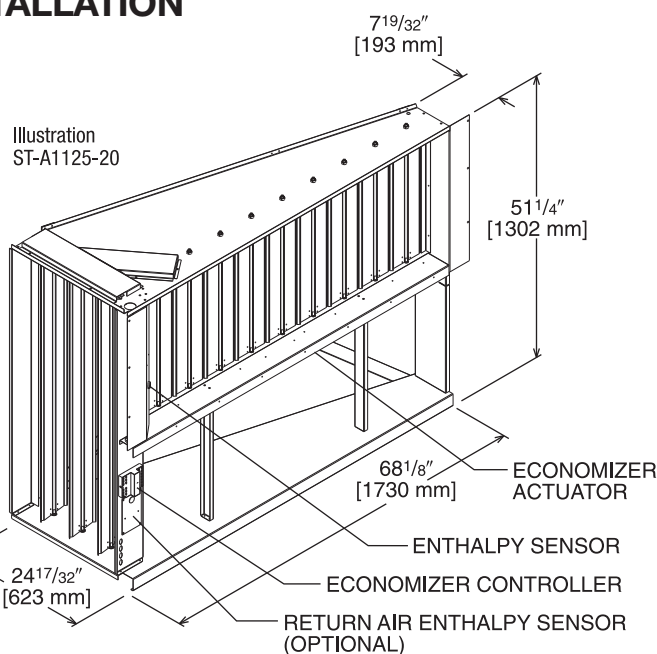
Field Installed Only

AXRD-RMCM3—Single Enthalpy (Outdoor) with DDC

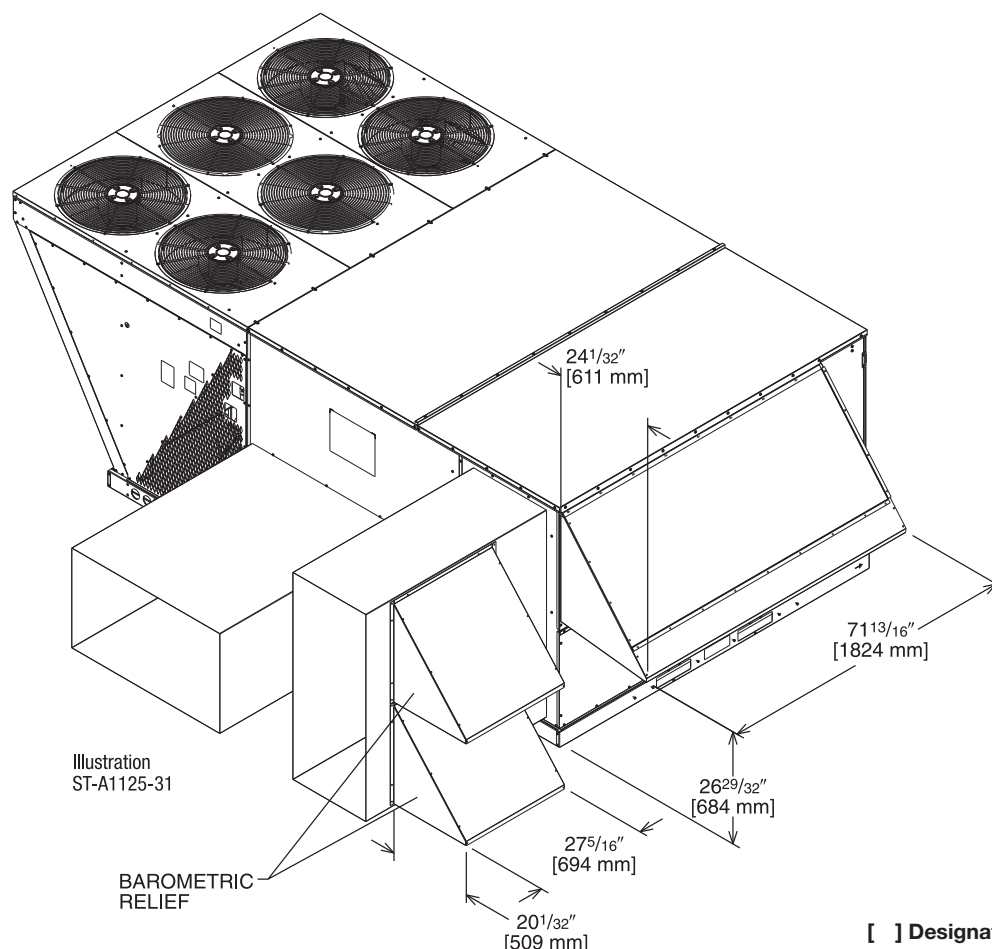
RXXR-AV03—Dual Enthalpy Upgrade Kit

RXXR-AR02—Wall-mounted CO₂ Sensor

- Features **Honeywell** Controls
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is available from Prostock
- Field Installed Power Exhaust Available
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS) or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen



TOLERANCE $\pm .125$



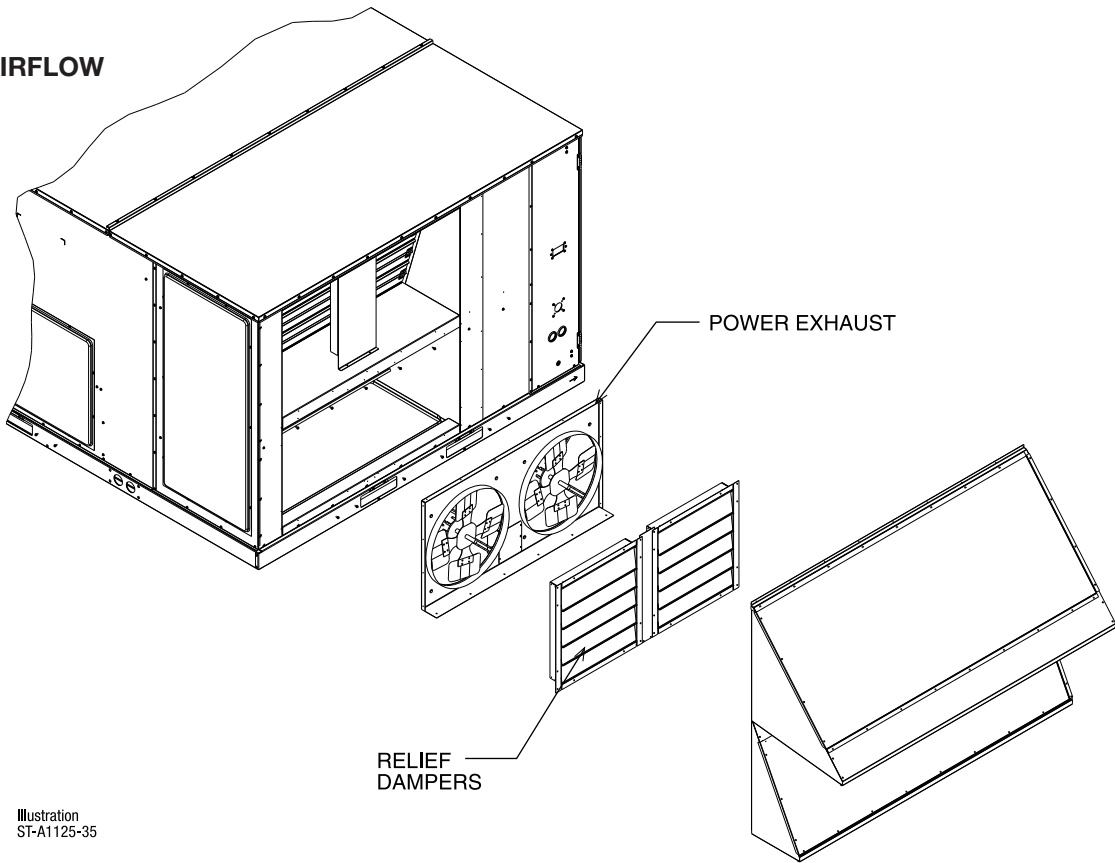
[] Designates Metric Conversions

POWER EXHAUST KIT FOR AXRD-PMCM3 & SMCM3 ECONOMIZERS

RXRX-BGF05 (C, D, or Y*)

*Voltage Code

VERTICAL AIRFLOW



Model No.	No. of Fans	Volts	Phase	HP (ea.)	Low Speed		High Speed ①		FLA (ea.)	LRA (ea.)
					CFM [L/s] ②	RPM	CFM [L/s] ②	RPM		
RXRX-BGF05C	2	208-230	1	0.75	4100 [1935]	850	5200 [2454]	1050	5	4.97
RXRX-BGF05D	2	460	1	0.75	4100 [1935]	850	5200 [2454]	1050	2.2	3.4
RXRX-BGF05Y	2	575	1	0.75	4100 [1935]	850	5200 [2454]	1050	1.5	2.84

NOTES: ① Power exhaust is factory set on high speed motor tap.
② CFM is per fan at 0" w.c. external static pressure.

