

**GC Infinity® Series
Geothermal Heat Pump
Sizes 024, 036, 048, 060, 072**



Product Data

FEATURES & BENEFITS



Energy Efficiency

- 3.8 - 4.7 COP, 18.5 - 32.0 EER (Closed Loop)
- 4.5 - 5.2 COP, 23.1 - 37.0 EER (Open Loop)
- Optional supplemental domestic water heating
- All sizes meet Energy Star requirements

Comfort

- Two-stage scroll compressor
- Variable speed ECM blower motor

Control

- Microprocessor control
- Uses Infinity Control (with V13.0 or newer software)

Sound

- Fully insulated cabinet with closed cell foam
- Compressor blanket

Reliability, Quality and Durability

- Puron® refrigerant
- Tin plated copper tubing in air coil

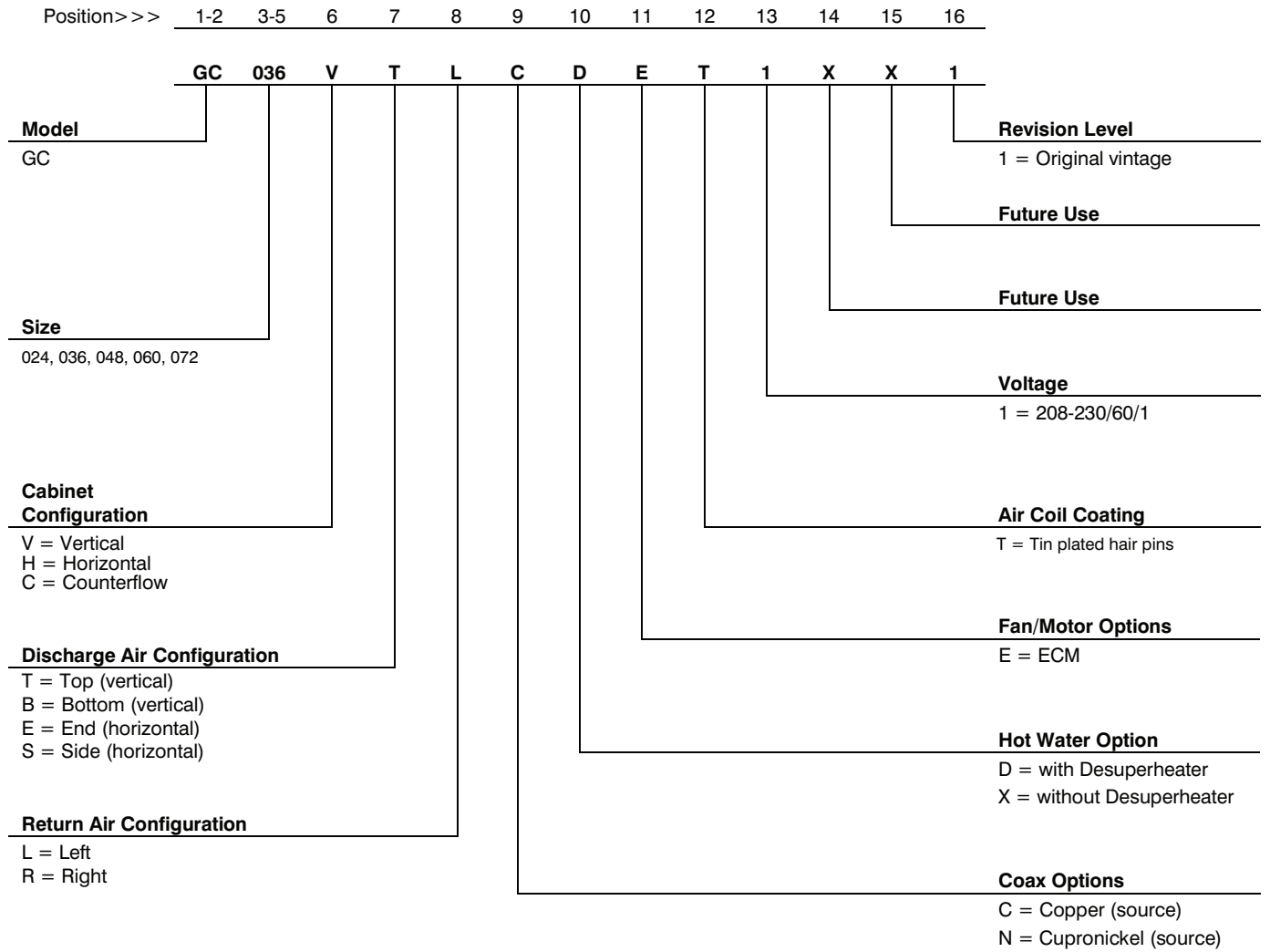
Flexibility and Installation

- Unit available in vertical up-flow, down-flow and horizontal
- Unit can be field converted from left to right or vice-versa

Indoor Air Quality

- MERV 13, 2" filter

MODEL NUMBER NOMENCLATURE



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
QMI-SAI Global



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.**

AHRI RATINGS

FULL LOAD												
Model	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling 77°F		Heating 32°F	
	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
GC024	25500	17.4	29200	5.6	29000	26.5	23500	4.9	26600	19.9	18000	4.1
GC036	39000	19.0	42800	5.6	43300	28.0	35900	5.1	40800	22.0	28400	4.3
GC048	49200	16.6	56100	5.3	55300	25.3	46300	4.7	51300	19.3	36900	4.0
GC060	63800	17.0	73300	5.2	70200	24.4	60300	4.6	65100	18.9	48000	3.9
GC072	71600	16.3	84000	5.1	78700	23.1	70000	4.5	73700	18.5	55300	3.8

PART LOAD												
Model	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling 68°F		Heating 41°F	
	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
GC024	18500	18.9	21200	6.5	21700	33.6	16700	5.1	21000	28.1	14400	4.4
GC036	29000	22.2	31000	6.5	32600	37.0	25200	5.2	31900	32.0	22400	4.7
GC048	36700	18.9	40900	6.2	42000	33.8	33700	5.2	39900	27.8	29800	4.5
GC060	47500	18.7	53600	5.8	53300	31.2	44300	4.8	51600	26.5	39800	4.4
GC072	55200	17.8	64900	5.7	60800	28.5	52900	4.8	60300	25.4	46900	4.3

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.

PHYSICAL DATA

Description	024	036	048	060	072
Compressor Type (Qty 1)	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigeration Charge VT and CF (oz)	58	98	88	110	114
Refrigeration Charge HZ only (oz)	64	85	77	100	114
Refrigerant Metering Device	Bi-directional thermal expansion valve (TXV)				
Max Water Working Pressure (PSIG/kPa)	450/3100	450/3100	450/3100	450/3100	450/3100
ECM Const Air Flow – Eon Fan Motor & Blower					
Fan Motor Type/Speeds	ECM Const Air Flow				
Fan Motor (HP)	0.33	0.75	0.75	1.00	1.00
Blower Wheel Size (Dia. x W)	10 X 8	11 X 9	11 X 9	11 X 11	11 X 11
Water Connection Size					
Loop Connection Size	1" Swivel				
FPT (Hot Water)	3/4"	1.0"	1.0"	1.0"	1.0"
Coaxial Coil Volume (gal)	0.33	1.18	0.62	1.07	1.12
Vertical Cabinet					
Air Coil Dimensions (H x W)	24 X 20	32 X 26	32 X 26	38 X 26	38 X 26
Nominal size of Standard Filter – 2" MERV13 (L x H)	24 X 24 (1)	16 X 30 (2)	16 X 30 (2)	20 X 30 (2)	20 X 30 (2)
Weight – Operating (lbs)	250	360	340	410	440
Weight – Shipping (lbs)	350	475	450	530	560
Horizontal Cabinet					
Air Coil Dimensions (H x W)	18 X 31.5	20 X 42	20 X 42	20 X 49	20 X 49
Nominal size of Standard Filter – 2" MERV13 (L x H)	18 X 18 (2)	20 X 24 (2)	20 X 24 (2)	18 X 20 (3)	18 X 20 (3)
Weight – Operating (lbs)	260	375	355	430	460

