GZ EVOLUTION® SERIES
GEOTHERMAL SPLIT HEAT PUMP
SIZES 024, 036, 048, 060, 072

Product Data

FEATURES & BENEFITS

Energy Efficiency
- 3.3 - 4.2 COP, 15.4 - 24.2 EER (Closed Loop)
- 3.8 - 4.8 COP, 19.2 - 26.4 EER (Open Loop)
- Optional supplemental domestic water heating

Comfort
- Two-stage scroll compressor
- Used with variable speed fan coil or furnace coil

Control
- Microprocessor control
- Evolution compatible, including zoning

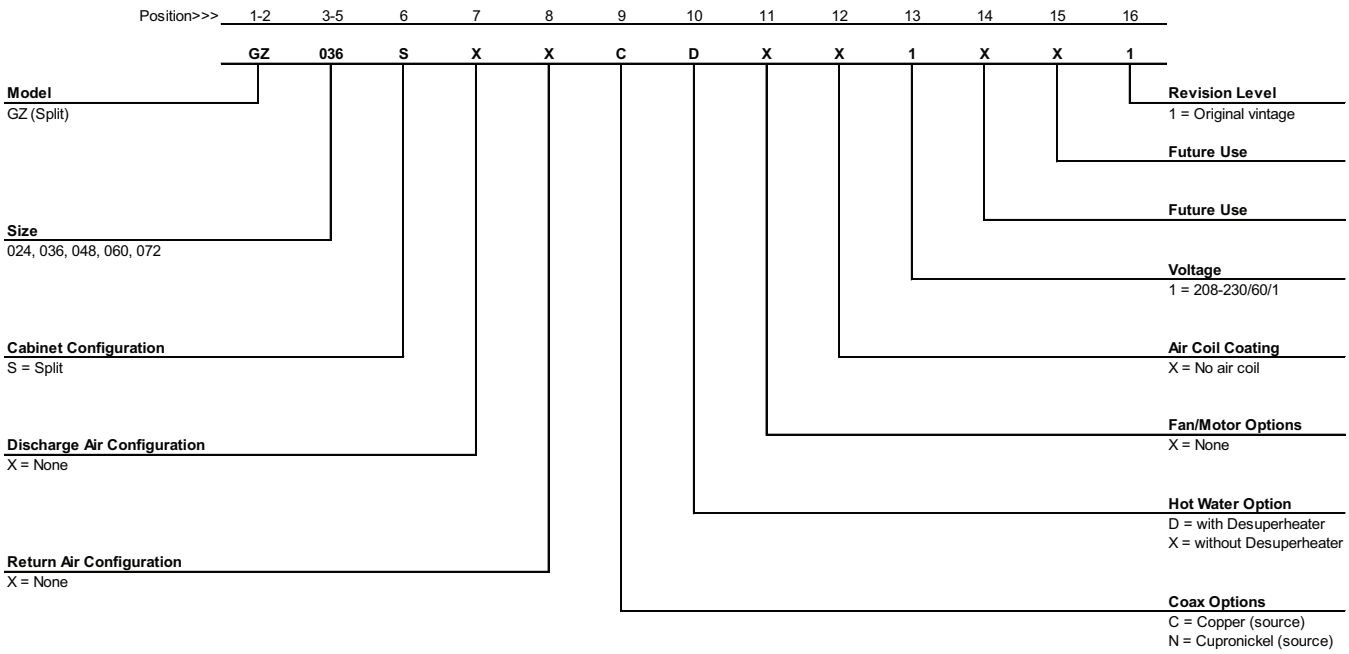
Sound
- Fully insulated cabinet with closed cell foam
- Compressor blanket

Reliability, Quality and Durability
- Puron® refrigerant

Flexibility and Installation
- Unit compatible with FE/FV fan coils
- Compatible with Bryant evaporator coils
- Compatible with Evolution Control (software version 13 or higher) and with many non-communicating 3 stage heat, 2 stage cooling programmable thermostats
- Energy tracking capability with the Evolution® Control - Energy Tracking has the ability to monitor and estimate energy consumption of the unit.
- Suitable for mounting outdoors when used with outdoor flow center kit.

Energy Star
- All sizes meet Energy Star requirements when paired with AHRI listed tested combination

MODEL NUMBER NOMENCLATURE



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AHRI CERTIFIED www.ahridirectory.org

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

Certified System TM

ISO 9001 QMI-SAI Global

ENERGY STAR

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. **Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.**

FURNACE MATCH-UP

When using the GZ unit with a furnace, it is important to match the CFM output of the furnace to the requirements of the GHP. For the GZ072, the selected furnace must achieve at least 2200 CFM.

NOTE: The Evolution Control may not prevent the system from accepting a furnace with less airflow than required for the GZ072. This is the responsibility of the installer. Airflow settings below rated airflow will negatively impact performance. To avoid lockouts caused by inadequate airflow, it may be required to adjust airflow greater than COM setting for some sizes .

PHYSICAL DATA - GZ***S

Description	Unit Size				
	024	036	048	060	072
Compressor Type (Qty 1)	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigeration Charge (oz)*	80	86	88	115	127
Max Water Working Pressure (PSIG/kPa)	450/3100	450/3100	450/3100	450/3100	450/3100
Water Connection Size					
FPT (Swivel Type)	1.0”	1.0”	1.0”	1.0”	1.0”
Coaxial Coil Volume (gal)	0.33	0.62	0.62	1.07	1.07
Cabinet					
Weight – Shipping (lbs)	189	189	189	261	261
Weight – Operating (lbs)	172	172	172	237	237

ELECTRICAL DATA

GZ Models	Rated Voltage	Voltage Min/Max	Compressor			Total Unit	
			QTY	RLA	LRA	Min Circuit Amps	Max Fuse/ HACR
GZ024	208–230/60/1	197/253	1	11.7	58.3	14.6	25
GZ036	208–230/60/1	197/253	1	15.3	83.0	19.1	30
GZ048	208–230/60/1	197/253	1	21.2	104.0	26.5	45
GZ060	208–230/60/1	197/253	1	27.1	152.9	33.9	60
GZ072	208–230/60/1	197/253	1	29.7	179.2	37.1	60

FAN COIL / EVAP COIL MATCH-UP

Geothermal Split	Air Handler	Cased Coil
GZ024	F(E/V)4***003	CAP**24**AL*
GZ036	F(E/V)4***003, F(E/V)4***005	CAP**36**AL*
GZ048	F(E/V)4***005	CAP**48**AL*
GZ060	F(E/V)4***006	CAP**60**AL*
GZ072	F(E/V)4***006	CAP**60**AL*

ACCESSORIES

Factory Installed Options

- Cupro-nickel Coil - Recommended in conditions anticipating moderate scale formation or in brackish water (such as open-loop applications).
- Domestic Hot Water Heat Recovery Package: - Used to heat domestic hot water using the wasted heat from the hot compressed gas of the compressor.

Field Installed Accessories

- Thermostats - Compatible with Evolution® Control (with version 13.0 software or newer) is recommended to enable the most available features. many non-communicating 3 stage heat, 2 stage cool heat pump thermostats.
- Internal Electric Heat (mounted in fan coil) - Choices include 5, 10, 15, or 20 kilowatt back up or an emergency heater depending on the size of the geothermal heat pump.
- Unit mounting pad (see accessory catalog)
- Flow centers, hose kits, etc. (see accessory catalog)
- Outdoor Flow Center Kit
  - — FCP11BDOS (single pump)
  - — FCP21BDOS (2 pumps)
- Energy Tracking can be enabled with the field installed Entering Water Temperature Thermistor (included with literature packet)

BLOWER PERFORMANCE DATA - VARIABLE SPEED CONSTANT CFM

Models	Min Airflow (CFM)	Airflow Settings	CFM From Communicating Wall Control	
			Heating	Cooling
024 – Low	450	Max	714	714
		EFF 1	580	580
		EFF 2	625	625
		COM	532	531
		QUIET	N/A	455
024 – High	612	Max	971	971
		EFF 1	789	789
		EFF 2	850	850
		COM	724	723
		QUIET	N/A	619
036 – Low	738	Max	1171	1171
		EFF 1	952	952
		EFF 2	1025	1025
		COM	872	871
		QUIET	N/A	747
036 – High	900	Max	1429	1429
		EFF 1	1161	1161
		EFF 2	1250	1250
		COM	1064	1063
		QUIET	N/A	911
048 – Low	936	Max	1486	1486
		EFF 1	1207	1207
		EFF 2	1300	1300
		COM	1107	1105
		QUIET	N/A	947
048 – High	1080	Max	1714	1714
		EFF 1	1393	1393
		EFF 2	1500	1500
		COM	1277	1275
		QUIET	N/A	1093
060 – Low	1044	Max	1657	1657
		EFF 1	1346	1346
		EFF 2	1450	1450
		COM	1234	1233
		QUIET	N/A	1056
060 – High	1224	Max	1943	1943
		EFF 1	1579	1579
		EFF 2	1700	1700
		COM	1447	1445
		QUIET	N/A	1239
072 – Low	1152	Max	1829	1829
		EFF 1	1486	1486
		EFF 2	1600	1600
		COM	1362	1360
		QUIET	N/A	1166
072 – High	1368	Max	2171	2171
		EFF 1	1764	1764
		EFF 2	1900	1900
		COM	1617	1615
		QUIET	N/A	1384

NOTES: – CFM based on standard air conditions at 0.5” w.c. external static pressure with 2” MERV 13 filter.

AHRI RATINGS (13256-1)

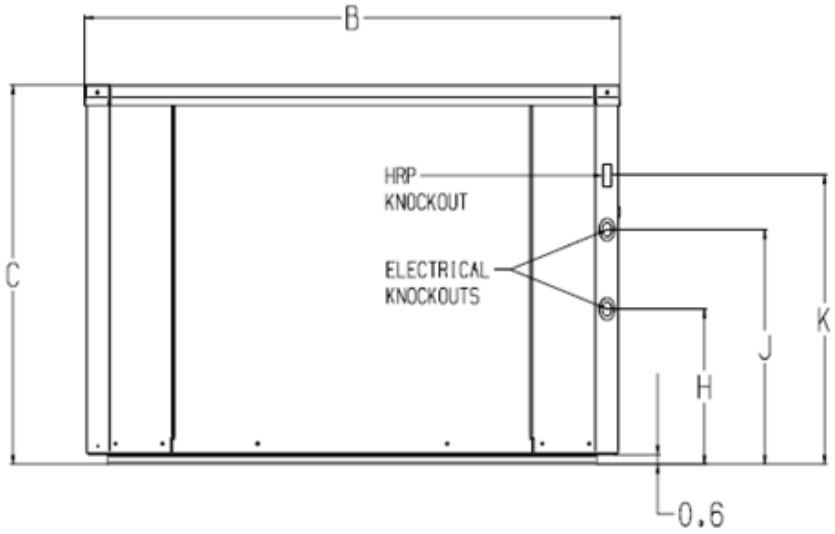
FAN COILS FULL LOAD				Water Loop				Ground Water				Ground Loop			
Compressor Section	Coaxial HX Material	FAN COIL	GPM	Cooling Capacity (Btu/hr)	EER	Heating Capacity (Btu/hr)	COP	Cooling Capacity (Btu/hr)	EER	Heating Capacity (Btu/hr)	COP	Cooling Capacity (Btu/hr)	EER	Heating Capacity (Btu/hr)	COP
GZ024******1**1	Copper/CuNi	FE/V***F003***	6	25000	14.60	28000	5.10	28200	22.00	23500	4.45	26000	16.80	18900	3.75
GZ036***N***1**2	CuNi	FE/V****003	9	35000	13.40	45700	4.70	40300	19.75	36700	4.20	36800	15.40	26900	3.40
GZ036***C***1**2	Copper	FE/V****005	9	37700	15.21	45000	5.00	41400	22.75	36700	4.40	39200	17.60	27400	3.40
GZ036***N***1**2	CuNi	FE/V****005	9	37700	14.05	45000	4.90	41400	20.30	36700	4.20	39200	16.25	27400	3.60
GZ048******1**1	Copper/CuNi	FE/V***F005***	12	46200	13.90	57200	4.70	52300	20.45	47400	4.20	48600	15.50	37900	3.60
GZ060******1**1	Copper/CuNi	FE/V***F006***	15	58500	14.80	70300	4.40	64300	20.70	57500	4.00	60800	16.80	45000	3.40
GZ072******1**1	CuNi	FE/V***F006***	15	65800	13.60	79500	4.30	72100	19.20	65800	3.80	68500	15.50	52800	3.30
FAN COILS PART LOAD				**Water Loop**				**Ground Water**				**Ground Loop**			
Compressor Section	**Coaxial HX Material**	**FAN COIL**	**GPM**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**
GZ024******1**1	Copper/CuNi	FE/V***F003***	6	18300	15.80	20900	5.50	20900	26.40	17400	4.55	20000	22.80	15700	4.05
GZ036***N***1**2	CuNi	FE/V****003	9	25300	15.20	33100	5.40	29700	24.45	26100	4.40	27900	21.40	21900	3.80
GZ036***C***1**2	Copper	FE/V****005	9	27000	17.00	32200	6.00	30300	25.65	26000	4.80	29400	24.20	22800	4.20
GZ036***N***1**2	CuNi	FE/V****005	9	27000	15.90	32200	5.55	30300	25.90	26000	4.20	29400	22.55	22800	4.00
GZ048******1**1	Copper/CuNi	FE/V***F005***	12	34700	15.30	42600	5.40	39800	25.75	35400	4.60	38500	21.50	31600	4.10
GZ060******1**1	Copper/CuNi	FE/V***F006***	15	44000	16.60	51200	5.10	49100	26.20	42600	4.30	47600	22.80	38000	3.90
GZ072******1**1	CuNi	FE/V***F006***	15	51700	15.20	61400	4.60	57800	24.00	50500	4.10	55800	20.60	44800	3.70
CASED COILS FULL LOAD				**Water Loop**				**Ground Water**				**Ground Loop**			
Compressor Section	**Coaxial HX Material**	**CASED COIL**	**GPM**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**
GZ024*******1**1	CuNi	CAP**24**AL*	6	24900	13.95	28900	4.80	28000	22.50	23900	4.30	26100	15.90	19000	3.45
GZ036*******1**2	CuNi	CAP**36**AL*	9	35600	14.40	44600	4.80	40400	20.70	36500	4.35	37400	16.90	27700	3.65
GZ048*******1**1	CuNi	CAP**48**AL*	12	46900	13.40	56500	4.70	52000	20.30	46600	4.20	49000	15.50	36100	3.55
GZ060*******1**1	CuNi	CAP**60**AL*	15	60000	13.90	71800	4.60	66400	19.30	58800	3.95	63900	16.05	46000	3.60
GZ072*******1**1	CuNi	CAP**60**AL*	15	66380	13.60	81000	4.50	74500	20.20	68100	4.15	70000	15.90	55200	3.60
CASED COILS PART LOAD				**Water Loop**				**Ground Water**				**Ground Loop**			
Compressor Section	**Coaxial HX Material**	**CASED COIL**	**GPM**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**	**Cooling Capacity (Btu/hr)**	**EER**	**Heating Capacity (Btu/hr)**	**COP**
GZ024*******1**1	CuNi	CAP**24**AL*	6	18600	15.05	21500	5.40	21100	27.10	17500	4.50	20400	22.50	15300	3.95
GZ036*******1**2	CuNi	CAP**36**AL*	9	26200	15.80	32600	5.40	29900	26.50	26300	4.45	29100	23.30	23100	3.95
GZ048*******1**1	CuNi	CAP**48**AL*	12	34900	14.70	41700	4.90	39200	24.50	34000	4.20	37800	21.00	30000	3.65
GZ060*******1**1	CuNi	CAP**60**AL*	15	43800	15.40	52600	5.20	51000	25.90	42900	4.45	48000	22.15	37800	4.00
GZ072*******1**1	CuNi	CAP**60**AL*	15	51800	14.80	62800	4.90	58800	24.40	52100	4.25	56900	20.90	46700	3.80

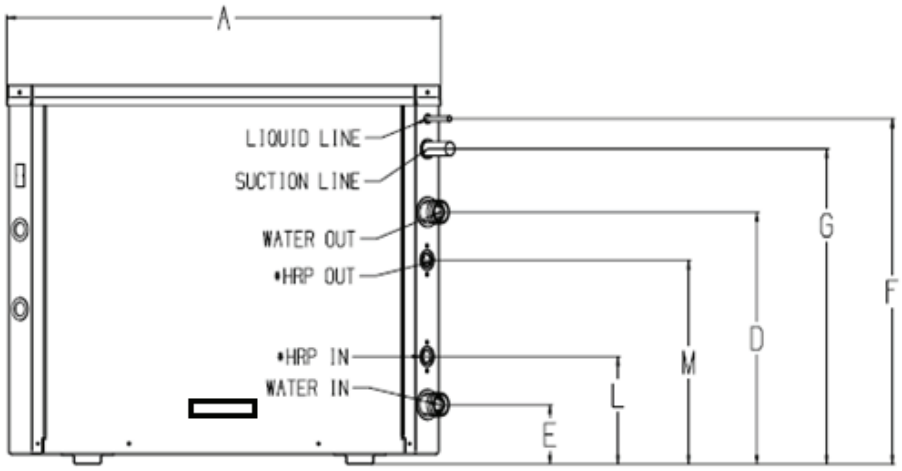
All above models meet Energy Star Most Efficient 2019 When paired with communicating UI.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up–to–date ratings information.