[] Designates Metric Conversions

FRESH AIR DAMPER

MOTORIZED DAMPER KIT

RXXR-AW03

(Motor Kit for AXRF-KFA1)

RXXR-AW05

(Modulating Motor Kit with position feedback for AXRF-KFA1)

- Features **Honeywell** Controls
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Addition of Dual Enthalpy Upgrade Kit allows limited economizer function
- CO₂ Sensor Input Available for Demand Control Ventilation (DCV)
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is available from Prostock.
- All fresh air damper functions can be viewed at the RTU-C unit controller display
- If connected to a Building Automation System (BAS), all fresh air damper functions can be viewed on the (BAS), on 16 x 2 LCD screen
- If connected to thermostat, all fresh air damper functions can be viewed on 16 x 2 LCD screen

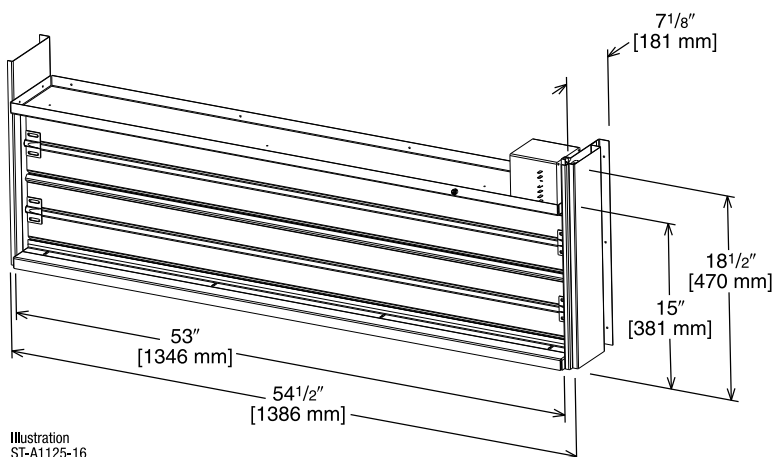


Illustration
ST-A1125-16

AXRF-KFA1 (Manual)

RXXR-AW03 (Motorized damper kit for manual fresh air damper)

RXXR-AW05 (Modulating damper kit with position feedback for AXRF-KFA1)

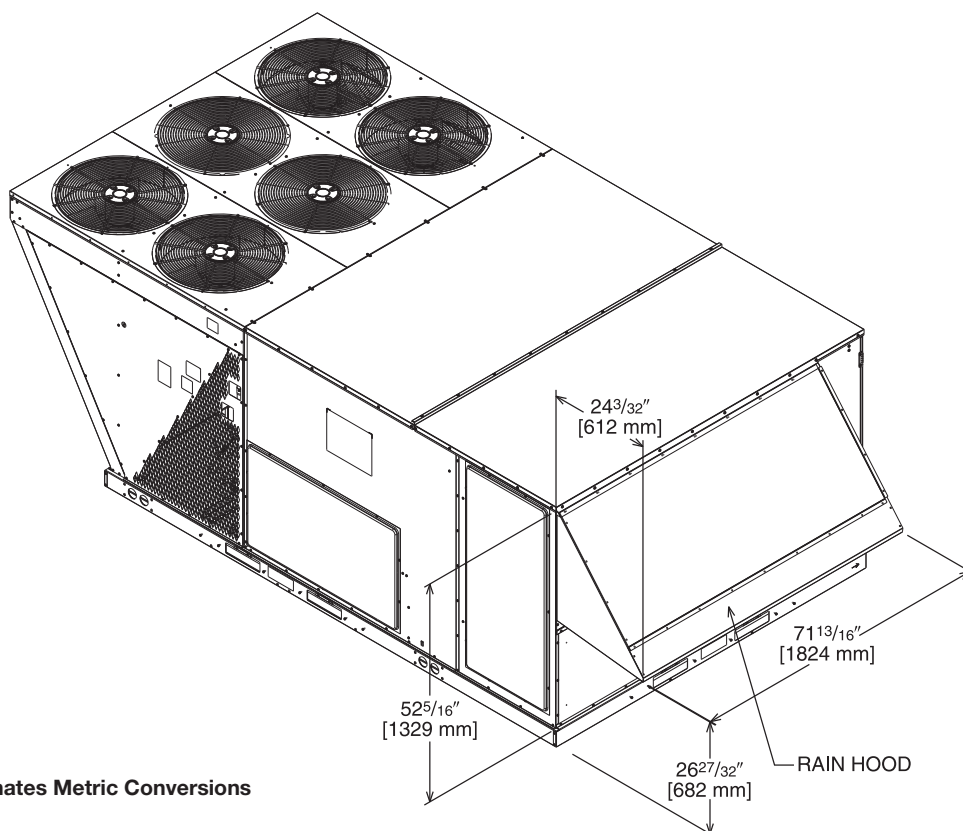


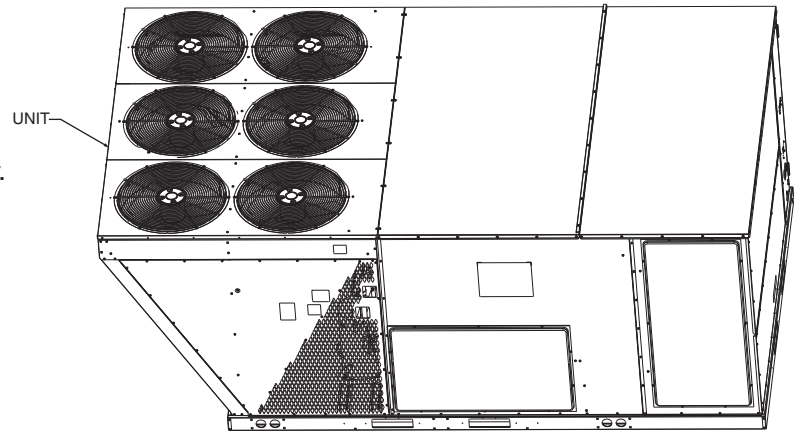
Illustration
ST-A1125-17

[] Designates Metric Conversions

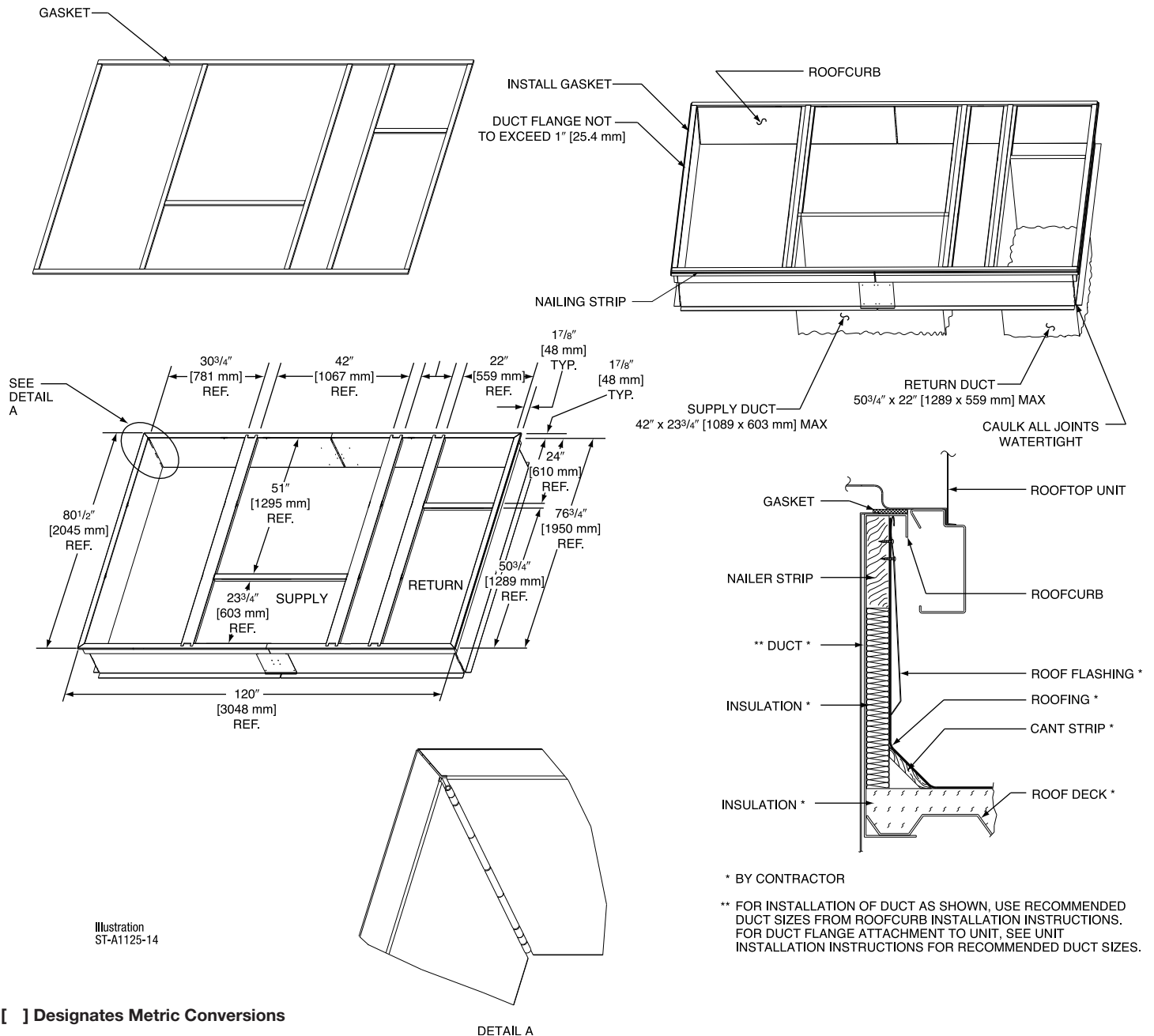
ROOFCURBS (Full Perimeter)