BLOWER PERFORMANCE DATA - VARIABLE SPEED CONSTANT CFM

GC Model – Stage	Airflow Settings	CFM from Communicating Wall Control	
		Heating Mode	Cooling Mode
024 – Low	MAX	744	744
	EFF 1	605	605
	EFF 2	651	651
	COM	498	497
	QUIET	N.A.	426
024 – High	MAX	944	944
	EFF 1	767	767
	EFF 2	826	826
	COM	729	728
	QUIET	N.A.	624
036 – Low	MAX	912	912
	EFF 1	741	741
	EFF 2	798	798
	COM	747	746
	QUIET	N.A.	639
036 – High	MAX	1260	1260
	EFF 1	1024	1024
	EFF 2	1103	1103
	COM	946	945
	QUIET	N.A.	810
048 – Low	MAX	1600	1600
	EFF 1	1300	1300
	EFF 2	1400	1400
	COM	1108	1106
	QUIET	N.A.	948
048 – High	MAX	1824	1824
	EFF 1	1482	1482
	EFF 2	1596	1596
	COM	1402	1400
	QUIET	N.A.	1200
060 – Low	MAX	2000	2000
	EFF 1	1625	1625
	EFF 2	1750	1750
	COM	1402	1400
	QUIET	N.A.	1200
060 – High	MAX	2280	2280
	EFF 1	1853	1853
	EFF 2	1995	1995
	COM	1805	1803
	QUIET	N.A.	1545
072 – Low	MAX	2064	2064
	EFF 1	1677	1677
	EFF 2	1806	1806
	COM	1598	1596
	QUIET	N.A.	1368
072 – High	MAX	2688	2688
	EFF 1	2184	2184
	EFF 2	2352	2352
	COM	2103	2100
	QUIET	N.A.	1800

Model	CFM		ESP
	Max	Min	Range
GC024	950	400	0.1 – 0.8"
GC036	1300	625	0.1 – 1.0"
GC048	1800	925	0.1 – 1.0"
GC060	2200	1200	0.1 – 1.0"
GC072	2500	1350	0.1 – 1.0"

NOTES:

- CFM based on standard air conditions at 0.5" w.c. external static pressure with 2" MERV 13 filter.
- Comfort cooling (COM) CFM will vary from data above while in Dehum mode.

UNIT ELECTRICAL DATA

Model	Voltage Code	Rated Voltage	Voltage Min/Max	Compressor			Total Unit ECM Const Air Flow motor		
				QTY	RLA	LRA	FLA	Min Circuit Amps	Max Fuse/ HACR
GC024	1	208-230/60/1	197/253	1	11.7	58.3	2.8	17.4	25
GC036	1	208-230/60/1	197/253	1	15.3	83.0	6.8	25.9	40
GC048	1	208-230/60/1	197/253	1	21.2	104.0	6.8	33.2	50
GC060	1	208-230/60/1	197/253	1	27.1	152.9	9.1	43.0	70
GC072	1	208-230/60/1	197/253	1	29.7	179.2	9.1	46.2	70

ELECTRIC HEATER ELECTRICAL DATA

Heater Model	Nom. KW @ 208V / 240V	Circuit 1*		Circuit 2*	
		MCA	MOP	MCA	MOP
KWCEH0101B05	3.6 / 4.8	25.0 / 21.6	25 / 25	N/A	N/A
KWCEH0101B10	7.2 / 9.6	50.0 / 37.5	50 / 40	N/A	N/A
KWCEH0101B15	10.8 / 14.4	50.0 / 37.5	50 / 40	25.0 / 21.6	25 / 25
KWCEH0101B20	14.4 / 19.2	50.0 / 37.5	50 / 40	50.0 / 37.5	50 / 40

Note: Calculations are for Heater Only. For heat pump electrical information, refer to the Unit Electrical Data in this document.

ACCESSORIES

Factory Installed Options

- Cupro-nickel Coil - Recommended in conditions anticipating moderate scale formation or in brackish water.
- 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 Infinity Control (using V13.0 software or newer).
- Internal Electric Heat - Choices include 5, 10, 15, or 20 kilowatt back up or an emergency heater depending on the size of the geothermal heat pump.

AUXILIARY HEATER MATCH-UP

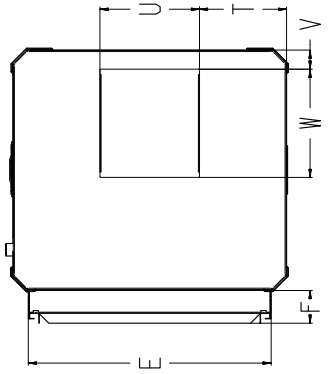
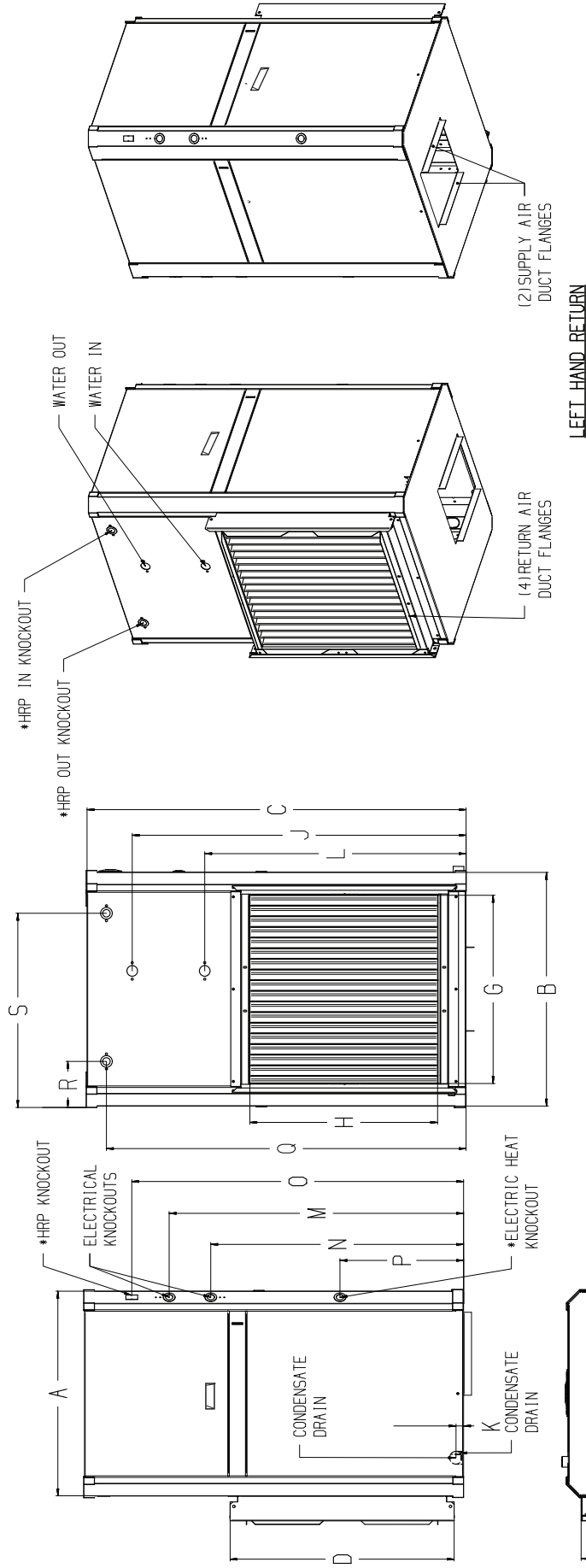
Heater Model	kW		Stages	Btu/h		Product Series Compatibility				
	208V	240V		208V	240V	GC024	GC036	GCT048	GC060	GC072
KWCEH0101B05	3.6	4.8	1	12300	16400	X	X	X	X	X
KWCEH0101B10	7.2	9.6	1	24600	32800	X	X	X	X	X
KWCEH0101B15	10.8	14.4	2	36900	49000		X	X	X	X
KWCEH0101B20	14.4	19.2	3	49200	65500			X	X	X

X = Compatible

NOTE: Auxiliary heat must be mounted externally on vertical units with side or back discharge and on horizontal units with side discharge.