DIMENSIONS

Model	A	B	C	D	E	F	G	H	J	K	L	M	Water Connections (Swivel Type)
	Width	Depth	Height	Water Out	Water In	Liquid Connection	Suction Connection	Electrical Knockout		HRP Knockout	*HRP In	*HRP Out	
GZ024	24	27.4	21.5	12.7	3.7	3/8" @ 19.4	3/4" @ 17.6	8.6	13.5	16.8	6.2	10.1	1" F.P.T
GZ036	24	27.4	21.5	15.5	3.5	3/8" @ 19.4	3/4" @ 17.6	8.6	13.5	16.8	6.6	13	1" F.P.T
GZ048	24	27.4	21.5	15.5	3.5	3/8" @ 19.4	3/4" @ 17.6	8.6	13.5	16.8	6.6	13	1" F.P.T
GZ060	27	33.4	23.3	15.5	3.7	3/8" @ 21.2	1" @ 19.4	9.5	14.4	17.7	6.6	12.5	1" F.P.T
GZ072	27	33.4	23.3	15.5	3.7	3/8" @ 21.2	1" @ 19.4	9.5	14.4	17.7	6.6	12.5	1" F.P.T





NOTES:
- ALL DIMENSIONS WITHIN +/- 0.125"
- ALL DIMENSIONS ARE IN INCHES
- SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
- SWIVEL TYPE WATER FITTING PROTRUDES 1.5" FROM POST

* OPTIONAL HRP FEATURE WITH 1/2" FPT WATER CONNECTIONS

GZ024 WITH FE/V003 FAN COIL HEATING PERFORMANCE - PART LOAD

GZ024 Heating Performance – Part Load @ 650 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	3	1.9	0.8	60	12.8	9.9	1.1	3.5
				70	12.6	9.2	1.2	3.1
				80	12.2	8.4	1.3	2.7
	4	3.3	1.4	60	13.5	10.5	1.1	3.7
				70	12.9	9.5	1.2	3.2
				80	12.7	8.8	1.3	2.8
	6	6.8	2.9	60	14.1	11.1	1.1	3.9
				70	13.5	10.1	1.2	3.3
				80	13.4	9.5	1.3	2.9
40	3	1.9	0.8	60	14.8	11.8	1.1	4.0
				70	14.5	11.1	1.2	3.5
				80	14.0	10.1	1.4	3.0
	4	3.2	1.4	60	15.4	12.4	1.1	4.2
				70	15.0	11.5	1.2	3.6
				80	14.8	10.8	1.4	3.2
	6	6.5	2.8	60	16.2	13.2	1.1	4.4
				70	15.9	12.4	1.2	3.8
				80	15.3	11.4	1.4	3.3
50	3	1.7	0.7	60	17.4	14.3	1.1	4.6
				70	17.0	13.5	1.2	4.0
				80	16.7	12.7	1.4	3.6
	4	2.9	1.2	60	18.3	15.2	1.1	4.9
				70	17.7	14.2	1.2	4.2
				80	17.2	13.2	1.4	3.7
	6	5.9	2.6	60	19.1	16.0	1.1	5.1
				70	18.6	15.1	1.2	4.4
				80	18.0	13.9	1.4	3.8
60	3	1.6	0.7	60	19.7	16.6	1.1	5.2
				70	19.3	15.8	1.2	4.6
				80	18.8	14.7	1.4	4.0
	4	2.8	1.2	60	20.8	17.6	1.1	5.5
				70	20.3	16.7	1.2	4.8
				80	19.6	15.5	1.4	4.1
	6	5.7	2.5	60	21.8	18.7	1.1	5.7
				70	21.2	17.6	1.3	5.0
				80	20.7	16.6	1.4	4.3
70	3	1.6	0.7	60	22.2	19.1	1.1	5.8
				70	21.6	18.0	1.3	5.1
				80	21.1	17.0	1.4	4.4
	4	2.7	1.2	60	23.2	20.1	1.1	6.1
				70	22.7	19.1	1.3	5.3
				80	22.0	17.9	1.4	4.6
	6	5.5	2.4	60	24.4	21.2	1.1	6.4
				70	23.8	20.2	1.3	5.5
				80	23.2	19.1	1.4	4.8
80	3	1.5	0.7	60	24.6	21.4	1.1	6.4
				70	23.9	20.3	1.3	5.6
				80	23.4	19.2	1.4	4.8
	4	2.6	1.1	60	25.8	22.6	1.1	6.7
				70	25.1	21.5	1.3	5.8
				80	24.4	20.3	1.4	5.0
	6	5.4	2.3	60	27.3	24.1	1.1	7.1
				70	26.5	22.8	1.3	6.1
				80	25.7	21.5	1.4	5.3

GZ024 WITH FE/V003 FAN COIL HEATING PERFORMANCE - FULL LOAD

GZ024 Heating Performance – Full Load @ 850 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	3	1.9	0.8	60	17.8	13.8	1.4	3.7
				70	17.3	12.7	1.5	3.3
				80	17.2	12.1	1.7	3.0
	4	3.3	1.4	60	18.5	14.4	1.4	3.9
				70	18.0	13.4	1.6	3.4
				80	17.8	12.7	1.7	3.1
	6	6.8	2.9	60	19.5	15.4	1.4	4.0
				70	18.9	14.2	1.6	3.5
				80	18.4	13.3	1.7	3.1
40	3	1.9	0.8	60	19.9	15.7	1.4	4.1
				70	19.6	14.9	1.6	3.6
				80	19.1	13.9	1.7	3.2
	4	3.2	1.4	60	20.9	16.6	1.5	4.2
				70	20.5	15.7	1.6	3.8
				80	20.0	14.7	1.8	3.3
	6	6.5	2.8	60	22.2	17.8	1.5	4.4
				70	21.7	16.9	1.6	3.9
				80	21.0	15.7	1.8	3.5
50	3	1.7	0.7	60	23.2	18.8	1.5	4.5
				70	22.7	17.8	1.6	4.1
				80	22.5	17.0	1.8	3.7
	4	2.9	1.2	60	24.4	19.9	1.5	4.7
				70	23.8	18.8	1.7	4.2
				80	23.5	18.0	1.8	3.8
	6	5.9	2.6	60	25.8	21.3	1.5	4.9
				70	25.2	20.1	1.7	4.4
				80	24.7	19.1	1.8	3.9
60	3	1.6	0.7	60	26.1	21.5	1.6	4.9
				70	25.6	20.5	1.7	4.4
				80	25.2	19.6	1.9	4.0
	4	2.8	1.2	60	27.5	22.8	1.6	5.1
				70	26.8	21.6	1.7	4.6
				80	26.3	20.6	1.9	4.1
	6	5.7	2.5	60	29.2	24.4	1.6	5.3
				70	28.5	23.2	1.8	4.8
				80	27.7	21.9	1.9	4.3
70	3	1.6	0.7	60	29.1	24.3	1.6	5.3
				70	28.5	23.2	1.8	4.8
				80	27.9	22.1	1.9	4.3
	4	2.7	1.2	60	30.9	25.9	1.6	5.5
				70	30.1	24.7	1.8	4.9
				80	29.4	23.4	1.9	4.4
	6	5.5	2.4	60	32.8	27.8	1.7	5.8
				70	32.0	26.5	1.8	5.2
				80	31.2	25.2	2.0	4.6
80	3	1.5	0.7	60	32.2	27.2	1.7	5.7
				70	31.6	26.1	1.8	5.1
				80	31.1	25.0	2.0	4.6
	4	2.6	1.1	60	34.2	29.1	1.7	5.9
				70	33.4	27.9	1.8	5.3
				80	32.6	26.5	2.0	4.8
	6	5.4	2.3	60	36.5	31.3	1.7	6.2
				70	35.6	29.9	1.9	5.6
				80	34.8	28.5	2.0	5.0

GZ024 WITH FE/V003 FAN COIL COOLING PERFORMANCE - PART LOAD

GZ024 Cooling Performance – Part Load @ 650 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	3	1.7	0.7	75/63	20.6	16.3	23.0	0.9	24.1
				80/67	21.9	16.9	24.4	0.8	26.0
				85/71	23.4	17.4	25.8	0.8	28.1
	4	2.9	1.2	75/63	20.9	16.4	23.3	0.8	25.6
				80/67	22.4	17.1	24.7	0.8	27.7
				85/71	23.9	17.6	26.2	0.8	30.0
	6	5.9	2.6	75/63	21.3	16.6	23.6	0.8	27.1
				80/67	22.8	17.3	25.1	0.8	29.4
				85/71	24.4	17.8	26.6	0.8	32.1
60	3	1.6	0.7	75/63	19.6	15.9	22.2	1.0	20.6
				80/67	20.9	16.4	23.6	0.9	22.2
				85/71	22.3	17.0	25.0	0.9	24.0
	4	2.8	1.2	75/63	19.9	16.1	22.5	0.9	21.9
				80/67	21.4	16.6	23.9	0.9	23.7
				85/71	22.8	17.3	25.3	0.9	25.6
	6	5.7	2.5	75/63	20.3	16.2	22.8	0.9	23.2
				80/67	21.8	16.8	24.2	0.9	25.2
				85/71	23.2	17.4	25.7	0.8	27.4
70	3	1.6	0.7	75/63	18.6	15.5	21.5	1.1	17.5
				80/67	19.9	16.1	22.8	1.1	18.8
				85/71	21.2	16.7	24.1	1.0	20.2
	4	2.7	1.2	75/63	18.9	15.6	21.7	1.0	18.5
				80/67	20.2	16.3	23.1	1.0	20.0
				85/71	21.6	16.9	24.4	1.0	21.6
	6	5.5	2.4	75/63	19.2	15.8	22.0	1.0	19.5
				80/67	20.6	16.4	23.4	1.0	21.2
				85/71	22.1	16.9	24.8	1.0	23.1
80	3	1.5	0.7	75/63	17.6	15.0	20.9	1.2	14.7
				80/67	18.8	15.7	22.1	1.2	15.8
				85/71	20.1	16.2	23.4	1.2	17.0
	4	2.6	1.1	75/63	17.9	15.2	21.1	1.2	15.5
				80/67	19.2	15.8	22.3	1.1	16.8
				85/71	20.5	16.4	23.6	1.1	18.1
	6	5.4	2.3	75/63	18.2	15.3	21.2	1.1	16.4
				80/67	19.5	15.9	22.6	1.1	17.8
				85/71	20.9	16.6	23.9	1.1	19.2
85	3	1.5	0.7	75/63	17.1	14.8	20.5	1.3	13.5
				80/67	18.3	15.5	21.7	1.3	14.5
				85/71	19.5	16.1	23.0	1.3	15.5
	4	2.5	1.1	75/63	17.4	14.9	20.7	1.2	14.2
				80/67	18.6	15.6	22.0	1.2	15.3
				85/71	19.9	16.2	23.2	1.2	16.5
	6	5.3	2.3	75/63	17.7	15.1	20.9	1.2	15.0
				80/67	19.0	15.7	22.2	1.2	16.2
				85/71	20.3	16.3	23.5	1.2	17.5
90	3	1.5	0.6	75/63	16.6	14.6	20.2	1.3	12.3
				80/67	17.7	15.3	21.4	1.3	13.2
				85/71	19.0	15.8	22.6	1.3	14.2
	4	2.5	1.1	75/63	16.9	14.7	20.4	1.3	13.0
				80/67	18.1	15.4	21.6	1.3	14.0
				85/71	19.3	15.9	22.9	1.3	15.1
	6	5.2	2.3	75/63	17.2	14.8	20.6	1.3	13.6
				80/67	18.4	15.5	21.8	1.2	14.8
				85/71	19.7	16.1	23.1	1.2	16.0
100	3	1.4	0.6	75/63	15.5	14.2	19.6	1.5	10.3
				80/67	16.7	14.8	20.8	1.5	11.0
				85/71	17.8	15.4	21.9	1.5	11.8
	4	2.4	1.1	75/63	15.8	14.3	19.8	1.5	10.8
				80/67	17.0	14.9	20.9	1.5	11.6
				85/71	18.1	15.5	22.1	1.5	12.5
	6	5.0	2.2	75/63	16.1	14.5	19.9	1.4	11.3
				80/67	17.3	15.0	21.1	1.4	12.2
				85/71	18.5	15.6	22.3	1.4	13.2
110	3	1.4	0.6	75/63	14.4	13.8	19.0	1.7	8.5
				80/67	15.5	14.4	20.1	1.7	9.1
				85/71	16.6	15.1	21.2	1.7	9.7
	4	2.4	1.0	75/63	14.7	13.8	19.1	1.7	8.9
				80/67	15.8	14.5	20.2	1.7	9.5
				85/71	16.9	15.2	21.4	1.7	10.2
	6	4.9	2.1	75/63	15.0	13.9	19.3	1.6	9.3
				80/67	16.1	14.6	20.4	1.6	10.0
				85/71	17.3	15.2	21.6	1.6	10.8