- Rheem's new roofcurb designs can be utilized on 15, 17.5, 20 and 25 ton [52.8, 61.5, 70.3 and 87.9 kW] models.
- One available height (14" [356 mm]).
- Quick assembly corners for simple and fast assembly.
- 1" [25.4 mm] x 4" [102 mm] Nailers provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

TYPICAL INSTALLATION



ROOFCURB ASSEMBLY



[] Designates Metric Conversions

ROOFCURB ADAPTER

OLD MODELS

COMMERCIAL CABINET
(12.5, 15 & 20 TON)
([44, 52.8 & 70.3 kW])
(-)RCF, (-)RGF, (-)REF

OLD CURB MODEL

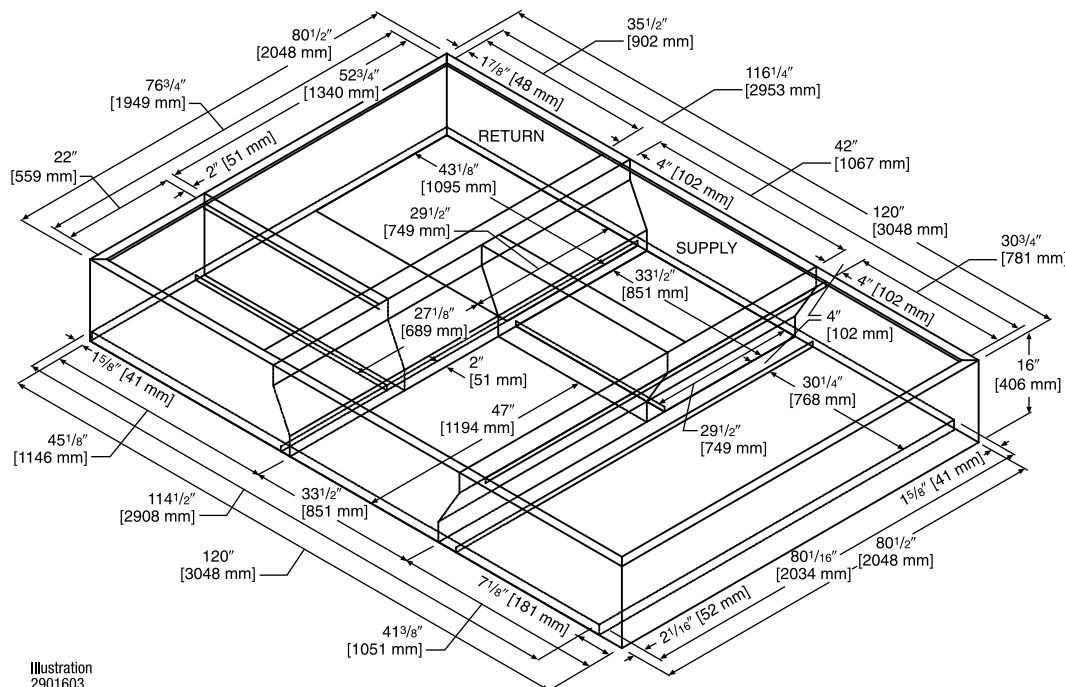
RXRK-E56

ROOFCURB ADAPTER

RXRX-CJCE56

NEW MODEL

RKNL
(15, 17.5, 20 & 25 TON)
([52.8, 61.5, 70.3 & 87.9 kW])

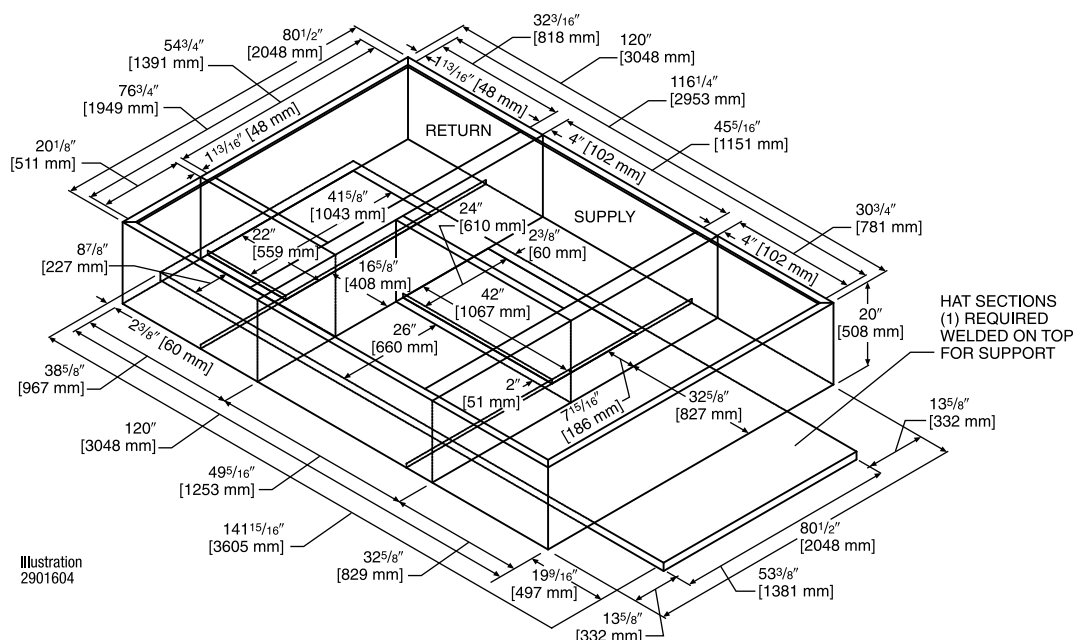


COMMERCIAL CABINET
(15, 20 & 25 TON)
([52.8, 70.3, 87.9 kW])
(-)KKB, (-)KMB, (-)KNB

RXKG-CAF14

RXRX-CJCF14

RKNL
(15, 17.5, 20 & 25 TON)
([52.8, 61.5, 70.3 & 87.9 kW])



[] Designates Metric Conversions

CONCENTRIC DIFFUSER APPLICATION

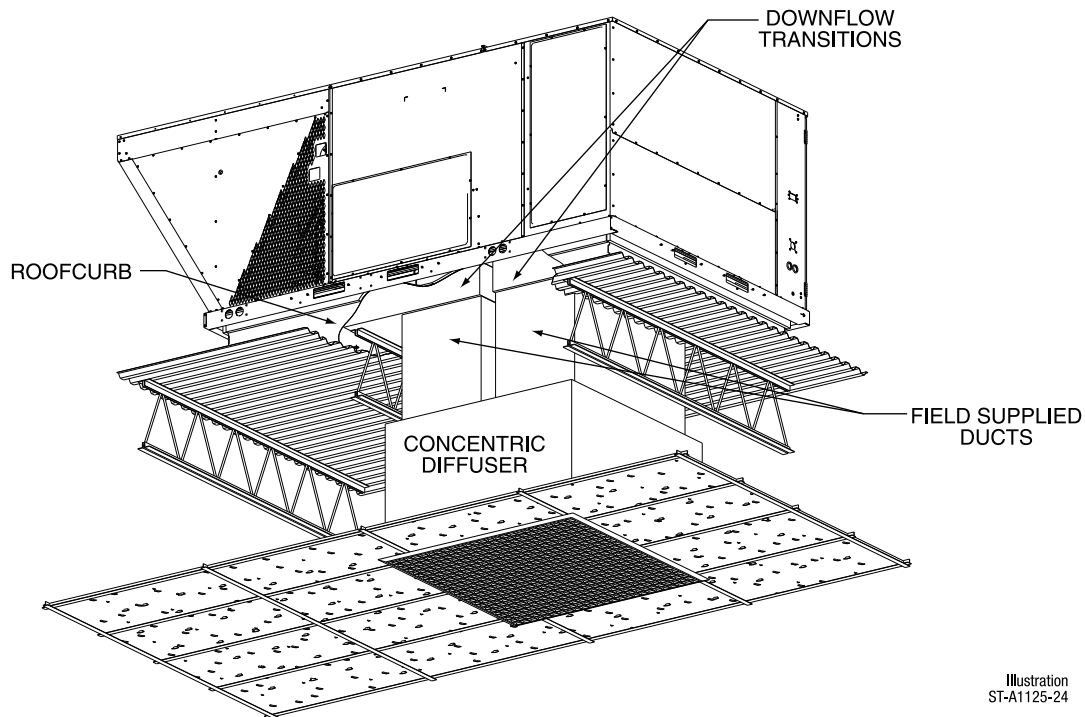


Illustration
ST-A1125-24

DOWNFLOW TRANSITION DRAWINGS

RXMC-CJ07 (15 Ton) [52.8 kW]

- Used with RXRN-AD80 and RXRN-AD81 Concentric Diffusers.