DIMENSIONS - VERTICAL BOTTOM DISCHARGE (COUNTER FLOW)

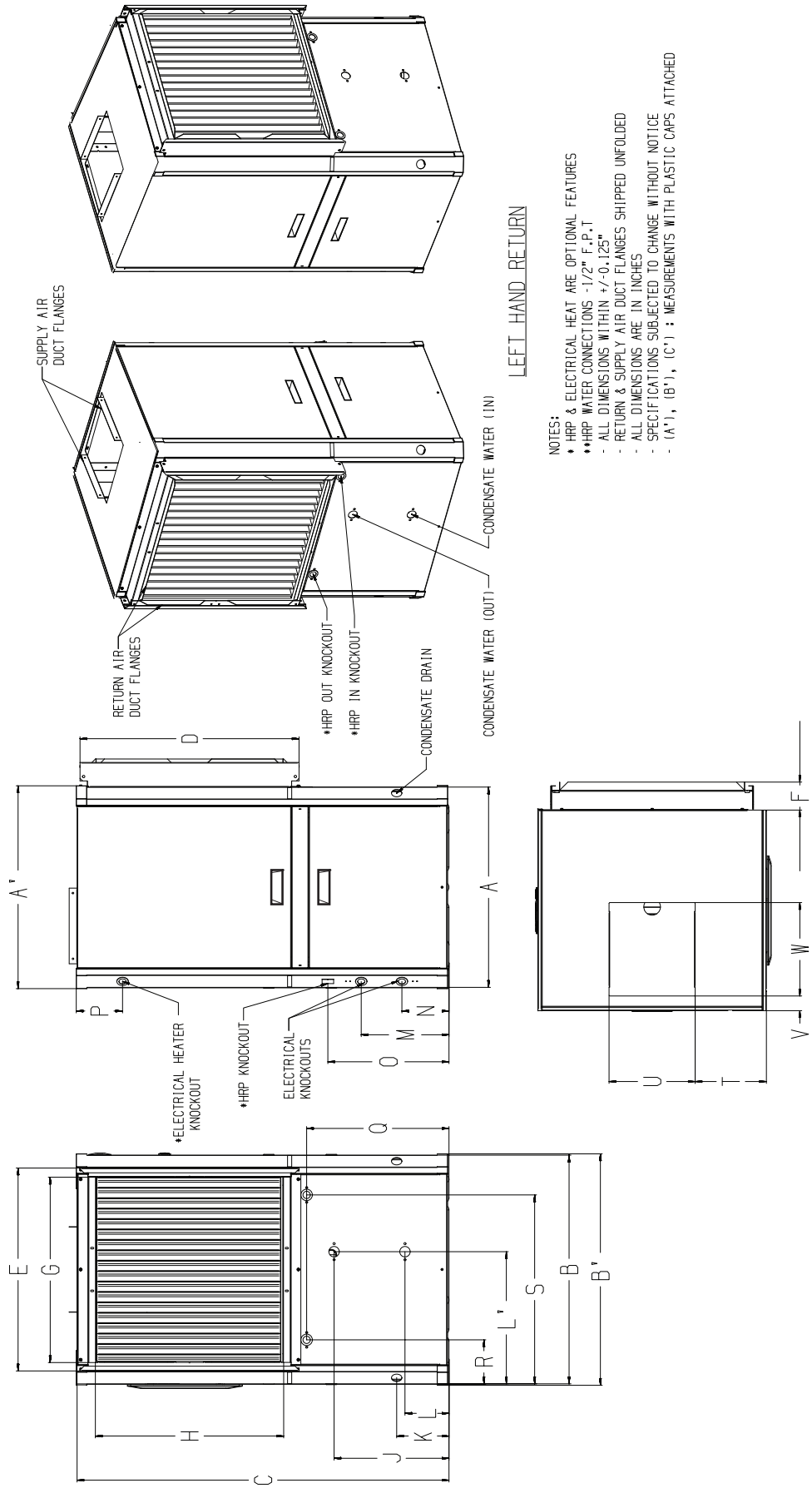
MODEL	A WIDTH	B DEPTH	C HEIGHT	D FILTER RACK		G RETURN AIR DUCT WIDTH	H RETURN AIR DUCT HEIGHT	J WATER OUT	K DRAIN PORT	L WATER IN	M ELECTRICAL KNOCKOUT	N HRP KNOCKOUT	O HEATER KNOCKOUT	P HRP CONNECTIONS**	Q HRP CONNECTIONS**	R HRP CONNECTIONS**	S HRP CONNECTIONS**	T SUPPLY AIR DUCT OPENING	U SUPPLY AIR DUCT OPENING	V SUPPLY AIR DUCT OPENING	W SUPPLY AIR DUCT OPENING	WATER CONNECTIONS	FILTER SIZE
				HEIGHT	DEPTH																		
GC024-CF	24.0	27.4	44.4	25.0	24.7	3.3	22.2	39.4	1.0	30.9	34.5	29.6	38.9	5.5	42.2	5.4	18.4	8.7	10.0	1.9	10.8	1" F.P.T.	24x24x2(1)
GC036-CF	25.8	33.4	52.4	33.0	30.8	3.3	28.2	44.8	1.0	38.8	42.5	37.6	46.9	5.5	50.1	5.1	26.5	10.8	11.7	1.9	13.0	1" F.P.T.	16x30x2(2)
GC048-CF	25.8	33.4	52.4	33.0	30.8	3.3	28.2	44.8	1.0	38.8	42.5	37.6	46.9	5.5	50.1	5.1	26.5	10.8	11.7	1.9	13.0	1" F.P.T.	16x30x2(2)
GC060-CF	27.0	33.4	61.8	41.0	30.8	3.3	28.3	38.6	0.8	45.3	51.9	47.0	56.3	14.5	59.6	5.5	28.2	9.6	14.2	1.9	13.0	1" F.P.T.	20x30x2(2)
GC072-CF	27.0	33.4	61.8	41.0	30.8	3.3	28.3	38.6	0.8	45.3	51.9	47.0	56.3	14.5	59.6	5.5	28.2	9.6	14.2	1.9	13.0	1" F.P.T.	20x30x2(2)



- NOTES**
- *HRP AND ELECTRIC HEAT ARE OPTIONAL FEATURES
 - **HRP WATER CONNECTIONS - 1/2" F.P.T.
 - ALL DIMENSIONS WITHIN +/- 0.125"
 - RETURN AIR & SUPPLY AIR DUCT FLANGES SHIPPED UNFOLDED
 - ALL DIMENSIONS ARE IN INCHES
 - SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