GZ024 WITH FE/V003 FAN COIL COOLING PERFORMANCE - FULL LOAD

GZ024 Cooling Performance – Full Load @ 850 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	3	1.7	0.7	75/63	27.1	21.4	31.1	1.3	20.7
				80/67	28.9	22.2	33.0	1.3	21.6
				85/71	30.7	22.9	34.9	1.4	22.6
	4	2.9	1.2	75/63	27.7	21.7	31.5	1.3	22.1
				80/67	29.6	22.4	33.4	1.3	23.2
				85/71	31.5	23.2	35.4	1.3	24.3
	6	5.9	2.6	75/63	28.3	21.9	31.9	1.2	23.8
				80/67	30.2	22.7	33.9	1.2	25.0
				85/71	32.2	23.4	36.0	1.2	26.3
60	3	1.6	0.7	75/63	26.0	20.9	30.3	1.4	18.2
				80/67	27.7	21.7	32.1	1.5	19.1
				85/71	29.5	22.4	34.0	1.5	20.0
	4	2.8	1.2	75/63	26.5	21.2	30.7	1.4	19.3
				80/67	28.3	22.0	32.5	1.4	20.3
				85/71	30.2	22.7	34.5	1.4	21.4
	6	5.7	2.5	75/63	27.1	21.4	31.1	1.3	20.6
				80/67	29.0	22.2	33.0	1.3	21.8
				85/71	30.9	22.9	35.0	1.3	23.0
70	3	1.6	0.7	75/63	24.9	20.4	29.5	1.6	16.0
				80/67	26.5	21.2	31.2	1.6	16.8
				85/71	28.2	21.9	33.0	1.6	17.6
	4	2.7	1.2	75/63	25.4	20.7	29.8	1.5	16.9
				80/67	27.1	21.5	31.6	1.5	17.9
				85/71	28.9	22.1	33.5	1.5	18.8
	6	5.5	2.4	75/63	25.9	20.9	30.2	1.4	17.9
				80/67	27.7	21.7	32.0	1.5	19.0
				85/71	29.6	22.4	34.0	1.5	20.1
80	3	1.5	0.7	75/63	23.7	20.0	28.7	1.7	14.0
				80/67	25.3	20.7	30.4	1.7	14.7
				85/71	26.9	21.5	32.1	1.7	15.5
	4	2.6	1.1	75/63	24.2	20.2	29.0	1.6	14.8
				80/67	25.8	20.9	30.8	1.7	15.6
				85/71	27.5	21.7	32.5	1.7	16.5
	6	5.4	2.3	75/63	24.7	20.4	29.3	1.6	15.6
				80/67	26.4	21.1	31.1	1.6	16.5
				85/71	28.1	22.0	33.0	1.6	17.5
85	3	1.5	0.7	75/63	23.1	19.7	28.3	1.8	13.1
				80/67	24.7	20.4	30.0	1.8	13.8
				85/71	26.3	21.3	31.7	1.8	14.5
	4	2.5	1.1	75/63	23.6	19.9	28.6	1.7	13.8
				80/67	25.2	20.6	30.3	1.7	14.6
				85/71	26.9	21.5	32.1	1.7	15.4
	6	5.3	2.3	75/63	24.0	20.1	28.9	1.7	14.5
				80/67	25.7	20.8	30.7	1.7	15.4
				85/71	27.4	21.7	32.5	1.7	16.3
90	3	1.5	0.6	75/63	22.5	19.4	28.0	1.9	12.2
				80/67	24.1	20.2	29.6	1.9	12.8
				85/71	25.6	21.1	31.2	1.9	13.5
	4	2.5	1.1	75/63	23.0	19.6	28.2	1.8	12.9
				80/67	24.6	20.4	29.9	1.8	13.6
				85/71	26.2	21.3	31.6	1.8	14.3
	6	5.2	2.3	75/63	23.4	19.8	28.5	1.7	13.5
				80/67	25.1	20.6	30.2	1.7	14.4
				85/71	26.7	21.5	32.0	1.8	15.2
100	3	1.4	0.6	75/63	21.3	18.9	27.3	2.0	10.5
				80/67	22.8	19.7	28.9	2.1	11.1
				85/71	24.4	20.6	30.5	2.1	11.7
	4	2.4	1.1	75/63	21.8	19.1	27.5	2.0	11.1
				80/67	23.3	20.0	29.1	2.0	11.7
				85/71	24.9	20.7	30.8	2.0	12.4
	6	5.0	2.2	75/63	22.1	19.2	27.7	1.9	11.6
				80/67	23.7	20.2	29.4	1.9	12.3
				85/71	25.4	20.8	31.1	1.9	13.1
110	3	1.4	0.6	75/63	20.1	17.9	26.7	2.3	8.9
				80/67	21.6	19.2	28.2	2.3	9.5
				85/71	23.0	20.2	29.8	2.3	10.0
	4	2.4	1.0	75/63	20.5	18.1	26.8	2.2	9.4
				80/67	22.0	19.5	28.4	2.2	10.0
				85/71	23.5	20.2	30.1	2.2	10.7
	6	4.9	2.1	75/63	20.8	18.2	27.0	2.1	9.8
				80/67	22.4	19.6	28.6	2.1	10.5
				85/71	24.0	20.3	30.3	2.1	11.2

GZ036 WITH FE/V003 FAN COIL HEATING PERFORMANCE - PART LOAD

GZ036 Heating Performance – Part Load @ 1025 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	4.5	1.8	0.8	60	19.7	15.2	1.6	3.6
				70	19.2	14.1	1.8	3.1
				80	18.9	13.0	2.0	2.7
	6.0	3.0	1.3	60	20.3	15.7	1.6	3.7
				70	19.7	14.6	1.8	3.2
				80	19.3	13.5	2.0	2.8
	9.0	6.2	2.7	60	20.9	16.4	1.6	3.8
				70	20.3	15.2	1.8	3.3
				80	19.9	14.0	2.0	2.9
40	4.5	1.7	0.7	60	22.9	18.4	1.6	4.1
				70	22.2	17.0	1.8	3.6
				80	21.8	15.9	2.0	3.2
	6.0	2.9	1.3	60	23.5	19.0	1.6	4.2
				70	22.8	17.7	1.8	3.7
				80	22.4	16.5	2.0	3.2
	9.0	6.0	2.6	60	24.3	19.8	1.6	4.3
				70	23.7	18.5	1.8	3.8
				80	23.0	17.1	2.0	3.3
50	4.5	1.6	0.7	60	26.5	21.9	1.7	4.7
				70	25.9	20.6	1.8	4.1
				80	25.0	19.1	2.0	3.6
	6.0	2.6	1.1	60	27.4	22.8	1.7	4.8
				70	26.7	21.4	1.8	4.2
				80	26.0	20.0	2.0	3.7
	9.0	5.5	2.4	60	28.4	23.7	1.7	5.0
				70	27.5	22.2	1.8	4.4
				80	26.7	20.7	2.1	3.8
60	4.5	1.5	0.7	60	30.1	25.5	1.7	5.3
				70	29.3	24.0	1.9	4.6
				80	28.6	22.6	2.1	4.1
	6.0	2.5	1.1	60	31.3	26.6	1.7	5.5
				70	30.3	24.9	1.9	4.8
				80	29.5	23.4	2.1	4.2
	9.0	5.3	2.3	60	32.3	27.6	1.7	5.7
				70	31.4	26.0	1.9	4.9
				80	30.4	24.3	2.1	4.3
70	4.5	1.5	0.6	60	33.8	29.1	1.7	5.9
				70	32.9	27.6	1.9	5.2
				80	32.0	25.9	2.1	4.5
	6.0	2.5	1.1	60	35.1	30.4	1.7	6.1
				70	34.1	28.8	1.9	5.4
				80	33.1	26.9	2.1	4.6
	9.0	5.1	2.2	60	36.4	31.8	1.7	6.4
				70	35.3	30.0	1.9	5.5
				80	34.4	28.2	2.1	4.8
80	4.5	1.4	0.6	60	37.7	33.0	1.7	6.6
				70	36.6	31.3	1.9	5.7
				80	35.8	29.7	2.1	5.0
	6.0	2.4	1.0	60	39.1	34.4	1.7	6.8
				70	38.0	32.6	1.9	5.9
				80	37.0	30.9	2.1	5.2
	9.0	4.9	2.1	60	40.7	36.0	1.7	7.1
				70	39.4	34.0	1.9	6.1
				80	38.3	32.1	2.1	5.3

GZ036 WITH FE/V003 FAN COIL HEATING PERFORMANCE - FULL LOAD

GZ036 Heating Performance – Full Load @ 1250 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	4.5	1.8	0.8	60	27.7	21.0	2.3	3.6
				70	27.4	19.8	2.5	3.2
				80	26.9	18.5	2.8	2.9
	6.0	3.0	1.3	60	28.7	21.9	2.3	3.7
				70	28.3	20.7	2.5	3.3
				80	27.7	19.2	2.8	2.9
	9.0	6.2	2.7	60	29.8	22.9	2.3	3.8
				70	29.3	21.6	2.5	3.4
				80	28.8	20.3	2.8	3.0
40	4.5	1.7	0.7	60	31.5	24.5	2.4	3.9
				70	31.0	23.2	2.6	3.5
				80	30.4	21.8	2.8	3.1
	6.0	2.9	1.3	60	32.7	25.6	2.4	4.0
				70	32.2	24.3	2.6	3.6
				80	31.7	22.9	2.9	3.2
	9.0	6.0	2.6	60	34.1	26.9	2.4	4.1
				70	33.4	25.4	2.6	3.7
				80	32.8	23.9	2.9	3.3
50	4.5	1.6	0.7	60	36.2	28.9	2.5	4.3
				70	35.5	27.4	2.7	3.9
				80	34.9	25.8	3.0	3.5
	6.0	2.6	1.1	60	37.7	30.3	2.5	4.5
				70	36.9	28.7	2.7	4.0
				80	36.1	27.0	3.0	3.6
	9.0	5.5	2.4	60	39.4	31.9	2.5	4.6
				70	38.4	30.1	2.7	4.1
				80	37.7	28.5	3.0	3.7
60	4.5	1.5	0.7	60	40.7	33.1	2.5	4.7
				70	39.9	31.5	2.8	4.2
				80	39.1	29.9	3.0	3.8
	6.0	2.5	1.1	60	42.5	34.7	2.6	4.8
				70	41.6	33.1	2.8	4.4
				80	40.8	31.4	3.0	3.9
	9.0	5.3	2.3	60	44.5	36.7	2.6	5.0
				70	43.3	34.7	2.8	4.5
				80	42.4	32.9	3.1	4.0
70	4.5	1.5	0.6	60	45.4	37.5	2.6	5.1
				70	44.5	35.8	2.9	4.6
				80	43.6	34.1	3.1	4.1
	6.0	2.5	1.1	60	47.5	39.4	2.7	5.2
				70	46.4	37.6	2.9	4.7
				80	45.4	35.7	3.1	4.2
	9.0	5.1	2.2	60	49.9	41.7	2.7	5.4
				70	48.5	39.5	2.9	4.9
				80	47.5	37.6	3.2	4.4
80	4.5	1.4	0.6	60	50.3	42.0	2.7	5.4
				70	49.4	40.3	2.9	4.9
				80	48.3	38.4	3.2	4.4
	6.0	2.4	1.0	60	52.7	44.2	2.8	5.6
				70	51.5	42.3	3.0	5.0
				80	50.5	40.4	3.3	4.6
	9.0	4.9	2.1	60	55.3	46.7	2.8	5.7
				70	54.0	44.7	3.0	5.2
				80	52.7	42.5	3.3	4.7

GZ036 WITH FE/V005 FAN COIL HEATING PERFORMANCE - PART LOAD

GZ036 Heating Performance – Part Load @ 1025 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	4.5	1.8	0.8	60	19.7	14.6	1.5	3.8
				70	19.2	13.6	1.7	3.3
				80	18.9	12.5	1.9	2.9
	6.0	3.0	1.3	60	20.3	15.2	1.5	3.9
				70	19.7	14.1	1.7	3.4
				80	19.3	13.0	1.9	3.0
	9.0	6.2	2.7	60	20.9	15.8	1.5	4.0
				70	20.3	14.6	1.7	3.5
				80	19.9	13.5	1.9	3.1
40	4.5	1.7	0.7	60	22.9	17.7	1.5	4.4
				70	22.2	16.5	1.7	3.8
				80	21.8	15.4	1.9	3.4
	6.0	2.9	1.3	60	23.5	18.4	1.5	4.5
				70	22.8	17.2	1.7	3.9
				80	22.4	16.0	1.9	3.4
	9.0	6.0	2.6	60	24.3	19.2	1.5	4.6
				70	23.7	17.9	1.7	4.1
				80	23.0	16.6	1.9	3.5
50	4.5	1.6	0.7	60	26.5	21.4	1.6	5.0
				70	25.9	20.1	1.7	4.4
				80	25.0	18.9	1.9	3.8
	6.0	2.6	1.1	60	27.4	22.3	1.6	5.2
				70	26.7	20.9	1.7	4.5
				80	26.0	19.4	1.9	4.0
	9.0	5.5	2.4	60	28.4	23.2	1.6	5.3
				70	27.5	21.8	1.7	4.7
				80	26.7	20.1	1.9	4.1
60	4.5	1.5	0.7	60	30.1	24.9	1.6	5.6
				70	29.3	23.5	1.7	4.9
				80	28.6	22.0	1.9	4.3
	6.0	2.5	1.1	60	31.3	25.9	1.6	5.8
				70	30.3	24.5	1.7	5.1
				80	29.5	22.8	2.0	4.4
	9.0	5.3	2.3	60	32.3	27.2	1.6	6.0
				70	31.4	25.5	1.8	5.2
				80	30.4	23.7	2.0	4.6
70	4.5	1.5	0.6	60	33.8	28.7	1.6	6.3
				70	32.9	27.1	1.8	5.5
				80	32.0	25.4	2.0	4.8
	6.0	2.5	1.1	60	35.1	29.9	1.6	6.5
				70	34.1	28.3	1.8	5.7
				80	33.1	26.5	2.0	4.9
	9.0	5.1	2.2	60	36.4	31.3	1.6	6.8
				70	35.3	29.6	1.8	5.9
				80	34.4	27.6	2.0	5.1
80	4.5	1.4	0.6	60	37.7	32.5	1.6	7.0
				70	36.6	30.9	1.8	6.1
				80	35.8	29.0	2.0	5.3
	6.0	2.4	1.0	60	39.1	34.0	1.6	7.3
				70	38.0	32.3	1.8	6.3
				80	37.0	30.3	2.0	5.5
	9.0	4.9	2.1	60	40.7	35.6	1.6	7.6
				70	39.4	33.8	1.8	6.5
				80	38.3	31.6	2.0	5.7