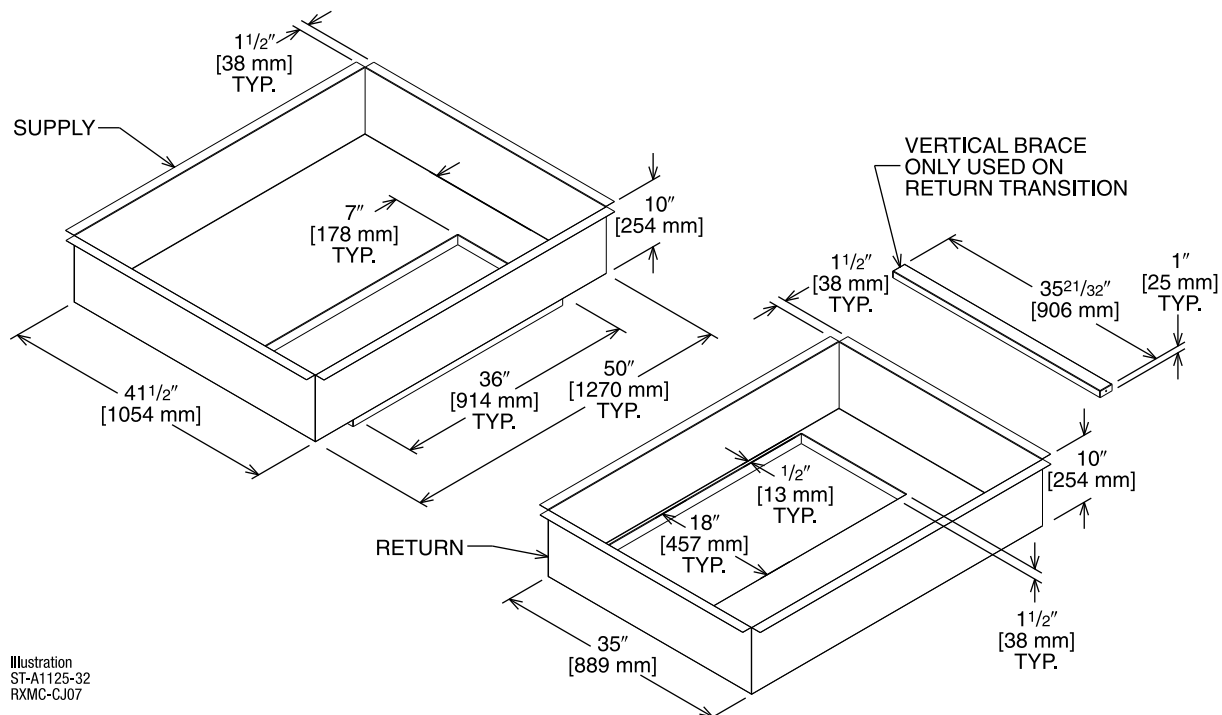


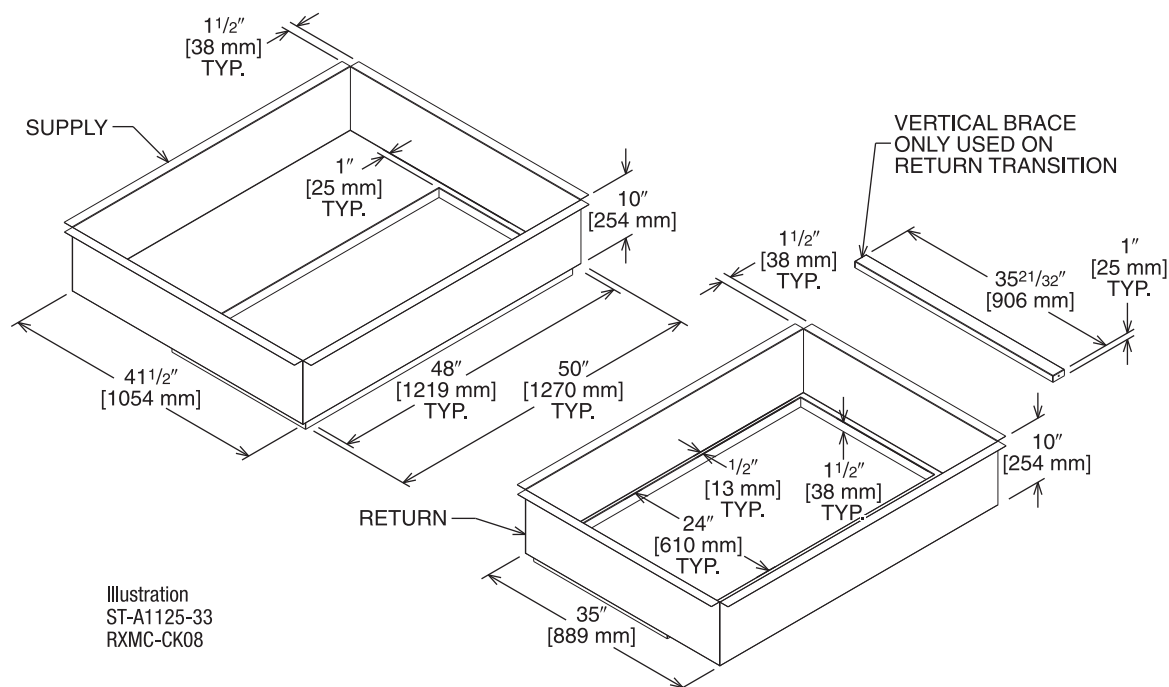
Illustration
ST-A1125-32
RXMC-CJ07

[] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS (Cont.)

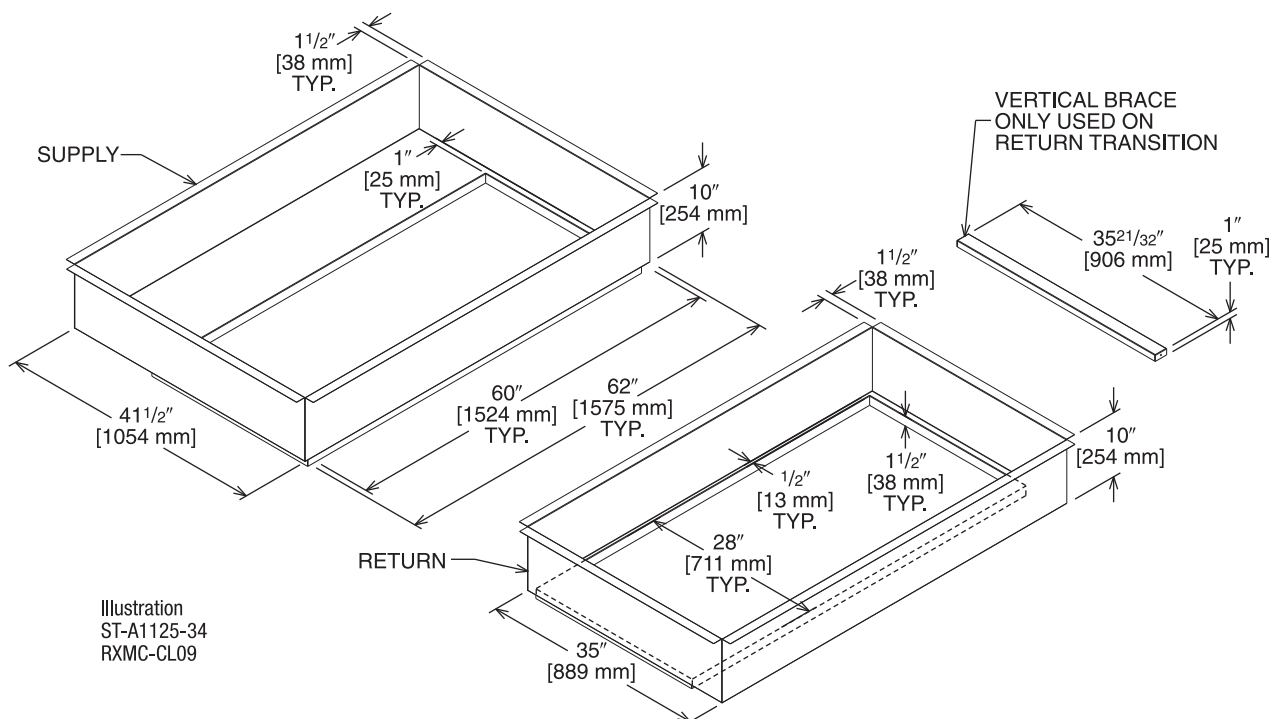
RXMC-CK08 (20 Ton) [70.3 kW]

- Used with RXRN-AD86 Concentric Diffusers.



RXMC-CL09 (25 Ton) [87.9 kW]