DIMENSIONS - TOP DISCHARGE

Model	A (A')		B (B')		C (C')		D		E		F		G		H		J		K		L		L'		M		N		O		P		Q		R		S		T		U		V		W		WATER CONNECTIONS		FILTER SIZE	
	WIDTH	DEPTH	HEIGHT	HEIGHT	WIDTH	DEPTH	WIDTH	HEIGHT	RETURN AIR DUCT WIDTH	RETURN AIR DUCT HEIGHT	WATER OUT	WATER IN	DRAIN PORT	WATER IN/OUT	ELECTRICAL KNOCKOUT	HRP KNOCKOUT	HEATER KNOCK OUT	HRP CONNECTIONS**	SUPPLY AIR DUCT OPENING	U	V	W	WATER CONNECTIONS	FILTER SIZE																										
GC024-VT	24.0 (24.3)	27.4 (27.7)	44.6 (44.7)	25.0	24.7	3.3	22.2	22.5	13.8	6.3	5.3	15.8	10.5	5.6	14.5	5.6	16.5	4.9	18.2	8.7	10.0	1.9	10.8	1" F.P.T	24x24x2(1)																									
GC036-VT	25.8 (26.1)	33.4 (33.7)	52.6 (52.7)	33.0	30.8	3.3	28.2	30.5	11.3	6.3	5.3	19.3	10.5	5.6	14.5	5.6	16.9	5.6	28.5	10.8	11.7	1.9	13.0	1" F.P.T	16x30x2(2)																									
GC048-VT	25.8 (26.1)	33.4 (33.7)	52.6 (52.7)	33.0	30.8	3.3	28.2	30.5	11.3	6.3	5.3	19.3	10.5	5.6	14.5	5.6	16.9	5.6	28.5	10.8	11.7	1.9	13.0	1" F.P.T	16x30x2(2)																									
GC060-VT	27.0 (27.3)	33.4 (33.7)	62.0 (62.1)	41.0	30.8	3.3	28.3	38.6	12.0	6.3	5.9	17.0	10.5	5.6	14.5	5.6	18.3	4.7	27.8	9.6	14.2	1.9	13.0	1" F.P.T	20x30x2(2)																									
GC072-VT	27.0 (27.3)	33.4 (33.7)	62.0 (62.1)	41.0	30.8	3.3	28.3	38.6	12.0	6.3	5.9	17.0	10.5	5.6	14.5	5.6	18.3	4.7	27.8	9.6	14.2	1.9	13.0	1" F.P.T	20x30x2(2)																									

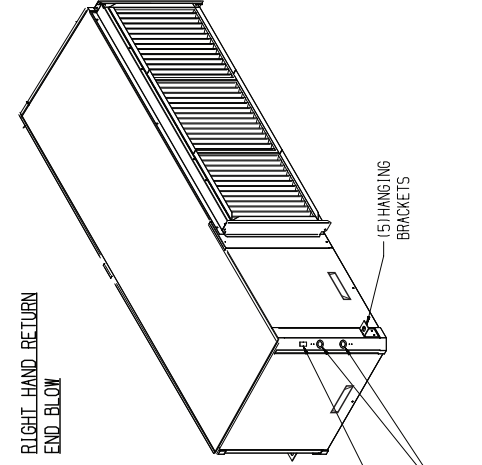
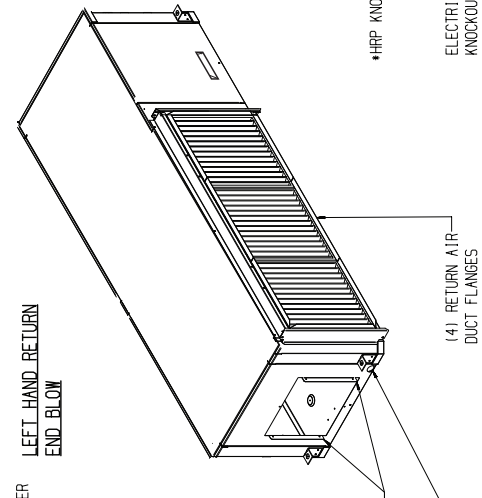
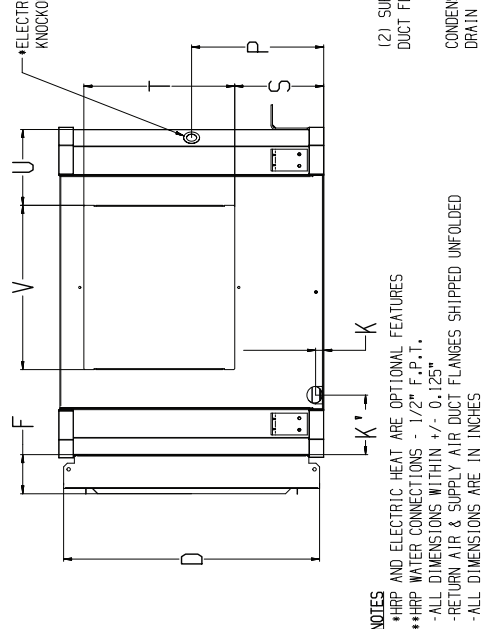
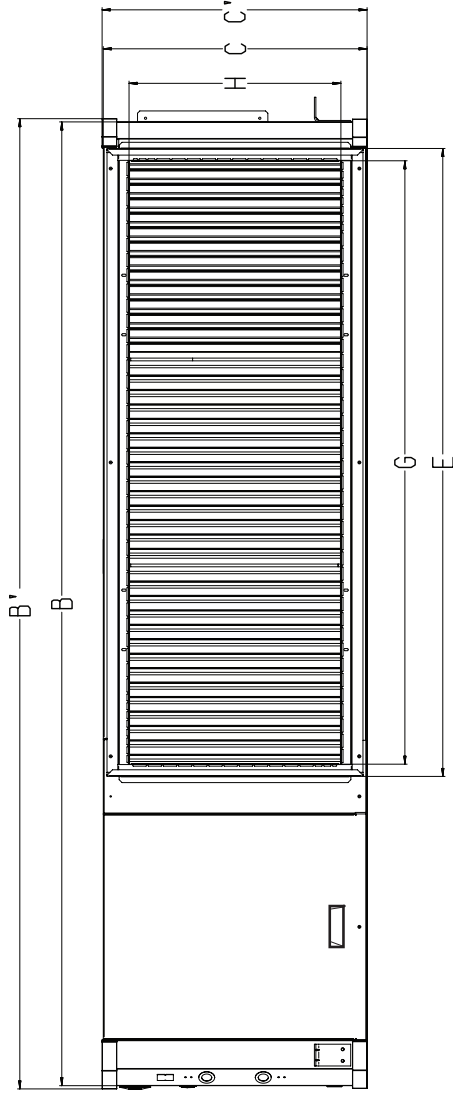
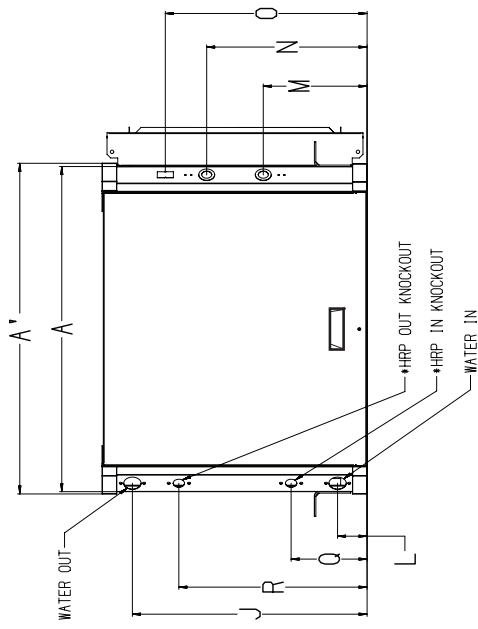


LEFT HAND RETURN

- NOTES:
- HRP & ELECTRICAL HEAT ARE OPTIONAL FEATURES
 - HRP WATER CONNECTIONS - 1/2" F.P.T
 - ALL DIMENSIONS WITHIN +/-0.125"
 - RETURN & SUPPLY AIR DUCT FLANGES SHIPPED UNFOLDED
 - ALL DIMENSIONS ARE IN INCHES
 - SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 - (A'), (B'), (C') : MEASUREMENTS WITH PLASTIC CAPS ATTACHED