GZ036 WITH FE/V005 FAN COIL HEATING PERFORMANCE - FULL LOAD

GZ036 Heating Performance – Full Load @ 1250 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	4.5	1.8	0.8	60	27.7	20.5	2.1	3.8
				70	27.4	19.4	2.4	3.4
				80	26.9	18.3	2.6	3.0
	6	3.0	1.3	60	28.7	21.4	2.2	3.9
				70	28.3	20.2	2.4	3.5
				80	27.7	19.1	2.6	3.1
	9	6.2	2.7	60	29.8	22.5	2.2	4.0
				70	29.3	21.2	2.4	3.6
				80	28.8	19.9	2.6	3.2
40	4.5	1.7	0.7	60	31.5	24.0	2.2	4.2
				70	31.0	22.8	2.4	3.7
				80	30.4	21.6	2.7	3.3
	6	2.9	1.3	60	32.7	25.2	2.2	4.3
				70	32.2	23.9	2.5	3.8
				80	31.7	22.5	2.7	3.4
	9	6.0	2.6	60	34.1	26.5	2.3	4.4
				70	33.4	25.0	2.5	3.9
				80	32.8	23.6	2.7	3.5
50	4.5	1.6	0.7	60	36.2	28.6	2.3	4.6
				70	35.5	27.2	2.5	4.1
				80	34.9	25.7	2.8	3.7
	6	2.6	1.1	60	37.7	29.9	2.3	4.7
				70	36.9	28.6	2.5	4.3
				80	36.1	26.9	2.8	3.8
	9	5.5	2.4	60	39.4	31.3	2.4	4.9
				70	38.4	29.9	2.6	4.4
				80	37.7	28.2	2.8	3.9
60	4.5	1.5	0.7	60	40.7	32.8	2.4	5.0
				70	39.9	31.4	2.6	4.5
				80	39.1	29.9	2.8	4.0
	6	2.5	1.1	60	42.5	34.5	2.4	5.2
				70	41.6	32.8	2.6	4.6
				80	40.8	31.2	2.9	4.2
	9	5.3	2.3	60	44.5	36.1	2.4	5.3
				70	43.3	34.5	2.7	4.8
				80	42.4	32.7	2.9	4.3
70	4.5	1.5	0.6	60	45.4	37.2	2.5	5.4
				70	44.5	35.6	2.7	4.9
				80	43.6	34.0	2.9	4.4
	6	2.5	1.1	60	47.5	39.2	2.5	5.6
				70	46.4	37.4	2.7	5.0
				80	45.4	35.7	3.0	4.5
	9	5.1	2.2	60	49.9	41.1	2.6	5.7
				70	48.5	39.4	2.8	5.2
				80	47.5	37.2	3.0	4.7
80	4.5	1.4	0.6	60	50.3	41.8	2.6	5.8
				70	49.4	39.9	2.8	5.2
				80	48.3	38.2	3.0	4.7
	6	2.4	1.0	60	52.7	44.1	2.6	5.9
				70	51.5	42.1	2.8	5.4
				80	50.5	39.9	3.1	4.8
	9	4.9	2.1	60	55.3	46.6	2.7	6.1
				70	54.0	44.1	2.9	5.5
				80	52.7	42.0	3.1	5.0

GZ036 WITH FE/V003 FAN COIL COOLING PERFORMANCE - PART LOAD

GZ036 Cooling Performance – Part Load @ 1025 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	4.5	1.5	0.7	75/63	28.5	23.2	32.4	1.3	21.4
				80/67	30.6	24.3	34.4	1.3	23.3
				85/71	32.7	25.1	36.5	1.3	25.3
	6.0	2.6	1.1	75/63	28.9	23.4	32.7	1.3	22.2
				80/67	31.0	24.5	34.8	1.3	24.2
				85/71	33.3	25.4	37.0	1.3	26.5
	9.0	5.4	2.3	75/63	29.2	23.6	33.0	1.3	22.8
				80/67	31.4	24.6	35.1	1.3	24.9
				85/71	33.7	26.1	37.4	1.2	27.3
60	4.5	1.5	0.6	75/63	27.2	22.6	31.3	1.4	18.8
				80/67	29.2	23.7	33.3	1.4	20.4
				85/71	31.2	24.6	35.4	1.4	22.1
	6.0	2.5	1.1	75/63	27.6	22.7	31.6	1.4	19.6
				80/67	29.6	23.8	33.6	1.4	21.3
				85/71	31.7	24.8	35.7	1.4	23.2
	9.0	5.2	2.2	75/63	27.9	23.0	31.9	1.4	20.2
				80/67	30.0	24.0	33.9	1.4	22.1
				85/71	32.1	25.0	36.0	1.3	24.1
70	4.5	2.4	1.1	75/63	25.8	21.9	30.4	1.6	16.2
				80/67	27.7	23.0	32.3	1.6	17.5
				85/71	29.8	24.0	34.3	1.6	19.0
	6.0	4.1	1.8	75/63	26.2	22.2	30.6	1.6	16.9
				80/67	28.2	23.2	32.6	1.5	18.4
				85/71	30.2	24.2	34.6	1.5	20.0
	9.0	8.5	3.7	75/63	26.5	22.3	30.9	1.5	17.6
				80/67	28.5	23.4	32.8	1.5	19.1
				85/71	30.6	24.3	34.9	1.5	20.8
80	4.5	2.4	1.0	75/63	24.5	21.3	29.5	1.8	13.7
				80/67	26.3	22.4	31.3	1.8	14.9
				85/71	28.3	23.3	33.3	1.8	16.1
	6.0	4.0	1.7	75/63	24.7	21.4	29.6	1.7	14.2
				80/67	26.6	22.5	31.5	1.7	15.4
				85/71	28.7	23.5	33.5	1.7	16.9
	9.0	8.3	3.6	75/63	25.1	21.6	29.9	1.7	14.9
				80/67	27.1	22.7	31.8	1.7	16.2
				85/71	29.1	23.7	33.8	1.6	17.6
85	4.5	1.4	0.6	75/63	23.8	21.0	29.1	1.9	12.6
				80/67	25.6	22.0	30.9	1.9	13.7
				85/71	27.5	23.1	32.8	1.9	14.7
	6.0	2.3	1.0	75/63	24.0	21.1	29.2	1.8	13.1
				80/67	25.9	22.2	31.1	1.8	14.1
				85/71	27.9	23.2	33.0	1.8	15.4
	9.0	4.8	2.1	75/63	24.4	21.3	29.5	1.8	13.7
				80/67	26.3	22.4	31.3	1.8	14.9
				85/71	28.3	23.4	33.3	1.7	16.2
90	4.5	1.4	0.6	75/63	23.0	20.7	28.6	2.0	11.5
				80/67	24.8	21.8	30.4	2.0	12.5
				85/71	26.7	22.8	32.3	2.0	13.4
	6.0	2.3	1.0	75/63	23.3	20.9	28.8	2.0	11.9
				80/67	25.1	21.9	30.6	1.9	12.9
				85/71	27.1	22.8	32.6	1.9	14.0
	9.0	4.8	2.1	75/63	23.7	21.0	29.0	1.9	12.5
				80/67	25.6	22.0	30.9	1.9	13.6
				85/71	27.5	23.1	32.8	1.9	14.8
100	4.5	1.3	0.6	75/63	21.6	20.1	27.9	2.3	9.6
				80/67	23.3	21.2	29.6	2.2	10.4
				85/71	25.1	22.1	31.5	2.2	11.2
	6.0	2.2	1.0	75/63	21.9	20.1	28.0	2.2	9.9
				80/67	23.6	21.3	29.8	2.2	10.8
				85/71	25.4	22.2	31.6	2.2	11.6
	9.0	4.6	2.0	75/63	22.2	20.4	28.2	2.1	10.4
				80/67	24.0	21.4	30.0	2.1	11.3
				85/71	25.9	22.5	31.8	2.1	12.3
110	4.5	1.3	0.6	75/63	20.1	19.4	27.2	2.5	7.9
				80/67	21.8	20.5	28.9	2.5	8.6
				85/71	23.5	21.6	30.6	2.5	9.2
	6.0	2.2	1.0	75/63	20.4	19.5	27.3	2.5	8.2
				80/67	22.1	20.7	29.0	2.5	8.9
				85/71	23.8	21.6	30.8	2.5	9.6
	9.0	4.6	2.0	75/63	20.7	19.7	27.5	2.4	8.6
				80/67	22.5	20.7	29.2	2.4	9.3
				85/71	24.3	21.8	31.0	2.4	10.1

GZ036 WITH FE/V003 FAN COIL COOLING PERFORMANCE - FULL LOAD

GZ036 Cooling Performance – Full Load @ 1250 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	4.5	1.5	0.7	75/63	38.5	29.5	44.9	2.1	18.5
				80/67	41.1	30.6	47.7	2.1	19.3
				85/71	43.8	31.8	50.6	2.2	20.1
	6.0	2.6	1.1	75/63	39.1	29.8	45.4	2.0	19.3
				80/67	41.9	30.9	48.3	2.1	20.1
				85/71	44.7	32.2	51.3	2.1	21.0
	9.0	5.4	2.3	75/63	39.7	30.1	45.8	2.0	19.9
				80/67	42.5	31.2	48.8	2.0	20.8
				85/71	45.4	32.0	52.0	2.1	21.7
60	4.5	1.5	0.6	75/63	36.9	28.8	43.7	2.2	16.6
				80/67	39.4	29.9	46.4	2.3	17.4
				85/71	42.1	31.0	49.2	2.3	18.2
	6.0	2.5	1.1	75/63	37.5	29.1	44.2	2.2	17.3
				80/67	40.2	30.2	46.9	2.2	18.2
				85/71	42.9	31.3	49.9	2.2	19.1
	9.0	5.2	2.2	75/63	38.1	29.4	44.6	2.1	18.0
				80/67	40.8	30.5	47.4	2.2	18.9
				85/71	43.6	31.6	50.4	2.2	19.8
70	4.5	2.4	1.1	75/63	35.3	28.1	42.6	2.4	14.7
				80/67	37.7	29.2	45.2	2.4	15.5
				85/71	40.2	30.4	47.8	2.5	16.3
	6.0	4.1	1.8	75/63	35.9	28.3	43.0	2.3	15.4
				80/67	38.4	29.5	45.6	2.4	16.2
				85/71	41.0	30.7	48.4	2.4	17.1
	9.0	8.5	3.7	75/63	36.5	28.6	43.4	2.3	16.1
				80/67	39.0	29.8	46.1	2.3	16.9
				85/71	41.7	30.9	49.0	2.3	17.9
80	4.5	2.4	1.0	75/63	33.6	27.3	41.5	2.6	12.9
				80/67	36.0	28.5	44.0	2.6	13.6
				85/71	38.4	29.6	46.6	2.7	14.4
	6.0	4.0	1.7	75/63	34.1	27.6	41.8	2.5	13.4
				80/67	36.6	28.8	44.4	2.6	14.3
				85/71	39.2	29.8	47.1	2.6	15.1
	9.0	8.3	3.6	75/63	34.8	27.9	42.2	2.5	14.1
				80/67	37.2	29.0	44.8	2.5	15.0
				85/71	39.9	30.1	47.6	2.5	15.9
85	4.5	1.4	0.6	75/63	32.7	27.0	41.0	2.7	12.0
				80/67	35.1	28.1	43.5	2.8	12.7
				85/71	37.5	29.2	46.0	2.8	13.4
	6.0	2.3	1.0	75/63	33.2	27.2	41.3	2.7	12.5
				80/67	35.7	28.4	43.8	2.7	13.3
				85/71	38.2	29.6	46.4	2.7	14.1
	9.0	4.8	2.1	75/63	33.9	27.5	41.7	2.6	13.2
				80/67	36.4	28.6	44.3	2.6	14.0
				85/71	38.9	29.9	46.9	2.6	14.9
90	4.5	1.4	0.6	75/63	31.9	26.6	40.5	2.9	11.2
				80/67	34.1	27.8	42.9	2.9	11.8
				85/71	36.5	29.0	45.4	2.9	12.5
	6.0	2.3	1.0	75/63	32.4	26.8	40.8	2.8	11.7
				80/67	34.8	27.9	43.3	2.8	12.4
				85/71	37.2	29.2	45.8	2.8	13.2
	9.0	4.8	2.1	75/63	33.0	27.1	41.2	2.7	12.3
				80/67	35.4	28.3	43.7	2.7	13.1
				85/71	37.9	29.5	46.3	2.7	13.9
100	4.5	1.3	0.6	75/63	30.2	25.7	39.7	3.1	9.6
				80/67	32.4	26.9	42.0	3.2	10.2
				85/71	34.7	28.2	44.4	3.2	10.8
	6.0	2.2	1.0	75/63	30.7	25.9	39.9	3.1	10.0
				80/67	32.9	27.2	42.3	3.1	10.7
				85/71	35.3	28.3	44.7	3.1	11.4
	9.0	4.6	2.0	75/63	31.3	26.2	40.2	3.0	10.6
				80/67	33.6	27.4	42.6	3.0	11.3
				85/71	36.0	28.7	45.1	3.0	12.0
110	4.5	1.3	0.6	75/63	28.5	24.9	38.9	3.5	8.2
				80/67	30.6	26.1	41.2	3.5	8.7
				85/71	32.8	27.3	43.5	3.5	9.3
	6.0	2.2	1.0	75/63	29.0	25.1	39.2	3.4	8.6
				80/67	31.2	26.4	41.4	3.4	9.2
				85/71	33.4	27.7	43.7	3.4	9.8
	9.0	4.6	2.0	75/63	29.5	25.4	39.4	3.3	9.0
				80/67	31.8	26.6	41.7	3.3	9.7
				85/71	34.1	28.0	44.1	3.3	10.4