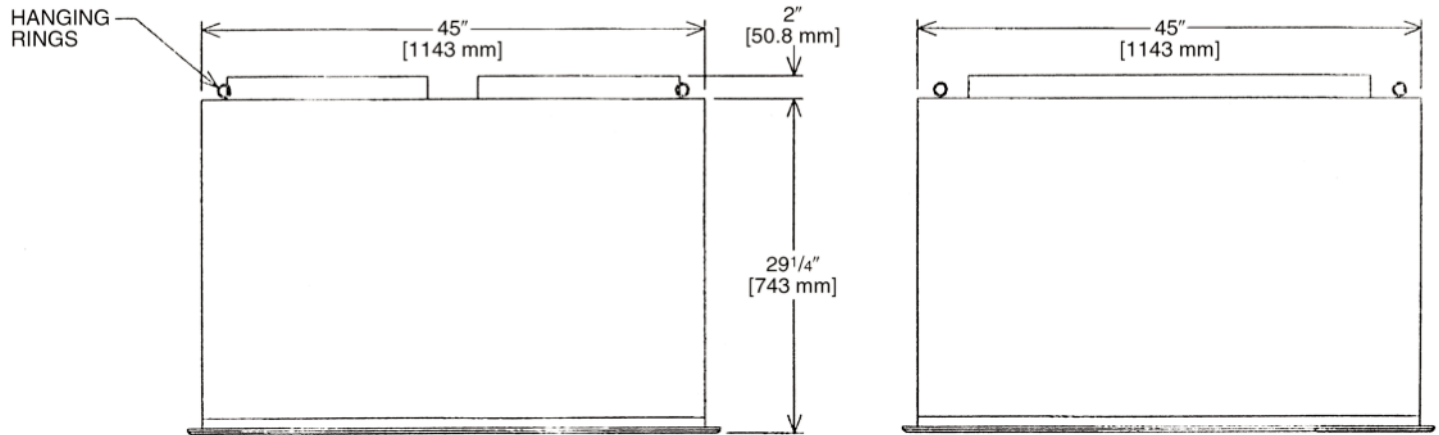
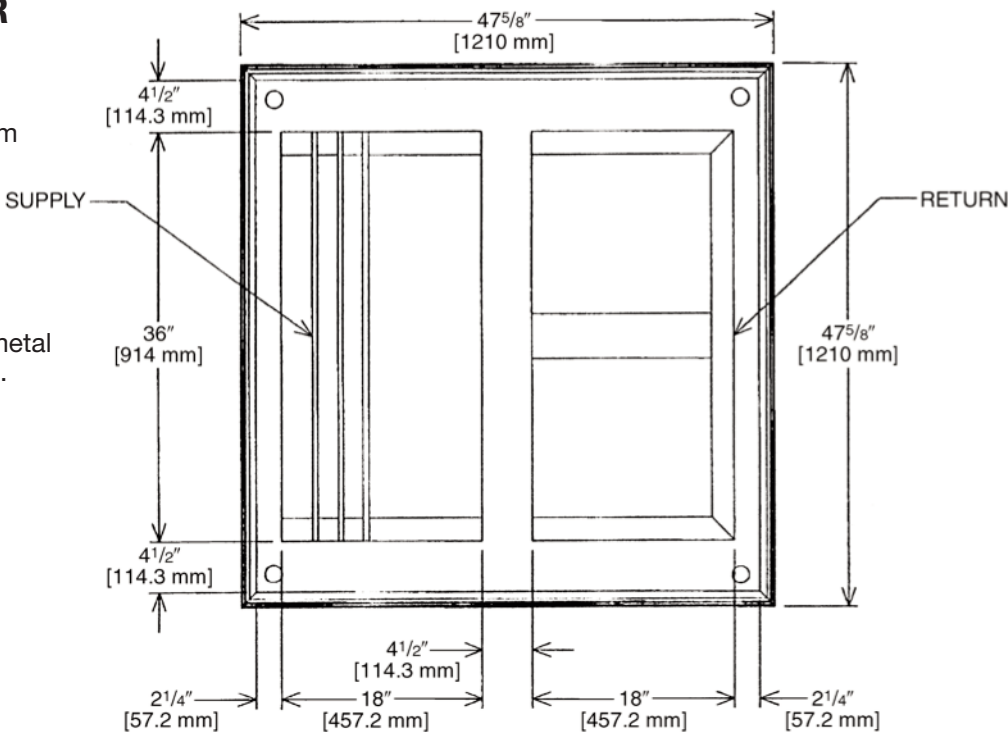
- Used with RXRN-AD88 Concentric Diffusers.



[] Designates Metric Conversions

CONCENTRIC DIFFUSER **RXRN-AD80 SERIES** **15 TON [52.8 kW] FLUSH**

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.



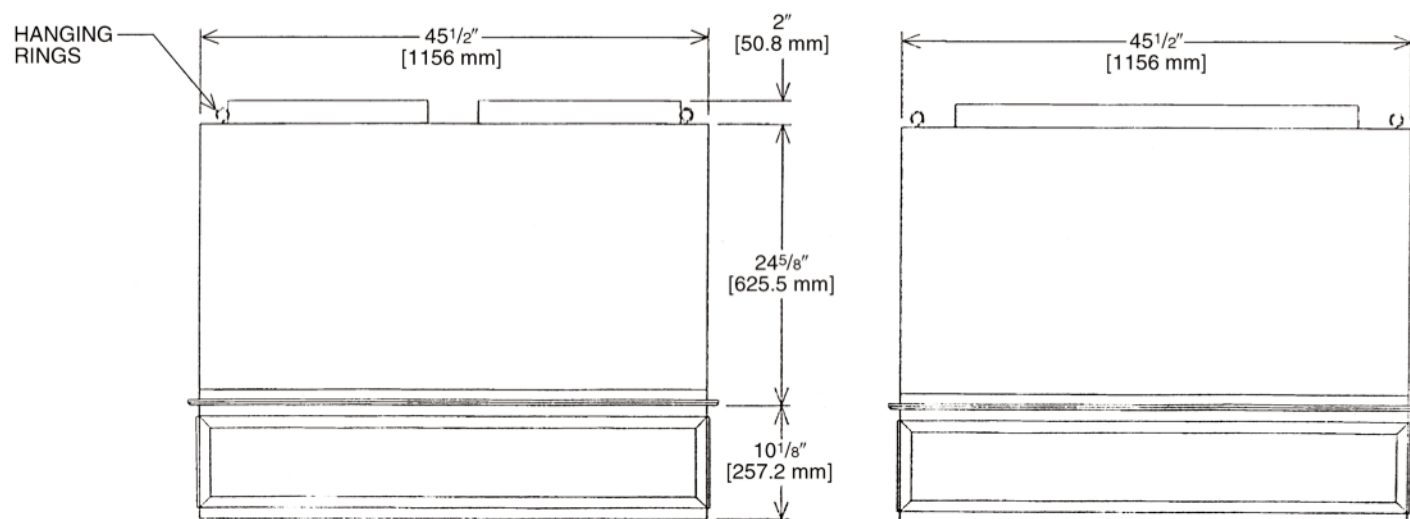
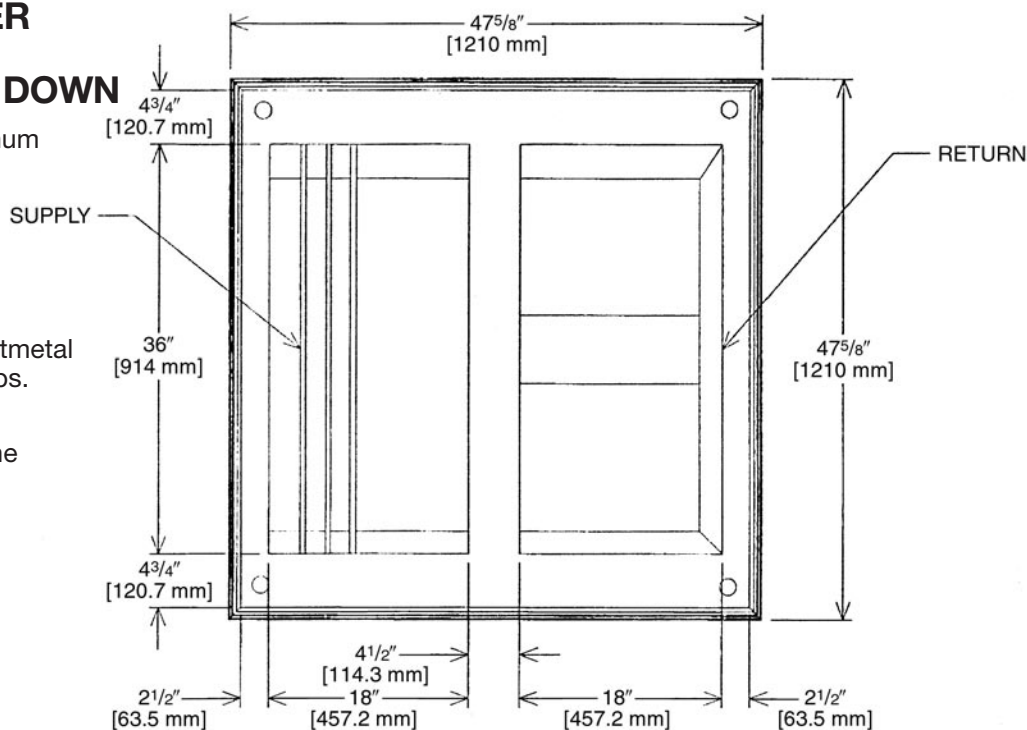
CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD80	5600 [2643]	0.36	28-37	1000	2082
	5800 [2737]	0.39	29-38	1036	2156
	6000 [2832]	0.42	40-50	1071	2230
	6200 [2926]	0.46	42-51	1107	2308
	6400 [3020]	0.50	43-52	1143	2379
	6600 [3115]	0.54	45-56	1179	2454

[] Designates Metric Conversions

CONCENTRIC DIFFUSER RXRN-AD81 SERIES 15 TON [52.8 kW] STEP DOWN

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.