DIMENSIONS - HORIZONTAL END DISCHARGE

Model	A (A')		B (B')		C (C')		D		E		F		G		H		J		K		L		M		N		O		P		R		S		T		U		V		FILTER SIZE
	WIDTH	DEPTH	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	WIDTH	DEPTH	DEPTH	DEPTH	WIDTH	WIDTH	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	HEIGHT	
GC024-HZ	25.1 (25.5)	64.1 (64.5)	19.7 (19.82)	18.7	36.4	3.4	34.0	16.2	17.2	1.3	15.1	2.5	7.4	12.3	15.9	9.9	6.5	13.2	6.5	2.0	10.0	7.5	7.5	10.8	18X18X2 (2)																
GC036-HZ	28.0 (28.4)	76.0 (76.4)	22.7 (22.82)	20.7	48.4	3.4	46.0	18.2	20.2	1.3	15.1	2.5	8.9	13.8	17.4	11.4	6.5	16.2	7.5	2.0	11.7	9.0	7.7	13.0	20X24X2 (2)																
GC048-HZ	28.0 (28.4)	76.0 (76.4)	22.7 (22.82)	20.7	48.4	3.4	46.0	18.2	20.2	1.3	15.1	2.5	8.9	13.8	17.4	11.4	6.5	16.2	7.5	2.0	11.7	9.0	7.7	13.0	20X24X2 (2)																
GC060-HZ	28.0 (28.4)	83.0 (83.4)	22.7 (22.82)	20.7	54.4	3.4	52.0	18.3	20.2	1.3	15.1	2.5	8.9	13.8	17.4	11.4	6.5	16.2	7.5	2.0	14.2	6.5	6.5	13.0	18X20X2 (3)																
GC072-HZ	28.0 (28.4)	83.0 (83.4)	22.7 (22.82)	20.7	54.4	3.4	52.0	18.3	20.2	1.3	15.1	2.5	8.9	13.8	17.4	11.4	6.5	16.2	7.5	2.0	14.2	6.5	6.5	13.0	18X20X2 (3)																



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 - ALL DIMENSIONS ARE IN INCHES
 - SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 - (A, A'), (B, B'), (C, C') - MEASUREMENT WITH PLASTIC CAPS ATTACHED
 - ADD 0.5" TO THE HEIGHT ON SM036 TO SM070 FOR BASE SUPPORT RAILS (NOT SHOWN)
 - UNITS CAN BE FIELD CONVERTED BETWEEN END BLOW AND STRAIGHT THROUGH SUPPLY AIR CONFIGURATIONS

SUPPLY AIR CONFIGURATION: END BLOW

GC024 HEATING PERFORMANCE - PART LOAD

GC024 Heating performance – PART LOAD @ 650CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	3	1.9	0.8	60	12.8	9.7	1.01	3.7
				70	12.4	8.9	1.13	3.2
				80	12.1	8.1	1.26	2.8
	4	3.2	1.4	60	13.2	10.0	1.01	3.8
				70	12.7	9.2	1.13	3.3
				80	12.3	8.4	1.26	2.9
	6	6.6	2.9	60	13.6	10.4	1.02	3.9
				70	13.1	9.5	1.14	3.4
				80	12.7	8.7	1.27	2.9
40	3	1.8	0.8	60	14.8	11.6	1.03	4.2
				70	14.4	10.8	1.15	3.7
				80	14.0	9.9	1.28	3.2
	4	3.1	1.3	60	15.3	12.0	1.03	4.4
				70	14.9	11.1	1.15	3.8
				80	14.3	10.3	1.28	3.3
	6	6.4	2.8	60	15.7	12.5	1.03	4.5
				70	15.3	11.5	1.15	3.9
				80	14.7	10.7	1.29	3.4
50	3	1.8	0.8	60	16.9	13.7	1.04	4.8
				70	16.4	12.7	1.16	4.2
				80	16.0	11.9	1.29	3.6
	4	3	1.3	60	17.5	14.2	1.04	5.0
				70	16.9	13.2	1.16	4.3
				80	16.5	12.3	1.30	3.7
	6	6.1	2.6	60	18.0	14.7	1.04	5.1
				70	17.4	13.7	1.16	4.4
				80	17.0	12.8	1.30	3.8
60	3	1.7	0.7	60	19.1	15.8	1.04	5.4
				70	18.5	14.8	1.17	4.7
				80	18.1	13.9	1.31	4.1
	4	2.9	1.3	60	19.7	16.4	1.04	5.6
				70	19.1	15.4	1.17	4.8
				80	18.6	14.4	1.31	4.2
	6	5.9	2.6	60	20.4	17.1	1.04	5.8
				70	19.7	16.0	1.17	5.0
				80	19.1	14.9	1.31	4.3
70	3	1.6	0.7	60	21.3	18.0	1.04	6.0
				70	20.7	17.0	1.17	5.2
				80	20.1	15.9	1.32	4.5
	4	2.8	1.2	60	22.0	18.7	1.04	6.2
				70	21.3	17.6	1.17	5.3
				80	20.7	16.5	1.32	4.6
	6	5.7	2.5	60	22.8	19.5	1.04	6.4
				70	22.0	18.3	1.17	5.5
				80	21.4	17.1	1.32	4.7
80	3	1.6	0.7	60	23.5	20.3	1.04	6.7
				70	22.9	19.2	1.17	5.8
				80	22.3	18.0	1.32	4.9
	4	2.7	1.2	60	24.4	21.1	1.03	6.9
				70	23.6	19.9	1.17	5.9
				80	22.9	18.7	1.32	5.1
	6	5.5	2.4	60	25.2	22.1	1.03	7.2
				70	24.4	20.8	1.16	6.2
				80	23.7	19.5	1.32	5.3

GC024 HEATING PERFORMANCE - FULL LOAD

GC024 Heating performance – Full Load @ 825CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	3	1.9	0.8	60	18.1	13.6	1.38	3.8
				70	17.7	12.7	1.52	3.4
				80	17.4	11.8	1.67	3.0
	4	3.2	1.4	60	18.7	14.1	1.39	3.9
				70	18.2	13.2	1.53	3.5
				80	17.9	12.2	1.68	3.1
	6	6.6	2.9	60	19.4	14.7	1.41	4.0
				70	18.8	13.8	1.54	3.6
				80	18.4	12.7	1.69	3.2
40	3	1.8	0.8	60	20.5	15.8	1.43	4.2
				70	20.0	14.8	1.57	3.7
				80	19.6	13.9	1.72	3.3
	4	3.1	1.3	60	21.2	16.5	1.44	4.3
				70	20.7	15.5	1.58	3.8
				80	20.2	14.5	1.74	3.4
	6	6.4	2.8	60	22.1	17.3	1.46	4.4
				70	21.5	16.2	1.60	3.9
				80	20.9	15.2	1.75	3.5
50	3	1.8	0.8	60	23.1	18.2	1.48	4.6
				70	22.6	17.2	1.62	4.1
				80	22.2	16.2	1.78	3.6
	4	3	1.3	60	24.0	19.1	1.50	4.7
				70	23.4	18.0	1.64	4.2
				80	23.0	16.8	1.80	3.7
	6	6.1	2.6	60	25.1	20.0	1.52	4.8
				70	24.4	18.9	1.66	4.3
				80	23.8	17.7	1.82	3.8
60	3	1.7	0.7	60	25.9	20.8	1.54	4.9
				70	25.3	19.8	1.68	4.4
				80	24.9	18.6	1.84	4.0
	4	2.9	1.3	60	27.0	21.9	1.56	5.1
				70	26.3	20.8	1.70	4.5
				80	25.8	19.5	1.85	4.1
	6	5.9	2.6	60	28.2	23.1	1.58	5.2
				70	27.5	21.8	1.72	4.7
				80	26.8	20.5	1.87	4.2
70	3	1.6	0.7	60	28.9	23.6	1.59	5.3
				70	28.2	22.5	1.73	4.8
				80	27.6	21.3	1.89	4.3
	4	2.8	1.2	60	30.1	24.8	1.61	5.5
				70	29.4	23.7	1.75	4.9
				80	28.7	22.3	1.91	4.4
	6	5.7	2.5	60	31.6	26.2	1.63	5.7
				70	30.7	24.9	1.78	5.1
				80	29.9	23.4	1.93	4.5
80	3	1.6	0.7	60	31.9	26.5	1.64	5.7
				70	31.1	25.3	1.78	5.1
				80	30.5	24.0	1.94	4.6
	4	2.7	1.2	60	33.4	27.9	1.66	5.9
				70	32.5	26.6	1.81	5.3
				80	31.7	25.1	1.97	4.7
	6	5.5	2.4	60	35.0	29.5	1.69	6.1
				70	34.0	28.0	1.83	5.4
				80	33.1	26.4	2.00	4.9

