HS
GEOTHERMAL SPLIT HEAT PUMP
WITH R-410A REFRIGERANT
Sizes 024, 036, 048, 060

Comfortmaker®
Air Conditioning & Heating

Product Specifications

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
- Optional cupro-nickel heat exchanger for open loop applications.

Comfort

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

Control

- Microprocessor control

Sound

- Fully insulated cabinet with closed cell foam
- Compressor blanket

Reliability, Quality and Durability

- R-410A refrigerant

Flexibility and Installation

- Unit compatible with FVM fan coils
- Compatible with ICP evaporator coils
- Compatible with many 3 stage heat, 2 stage cooling programmable thermostats (reduced features if using non-communicating)
- 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

Warranty*

- 5 year No Hassle Replacement™ limited warranty
- 5 year labor limited warranty
  - With timely registration, an additional 5 year labor limited warranty
- 10 year parts limited warranty (including compressor)

* For residential applications only (owner occupied for No Hassle Replacement™ warranty). See warranty certificate for complete details and restrictions, including warranty coverage for other applications.

Model Number Nomenclature

Position>>>	1-2	3-5	6	7	8	9	10	11	12	13	14	15	16
	HS	**036**	**S**	**X**	**X**	**C**	**D**	**X**	**X**	**1**	**X**	**X**	**1**

Model
HS (Split)

Nominal Capacity
024, 036, 048, 060

Cabinet Configuration
S = Split

Discharge Air Configuration
X = None

Return Air Configuration
X = None

Coax Options
C = Copper (source)
N = Cupronickel (source)

Hot Water Option
D = with Desuperheater
X = without Desuperheater

Fan/Motor Options
X = None

Air Coil Coating
X = No air coil

Voltage
1 = 208-230/60/1

Future Use

Future Use

Revision Level
1 = First revision etc.

Intertek

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.

ISO 9001

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 HS unit with a furnace, it is important to match the CFM output of the furnace to the requirements of the GHP.

Physical Data

Description	Unit Size			
	024	036	048	060
Compressor Type (Qty 1)	2-Stage Scroll			
Refrigeration Charge (oz)*	80	86	88	115
Max Water Working Pressure (PSIG/kPa)	450/3100	450/3100	450/3100	450/3100
Water Connection Size				
FPT (Swivel Type)	1.0”	1.0”	1.0”	1.0”
Coaxial Coil Volume (gal)	0.33	0.62	0.62	1.07
Cabinet				
Weight - Operating (lbs)	172	172	172	237
Weight - Shipping (lbs)	189	189	189	261

Electrical Data

Model Size	Rated Voltage	Voltage Min/Max	Compressor			Total Unit	
			QTY	RLA	LRA	Min Circuit Amps	Max Fuse/ HACR
024	208-230/60/1	197/253	1	11.7	58.3	14.6	25
036	208-230/60/1	197/253	1	15.6	83.0	19.5	35
048	208-230/60/1	197/253	1	21.2	104.0	26.4	45
060	208-230/60/1	197/253	1	26.9	139.9	33.6	60

Fan Coil / Evap AHRI Coil match-up

Geothermal Split	Air Handler	Cased Coil
HS024	FVM4X36000BL	EAM4X24L17
HS036	FVM4X3600BL, FVM4X4800BL	EAM4X36L17
HS048	FVM4X4800BL	EAM4X48L21
HS060	FVM4X6000BL	EAM4X60L24

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 Control 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)

NOTE: See Geothermal Accessory Catalog for the full selection of available field-installed accessories.

AHRI RATINGS (13256-1)