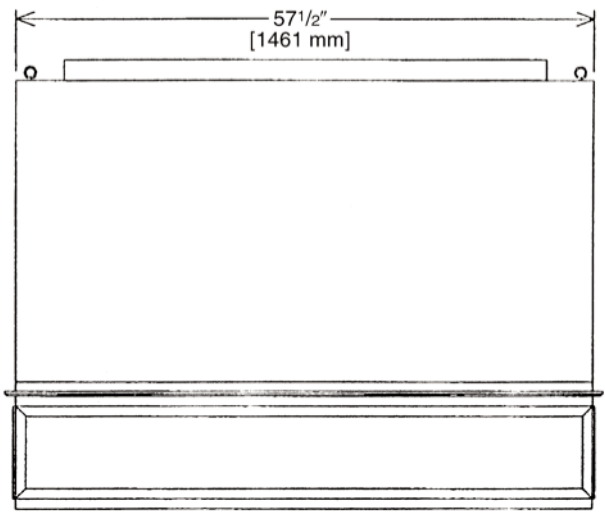
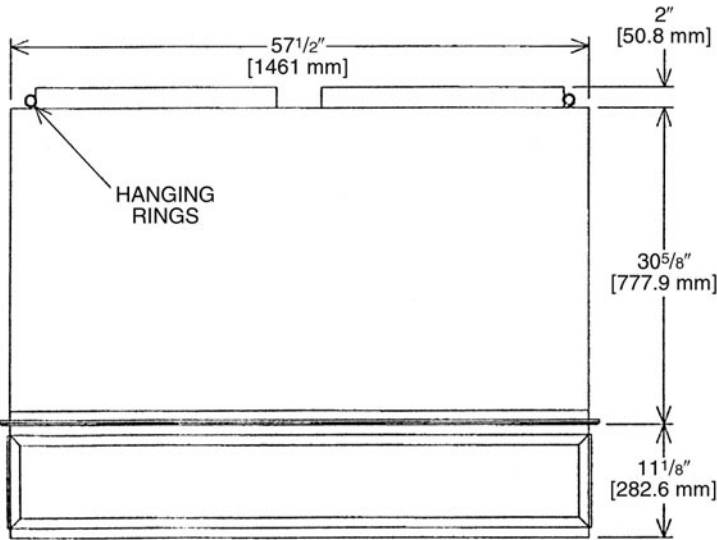
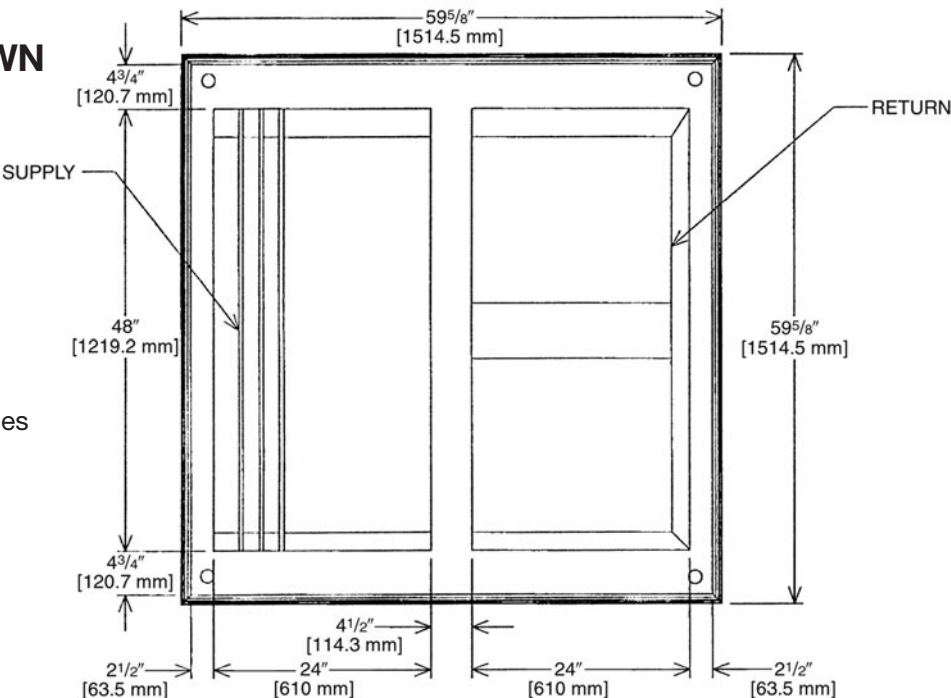
CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD81	5600 [2643]	0.36	39-49	920	920
	5800 [2737]	0.39	42-51	954	954
	6000 [2832]	0.42	44-54	1022	1022
	6200 [2926]	0.46	45-55	1056	1056
	6400 [3020]	0.50	46-55	1090	1090
	6600 [3115]	0.54	47-56	1124	1124

[] Designates Metric Conversions

CONCENTRIC DIFFUSER **RXRN-AD86 SERIES** **20 TON [70.3 kW] STEP DOWN**

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.



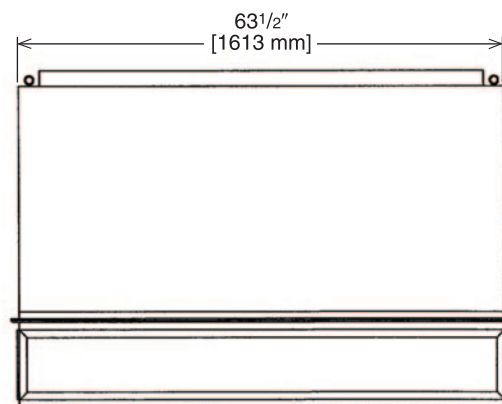
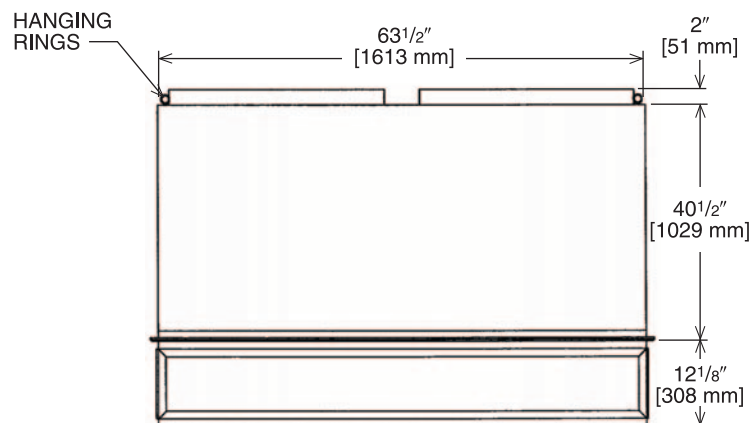
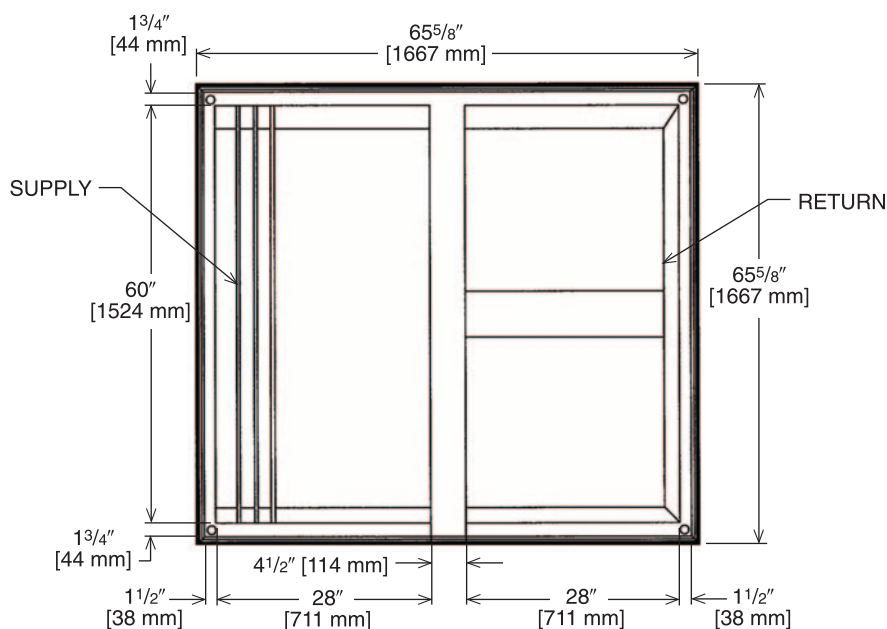
CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD86	7200 [3398]	0.39	33-38	827	827
	7400 [3492]	0.41	35-40	850	850
	7600 [3587]	0.43	36-41	873	873
	7800 [3681]	0.47	38-43	896	896
	8000 [3776]	0.50	39-44	918	918
	8200 [3870]	0.53	41-46	941	941
	8400 [3964]	0.56	43-49	964	964
	8600 [4059]	0.59	44-50	987	987
	8800 [4153]	0.63	47-55	1010	1010

[] Designates Metric Conversions

CONCENTRIC DIFFUSER RXRN-AD88 SERIES 25 TON [87.9 kW] STEP DOWN

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.



CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD88	10000 [4719]	0.51	46-54	907	907
	10500 [4955]	0.58	50-58	953	953
	11000 [5191]	0.65	53-61	998	998
	11500 [5427]	0.73	55-64	1043	1043
	12000 [5663]	0.82	58-67	1089	1089
	12500 [5898]	0.91	61-71	1134	1134
	13000 [6134]	1.00	64-74	1179	1179

[] Designates Metric Conversions

Guide Specifications RKNL-C/H 180 thru C/H300

You may copy this document directly into your building specification. This specification is written to comply with the 2004 version of the “master format” as published by the Construction Specification Institute. www.csinet.org.

GAS HEAT PACKAGED ROOFTOP

HVAC Guide Specifications

Size Range: 15 to 25 Nominal Tons

Section	Description
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23 06 80	Schedules for Decentralized HVAC Equipment
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23 06 80.13	Decentralized Unitary HVAC Equipment Schedule
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23 06 80.13.A.	Rooftop unit schedule
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1. Schedule is per the project specification requirements.