GC024 COOLING PERFORMANCE - PART LOAD

GC024 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 Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	3	1.7	0.7	75/63	20.0	15.8	22.5	0.77	25.8
				80/67	21.3	16.3	23.8	0.76	27.8
				85/71	22.7	16.7	25.1	0.76	30.0
	4	2.9	1.3	75/63	20.4	16.0	22.8	0.74	27.4
				80/67	21.8	16.5	24.1	0.73	29.7
				85/71	23.1	16.9	25.5	0.72	31.9
	6	5.9	2.6	75/63	20.8	16.1	23.1	0.71	29.1
				80/67	22.2	16.7	24.5	0.70	31.5
				85/71	23.7	17.1	26.0	0.69	34.2
60	3	1.6	0.7	75/63	19.0	15.4	21.7	0.86	22.1
				80/67	20.3	15.9	22.9	0.85	23.9
				85/71	21.5	16.3	24.2	0.84	25.5
	4	2.8	1.2	75/63	19.4	15.6	22.0	0.82	23.5
				80/67	20.7	16.1	23.3	0.81	25.4
				85/71	22.0	16.5	24.6	0.80	27.3
	6	5.7	2.5	75/63	19.8	15.7	22.3	0.79	24.9
				80/67	21.1	16.2	23.6	0.78	27.0
				85/71	22.5	16.7	25.0	0.77	29.3
70	3	1.6	0.7	75/63	18.0	15.0	21.0	0.96	18.7
				80/67	19.2	15.5	22.2	0.95	20.1
				85/71	20.4	16.0	23.4	0.94	21.6
	4	2.7	1.2	75/63	18.3	15.1	21.2	0.92	19.8
				80/67	19.6	15.6	22.4	0.91	21.4
				85/71	20.8	16.1	23.7	0.90	23.0
	6	5.5	2.4	75/63	18.7	15.3	21.5	0.89	21.0
				80/67	20.0	15.8	22.8	0.87	22.8
				85/71	21.3	16.3	24.0	0.86	24.7
80	3	1.5	0.7	75/63	17.0	14.5	20.2	1.08	15.8
				80/67	18.1	15.1	21.4	1.07	16.9
				85/71	19.2	15.6	22.5	1.06	18.1
	4	2.6	1.1	75/63	17.3	14.7	20.5	1.04	16.6
				80/67	18.4	15.2	21.6	1.03	17.9
				85/71	19.6	15.7	22.8	1.02	19.2
	6	5.4	2.3	75/63	17.6	14.8	20.7	1.00	17.6
				80/67	18.9	15.3	21.9	0.99	19.1
				85/71	20.1	15.9	23.1	0.97	20.6
85	3	1.5	0.7	75/63	16.4	14.3	19.9	1.14	14.3
				80/67	17.5	14.8	21.0	1.14	15.4
				85/71	18.7	15.3	22.2	1.13	16.5
	4	2.5	1.1	75/63	16.7	14.4	20.1	1.10	15.1
				80/67	17.9	15.0	21.2	1.09	16.3
				85/71	19.1	15.5	22.4	1.08	17.6
	6	5.3	2.3	75/63	17.1	14.6	20.3	1.06	16.1
				80/67	18.2	15.1	21.5	1.05	17.3
				85/71	19.5	15.7	22.7	1.04	18.8
90	3	1.5	0.7	75/63	15.9	14.1	19.5	1.21	13.1
				80/67	17.0	14.6	20.6	1.21	14.1
				85/71	18.0	15.2	21.7	1.20	15.0
	4	2.5	1.1	75/63	16.2	14.2	19.7	1.17	13.8
				80/67	17.3	14.7	20.9	1.16	14.9
				85/71	18.5	15.2	22.0	1.15	16.0
	6	5.2	2.3	75/63	16.5	14.3	19.9	1.13	14.6
				80/67	17.7	14.9	21.1	1.12	15.8
				85/71	18.9	15.4	22.3	1.11	17.1
100	3	1.4	0.6	75/63	14.8	13.6	18.9	1.36	10.8
				80/67	15.8	14.2	19.9	1.36	11.6
				85/71	16.8	14.8	21.0	1.35	12.4
	4	2.4	1.0	75/63	15.1	13.7	19.0	1.32	11.4
				80/67	16.1	14.3	20.1	1.31	12.2
				85/71	17.2	14.9	21.2	1.31	13.1
	6	5	2.2	75/63	15.3	13.9	19.2	1.28	11.9
				80/67	16.5	14.4	20.3	1.27	13.0
				85/71	17.6	15.0	21.5	1.26	14.0
110	3	1.4	0.6	75/63	13.7	13.2	18.3	1.53	8.9
				80/67	14.6	13.8	19.2	1.53	9.5
				85/71	15.6	14.3	20.3	1.53	10.2
	4	2.4	1.0	75/63	13.9	13.3	18.4	1.49	9.3
				80/67	14.9	13.9	19.4	1.48	10.0
				85/71	15.9	14.5	20.4	1.48	10.7
	6	4.9	2.1	75/63	14.2	13.4	18.5	1.45	9.8
				80/67	15.2	14.0	19.6	1.44	10.5
				85/71	16.3	14.5	20.7	1.43	11.4