FAN COILS - FULL LOAD															
				Water Loop				Ground Water				Ground Loop			
Condensing section Model Number	Fan Coil Model Number	GPM	F/P	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
HS024******1**1	FVM4X36000BL	6	F	25000	14.60	28000	5.10	28200	22.00	23500	4.45	26000	16.80	18900	3.75
HS036***N***1**2	FVM4X36000BL	9	F	35000	13.40	45700	4.70	40300	19.75	36700	4.20	36800	15.40	26900	3.40
HS036***C***1**2	FVM4X4800BL	9	F	37700	15.21	45000	5.00	41400	22.75	36700	4.40	39200	17.60	27400	3.40
HS036***N***1**2	FVM4X4800BL	9	F	37700	14.05	45000	4.90	41400	20.30	36700	4.20	39200	16.25	27400	3.60
HS048******1**1	FVM4X4800BL	12	F	46200	13.90	57200	4.70	52300	20.45	47400	4.20	48600	15.50	37900	3.60
HS060******1**1	FVM4X6000BL	15	F	58500	14.80	70300	4.40	64300	20.70	57500	4.00	60800	16.80	45000	3.40
FAN COILS - PART LOAD															
				Water Loop				Ground Water				Ground Loop			
Condensing section Model Number	Fan Coil Model Number	GPM	F/P	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
HS024******1**1	FVM4X36000BL	6	P	18300	15.80	20900	5.50	20900	26.40	17400	4.55	20000	22.80	15700	4.05
HS036***N***1**2	FVM4X36000BL	9	P	25300	15.20	33100	5.40	29700	24.45	26100	4.40	27900	21.40	21900	3.80
HS036***C***1**2	FVM4X4800BL	9	P	27000	17.00	32200	6.00	30300	25.65	26000	4.80	29400	24.20	22800	4.20
HS036***N***1**2	FVM4X4800BL	9	P	27000	15.90	32200	5.55	30300	25.90	26000	4.20	29400	22.55	22800	4.00
HS048******1**1	FVM4X4800BL	12	P	34700	15.30	42600	5.40	39800	25.75	35400	4.60	38500	21.50	31600	4.10
HS060******1**1	FVM4X6000BL	15	P	44000	16.60	51200	5.10	49100	26.20	42600	4.30	47600	22.80	38000	3.90

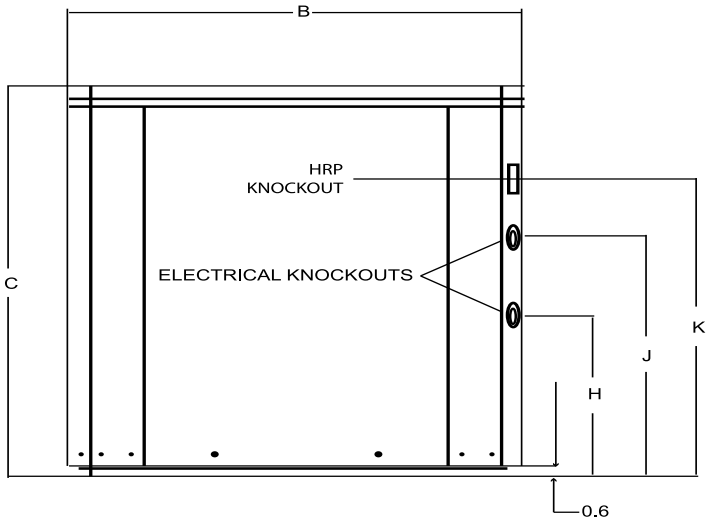
AHRI RATINGS (13256-1) (Continued)

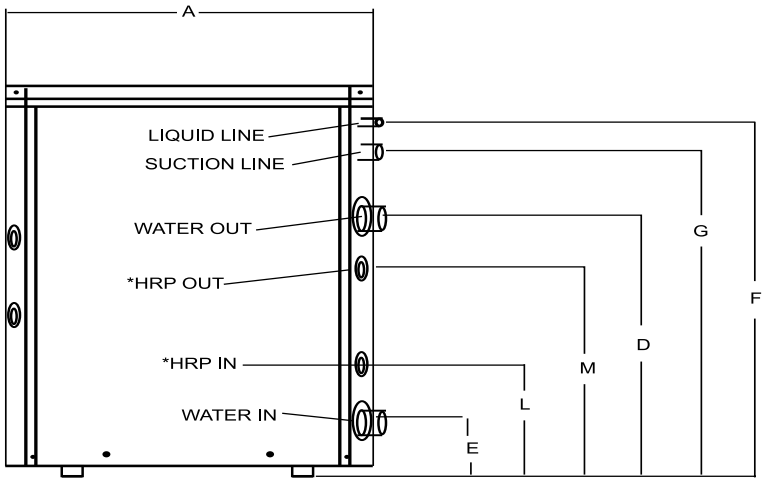
EVAP COILS - FULL LOAD															
				Water Loop				Ground Water				Ground Loop			
Condensing section Model Number	Evap Coil Model Number	GPM	F/P	Cooling Capacity (Btu/hr)	EER	Heating Capacity (Btu/hr)	COP	Cooling Capacity (Btu/hr)	EER	Heating Capacity (Btu/hr)	COP	Cooling Capacity (Btu/hr)	EER	Heating Capacity (Btu/hr)	COP
HS024*******1**1	EAM4X24	6	F	24900	13.95	28900	4.80	28000	22.50	23900	4.30	26100	15.90	19000	3.45
HS036*******1**2	EAM4X36	9	F	35600	14.40	44600	4.80	40400	20.70	36500	4.35	37400	16.90	27700	3.65
HS048*******1**1	EAM4X48	12	F	46900	13.40	56500	4.70	52000	20.30	46600	4.20	49000	15.50	36100	3.55
HS060*******1**1	EAM4X60	15	F	60000	13.90	71800	4.60	66400	19.30	58800	3.95	63900	16.05	46000	3.60
EVAP COILS - PART LOAD															
				Water Loop				Ground Water				Ground Loop			
Condensing section Model Number	Evap Coil Model Number	GPM	F/P	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
HS024*******1**1	EAM4X24	6	P	18600	15.05	21500	5.40	21100	27.10	17500	4.50	20400	22.50	15300	3.95
HS036*******1**2	EAM4X36	9	P	26200	15.80	32600	5.40	29900	26.50	26300	4.45	29100	23.30	23100	3.95
HS048*******1**1	EAM4X48	12	P	34900	14.70	41700	4.90	39200	24.50	34000	4.20	37800	21.00	30000	3.65
HS060*******1**1	EAM4X60	15	P	43800	15.40	52600	5.20	51000	25.90	42900	4.45	48000	22.15	37800	4.00