GZ036 WITH FE/V005 FAN COIL COOLING PERFORMANCE - PART LOAD

GZ036 Cooling Performance – Part Load @ 1025 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	4.5	1.5	0.7	75/63	29.7	23.7	33.7	1.2	24.5
				80/67	31.8	24.7	35.8	1.2	26.6
				85/71	34.1	25.6	38.0	1.2	29.0
	6	2.6	1.1	75/63	30.1	23.9	34.0	1.2	25.4
				80/67	32.3	24.9	36.2	1.2	27.7
				85/71	34.6	25.9	38.5	1.1	30.3
	9	5.4	2.3	75/63	30.4	24.1	34.3	1.2	26.0
				80/67	32.6	25.1	36.5	1.1	28.4
				85/71	35.1	26.6	38.9	1.1	31.3
60	4.5	1.5	0.6	75/63	28.3	23.1	32.6	1.3	21.5
				80/67	30.4	24.1	34.7	1.3	23.4
				85/71	32.5	25.1	36.8	1.3	25.3
	6	2.5	1.1	75/63	28.7	23.2	32.9	1.3	22.4
				80/67	30.8	24.3	35.0	1.3	24.4
				85/71	33.0	25.3	37.2	1.2	26.6
	9	5.2	2.2	75/63	29.0	23.4	33.2	1.3	23.2
				80/67	31.2	24.5	35.3	1.2	25.2
				85/71	33.4	25.5	37.5	1.2	27.5
70	4.5	2.4	1.1	75/63	26.9	22.4	31.6	1.5	18.5
				80/67	28.9	23.5	33.6	1.4	20.1
				85/71	31.0	24.5	35.7	1.4	21.7
	6	4.1	1.8	75/63	27.2	22.6	31.8	1.4	19.3
				80/67	29.3	23.7	33.9	1.4	21.0
				85/71	31.5	24.6	36.0	1.4	22.8
	9	8.5	3.7	75/63	27.6	22.7	32.1	1.4	20.1
				80/67	29.7	23.8	34.2	1.4	21.9
				85/71	31.9	24.8	36.3	1.3	23.8
80	4.5	2.4	1.0	75/63	25.4	21.7	30.7	1.6	15.7
				80/67	27.4	22.9	32.6	1.6	17.0
				85/71	29.4	23.8	34.6	1.6	18.4
	6	4.0	1.7	75/63	25.7	21.9	30.9	1.6	16.3
				80/67	27.7	23.0	32.8	1.6	17.7
				85/71	29.8	24.0	34.9	1.5	19.3
	9	8.3	3.6	75/63	26.2	22.1	31.1	1.5	17.1
				80/67	28.2	23.2	33.1	1.5	18.6
				85/71	30.3	24.2	35.2	1.5	20.2
85	4.5	1.4	0.6	75/63	24.7	21.4	30.2	1.7	14.4
				80/67	26.6	22.4	32.2	1.7	15.6
				85/71	28.6	23.6	34.1	1.7	16.8
	6	2.3	1.0	75/63	25.0	21.5	30.4	1.7	14.9
				80/67	26.9	22.7	32.3	1.7	16.2
				85/71	29.0	23.7	34.4	1.6	17.6
	9	4.8	2.1	75/63	25.4	21.7	30.7	1.6	15.7
				80/67	27.4	22.9	32.6	1.6	17.0
				85/71	29.4	23.9	34.6	1.6	18.5
90	4.5	1.4	0.6	75/63	24.0	21.1	29.8	1.8	13.2
				80/67	25.8	22.2	31.7	1.8	14.3
				85/71	27.7	23.3	33.6	1.8	15.4
	6	2.3	1.0	75/63	24.3	21.3	30.0	1.8	13.7
				80/67	26.1	22.4	31.9	1.8	14.8
				85/71	28.2	23.3	33.9	1.8	16.0
	9	4.8	2.1	75/63	24.7	21.4	30.2	1.7	14.3
				80/67	26.6	22.5	32.2	1.7	15.6
				85/71	28.6	23.6	34.1	1.7	16.9
100	4.5	1.3	0.6	75/63	22.5	20.5	29.0	2.1	10.9
				80/67	24.3	21.6	30.8	2.0	11.9
				85/71	26.1	22.5	32.7	2.0	12.8
	6	2.2	1.0	75/63	22.8	20.5	29.2	2.0	11.4
				80/67	24.6	21.7	31.0	2.0	12.3
				85/71	26.5	22.7	32.9	2.0	13.3
	9	4.6	2.0	75/63	23.1	20.8	29.3	1.9	11.9
				80/67	25.0	21.8	31.2	1.9	12.9
				85/71	26.9	23.0	33.1	1.9	14.0
110	4.5	1.3	0.6	75/63	21.0	19.8	28.3	2.3	9.0
				80/67	22.6	20.9	30.1	2.3	9.8
				85/71	24.4	22.0	31.9	2.3	10.6
	6	2.2	1.0	75/63	21.3	19.9	28.5	2.3	9.4
				80/67	23.0	21.1	30.2	2.3	10.2
				85/71	24.8	22.0	32.1	2.3	11.0
	9	4.6	2.0	75/63	21.6	20.1	28.6	2.2	9.8
				80/67	23.4	21.1	30.4	2.2	10.7
				85/71	25.2	22.2	32.3	2.2	11.6

GZ036 WITH FE/V005 FAN COIL COOLING PERFORMANCE - FULL LOAD

GZ036 Cooling Performance – Full Load @ 1250 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	4.5	1.5	0.7	75/63	40.8	30.7	47.6	1.9	21.0
				80/67	43.6	31.8	50.6	2.0	22.0
				85/71	46.5	33.1	53.7	2.0	22.9
	6	2.6	1.1	75/63	41.5	31.0	48.2	1.9	21.9
				80/67	44.4	32.2	51.3	1.9	22.9
				85/71	47.4	33.5	54.4	2.0	23.9
	9	5.4	2.3	75/63	42.1	31.3	48.6	1.9	22.7
				80/67	45.1	32.4	51.8	1.9	23.7
				85/71	48.2	33.3	55.2	2.0	24.7
60	4.5	1.5	0.6	75/63	39.1	30.0	46.4	2.1	18.9
				80/67	41.9	31.1	49.2	2.1	19.8
				85/71	44.7	32.2	52.2	2.2	20.8
	6	2.5	1.1	75/63	39.8	30.3	46.9	2.0	19.7
				80/67	42.6	31.5	49.8	2.1	20.8
				85/71	45.6	32.5	52.9	2.1	21.8
	9	5.2	2.2	75/63	40.4	30.5	47.3	2.0	20.5
				80/67	43.3	31.7	50.3	2.0	21.5
				85/71	46.3	32.8	53.5	2.0	22.6
70	4.5	2.4	1.1	75/63	37.4	29.2	45.2	2.2	16.7
				80/67	40.0	30.4	48.0	2.3	17.6
				85/71	42.7	31.6	50.8	2.3	18.5
	6	4.1	1.8	75/63	38.1	29.5	45.6	2.2	17.5
				80/67	40.8	30.7	48.4	2.2	18.5
				85/71	43.6	31.9	51.4	2.2	19.5
	9	8.5	3.7	75/63	38.7	29.7	46.1	2.1	18.3
				80/67	41.4	30.9	48.9	2.1	19.3
				85/71	44.3	32.2	51.9	2.2	20.3
80	4.5	2.4	1.0	75/63	35.7	28.4	44.1	2.4	14.7
				80/67	38.2	29.7	46.7	2.5	15.5
				85/71	40.8	30.7	49.5	2.5	16.4
	6	4.0	1.7	75/63	36.2	28.7	44.3	2.4	15.2
				80/67	38.8	30.0	47.1	2.4	16.2
				85/71	41.6	31.0	50.0	2.4	17.2
	9	8.3	3.6	75/63	36.9	29.0	44.8	2.3	16.1
				80/67	39.5	30.2	47.6	2.3	17.0
				85/71	42.3	31.3	50.5	2.3	18.1
85	4.5	1.4	0.6	75/63	34.7	28.1	43.5	2.5	13.7
				80/67	37.2	29.2	46.1	2.6	14.5
				85/71	39.8	30.3	48.9	2.6	15.3
	6	2.3	1.0	75/63	35.3	28.3	43.8	2.5	14.2
				80/67	37.9	29.5	46.5	2.5	15.2
				85/71	40.5	30.8	49.3	2.5	16.1
	9	4.8	2.1	75/63	36.0	28.6	44.2	2.4	15.0
				80/67	38.6	29.8	47.0	2.4	16.0
				85/71	41.3	31.1	49.8	2.4	16.9
90	4.5	1.4	0.6	75/63	33.9	27.6	43.0	2.7	12.7
				80/67	36.2	28.9	45.5	2.7	13.5
				85/71	38.8	30.1	48.2	2.7	14.3
	6	2.3	1.0	75/63	34.4	27.9	43.3	2.6	13.3
				80/67	36.9	29.0	45.9	2.6	14.1
				85/71	39.5	30.4	48.6	2.6	15.0
	9	4.8	2.1	75/63	35.1	28.2	43.7	2.5	14.0
				80/67	37.6	29.5	46.3	2.5	14.9
				85/71	40.2	30.7	49.1	2.5	15.8
100	4.5	1.3	0.6	75/63	32.1	26.7	42.1	2.9	10.9
				80/67	34.4	28.0	44.6	3.0	11.6
				85/71	36.8	29.3	47.1	3.0	12.3
	6	2.2	1.0	75/63	32.6	27.0	42.4	2.8	11.4
				80/67	34.9	28.2	44.8	2.9	12.1
				85/71	37.4	29.4	47.5	2.9	12.9
	9	4.6	2.0	75/63	33.2	27.3	42.7	2.8	12.1
				80/67	35.6	28.5	45.2	2.8	12.8
				85/71	38.2	29.9	47.9	2.8	13.7
110	4.5	1.3	0.6	75/63	30.2	25.9	41.3	3.2	9.3
				80/67	32.5	27.1	43.7	3.3	10.0
				85/71	34.8	28.4	46.2	3.3	10.6
	6	2.2	1.0	75/63	30.8	26.1	41.5	3.1	9.8
				80/67	33.1	27.4	44.0	3.2	10.5
				85/71	35.4	28.8	46.4	3.2	11.1
	9	4.6	2.0	75/63	31.3	26.4	41.8	3.0	10.3
				80/67	33.7	27.7	44.3	3.1	11.0
				85/71	36.2	29.1	46.8	3.1	11.8

GZ048 WITH FE/V005 FAN COIL HEATING PERFORMANCE - PART LOAD

GZ048 Heating Performance – Part Load @ 1300 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	6	3.0	1.3	60	26.9	20.8	2.2	3.6
				70	25.9	18.9	2.4	3.1
				80	25.4	17.5	2.7	2.7
	8	5.0	2.2	60	27.8	21.6	2.2	3.7
				70	26.7	19.7	2.5	3.2
				80	26.1	18.2	2.7	2.8
	12	10.5	4.5	60	28.7	22.5	2.2	3.8
				70	27.8	20.7	2.5	3.3
				80	26.8	18.9	2.7	2.9
40	6	2.9	1.3	60	30.6	24.3	2.2	4.0
				70	29.6	22.5	2.5	3.5
				80	28.9	20.9	2.7	3.1
	8	4.9	2.1	60	31.7	25.4	2.2	4.1
				70	30.6	23.5	2.5	3.6
				80	29.8	21.8	2.8	3.2
	12	10.1	4.4	60	32.9	26.6	2.2	4.3
				70	31.7	24.6	2.5	3.7
				80	30.8	22.8	2.8	3.3
50	6	2.6	1.1	60	35.4	29.1	2.3	4.6
				70	34.3	27.1	2.5	4.0
				80	33.3	25.1	2.8	3.5
	8	4.4	1.9	60	36.6	30.2	2.3	4.7
				70	35.5	28.2	2.5	4.1
				80	34.3	26.1	2.8	3.6
	12	9.1	4.0	60	38.1	31.7	2.3	4.9
				70	36.9	29.6	2.5	4.3
				80	35.5	27.3	2.8	3.7
60	6	2.5	1.1	60	40.0	33.7	2.3	5.2
				70	38.9	31.7	2.5	4.5
				80	37.8	29.6	2.8	3.9
	8	4.3	1.8	60	41.5	35.1	2.3	5.4
				70	40.3	33.0	2.5	4.7
				80	39.0	30.8	2.8	4.1
	12	8.8	3.8	60	43.2	36.8	2.3	5.6
				70	41.9	34.6	2.5	4.8
				80	40.4	32.2	2.8	4.2
70	6	2.5	1.1	60	44.9	38.4	2.3	5.8
				70	43.6	36.3	2.5	5.0
				80	42.4	34.1	2.8	4.4
	8	4.1	1.8	60	46.6	40.2	2.3	6.0
				70	45.3	38.0	2.6	5.2
				80	43.9	35.6	2.8	4.5
	12	8.6	3.7	60	48.6	42.1	2.3	6.2
				70	47.1	39.8	2.6	5.4
				80	45.6	37.3	2.8	4.7
80	6	2.4	1.0	60	49.9	43.4	2.3	6.4
				70	48.6	41.2	2.6	5.6
				80	47.2	38.9	2.9	4.9
	8	4.0	1.7	60	51.9	45.4	2.3	6.6
				70	50.5	43.1	2.6	5.8
				80	49.0	40.6	2.9	5.0
	12	8.3	3.6	60	54.2	47.7	2.3	6.9
				70	52.6	45.2	2.6	6.0
				80	51.0	42.6	2.9	5.2

GZ048 WITH FE/V005 HEATING PERFORMANCE - FULL LOAD

GZ048 Heating Performance – Full Load @ 1500 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	6	3.0	1.3	60	35.9	26.9	3.0	3.5
				70	35.4	25.3	3.3	3.1
				80	35.0	23.8	3.7	2.8
	8	5.0	2.2	60	37.3	28.2	3.1	3.6
				70	36.6	26.5	3.4	3.2
				80	36.3	24.9	3.7	2.9
	12	10.5	4.5	60	38.9	29.7	3.1	3.7
				70	38.1	27.9	3.4	3.3
				80	37.6	26.2	3.8	2.9
40	6	2.9	1.3	60	40.4	31.1	3.1	3.8
				70	40.1	29.7	3.4	3.4
				80	39.7	28.1	3.8	3.1
	8	4.9	2.1	60	42.4	32.9	3.2	3.9
				70	41.7	31.2	3.5	3.5
				80	41.2	29.5	3.8	3.2
	12	10.1	4.4	60	44.6	34.9	3.2	4.0
				70	43.6	32.9	3.5	3.6
				80	42.9	31.1	3.9	3.3
50	6	2.6	1.1	60	47.2	37.4	3.3	4.2
				70	46.4	35.5	3.6	3.8
				80	45.8	33.7	3.9	3.4
	8	4.4	1.9	60	49.4	39.4	3.3	4.3
				70	48.3	37.3	3.6	3.9
				80	47.6	35.4	4.0	3.5
	12	9.1	4.0	60	51.8	41.6	3.4	4.5
				70	50.6	39.4	3.7	4.0
				80	49.5	37.2	4.0	3.6
60	6	2.5	1.1	60	53.2	43.0	3.4	4.6
				70	52.2	40.9	3.7	4.1
				80	51.4	38.9	4.1	3.7
	8	4.3	1.8	60	55.7	45.3	3.5	4.7
				70	54.5	43.0	3.8	4.2
				80	53.5	40.9	4.1	3.8
	12	8.8	3.8	60	58.6	47.9	3.5	4.9
				70	57.1	45.5	3.8	4.4
				80	55.9	43.1	4.2	3.9
70	6	2.5	1.1	60	59.5	48.8	3.5	4.9
				70	58.3	46.5	3.9	4.4
				80	57.4	44.4	4.2	4.0
	8	4.1	1.8	60	62.4	51.5	3.6	5.1
				70	61.0	49.0	3.9	4.6
				80	59.8	46.6	4.3	4.1
	12	8.6	3.7	60	65.6	54.4	3.7	5.2
				70	64.0	51.8	4.0	4.7
				80	62.5	49.0	4.3	4.2
80	6	2.4	1.0	60	66.0	54.8	3.7	5.3
				70	64.6	52.3	4.0	4.7
				80	63.4	49.8	4.4	4.3
	8	4.0	1.7	60	69.2	57.8	3.7	5.4
				70	67.7	55.1	4.1	4.9
				80	66.1	52.3	4.4	4.4
	12	8.3	3.6	60	72.9	61.3	3.8	5.6
				70	71.0	58.2	4.2	5.0
				80	69.3	55.3	4.5	4.5