GC024 COOLING PERFORMANCE - FULL LOAD

GC024 Cooling performance – Full Load @ 825CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Cooling					
				Ent. Air db/wb, °F	Total Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	3	1.7	0.7	75/63	27.1	20.7	31.3	1.27	21.4
				80/67	28.8	21.2	33.1	1.29	22.4
				85/71	30.5	21.8	34.9	1.30	23.4
	4	2.9	1.3	75/63	27.8	21.0	31.8	1.21	23.1
				80/67	29.5	21.6	33.6	1.22	24.2
				85/71	31.4	22.1	35.6	1.24	25.4
	6	5.9	2.6	75/63	28.5	21.3	32.3	1.14	25.1
				80/67	30.3	21.9	34.2	1.15	26.3
				85/71	32.3	22.4	36.2	1.16	27.8
60	3	1.6	0.7	75/63	25.9	20.1	30.4	1.38	18.8
				80/67	27.5	20.8	32.0	1.40	19.7
				85/71	29.2	21.3	33.9	1.42	20.7
	4	2.8	1.2	75/63	26.5	20.4	30.9	1.32	20.1
				80/67	28.2	21.0	32.6	1.34	21.1
				85/71	30.0	21.6	34.5	1.35	22.2
	6	5.7	2.5	75/63	27.2	20.7	31.3	1.26	21.6
				80/67	29.0	21.3	33.2	1.27	22.8
				85/71	30.9	21.9	35.1	1.28	24.1
70	3	1.6	0.7	75/63	24.6	19.6	29.4	1.50	16.5
				80/67	26.2	20.2	31.1	1.52	17.3
				85/71	27.8	20.8	32.7	1.53	18.2
	4	2.7	1.2	75/63	25.2	19.9	29.9	1.44	17.6
				80/67	26.8	20.5	31.6	1.46	18.4
				85/71	28.6	21.0	33.4	1.47	19.5
	6	5.5	2.4	75/63	25.9	20.1	30.4	1.38	18.8
				80/67	27.5	20.8	32.1	1.39	19.8
				85/71	29.3	21.4	33.9	1.40	20.9
80	3	1.5	0.7	75/63	23.3	19.1	28.5	1.63	14.4
				80/67	24.8	19.7	30.1	1.65	15.1
				85/71	26.3	20.2	31.7	1.66	15.9
	4	2.6	1.1	75/63	23.9	19.3	28.9	1.57	15.3
				80/67	25.4	19.9	30.5	1.58	16.1
				85/71	27.1	20.5	32.3	1.60	17.0
	6	5.4	2.3	75/63	24.5	19.5	29.4	1.51	16.3
				80/67	26.1	20.2	31.0	1.52	17.2
				85/71	27.8	20.8	32.8	1.53	18.2
85	3	1.5	0.7	75/63	22.7	18.8	28.1	1.70	13.4
				80/67	24.1	19.4	29.6	1.72	14.1
				85/71	25.6	20.1	31.1	1.73	14.8
	4	2.5	1.1	75/63	23.2	19.1	28.4	1.64	14.2
				80/67	24.7	19.6	30.0	1.65	15.0
				85/71	26.3	20.2	31.7	1.67	15.8
	6	5.3	2.3	75/63	23.8	19.3	28.9	1.57	15.2
				80/67	25.4	19.9	30.5	1.59	16.0
				85/71	27.1	20.5	32.3	1.60	17.0
90	3	1.5	0.7	75/63	22.0	18.6	27.6	1.77	12.4
				80/67	23.4	19.1	29.1	1.79	13.1
				85/71	24.9	19.7	30.7	1.81	13.8
	4	2.5	1.1	75/63	22.6	18.7	28.0	1.71	13.2
				80/67	24.0	19.4	29.5	1.73	13.9
				85/71	25.5	20.0	31.1	1.74	14.7
	6	5.2	2.3	75/63	23.1	19.0	28.3	1.65	14.1
				80/67	24.6	19.6	30.0	1.66	14.8
				85/71	26.3	20.2	31.7	1.67	15.8
100	3	1.4	0.6	75/63	20.6	18.0	26.8	1.94	10.6
				80/67	22.0	18.7	28.2	1.96	11.3
				85/71	23.4	19.3	29.7	1.97	11.9
	4	2.4	1.0	75/63	21.1	18.2	27.1	1.88	11.3
				80/67	22.5	18.9	28.6	1.89	11.9
				85/71	24.0	19.5	30.1	1.90	12.7
	6	5	2.2	75/63	21.7	18.4	27.4	1.81	12.0
				80/67	23.2	19.0	29.0	1.82	12.8
				85/71	24.6	19.7	30.5	1.83	13.5
110	3	1.4	0.6	75/63	19.3	17.5	26.0	2.14	9.1
				80/67	20.6	18.2	27.4	2.15	9.6
				85/71	22.0	18.7	28.9	2.17	10.2
	4	2.4	1.0	75/63	19.8	17.7	26.3	2.07	9.6
				80/67	21.1	18.3	27.7	2.08	10.2
				85/71	22.5	19.0	29.2	2.09	10.8
	6	4.9	2.1	75/63	20.2	17.9	26.5	2.00	10.1
				80/67	21.7	18.5	28.1	2.00	10.9
				85/71	23.2	19.1	29.6	2.01	11.6

GC036 HEATING PERFORMANCE - PART LOAD

GC036 Heating performance – PART LOAD @ 800CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	4.5	3.5	1.5	60	18.4	13.6	1.46	3.7
				70	18.0	12.6	1.65	3.2
				80	17.7	11.5	1.86	2.8
	6	6	2.6	60	18.9	14.0	1.47	3.8
				70	18.4	12.9	1.65	3.3
				80	18.0	11.7	1.87	2.8
	9	12.4	5.4	60	19.3	14.5	1.47	3.8
				70	18.9	13.4	1.65	3.3
				80	18.3	12.4	1.87	2.9
40	4.5	3.4	1.5	60	21.3	16.4	1.48	4.2
				70	20.8	15.3	1.67	3.7
				80	20.4	14.1	1.88	3.2
	6	5.7	2.5	60	21.9	17.0	1.49	4.3
				70	21.3	15.8	1.67	3.7
				80	20.8	14.6	1.89	3.2
	9	11.9	5.2	60	22.5	17.6	1.49	4.4
				70	21.9	16.3	1.68	3.8
				80	21.4	15.1	1.89	3.3
50	4.5	3.3	1.4	60	24.4	19.5	1.50	4.8
				70	23.8	18.2	1.69	4.1
				80	23.4	17.0	1.91	3.6
	6	5.5	2.4	60	25.1	20.2	1.51	4.9
				70	24.4	18.8	1.70	4.2
				80	23.9	17.5	1.92	3.6
	9	11.5	5.0	60	25.9	20.9	1.51	5.0
				70	25.1	19.5	1.70	4.3
				80	24.6	18.1	1.92	3.7
60	4.5	3.2	1.4	60	27.6	22.6	1.52	5.3
				70	26.9	21.2	1.72	4.6
				80	26.4	19.8	1.94	4.0
	6	5.4	2.3	60	28.5	23.5	1.52	5.5
				70	27.7	22.0	1.72	4.7
				80	27.0	20.5	1.95	4.0
	9	11.1	4.8	60	29.4	24.4	1.53	5.6
				70	28.5	22.8	1.73	4.8
				80	27.8	21.3	1.96	4.2
70	4.5	3.1	1.3	60	30.9	25.9	1.54	5.9
				70	30.0	24.3	1.74	5.0
				80	29.6	22.6	1.98	4.4
	6	5.2	2.3	60	31.9	26.9	1.54	6.1
				70	31.0	25.3	1.75	5.2
				80	30.3	23.6	1.99	4.5
	9	10.7	4.6	60	33.0	28.0	1.55	6.3
				70	32.0	26.3	1.76	5.3
				80	31.2	24.4	2.00	4.6
80	4.5	3	1.3	60	34.2	29.0	1.55	6.5
				70	33.2	27.6	1.77	5.5
				80	32.8	25.8	2.02	4.8
	6	5	2.2	60	35.4	30.5	1.56	6.7
				70	34.4	28.6	1.78	5.7
				80	33.8	27.1	2.03	4.9
	9	10.4	4.5	60	36.7	31.8	1.56	6.9
				70	35.6	29.9	1.79	5.8
				80	34.7	27.7	2.04	5.0