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	
HS024	24	27.4	21.5	12.7	3.7	3/8" @ 19.4	7/8" @ 17.6	8.6	13.5	16.8	6.2	10.1	1" F.P.T
HS036	24	27.4	21.5	15.5	3.5	3/8" @ 19.4	7/8" @ 17.6	8.6	13.5	16.8	6.6	13	1" F.P.T
HS048	24	27.4	21.5	15.5	3.5	3/8" @ 19.4	7/8" @ 17.6	8.6	13.5	16.8	6.6	13	1" F.P.T
HS060	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

HS024 WITH FVM4X36000BL FAN COIL HEATING PERFORMANCE - PART LOAD

HS024 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

HS024 WITH FVM4X36000BL FAN COIL HEATING PERFORMANCE - FULL LOAD

HS024 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

HS024 WITH FVM4X36000BL FAN COIL HEATING PERFORMANCE - PART LOAD

HS024 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

HS024 WITH FVM4X36000BL FAN COIL COOLING PERFORMANCE - FULL LOAD

HS024 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

HS036 WITH FVM4X36000BL FAN COIL HEATING PERFORMANCE - PART LOAD

HS036 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

HS036 WITH FVM4X36000BL FAN COIL HEATING PERFORMANCE - FULL LOAD

HS036 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

HS036 WITH FVM4X4800BL FAN COIL HEATING PERFORMANCE - PART LOAD

HS036 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

HS036 WITH FVM4X4800BL FAN COIL HEATING PERFORMANCE - Full LOAD

HS036 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

HS036 WITH FVM4X36000BL FAN COIL COOLING PERFORMANCE - PART LOAD

HS036 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

HS036 WITH FVM4X36000BL FAN COIL COOLING PERFORMANCE - FULL LOAD

HS036 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

HS036 WITH FVM4X4800BL FAN COIL COOLING PERFORMANCE - PART LOAD

HS036 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

HS036 WITH FVM4X4800BL FAN COIL COOLING PERFORMANCE - FULL LOAD

HS036 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

HS048 WITH FVM4X4800BL FAN COIL HEATING PERFORMANCE - PART LOAD

HS048 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

HS048 WITH FVM4X4800BL HEATING PERFORMANCE - FULL LOAD

HS048 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

HS048 WITH FVM4X4800BL FAN COIL, COOLING PERFORMANCE - PART LOAD

HS048 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

HS048 WITH FVM4X4800BL FAN COIL, COOLING PERFORMANCE - FULL LOAD

HS048 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

HS060 WITH FVM4X6000BL FAN COIL, HEATING PERFORMANCE- PART LOAD

HS060 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

HS060 WITH FVM4X6000BL FAN COIL, HEATING PERFORMANCE - Full LOAD

HS060 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

HS060 WITH FVM4X6000BL FAN COIL, COOLING PERFORMANCE - PART LOAD

HS060 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

HS060 WITH FVM4X6000BL FAN COIL, COOLING PERFORMANCE - FULL LOAD

HS060 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

ANTI-FREEZE CORRECTION TABLE

Antifreeze Type	Antifreeze % volume	Cooling			Heating		WPD Correction Factor EWT 30ºF
		EWT 90 ºF			EWT 30 ºF		
		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 Size	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)
024	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
036	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
048	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
060	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