GZ048 WITH FE/V005 FAN COIL, COOLING PERFORMANCE - PART LOAD

GZ048 Cooling Performance – Part Load @ 1300 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	6	2.6	1.1	75/63	39.2	30.3	44.4	1.7	22.5
				80/67	41.9	32.2	47.1	1.7	24.3
				85/71	44.7	33.5	49.8	1.7	26.4
	8	4.4	1.9	75/63	40.0	31.4	45.0	1.7	24.1
				80/67	42.8	32.7	47.7	1.6	26.2
				85/71	45.7	33.9	50.6	1.6	28.6
	12	9.1	4.0	75/63	40.9	31.7	45.7	1.6	25.9
				80/67	43.8	33.0	48.4	1.5	28.4
				85/71	46.9	34.1	51.5	1.5	31.2
60	6	2.5	1.1	75/63	37.1	29.4	42.9	2.0	19.0
				80/67	39.7	30.6	45.4	1.9	20.5
				85/71	42.5	32.5	48.2	1.9	22.2
	8	4.3	1.8	75/63	37.9	29.8	43.4	1.9	20.3
				80/67	40.6	31.8	46.1	1.8	22.0
				85/71	43.5	32.9	48.9	1.8	24.0
	12	8.8	3.8	75/63	38.7	30.1	44.0	1.8	21.7
				80/67	41.5	32.0	46.8	1.8	23.7
				85/71	44.5	33.3	49.7	1.7	25.9
70	6	2.5	1.1	75/63	35.0	28.5	41.4	2.2	16.0
				80/67	37.4	29.8	43.8	2.2	17.1
				85/71	40.1	31.0	46.5	2.2	18.6
	8	4.1	1.8	75/63	35.7	28.9	41.9	2.1	17.0
				80/67	38.2	30.1	44.4	2.1	18.3
				85/71	41.1	31.3	47.2	2.1	20.0
	12	8.6	3.7	75/63	36.5	29.1	42.5	2.0	18.1
				80/67	39.2	30.4	45.1	2.0	19.7
				85/71	42.1	32.4	47.9	2.0	21.5
80	6	2.4	1.0	75/63	32.8	27.6	40.0	2.4	13.4
				80/67	35.3	28.7	42.4	2.4	14.4
				85/71	37.8	30.1	44.9	2.4	15.6
	8	4.0	1.7	75/63	33.5	27.9	40.4	2.4	14.2
				80/67	36.0	29.0	42.9	2.4	15.3
				85/71	38.7	30.3	45.6	2.3	16.6
	12	8.3	3.6	75/63	34.2	28.2	40.9	2.3	15.0
				80/67	36.7	29.5	43.4	2.3	16.2
				85/71	39.5	30.8	46.1	2.2	17.8
85	6	2.3	1.0	75/63	31.8	27.0	39.4	2.6	12.3
				80/67	34.1	28.4	41.7	2.6	13.2
				85/71	36.7	29.5	44.3	2.6	14.3
	8	3.9	1.7	75/63	32.4	27.4	39.7	2.5	12.9
				80/67	34.8	28.6	42.1	2.5	13.9
				85/71	37.5	29.8	44.8	2.5	15.2
	12	8.1	3.5	75/63	33.1	27.7	40.1	2.4	13.7
				80/67	35.6	28.8	42.7	2.4	14.8
				85/71	38.3	30.1	45.3	2.4	16.2
90	6	2.3	1.0	75/63	30.7	26.5	38.7	2.7	11.2
				80/67	33.0	27.9	41.0	2.7	12.0
				85/71	35.4	29.2	43.5	2.7	13.0
	8	3.9	1.7	75/63	31.3	26.8	39.1	2.7	11.8
				80/67	33.7	28.2	41.4	2.6	12.7
				85/71	36.3	29.3	44.0	2.6	13.8
	12	8.0	3.5	75/63	32.0	27.1	39.5	2.6	12.5
				80/67	34.4	28.5	41.8	2.6	13.5
				85/71	37.1	29.7	44.5	2.5	14.7
100	6	2.2	1.0	75/63	28.5	25.6	37.4	3.1	9.3
				80/67	30.8	26.9	39.7	3.1	10.1
				85/71	33.2	28.3	42.1	3.0	10.9
	8	3.8	1.6	75/63	29.1	25.8	37.7	3.0	9.7
				80/67	31.5	27.1	40.1	3.0	10.6
				85/71	33.9	28.4	42.6	3.0	11.5
	12	7.8	3.4	75/63	29.7	26.0	38.1	2.9	10.2
				80/67	32.1	27.4	40.5	2.9	11.2
				85/71	34.6	28.9	42.9	2.8	12.1
110	6	2.2	0.9	75/63	26.3	24.6	36.2	3.4	7.7
				80/67	28.5	26.0	38.5	3.4	8.3
				85/71	30.9	27.4	40.8	3.4	9.1
	8	3.6	1.6	75/63	26.8	24.8	36.5	3.3	8.0
				80/67	29.1	26.3	38.8	3.3	8.8
				85/71	31.5	27.5	41.2	3.3	9.5
	12	7.6	3.3	75/63	27.4	25.1	36.8	3.3	8.4
				80/67	29.7	26.6	39.1	3.2	9.2
				85/71	32.2	27.9	41.5	3.2	10.0

GZ048 WITH FE/V005 FAN COIL, COOLING PERFORMANCE - FULL LOAD

GZ048 Cooling Performance – Full Load @ 1500 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	6	2.6	1.1	75/63	50.4	37.0	58.9	2.7	18.3
				80/67	53.9	39.2	62.5	2.8	19.4
				85/71	57.4	40.5	66.1	2.8	20.5
	8	4.4	1.9	75/63	51.5	37.6	59.6	2.6	19.6
				80/67	55.1	39.7	63.4	2.7	20.8
				85/71	58.8	41.0	67.1	2.7	22.0
	12	9.1	4.0	75/63	52.7	38.1	60.4	2.5	21.0
				80/67	56.4	40.3	64.3	2.5	22.4
				85/71	60.3	41.6	68.2	2.5	23.8
60	6	2.5	1.1	75/63	48.3	36.1	57.4	3.0	16.2
				80/67	51.7	37.4	60.9	3.0	17.2
				85/71	55.1	39.5	64.5	3.0	18.1
	8	4.3	1.8	75/63	49.4	36.6	58.1	2.9	17.3
				80/67	53.0	38.6	61.8	2.9	18.4
				85/71	56.5	40.0	65.5	2.9	19.5
	12	8.8	3.8	75/63	50.5	37.1	58.9	2.7	18.4
				80/67	54.1	39.2	62.7	2.8	19.7
				85/71	57.9	40.5	66.5	2.8	21.0
70	6	2.5	1.1	75/63	46.1	35.1	56.0	3.2	14.2
				80/67	49.4	36.4	59.4	3.3	15.1
				85/71	52.8	37.5	63.0	3.3	16.0
	8	4.1	1.8	75/63	47.2	35.6	56.7	3.1	15.1
				80/67	50.6	36.8	60.2	3.1	16.1
				85/71	54.0	38.2	63.8	3.2	17.1
	12	8.6	3.7	75/63	48.2	36.0	57.4	3.0	16.1
				80/67	51.8	37.3	61.0	3.0	17.2
				85/71	55.4	39.7	64.7	3.0	18.4
80	6	2.4	1.0	75/63	44.0	34.0	54.7	3.5	12.4
				80/67	47.2	35.2	58.0	3.6	13.2
				85/71	50.3	36.7	61.3	3.6	14.0
	8	4.0	1.7	75/63	44.9	34.4	55.3	3.4	13.2
				80/67	48.3	35.7	58.7	3.4	14.1
				85/71	51.6	37.0	62.2	3.4	15.0
	12	8.3	3.6	75/63	45.9	34.9	55.9	3.3	14.0
				80/67	49.4	36.2	59.4	3.3	15.0
				85/71	52.8	37.7	62.9	3.3	16.0
85	6	2.3	1.0	75/63	42.8	33.5	54.1	3.7	11.6
				80/67	46.0	34.7	57.3	3.7	12.3
				85/71	49.0	36.4	60.5	3.8	13.0
	8	3.9	1.7	75/63	43.8	33.9	54.6	3.6	12.3
				80/67	47.0	35.2	58.0	3.6	13.1
				85/71	50.2	36.7	61.3	3.6	13.9
	12	8.1	3.5	75/63	44.8	34.3	55.2	3.4	13.1
				80/67	48.1	35.7	58.6	3.4	14.0
				85/71	51.5	37.2	62.1	3.5	14.9
90	6	2.3	1.0	75/63	41.7	32.9	53.5	3.9	10.8
				80/67	44.7	34.4	56.6	3.9	11.4
				85/71	47.7	35.8	59.8	4.0	12.1
	8	3.9	1.7	75/63	42.6	33.3	54.0	3.7	11.4
				80/67	45.7	34.9	57.1	3.8	12.2
				85/71	48.9	36.3	60.4	3.8	12.9
	12	8.0	3.5	75/63	43.6	33.7	54.5	3.6	12.1
				80/67	46.8	35.3	57.8	3.6	13.0
				85/71	50.1	36.7	61.2	3.6	13.8
100	6	2.2	1.0	75/63	39.3	32.0	52.2	4.3	9.2
				80/67	42.2	33.4	55.3	4.3	9.8
				85/71	45.2	34.5	58.5	4.4	10.4
	8	3.8	1.6	75/63	40.2	32.4	52.6	4.1	9.7
				80/67	43.2	33.8	55.8	4.1	10.4
				85/71	46.3	35.0	59.1	4.2	11.1
	12	7.8	3.4	75/63	41.1	32.8	53.1	4.0	10.3
				80/67	44.2	34.3	56.3	4.0	11.1
				85/71	47.4	35.7	59.6	4.0	11.8
110	6	2.2	0.9	75/63	37.0	31.0	51.2	4.7	7.8
				80/67	39.7	32.2	54.2	4.8	8.3
				85/71	42.4	33.9	57.1	4.8	8.8
	8	3.6	1.6	75/63	37.7	31.3	51.5	4.6	8.2
				80/67	40.5	32.8	54.5	4.6	8.8
				85/71	43.5	34.0	57.7	4.7	9.4
	12	7.6	3.3	75/63	38.6	31.5	51.9	4.4	8.7
				80/67	41.6	32.9	55.0	4.4	9.4
				85/71	44.5	34.6	58.1	4.5	10.0

GZ060 WITH FE/V006 FAN COIL, HEATING PERFORMANCE - PART LOAD

GZ060 Heating Performance – Part Load @ 1450 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	7.5	3.2	1.4	60	33.0	25.2	2.8	3.5
				70	31.7	22.9	3.1	3.0
				80	31.0	21.0	3.4	2.7
	10	5.4	2.3	60	34.0	26.1	2.8	3.6
				70	32.7	23.8	3.1	3.1
				80	31.8	21.8	3.4	2.7
	15	11.1	4.8	60	35.1	27.2	2.8	3.7
				70	33.7	24.8	3.1	3.2
				80	32.7	22.7	3.4	2.8
40	7.5	3.1	1.3	60	37.3	29.4	2.8	3.9
				70	36.6	27.6	3.1	3.4
				80	35.4	25.3	3.5	3.0
	10	5.2	2.2	60	38.6	30.6	2.8	4.0
				70	37.7	28.7	3.1	3.5
				80	36.5	26.3	3.5	3.1
	15	10.7	4.7	60	40.1	32.1	2.8	4.1
				70	39.1	30.0	3.2	3.6
				80	37.9	27.7	3.5	3.2
50	7.5	2.8	1.2	60	43.5	35.4	2.9	4.4
				70	42.2	33.0	3.2	3.9
				80	41.0	30.6	3.5	3.4
	10	4.7	2.0	60	44.9	36.8	2.9	4.6
				70	43.5	34.3	3.2	4.0
				80	42.2	31.8	3.5	3.5
	15	9.7	4.2	60	46.5	38.4	2.9	4.7
				70	45.1	35.9	3.2	4.1
				80	43.6	33.2	3.5	3.6
60	7.5	2.7	1.2	60	48.9	40.8	2.9	5.0
				70	47.7	38.5	3.2	4.4
				80	46.4	35.9	3.6	3.8
	10	4.5	2.0	60	50.6	42.4	2.9	5.1
				70	49.1	39.9	3.2	4.5
				80	47.9	37.4	3.6	3.9
	15	9.4	4.1	60	52.5	44.3	2.9	5.3
				70	50.9	41.6	3.2	4.6
				80	49.7	39.2	3.6	4.1
70	7.5	2.6	1.1	60	54.6	46.4	2.9	5.5
				70	53.2	43.9	3.2	4.8
				80	52.1	41.6	3.6	4.3
	10	4.4	1.9	60	56.6	48.4	2.9	5.7
				70	55.0	45.7	3.2	5.0
				80	53.9	43.3	3.6	4.4
	15	9.1	3.9	60	58.8	50.6	2.9	5.9
				70	57.1	47.7	3.2	5.2
				80	55.7	45.1	3.6	4.5
80	7.5	2.5	1.1	60	60.5	52.3	2.9	6.1
				70	58.9	49.6	3.2	5.3
				80	57.8	47.1	3.6	4.7
	10	4.2	1.8	60	62.8	54.6	2.9	6.3
				70	61.1	51.7	3.3	5.5
				80	59.7	49.0	3.6	4.8
	15	8.8	3.8	60	65.4	57.1	2.9	6.6
				70	63.5	54.1	3.3	5.7
				80	62.0	51.3	3.6	5.0

GZ060 WITH FE/V006 FAN COIL, HEATING PERFORMANCE - FULL LOAD

GZ060 Heating Performance – Full Load @ 1700 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	7.5	3.2	1.4	60	44.1	32.8	3.8	3.4
				70	43.6	31.0	4.2	3.1
				80	43.8	29.9	4.6	2.8
	10	5.4	2.3	60	45.9	34.5	3.8	3.5
				70	45.1	32.4	4.2	3.1
				80	45.3	31.2	4.6	2.9
	15	11.1	4.8	60	47.8	36.2	3.9	3.6
				70	46.8	34.0	4.3	3.2
				80	46.6	32.4	4.6	2.9
40	7.5	3.1	1.3	60	49.6	37.8	3.9	3.7
				70	49.2	36.2	4.3	3.3
				80	48.7	34.4	4.7	3.0
	10	5.2	2.2	60	51.9	40.0	4.0	3.8
				70	51.0	37.9	4.4	3.4
				80	50.4	35.9	4.7	3.1
	15	10.7	4.7	60	54.1	42.1	4.0	3.9
				70	53.4	40.1	4.4	3.6
				80	52.7	38.1	4.8	3.2
50	7.5	2.8	1.2	60	57.5	45.2	4.1	4.1
				70	56.8	43.2	4.5	3.7
				80	56.4	41.5	4.9	3.4
	10	4.7	2.0	60	59.8	47.3	4.2	4.2
				70	59.1	45.3	4.5	3.8
				80	58.8	43.7	4.9	3.5
	15	9.7	4.2	60	62.4	49.8	4.2	4.3
				70	61.3	47.3	4.6	3.9
				80	60.5	45.2	5.0	3.6
60	7.5	2.7	1.2	60	64.7	51.9	4.3	4.4
				70	63.7	49.5	4.6	4.0
				80	63.1	47.6	5.1	3.7
	10	4.5	2.0	60	67.4	54.3	4.3	4.6
				70	66.3	52.0	4.7	4.1
				80	65.4	49.7	5.1	3.7
	15	9.4	4.1	60	70.4	57.1	4.4	4.7
				70	69.1	54.5	4.8	4.2
				80	67.9	52.0	5.2	3.8
70	7.5	2.6	1.1	60	72.1	58.7	4.4	4.8
				70	71.0	56.3	4.8	4.3
				80	70.1	54.0	5.2	3.9
	10	4.4	1.9	60	75.3	61.6	4.5	4.9
				70	73.9	58.9	4.9	4.4
				80	72.8	56.4	5.3	4.0
	15	9.1	3.9	60	78.8	64.8	4.6	5.0
				70	77.1	61.9	5.0	4.5
				80	75.8	59.1	5.4	4.1
80	7.5	2.5	1.1	60	79.8	65.7	4.6	5.1
				70	78.4	63.1	5.0	4.6
				80	77.0	60.2	5.4	4.2
	10	4.2	1.8	60	83.4	69.0	4.7	5.2
				70	81.8	66.1	5.1	4.7
				80	80.4	63.3	5.5	4.3
	15	8.8	3.8	60	87.5	72.8	4.8	5.3
				70	85.6	69.5	5.2	4.8
				80	83.8	66.3	5.6	4.4