23 07 16	HVAC Equipment Insulation
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23 07 16.13	Decentralized, Rooftop Units:
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1. Interior cabinet surfaces shall be insulated with a minimum 3/4-in. thick, minimum 1-1/2 lb density, flexible fiberglass insulation bonded with a phenolic binder, with aluminum foil facing on the air side.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

23 09 13	Instrumentation and Control Devices for HVAC
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23 09 13.23	Sensors and Transmitters
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23 09 13.23.A.	Thermostats
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1. Thermostat must
 - a. have capability to energize 2 different stages of cooling, and 2 different stages of heating.
 - b. must include capability for occupancy scheduling.

23 09 23	Direct-digital Control system for HVAC
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23 09 23.13	Decentralized, Rooftop Units:
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23 09 23.13.A.	RTU-C controller
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1. Shall be ASHRAE 62-2001 compliant.
2. Shall accept 18-32VAC input power.
3. Shall have an operating temperature range from -40°F (-40°C) to 158°F (70°C), 10% - 95% RH (non-condensing).
4. Controller shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, fire shutdown, return air enthalpy, fan status, remote time clock/door switch.
5. Shall accept a CO₂ sensor in the conditioned space, and be Demand Control Ventilation (DCV) ready.
6. Shall provide the following outputs: Economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, heat stage 3/ exhaust/ occupied.
7. Unit shall provide surge protection for the controller through a circuit breaker.
8. Shall have a field installed communication card allowing the unit to be Internet capable, and communicate at a Baud rate of 19.2K or faster
9. Shall have an LED display independently showing the status of activity on the communication bus, and processor operation.
10. Shall have either a field installed BACnet® plug-in communication card which includes an EIA-485 protocol communication port, or a field installed LonWorks™ plug-in communications card.
11. Software upgrades will be accomplished by local download. Software upgrades through chip replacements are not allowed.
12. Shall be shock resistant in all planes to 5G peak, 11ms during operation, and 100G peak, 11ms during storage.
13. Shall be vibration resistant in all planes to 1.5G @ 20-300 Hz.
14. Shall support a bus length of 4000 ft max, 60 devices per 1000 ft section, and 1 RS-485 repeater per 1000 ft sections.

23 09 23.13.B.	Open protocol, direct digital controller:
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1. Shall be ASHRAE 62-2001 compliant.
2. Shall accept 18-30VAC, 50-60Hz, and consume 15VA or less power.
3. Shall have an operating temperature range from -40°F (-40°C) to 130°F (54°C), 10% - 90% RH (non-condensing).
4. Shall have either a field installed BACnet® plug-in communication card which includes an EIA-485 protocol communication port, or a field installed LonWorks™ plug-in communications card.
5. The BACnet® plug in communication card shall include built-in protocol for BACNET (MS/TP and PTP modes)
6. The LonWorks™ plug in communication card shall include the Echelon processor required for all Lon applications.
7. Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers
8. Baud rate Controller shall be selectable through the EIA-485 protocol communication port.
9. Shall have an LED display independently showing the status of serial communication, running, errors, power, all digital outputs, and all analog inputs.
10. Shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, compressor lock-out, fire shutdown, enthalpy switch, and fan status/filter status/ humidity/ remote occupancy.

11. Shall provide the following outputs: economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, heat stage 3/ exhaust.
12. Software upgrades will be accomplished by either local or remote download. No software upgrades through chip replacements are allowed.

23 09 33 Electric and Electronic Control System for HVAC**23 09 33.13 Decentralized, Rooftop Units:****23 09 33.13.A. General:**

1. Shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-v transformer side. Transformer shall have 100VA capabilities.
2. Shall utilize color-coded wiring.
3. The heat exchanger shall be controlled by an integrated furnace controller (IFC) microprocessor. See heat exchanger section of this specification.
4. Shall include a central control terminal board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, economizer, thermostat, DDC control options, loss of charge, freeze sensor, high pressure switches.
5. Unit shall include a minimum of one 10-pin screw terminal connection board for connection of control wiring.

23 09 33.23.B. Safeties:

1. Compressor over-temperature, over current.
2. Loss of charge switch.
 - a. Units with 2 compressors shall have different colored wires for the circuit 1 and circuit 2 low and high pressure switches.
 - b. Loss of charge switch shall use different color wire than the high pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
 - c. Loss of charge switch shall have a different sized connector than the high pressure switch. They shall physically prevent the cross-wiring of the safety switches between the high and low pressure side of the system.
3. High-pressure switch.
 - a. Units with 2 compressors shall have different colored wires for the circuit 1 and circuit 2 low and high pressure switches.
 - b. High pressure switch shall use different color wire than the low pressure switch. The purpose is to assist the installer and service person to correctly wire and or troubleshoot the rooftop unit.
 - c. High pressure switch shall have a different sized connector than the loss of charge switch. They shall physically prevent the cross-wiring of the safety switches between the high and low pressure side of the system.
4. Freeze protection sensor, evaporator coil.
5. Automatic reset, motor thermal overload protector.
6. Heating section shall be provided with the following minimum protections.
 - a. High-temperature limit switches.
 - b. Induced draft motor pressure switch.
 - c. Flame rollout switch.
 - d. Flame proving controls.

23 09 93 Sequence of Operations for HVAC Controls**23 09 93.13 Decentralized, Rooftop Units:****23 40 13 Panel Air Filters****23 40 13.13 Decentralized, Rooftop Units:****23 40 13.13.A. Standard filter section shall**

1. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
2. Unit shall use only one filter size. Multiple sizes are not acceptable.
3. Filter face velocity shall not exceed 365 fpm at nominal airflows.
4. Filters shall be accessible through an access panel as described in the unit cabinet section of the specification (23 81 19.13.H).

23 81 19 Self-Contained Air Conditioners**23 81 19.13 Small-Capacity Self-Contained Air Conditioners****23 81 19.13.A. General**

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a(n) hermetic scroll compressor(s) for cooling duty and gas combustion for heating duty.
2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
3. Unit shall use environmentally safe, R-410A refrigerant.
4. Unit shall be installed in accordance with the manufacturer's instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.

23 81 19.13.B. Quality Assurance

1. Unit meets ASHRAE 90.1-2004 minimum efficiency requirements.
2. 3 phase units are Energy Star qualified.
3. Unit shall be rated in accordance with AHRI Standards 210 and 360.
4. Unit shall be designed to conform to ASHRAE 15, 2001.
5. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
6. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
7. Unit casing shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
8. Unit casing shall be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 5000-hour salt spray.
9. Unit shall be designed in accordance with ISO 9001:2000, and shall be manufactured in a facility registered by ISO 9001:2000.
10. Roof curb shall be designed to conform to NRCA Standards.
11. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
12. Unit shall be designed in accordance with UL Standard 1995, including tested to withstand rain.
13. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.

23 81 19.13.C. Delivery, Storage, and Handling

1. Unit shall be stored and handled per manufacturer's recommendations.
2. Lifted by crane requires either shipping top panel or spreader bars.
3. Unit shall only be stored or positioned in the upright position.

23 81 19.13.E. Project Conditions

1. As specified in the contract.

23 81 19.13.F. Operating Characteristics

1. Unit shall be capable of starting and running at 115°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 or 360 at $\pm 10\%$ voltage.
2. Compressor with standard controls shall be capable of operation down to 40°F (4°C), ambient outdoor temperatures. Accessory low ambient kit is necessary if mechanically cooling at ambient temperatures below 40°F (4°C).
3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
4. Unit shall be factory configured for vertical supply & return configurations.
5. Unit shall be field convertible from vertical to horizontal configuration.

23 81 19.13.G. Electrical Requirements

1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

23 81 19.13.H. Unit Cabinet

1. Unit cabinet shall be constructed of galvanized steel, and shall be bonderized and coated with a baked enamel finish on all externally exposed surfaces.
2. Unit cabinet exterior paint shall be: film thickness, (dry) 0.003 inches minimum, gloss (per ASTM D523, 60°F / 16°C): 60, Hardness: H-2H Pencil hardness.
3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210 or 360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 3/4-in. thick, 1 lb. density, flexible fiberglass insulation, aluminum foil-face coated on the air side.
4. Base of unit shall have locations for thru-the-base gas and electrical connections (factory installed or field installed), standard.
5. Base Rail
 - a. Unit shall have base rails on all sides.
 - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.

- c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
- d. Base rail shall be a minimum of 14 gauge thickness.

6. Condensate pan and connections:

- a. Shall be a sloped condensate drain pan made of a non-corrosive material.
- b. Shall comply with ASHRAE Standard 62.
- c. Shall use a 1" x 11-1/2 NPT drain connection through the side of the drain pan. Connection shall be made per manufacturer's recommendations.

7. Gas Connections:

- a. All gas piping connecting to unit gas valve shall enter the unit cabinet at a single location on side of unit (horizontal plane).
- b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base gas-line location using a raised, embossed portion of the unit basepan.
 - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.

8. Electrical Connections

- a. All unit power wiring shall enter unit cabinet at a single, factory-prepared, knockout location.
- b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
 - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.

9. Component access panels (standard)

- a. Cabinet panels shall be easily removable for servicing.
- b. Stainless steel metal hinges are standard on all doors.
- c. Panels covering control box, indoor fan, indoor fan motor and gas components (where applicable), shall have 1/4 turn latches.