GZ060 WITH FE/V006 FAN COIL, COOLING PERFORMANCE - PART LOAD

GZ060 Cooling Performance – Part Load @ 1450 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	7.5	2.8	1.2	75/63	49.1	37.0	55.9	1.9	26.3
				80/67	52.4	38.4	59.2	1.8	28.4
				85/71	56.0	39.5	62.7	1.8	30.8
	10	4.7	2.0	75/63	49.9	37.4	56.5	1.8	27.7
				80/67	53.3	38.8	59.8	1.8	30.0
				85/71	57.0	40.0	63.4	1.7	32.8
	15	9.7	4.2	75/63	50.7	37.7	57.1	1.7	29.2
				80/67	54.2	39.2	60.5	1.7	31.8
				85/71	58.0	40.4	64.2	1.7	34.9
60	7.5	2.7	1.2	75/63	46.5	35.8	54.1	2.1	22.2
				80/67	49.7	37.2	57.3	2.1	24.0
				85/71	53.1	38.6	60.6	2.1	25.9
	10	4.5	2.0	75/63	47.3	36.2	54.6	2.0	23.4
				80/67	50.6	37.6	57.9	2.0	25.3
				85/71	54.1	39.0	61.3	2.0	27.5
	15	9.4	4.1	75/63	48.0	36.5	55.1	2.0	24.5
				80/67	51.4	38.0	58.5	1.9	26.7
				85/71	55.1	39.4	62.0	1.9	29.2
70	7.5	2.6	1.1	75/63	43.9	34.6	52.4	2.4	18.7
				80/67	47.0	36.1	55.5	2.3	20.1
				85/71	50.3	37.4	58.7	2.3	21.7
	10	4.4	1.9	75/63	44.6	34.9	52.8	2.3	19.6
				80/67	47.8	36.4	56.0	2.3	21.2
				85/71	51.1	37.8	59.3	2.2	22.9
	15	9.1	3.9	75/63	45.3	35.2	53.3	2.2	20.4
				80/67	48.6	36.7	56.5	2.2	22.3
				85/71	52.1	38.2	59.9	2.1	24.3
80	7.5	2.5	1.1	75/63	41.2	33.3	50.7	2.6	15.6
				80/67	44.3	34.8	53.8	2.6	16.8
				85/71	47.4	36.3	56.8	2.6	18.1
	10	4.2	1.8	75/63	41.9	33.7	51.1	2.6	16.3
				80/67	45.0	35.1	54.2	2.6	17.6
				85/71	48.2	36.6	57.4	2.5	19.1
	15	8.8	3.8	75/63	42.5	33.9	51.5	2.5	16.9
				80/67	45.7	35.4	54.6	2.5	18.4
				85/71	49.0	36.9	57.9	2.4	20.0
85	7.5	2.5	1.1	75/63	39.9	32.7	49.9	2.8	14.2
				80/67	42.9	34.1	53.0	2.8	15.3
				85/71	45.9	35.7	56.0	2.8	16.5
	10	4.2	1.8	75/63	40.6	32.9	50.4	2.7	14.8
				80/67	43.6	34.4	53.4	2.7	16.1
				85/71	46.8	35.8	56.5	2.7	17.4
	15	8.7	3.8	75/63	41.1	33.2	50.6	2.7	15.4
				80/67	44.2	34.8	53.7	2.6	16.7
				85/71	47.6	36.1	57.0	2.6	18.2
90	7.5	2.5	1.1	75/63	38.6	31.9	49.2	3.0	13.0
				80/67	41.4	33.6	52.1	3.0	14.0
				85/71	44.5	34.9	55.2	3.0	15.1
	10	4.1	1.8	75/63	39.2	32.2	49.5	2.9	13.5
				80/67	42.2	33.7	52.5	2.9	14.6
				85/71	45.2	35.4	55.5	2.9	15.8
	15	8.5	3.7	75/63	39.6	32.6	49.8	2.8	13.9
				80/67	42.8	34.0	52.9	2.8	15.2
				85/71	45.9	35.7	55.9	2.8	16.5
100	7.5	2.4	1.0	75/63	35.7	30.7	47.7	3.4	10.6
				80/67	38.6	32.2	50.6	3.3	11.5
				85/71	41.6	33.7	53.6	3.3	12.5
	10	4.0	1.7	75/63	36.3	30.9	48.0	3.3	11.0
				80/67	39.2	32.6	50.8	3.3	12.0
				85/71	42.2	34.2	53.8	3.2	13.0
	15	8.3	3.6	75/63	36.6	31.6	48.0	3.2	11.4
				80/67	39.7	32.8	51.1	3.2	12.4
				85/71	42.9	34.4	54.2	3.2	13.6
110	7.5	2.3	1.0	75/63	32.9	29.3	46.3	3.8	8.7
				80/67	35.7	31.1	49.1	3.8	9.5
				85/71	38.7	32.6	52.1	3.7	10.3
	10	3.9	1.7	75/63	33.4	29.4	46.6	3.7	9.0
				80/67	36.3	31.2	49.4	3.7	9.8
				85/71	39.3	32.7	52.4	3.7	10.7
	15	8.0	3.5	75/63	33.6	30.2	46.5	3.6	9.2
				80/67	36.6	31.8	49.5	3.6	10.2
				85/71	39.6	32.4	52.6	3.6	10.9

GZ060 WITH FE/V006 FAN COIL, COOLING PERFORMANCE - FULL LOAD

GZ060 Cooling Performance – Full Load @ 1700 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	7.5	2.8	1.2	75/63	63.4	45.6	74.7	3.0	20.9
				80/67	67.8	47.2	79.3	3.1	22.0
				85/71	72.3	48.9	84.0	3.1	23.1
	10	4.7	2.0	75/63	64.4	46.1	75.3	2.9	21.9
				80/67	68.9	47.7	80.1	3.0	23.1
				85/71	73.7	49.2	85.1	3.0	24.3
	15	9.7	4.2	75/63	65.0	47.6	75.5	2.8	23.0
				80/67	70.0	48.0	80.9	2.9	24.1
				85/71	74.9	49.6	86.0	3.0	25.4
60	7.5	2.7	1.2	75/63	61.0	44.4	73.1	3.3	18.6
				80/67	65.1	46.4	77.4	3.3	19.7
				85/71	69.5	48.0	82.1	3.4	20.7
	10	4.5	2.0	75/63	61.9	44.9	73.7	3.2	19.5
				80/67	66.2	46.7	78.2	3.2	20.6
				85/71	70.8	48.3	83.0	3.3	21.8
	15	9.4	4.1	75/63	62.5	44.4	74.2	3.2	19.8
				80/67	67.0	45.8	79.0	3.2	21.0
				85/71	72.1	48.4	83.9	3.2	22.8
70	7.5	2.6	1.1	75/63	58.5	43.2	71.6	3.6	16.5
				80/67	62.4	45.2	75.7	3.6	17.4
				85/71	66.7	46.8	80.2	3.6	18.4
	10	4.4	1.9	75/63	59.3	43.6	72.1	3.5	17.2
				80/67	63.4	45.7	76.3	3.5	18.2
				85/71	67.9	47.3	81.0	3.5	19.3
	15	9.1	3.9	75/63	60.0	43.2	72.6	3.4	17.5
				80/67	64.3	44.8	77.1	3.4	18.7
				85/71	68.8	48.6	81.4	3.4	20.3
80	7.5	2.5	1.1	75/63	55.8	42.2	70.0	3.9	14.4
				80/67	59.7	44.0	74.1	3.9	15.3
				85/71	63.8	45.6	78.4	3.9	16.2
	10	4.2	1.8	75/63	56.6	42.6	70.5	3.8	15.0
				80/67	60.6	44.4	74.6	3.8	16.0
				85/71	64.9	46.1	79.1	3.8	17.0
	15	8.8	3.8	75/63	57.2	43.8	70.5	3.6	15.7
				80/67	61.5	43.8	75.4	3.7	16.4
				85/71	65.9	46.5	79.7	3.7	17.7
85	7.5	2.5	1.1	75/63	54.6	41.4	69.5	4.1	13.4
				80/67	58.3	43.4	73.3	4.1	14.3
				85/71	62.3	45.0	77.6	4.1	15.1
	10	4.2	1.8	75/63	55.3	41.7	69.8	4.0	14.0
				80/67	59.2	43.8	73.8	4.0	14.9
				85/71	63.4	45.5	78.2	4.0	15.9
	15	8.7	3.8	75/63	55.8	43.0	69.8	3.8	14.6
				80/67	59.9	44.8	74.1	3.8	15.6
				85/71	64.3	45.0	78.9	3.9	16.3
90	7.5	2.5	1.1	75/63	53.2	40.7	68.8	4.3	12.5
				80/67	56.9	42.8	72.6	4.3	13.3
				85/71	60.8	44.5	76.7	4.3	14.1
	10	4.1	1.8	75/63	54.0	41.0	69.2	4.1	13.0
				80/67	57.8	43.2	73.1	4.2	13.9
				85/71	61.9	44.8	77.3	4.2	14.8
	15	8.5	3.7	75/63	54.4	42.2	69.1	4.0	13.6
				80/67	58.6	43.7	73.4	4.0	14.5
				85/71	62.7	44.5	78.0	4.1	15.2
100	7.5	2.4	1.0	75/63	50.3	39.7	67.5	4.7	10.7
				80/67	54.0	41.3	71.3	4.7	11.4
				85/71	57.9	42.7	75.5	4.8	12.2
	10	4.0	1.7	75/63	51.0	40.0	67.7	4.6	11.2
				80/67	54.8	41.9	71.6	4.6	11.9
				85/71	58.7	43.4	75.8	4.6	12.7
	15	8.3	3.6	75/63	51.4	40.2	67.9	4.5	11.4
				80/67	55.5	41.8	72.1	4.5	12.3
				85/71	59.3	43.5	76.1	4.5	13.1
110	7.5	2.3	1.0	75/63	47.6	38.4	66.5	5.2	9.2
				80/67	51.1	40.1	70.2	5.2	9.8
				85/71	54.7	41.5	74.1	5.3	10.4
	10	3.9	1.7	75/63	48.2	38.7	66.7	5.1	9.5
				80/67	51.8	40.3	70.5	5.1	10.2
				85/71	55.5	41.7	74.4	5.1	10.8
	15	8.0	3.5	75/63	48.7	39.0	66.9	5.0	9.8
				80/67	52.4	40.6	70.7	5.0	10.5
				85/71	56.1	42.3	74.6	5.0	11.2

GZ072 WITH FE/V006 FAN COIL, HEATING PERFORMANCE - PART LOAD

GZ072 Heating Performance – Part Load @ 1600 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	9	4.4	1.9	60	38.8	29.1	3.4	3.3
				70	38.5	27.6	3.8	3.0
				80	33.9	22.0	4.1	2.4
	12	7.4	3.2	60	40.1	30.4	3.4	3.4
				70	39.3	28.4	3.8	3.1
				80	39.1	26.8	4.2	2.7
	18	15.5	6.7	60	41.2	31.5	3.4	3.5
				70	40.1	29.2	3.8	3.1
				80	39.7	27.4	4.2	2.8
40	9	4.3	1.9	60	44.1	34.3	3.5	3.7
				70	43.3	32.2	3.8	3.3
				80	42.8	30.3	4.2	3.0
	12	7.2	3.1	60	45.5	35.6	3.5	3.8
				70	44.6	33.4	3.8	3.4
				80	43.9	31.4	4.3	3.0
	18	14.9	6.5	60	47.0	37.1	3.5	4.0
				70	45.8	34.6	3.9	3.5
				80	45.8	33.2	4.3	3.1
50	9	3.9	1.7	60	51.0	41.0	3.5	4.2
				70	50.3	38.9	3.9	3.8
				80	50.1	37.2	4.4	3.4
	12	6.5	2.8	60	52.6	42.5	3.5	4.4
				70	52.3	40.9	3.9	3.9
				80	46.5	34.2	4.2	3.2
	18	13.5	5.9	60	54.7	44.5	3.6	4.5
				70	52.8	41.4	3.9	3.9
				80	52.2	39.2	4.4	3.5
60	9	3.8	1.6	60	57.6	47.4	3.6	4.7
				70	56.7	45.1	4.0	4.2
				80	56.5	43.4	4.4	3.8
	12	6.3	2.7	60	59.5	49.3	3.6	4.9
				70	58.5	46.8	4.0	4.3
				80	57.9	44.8	4.4	3.8
	18	13.1	5.7	60	61.8	51.5	3.6	5.0
				70	59.8	48.1	4.0	4.4
				80	54.9	42.2	4.3	3.7
70	9	3.6	1.6	60	64.6	54.2	3.6	5.2
				70	63.8	52.0	4.0	4.6
				80	63.4	50.1	4.5	4.1
	12	6.1	2.6	60	66.8	56.4	3.7	5.4
				70	67.1	55.2	4.1	4.8
				80	65.5	52.0	4.5	4.2
	18	12.6	5.5	60	69.2	58.6	3.7	5.5
				70	68.4	56.5	4.1	4.9
				80	61.7	48.7	4.4	4.1
80	9	3.5	1.5	60	71.8	61.1	3.7	5.7
				70	71.5	59.4	4.1	5.1
				80	70.2	56.6	4.6	4.5
	12	5.9	2.6	60	74.5	63.8	3.7	5.9
				70	74.1	61.9	4.2	5.2
				80	73.0	59.3	4.6	4.6
	18	12.2	5.3	60	78.1	67.3	3.8	6.1
				70	76.5	64.2	4.2	5.4
				80	68.9	55.6	4.5	4.5

GZ072 WITH FE/V006 FAN COIL, HEATING PERFORMANCE - FULL LOAD

GZ072 Heating Performance – Full Load @ 1925 CFM								
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Heating				
				Ent. Air db,°F	Total KBtu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	9	4.4	1.9	60	50.5	36.7	4.6	3.2
				70	50.5	35.2	5.1	2.9
				80	49.6	32.6	5.6	2.6
	12	7.4	3.2	60	52.6	38.6	4.7	3.3
				70	51.4	36.0	5.1	2.9
				80	51.3	34.2	5.6	2.7
	18	15.5	6.7	60	54.3	40.1	4.7	3.4
				70	53.8	38.1	5.2	3.0
				80	53.5	36.2	5.7	2.8
40	9	4.3	1.9	60	57.3	42.9	4.8	3.5
				70	56.5	40.6	5.2	3.2
				80	56.0	38.4	5.7	2.9
	12	7.2	3.1	60	59.6	45.0	4.9	3.6
				70	58.6	42.5	5.3	3.2
				80	58.8	41.1	5.8	3.0
	18	14.9	6.5	60	62.0	47.3	4.9	3.7
				70	60.7	44.5	5.3	3.3
				80	59.7	41.8	5.8	3.0
50	9	3.9	1.7	60	66.5	51.4	5.0	3.9
				70	66.3	49.7	5.5	3.6
				80	66.0	47.7	6.0	3.2
	12	6.5	2.8	60	68.8	53.6	5.1	4.0
				70	68.4	51.6	5.5	3.6
				80	66.3	47.9	6.0	3.3
	18	13.5	5.9	60	66.2	51.2	5.0	3.9
				70	70.1	53.1	5.5	3.7
				80	69.3	50.6	6.0	3.4
60	9	3.8	1.6	60	74.8	59.1	5.2	4.2
				70	73.5	56.3	5.6	3.8
				80	73.2	54.2	6.2	3.5
	12	6.3	2.7	60	77.3	61.4	5.3	4.3
				70	77.3	59.8	5.7	4.0
				80	75.7	56.5	6.2	3.6
	18	13.1	5.7	60	80.6	64.4	5.3	4.4
				70	78.4	60.7	5.8	4.0
				80	77.5	58.1	6.3	3.6
70	9	3.6	1.6	60	82.9	66.6	5.4	4.5
				70	83.9	65.8	5.9	4.2
				80	82.1	62.1	6.4	3.7
	12	6.1	2.6	60	88.8	72.0	5.5	4.7
				70	86.7	68.4	6.0	4.3
				80	85.1	65.1	6.4	3.9
	18	12.6	5.5	60	84.2	67.8	5.4	4.6
				70	89.0	70.5	6.0	4.3
				80	86.4	66.3	6.5	3.9
80	9	3.5	1.5	60	91.9	74.9	5.6	4.8
				70	92.6	73.7	6.1	4.4
				80	91.5	71.0	6.6	4.1
	12	5.9	2.6	60	97.8	80.2	5.7	5.0
				70	96.0	76.9	6.2	4.5
				80	94.5	73.7	6.7	4.1
	18	12.2	5.3	60	101.7	83.8	5.8	5.1
				70	99.0	79.6	6.3	4.6
				80	96.3	75.3	6.7	4.2

GZ072 WITH FE/V006 FAN COIL, COOLING PERFORMANCE - PART LOAD

GZ072 Cooling Performance – Part Load @ 1600 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	9	3.9	0.9	75/63	56.9	42.6	65.9	2.6	22.1
				80/67	60.9	44.0	69.9	2.6	23.7
				85/71	65.1	45.2	74.1	2.6	25.4
	12	6.5	2.8	75/63	57.9	42.9	66.5	2.5	23.4
				80/67	62.0	44.4	70.6	2.5	25.3
				85/71	66.2	45.7	74.8	2.4	27.2
	18	13.5	5.9	75/63	58.8	43.3	67.1	2.4	24.8
				80/67	63.0	44.8	71.3	2.3	26.9
				85/71	67.4	46.1	75.6	2.3	29.2
60	9	3.8	1.6	75/63	54.5	41.3	64.5	2.9	18.9
				80/67	58.3	42.8	68.4	2.9	20.3
				85/71	62.3	44.2	72.4	2.9	21.7
	12	6.3	2.7	75/63	55.4	41.8	65.0	2.8	20.0
				80/67	59.3	43.2	69.0	2.8	21.5
				85/71	63.5	44.6	73.1	2.7	23.2
	18	13.1	5.7	75/63	56.2	42.1	65.5	2.7	21.1
				80/67	60.3	43.6	69.6	2.6	22.9
				85/71	64.5	45.2	73.7	2.6	24.7
70	9	3.6	1.6	75/63	51.9	40.2	63.1	3.2	16.1
				80/67	55.6	41.9	66.8	3.2	17.3
				85/71	59.5	43.2	70.8	3.2	18.5
	12	6.1	2.6	75/63	52.8	40.5	63.5	3.1	17.0
				80/67	56.5	42.3	67.3	3.1	18.2
				85/71	60.5	43.8	71.3	3.1	19.6
	18	12.6	5.5	75/63	53.5	40.8	64.0	3.0	17.8
				80/67	57.4	42.6	67.8	3.0	19.3
				85/71	61.6	43.9	72.0	3.0	20.8
80	9	3.5	1.5	75/63	49.2	39.2	61.7	3.6	13.6
				80/67	52.8	40.8	65.4	3.6	14.6
				85/71	56.5	42.4	69.2	3.6	15.6
	12	5.9	2.6	75/63	50.0	39.6	62.1	3.5	14.3
				80/67	53.7	41.2	65.8	3.5	15.4
				85/71	57.6	42.5	69.8	3.5	16.5
	18	12.2	5.3	75/63	50.7	39.9	62.4	3.4	15.0
				80/67	54.5	41.5	66.2	3.4	16.2
				85/71	58.6	42.8	70.3	3.4	17.5
85	9	3.5	1.5	75/63	48.0	38.5	61.2	3.8	12.5
				80/67	51.5	40.1	64.8	3.8	13.4
				85/71	55.2	41.6	68.5	3.8	14.4
	12	5.8	2.5	75/63	48.7	38.8	61.5	3.7	13.1
				80/67	52.4	40.4	65.2	3.7	14.1
				85/71	56.0	42.2	68.9	3.7	15.1
	18	12.0	5.2	75/63	49.4	39.1	61.8	3.6	13.7
				80/67	53.1	40.7	65.6	3.6	14.8
				85/71	56.9	42.6	69.3	3.6	16.0
90	9	3.4	1.5	75/63	46.6	37.9	60.6	4.1	11.5
				80/67	50.0	39.8	64.0	4.1	12.3
				85/71	53.6	41.3	67.7	4.1	13.2
	12	5.7	2.5	75/63	47.2	38.4	60.8	3.9	12.0
				80/67	50.8	40.1	64.4	3.9	12.9
				85/71	54.6	41.4	68.2	3.9	13.9
	18	11.8	5.1	75/63	47.9	38.7	61.1	3.8	12.5
				80/67	51.6	40.4	64.8	3.8	13.5
				85/71	55.4	42.0	68.6	3.8	14.6
100	9	3.3	1.4	75/63	43.8	36.8	59.5	4.6	9.6
				80/67	47.2	38.4	63.0	4.6	10.3
				85/71	50.6	40.0	66.5	4.6	11.0
	12	5.5	2.4	75/63	44.4	37.1	59.7	4.4	10.0
				80/67	47.9	38.7	63.2	4.4	10.8
				85/71	51.4	40.6	66.7	4.4	11.6
	18	11.5	5.0	75/63	45.0	37.3	60.0	4.3	10.4
				80/67	48.6	39.0	63.5	4.3	11.2
				85/71	52.2	40.9	67.1	4.3	12.1
110	9	3.2	1.4	75/63	41.0	35.6	58.6	5.1	8.0
				80/67	44.2	37.3	62.0	5.2	8.6
				85/71	47.6	38.9	65.4	5.1	9.3
	12	5.4	2.3	75/63	41.4	36.1	58.7	5.0	8.2
				80/67	44.8	37.8	62.1	5.0	8.9
				85/71	48.2	39.6	65.5	5.0	9.6
	18	11.2	4.8	75/63	42.0	36.0	58.9	4.9	8.5
				80/67	45.4	38.0	62.3	4.9	9.3
				85/71	49.0	39.6	65.9	4.9	10.0

GZ072 WITH FE/V006 FAN COIL, COOLING PERFORMANCE - FULL LOAD

GZ072 Cooling Performance – Full Load @ 1925 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop PSI	Cooling					
				Ent. Air db/wb,° F	Total kBtu/hr.	Sensible kBtu/hr.	Ht. Rej. kBtu/hr.	Unit kW	EER
50	9	3.9	0.9	75/63	71.3	53.7	84.2	3.9	18.3
				80/67	76.1	55.7	89.2	4.0	19.1
				85/71	81.1	57.5	94.5	4.1	20.0
	12	6.5	2.8	75/63	72.6	54.1	85.1	3.8	19.3
				80/67	77.5	56.2	90.2	3.8	20.2
				85/71	82.7	58.1	95.6	3.9	21.2
	18	13.5	5.9	75/63	73.9	54.7	85.8	3.6	20.3
				80/67	79.1	56.5	91.3	3.7	21.4
				85/71	84.3	58.6	96.7	3.7	22.5
60	9	3.8	1.6	75/63	68.5	52.6	82.3	4.2	16.2
				80/67	73.2	54.5	87.3	4.3	17.0
				85/71	78.0	56.4	92.4	4.4	17.9
	12	6.3	2.7	75/63	69.7	53.1	83.1	4.1	17.0
				80/67	74.5	55.0	88.2	4.1	18.0
				85/71	79.5	56.9	93.4	4.2	18.9
	18	13.1	5.7	75/63	70.8	53.6	83.8	4.0	17.9
				80/67	75.9	55.6	89.1	4.0	18.9
				85/71	81.0	57.5	94.5	4.1	20.0
70	9	3.6	1.6	75/63	65.6	51.4	80.6	4.6	14.3
				80/67	70.1	53.3	85.4	4.6	15.1
				85/71	74.9	55.0	90.4	4.7	15.9
	12	6.1	2.6	75/63	66.7	51.9	81.3	4.4	15.0
				80/67	71.4	53.7	86.2	4.5	15.9
				85/71	76.3	55.4	91.3	4.6	16.7
	18	12.6	5.5	75/63	67.8	52.3	81.9	4.3	15.7
				80/67	72.7	54.2	87.0	4.4	16.7
				85/71	77.8	55.9	92.3	4.4	17.7
80	9	3.5	1.5	75/63	62.7	50.2	78.9	5.0	12.6
				80/67	67.1	51.9	83.6	5.1	13.3
				85/71	71.4	54.1	88.1	5.1	14.0
	12	5.9	2.6	75/63	63.7	50.6	79.5	4.8	13.2
				80/67	68.3	52.3	84.3	4.9	13.9
				85/71	72.8	54.4	89.1	4.9	14.7
	18	12.2	5.3	75/63	64.7	50.9	80.1	4.7	13.7
				80/67	69.5	52.7	85.0	4.7	14.6
				85/71	74.3	54.5	90.0	4.8	15.5
85	9	3.5	1.5	75/63	61.2	49.5	78.1	5.2	11.7
				80/67	65.5	51.1	82.7	5.3	12.4
				85/71	69.9	53.0	87.3	5.3	13.1
	12	5.8	2.5	75/63	62.2	49.8	78.6	5.1	12.3
				80/67	66.7	51.5	83.4	5.1	13.0
				85/71	71.0	53.9	87.9	5.2	13.8
	18	12.0	5.2	75/63	63.1	50.2	79.2	4.9	12.8
				80/67	67.7	52.3	83.9	5.0	13.6
				85/71	72.4	54.3	88.8	5.0	14.5
90	9	3.4	1.5	75/63	59.7	48.7	77.3	5.4	11.0
				80/67	63.7	50.8	81.7	5.5	11.6
				85/71	68.2	52.4	86.4	5.6	12.3
	12	5.7	2.5	75/63	60.6	49.0	77.9	5.3	11.4
				80/67	64.9	51.2	82.3	5.3	12.1
				85/71	69.4	52.9	87.1	5.4	12.8
	18	11.8	5.1	75/63	61.6	49.4	78.3	5.2	11.9
				80/67	65.9	51.6	82.9	5.2	12.7
				85/71	70.6	53.3	87.8	5.2	13.5
100	9	3.3	1.4	75/63	56.5	47.2	75.9	6.0	9.4
				80/67	60.5	49.6	80.1	6.0	10.0
				85/71	64.8	51.2	84.6	6.1	10.7
	12	5.5	2.4	75/63	57.4	47.6	76.3	5.8	9.8
				80/67	61.5	50.0	80.6	5.9	10.5
				85/71	66.0	51.6	85.2	5.9	11.2
	18	11.5	5.0	75/63	58.1	48.3	76.6	5.7	10.2
				80/67	62.5	50.3	81.0	5.7	10.9
				85/71	66.9	52.4	85.6	5.7	11.7
110	9	3.2	1.4	75/63	53.4	46.3	74.7	6.6	8.1
				80/67	57.4	48.0	78.9	6.6	8.7
				85/71	61.3	50.4	82.9	6.6	9.2
	12	5.4	2.3	75/63	54.2	46.3	75.1	6.4	8.4
				80/67	58.3	48.3	79.2	6.4	9.0
				85/71	62.4	50.4	83.5	6.5	9.6
	18	11.2	4.8	75/63	54.9	46.4	75.4	6.3	8.7
				80/67	59.0	49.2	79.4	6.3	9.4
				85/71	63.3	50.6	84.0	6.3	10.0

ANTI-FREEZE CORRECTION TABLE

Antifreeze Type	Antifreeze % volume	Cooling			Heating		WPD Correction Factor EWT 30°F
		EWT 90°F			EWT 30°F		
		Total Cap.	Sens. Cap	Power	Htg. Cap	Power	
Water	0	1.000	1.000	1.000	1.000	1.000	1.000
Propylene Glycol	5	0.997	0.997	1.004	0.989	0.997	1.060
	10	0.994	0.994	1.006	0.986	0.995	1.125
	15	0.990	0.990	1.009	0.978	0.988	1.190
	25	0.983	0.983	1.016	0.960	0.979	1.300
Methanol	5	0.997	0.997	1.003	0.990	0.997	1.060
	10	0.996	0.996	1.005	0.979	0.993	1.100
	15	0.994	0.994	1.008	0.970	0.990	1.140
Ethanol	5	0.998	0.998	1.002	0.981	0.994	1.160
	10	0.996	0.996	1.004	0.960	0.988	1.230
	15	0.992	0.992	1.006	0.944	0.983	1.280
	25	0.986	0.986	1.009	0.917	0.974	1.400
Ethylene Glycol	5	0.997	0.997	1.003	0.993	0.998	1.060
	10	0.995	0.995	1.004	0.986	0.996	1.120
	15	0.992	0.992	1.005	0.980	0.993	1.190
	25	0.988	0.988	1.009	0.970	0.990	1.330
	30	0.985	0.985	1.012	0.965	0.987	1.400

SOUND DATA

Model	LOAD	Octave Band Sound Power Levels dB, re 10−12 Watts								A weighted overall (dBA)
		Center Frequency − Hz								
		63	125	250	500	1000	2000	4000	8000	ARI−260:2011 (50Hz−10kHz)
GZ024	Cooling Part	78	63	57	56	56	44	36	32	59
	Cooling Full	74	64	57	57	53	47	44	38	59
	Heating Part	81	62	55	54	58	42	35	34	61
	Heating Full	78	68	56	56	57	46	37	35	60
GZ036	Cooling Part	89	67	57	55	51	44	38	39	64
	Cooling Full	89	71	59	57	55	46	39	38	65
	Heating Part	86	67	57	55	52	40	38	38	62
	Heating Full	85	70	58	57	54	45	38	35	62
GZ048	Cooling Part	88	68	58	54	50	42	37	35	63
	Cooling Full	87	73	58	55	54	45	39	33	63
	Heating Part	84	70	61	56	50	42	38	35	61
	Heating Full	88	75	59	56	54	46	40	36	65
GZ060	Cooling Part	83	70	61	59	53	46	42	40	62
	Cooling Full	82	74	60	60	56	50	45	42	63
	Heating Part	81	72	61	58	52	46	42	40	62
	Heating Full	82	74	61	60	57	52	45	43	64
GZ072	Cooling Part	85	71	63	63	57	45	41	35	65
	Cooling Full	83	73	62	62	60	49	44	40	65
	Heating Part	88	70	61	60	55	44	41	34	64
	Heating Full	80	73	60	62	60	49	44	35	64