23 81 19.13.I. Gas Heat

1. General

- a. Heat exchanger shall be an induced draft design. Positive pressure heat exchanger designs shall not be allowed.
- b. Shall incorporate a direct-spark ignition system and redundant main gas valve.
- c. Heat exchanger design shall allow combustion process condensate to gravity drain; maintenance to drain the gas heat exchanger shall not be required.
- d. Gas supply pressure at the inlet to the rooftop unit gas valve must match that required by the manufacturer.

2. The heat exchanger shall be controlled by an integrated furnace controller (IFC) microprocessor.

- a. IFC board shall notify users of fault using an LED (light-emitting diode).

3. Standard Heat Exchanger construction

- a. Heat exchanger shall be of the tubular-section type constructed of a minimum of 20-gauge aluminum coated steel for corrosion resistance.
- b. Burners shall be of the in-shot type constructed of aluminum-coated steel.
- c. Burners shall incorporate orifices for rated heat output up to 2000 ft (610m) elevation. Additional accessory kits may be required for applications above 2000 ft (610m) elevation, depending on local gas supply conditions.

4. Optional Stainless Steel Heat Exchanger construction

- a. Use energy saving, direct-spark ignition system.
- b. Use a redundant main gas valve.
- c. Burners shall be of the in-shot type constructed of aluminum-coated steel.
- d. All gas piping shall enter the unit cabinet at a single location on side of unit (horizontal plane).
- e. The optional stainless steel heat exchanger shall be of the tubular-section type, constructed of a minimum of 20-gauge type 409 stainless steel.
- f. Type 409 stainless steel shall be used in heat exchanger tubes and vestibule plate.
- g. Complete stainless steel heat exchanger allows for greater application flexibility.

5. Induced draft combustion motors and blowers

- a. Shall be a direct-drive, single inlet, forward-curved centrifugal type.

- b. Shall be made from steel with a corrosion-resistant finish.
- c. Shall have permanently lubricated sealed bearings.
- d. Shall have inherent thermal overload protection.
- e. Shall have an automatic reset feature.

23 81 19.13.J. Coils

1. Standard Aluminum/Copper Coils:

- a. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
- b. Evaporator and condenser coils shall be leak tested to 150 psig, pressure tested to 550 psig, and qualified to UL 1995 burst test at 2,200 psi.

23 81 19.13.K. Refrigerant Components

1. Refrigerant circuit shall include the following control, safety, and maintenance features:

- a. Thermal Expansion Valves (TXV) with orifice type distributor.
- b. Refrigerant filter drier.
- c. Service gauge connections on suction and discharge lines.
- d. Pressure gauge access through an access port in the front and rear panel of the unit.

2. Compressors

- a. Unit shall use one fully hermetic, scroll compressor for each independent refrigeration circuit.
- b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
- c. Compressors shall be internally protected from high discharge temperature conditions. Advanced Scroll Temperature Protection on 240-300 sizes.
- d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
- e. Compressor shall be factory mounted on rubber grommets.
- f. Compressor motors shall have internal line break thermal and current overload protection.
- g. Crankcase heaters shall not be required for normal operating range.

23 81 19.13.L. Filter Section

- 1. Filters access is specified in the unit cabinet section of this specification.
- 2. Filters shall be held in place by filter tray, facilitating easy removal and installation.
- 3. Shall consist of factory-installed, low velocity, throw-away 2-in. thick fiberglass filters.
- 4. Filter face velocity shall not exceed 365 fpm at nominal airflows.
- 5. Filters shall be standard, commercially available sizes.
- 6. Only one size filter per unit is allowed.

23 81 19.13.M. Evaporator Fan and Motor

1. Evaporator fan motor:

- a. Shall have permanently lubricated bearings.
- b. Shall have inherent automatic-reset thermal overload protection.
- c. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.

2. Belt-driven Evaporator Fan:

- a. Belt drive shall include an adjustable-pitch motor pulley.
- b. Shall use sealed, permanently lubricated ball-bearing type.
- c. Blower fan shall be double-inlet type with forward-curved blades.
- d. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.

23 81 19.13.N. Condenser Fans and Motors

1. Condenser fan motors:

- a. Shall be a totally enclosed motor.
- b. Shall use permanently lubricated bearings.
- c. Shall have inherent thermal overload protection with an automatic reset feature.
- d. Shall use a shaft-down design. Shaft-up designs including those with "rain-slinger devices" shall not be allowed.

2. Condenser Fans shall:

- a. Shall be a direct-driven propeller type fan
- b. Shall have aluminum blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

23 81 19.13.O. Special Features

1. Integrated Economizers:

- a. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
- b. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory installed option.
- c. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
- d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
- e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
- f. Shall be capable of introducing up to 100% outdoor air.
- g. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air. The barometric relief damper shall include seals, hardware and hoods to relieve building pressure. Damper shall gravity close upon unit shut down.
- h. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
- i. An outdoor single-enthalpy sensor shall be provided as standard. Outdoor air enthalpy set point shall be adjustable and shall range from the enthalpy equivalent of 63°F @ 50% rh to 73°F @ 50% rh. Additional sensor options shall be available as accessories.
- j. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 70%, with a range of 0% to 100%.
- k. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy. A remote potentiometer may be used to override the damper set point.
- l. Economizer controller shall accept a 2-10Vdc CO2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
- m. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
- n. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.

2. Two-Position Damper

- a. Damper shall be a Two-Position Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
- b. Damper shall include adjustable damper travel from 25% to 100% (full open).
- c. Damper shall include single or dual blade, gear driven damper and actuator motor.
- d. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
- e. Damper will admit up to 100% outdoor air for applicable rooftop units.
- f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
- g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
- h. Outside air hood shall include aluminum water entrainment filter.

3. Manual damper

- a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 50% outdoor air for year round ventilation.

4. Head Pressure Control Package

- a. Controller shall control coil head pressure by condenser-fan cycling.

5. Liquid Propane (LP) Conversion Kit

- a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit for use with liquefied propane, up to 2000 ft (610m) elevation.

6. Unit-Mounted, Non-Fused Disconnect Switch:

- a. Switch shall be factory-installed, internally mounted.
- b. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
- c. Shall be accessible from outside the unit.
- d. Shall provide local shutdown and lockout capability.
- e. Non-Powered convenience outlet.
- f. Outlet shall be powered from a separate 115-120v power source.
- g. A transformer shall not be included.
- h. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.

- i. Outlet shall include 15 amp GFI receptacle.
- j. Outlet shall be accessible from outside the unit.
- 7. Flue Discharge Deflector:
 - a. Flue discharge deflector shall direct unit exhaust vertically instead of horizontally.
 - b. Deflector shall be defined as a "natural draft" device by the National Fuel and Gas (NFG) code.
- 8. Thru-the-Base Connectors:
 - a. Kits shall provide connectors to permit gas and electrical connections to be brought to the unit through the unit basepan.
- 9. Propeller Power Exhaust:
 - a. Power exhaust shall be used in conjunction with an integrated economizer.
 - b. Independent modules for vertical or horizontal return configurations shall be available.
 - c. Horizontal power exhaust is shall be mounted in return ductwork.
 - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.
- 10. Roof Curbs (Vertical):
 - a. Full perimeter roof curb with exhaust capability providing separate airstreams for energy recovery from the exhaust air without supply air contamination.
 - b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
 - c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
- 11. Universal Gas Conversion Kit:
 - a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit to operate from 2000-7000 ft (610 to 2134m) elevation with natural gas or from 0-7000 ft (90-2134m) elevation with liquefied propane.
- 12. Outdoor Air Enthalpy Sensor:
 - a. The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.
- 13. Return Air Enthalpy Sensor:
 - a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
- 14. Indoor Air Quality (CO2) Sensor:
 - a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
 - b. The IAQ sensor shall be available in wall mount with LED display. The set point shall have adjustment capability.
- 15. Smoke detectors:
 - a. Shall be a Four-Wire Controller and Detector.
 - b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
 - c. Shall use magnet-activated test/reset sensor switches.
 - d. Shall have tool-less connection terminal access.
 - e. Shall have a recessed momentary switch for testing and resetting the detector.
 - f. Controller shall include:
 - i. One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel
 - ii. Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
 - iii. One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
 - iv. Capable of direct connection to two individual detector modules.
 - v. Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.

26 29 23.12.Adjustable Frequency Drive

- 1. Unit shall be supplied with an electronic variable frequency drive for the supply air fan.
- 2. Drive shall be factory installed in an enclosed cabinet.
- 3. Drive shall meet UL Standard 95-5V.
- 4. The completed unit assembly shall be UL listed.
- 5. Drives are to be accessible through a tooled access hinged door assembly.
- 6. The unit manufacturer shall install all power and control wiring.
- 7. The supply air fan drive output shall be controlled by the factory installed main unit control system and drive status and operating speed shall be monitored and displayed at the main unit control panel.
- 8. Drive shall be programmed and factory run tested in the unit.

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

GENERAL TERMS OF LIMITED WARRANTY*

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

Compressor

3 Phase, Commercial ApplicationsFive (5) Years

Parts

3 Phase, Commercial Applications.....One (1) Year

Factory Standard Heat Exchanger

3 Phase, Commercial ApplicationsTen (10) Years

Stainless Steel Heat Exchanger

3 Phase, Commercial ApplicationsTwenty (20) Years

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.



Air

Notes

RKNL-C/H Series





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In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

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