GC036 HEATING PERFORMANCE - FULL LOAD

GC036 Heating performance – Full Load @ 1100CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	4.5	3.5	1.5	60	26.0	19.5	1.93	3.9
				70	25.6	18.4	2.15	3.5
				80	25.4	17.2	2.40	3.1
	6	6	2.6	60	26.8	20.3	1.95	4.0
				70	26.4	19.1	2.17	3.6
				80	26.1	17.9	2.42	3.2
	9	12.4	5.4	60	27.8	21.2	1.97	4.1
				70	27.2	19.9	2.19	3.6
				80	26.8	18.6	2.43	3.2
40	4.5	3.4	1.5	60	29.7	22.9	2.01	4.3
				70	29.2	21.7	2.23	3.8
				80	28.7	20.4	2.48	3.4
	6	5.7	2.5	60	30.7	23.9	2.03	4.4
				70	30.1	22.5	2.25	3.9
				80	29.6	21.2	2.50	3.5
	9	11.9	5.2	60	31.9	25.0	2.05	4.6
				70	31.2	23.5	2.28	4.0
				80	30.5	22.0	2.52	3.5
50	4.5	3.3	1.4	60	33.6	26.6	2.09	4.7
				70	33.0	25.2	2.32	4.2
				80	32.5	23.7	2.57	3.7
	6	5.5	2.4	60	34.9	27.8	2.12	4.8
				70	34.2	26.3	2.34	4.3
				80	33.6	24.7	2.59	3.8
	9	11.5	5.0	60	36.3	29.1	2.15	4.9
				70	35.5	27.5	2.37	4.4
				80	34.8	25.9	2.62	3.9
60	4.5	3.2	1.4	60	37.8	30.5	2.18	5.1
				70	37.0	28.9	2.40	4.5
				80	36.4	27.4	2.65	4.0
	6	5.4	2.3	60	39.4	31.9	2.21	5.2
				70	38.4	30.2	2.43	4.6
				80	37.7	28.5	2.68	4.1
	9	11.1	4.8	60	41.1	33.5	2.25	5.4
				70	40.0	31.7	2.47	4.8
				80	39.1	29.8	2.71	4.2
70	4.5	3.1	1.3	60	42.2	34.6	2.27	5.4
				70	41.3	32.9	2.49	4.9
				80	40.5	31.1	2.75	4.3
	6	5.2	2.3	60	44.0	36.3	2.31	5.6
				70	42.9	34.4	2.53	5.0
				80	41.9	32.5	2.78	4.4
	9	10.7	4.6	60	46.0	38.1	2.36	5.7
				70	44.7	36.1	2.57	5.1
				80	43.6	34.0	2.82	4.5
80	4.5	3	1.3	60	46.7	38.8	2.37	5.8
				70	45.7	36.9	2.59	5.2
				80	44.7	35.0	2.85	4.6
	6	5	2.2	60	48.8	40.7	2.42	5.9
				70	47.5	38.7	2.64	5.3
				80	46.4	36.6	2.89	4.7
	9	10.4	4.5	60	51.1	42.8	2.48	6.0
				70	49.6	40.6	2.69	5.4
				80	48.3	38.4	2.94	4.8

GC036 COOLING PERFORMANCE - PART LOAD

GC036 Cooling performance – PART LOAD @ 800 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Cooling					
				Ent. Air db/wb, °F	Total Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	4.5	3.2	1.4	75/63	29.9	21.8	33.2	1.01	29.6
				80/67	32.0	22.5	35.3	1.00	32.1
				85/71	34.2	23.0	37.4	0.98	34.9
	6	5.4	2.3	75/63	30.4	22.0	33.6	0.99	30.9
				80/67	32.5	22.7	35.7	0.97	33.6
				85/71	34.8	23.2	37.9	0.95	36.7
	9	11.1	4.8	75/63	30.8	22.2	34.0	0.96	32.0
				80/67	33.1	22.9	36.2	0.94	35.1
				85/71	35.4	23.5	38.5	0.92	38.5
60	4.5	3.1	1.3	75/63	28.5	21.2	32.1	1.11	25.7
				80/67	30.5	21.9	34.1	1.10	27.9
				85/71	32.7	22.4	36.2	1.08	30.3
	6	5.2	2.3	75/63	29.0	21.4	32.5	1.07	27.0
				80/67	31.0	22.1	34.5	1.06	29.3
				85/71	33.3	22.6	36.7	1.04	32.0
	9	10.7	4.6	75/63	29.4	21.6	32.8	1.04	28.2
				80/67	31.6	22.3	34.9	1.02	30.9
				85/71	33.8	22.9	37.2	1.00	33.7
70	4.5	3	1.3	75/63	27.1	20.6	31.0	1.24	22.0
				80/67	29.1	21.2	33.0	1.23	23.8
				85/71	31.1	21.9	35.0	1.21	25.7
	6	5	2.2	75/63	27.5	20.8	31.3	1.19	23.0
				80/67	29.6	21.4	33.4	1.18	25.1
				85/71	31.6	22.1	35.4	1.16	27.2
	9	10.4	4.5	75/63	27.9	21.0	31.6	1.16	24.2
				80/67	30.0	21.6	33.7	1.14	26.4
				85/71	32.2	22.2	35.9	1.12	28.8
80	4.5	2.9	1.3	75/63	25.7	19.9	30.1	1.39	18.5
				80/67	27.5	20.6	31.9	1.38	19.9
				85/71	29.5	21.3	33.9	1.38	21.5
	6	4.8	2.1	75/63	26.1	20.1	30.3	1.35	19.4
				80/67	28.0	20.8	32.2	1.33	21.0
				85/71	30.0	21.4	34.3	1.32	22.7
	9	10.1	4.4	75/63	26.4	20.3	30.6	1.30	20.3
				80/67	28.5	20.9	32.6	1.29	22.2
				85/71	30.5	21.6	34.6	1.27	24.1
85	4.5	2.8	1.2	75/63	24.9	19.6	29.6	1.48	16.8
				80/67	26.8	20.3	31.5	1.48	18.2
				85/71	28.7	20.9	33.4	1.47	19.6
	6	4.8	2.1	75/63	25.3	19.8	29.8	1.43	17.7
				80/67	27.2	20.5	31.7	1.42	19.1
				85/71	29.1	21.2	33.7	1.41	20.7
	9	9.9	4.3	75/63	25.7	19.9	30.1	1.39	18.5
				80/67	27.6	20.7	32.0	1.37	20.1
				85/71	29.7	21.3	34.0	1.36	21.9
90	4.5	2.8	1.2	75/63	24.2	19.3	29.1	1.58	15.3
				80/67	25.9	20.0	30.9	1.57	16.5
				85/71	27.8	20.7	32.8	1.57	17.8
	6	4.7	2.0	75/63	24.5	19.5	29.3	1.53	16.0
				80/67	26.4	20.1	31.2	1.52	17.4
				85/71	28.3	20.8	33.2	1.51	18.8
	9	9.7	4.2	75/63	24.9	19.5	29.6	1.49	16.7
				80/67	26.8	20.3	31.5	1.47	18.3
				85/71	28.8	21.0	33.4	1.45	19.9
100	4.5	2.7	1.2	75/63	22.7	18.7	28.3	1.80	12.6
				80/67	24.4	19.4	30.0	1.79	13.6
				85/71	26.1	20.1	31.8	1.79	14.6
	6	4.6	2.0	75/63	23.0	18.9	28.5	1.75	13.2
				80/67	24.8	19.6	30.2	1.74	14.3
				85/71	26.6	20.2	32.1	1.73	15.4
	9	9.5	4.1	75/63	23.3	18.9	28.6	1.71	13.6
				80/67	25.1	19.7	30.4	1.68	14.9
				85/71	27.1	20.3	32.4	1.67	16.3
110	4.5	2.6	1.1	75/63	21.1	18.1	27.5	2.05	10.3
				80/67	22.8	18.8	29.2	2.04	11.2
				85/71	24.5	19.5	30.9	2.04	12.0
	6	4.4	1.9	75/63	21.4	18.2	27.7	1.99	10.7
				80/67	23.1	18.9	29.4	1.98	11.7
				85/71	24.9	19.6	31.1	1.97	12.6
	9	9.2	4.0	75/63	21.7	18.3	27.8	1.95	11.1
				80/67	23.4	19.0	29.5	1.94	12.1
				85/71	25.2	19.8	31.2	1.92	13.2

GC036 COOLING PERFORMANCE - FULL LOAD

GC036 Cooling performance - Full Load @ 1100 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Cooling					
				Ent. Air db/wb, °F	Total Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	4.5	3.2	1.4	75/63	40.8	29.9	46.4	1.69	24.1
				80/67	43.5	30.6	49.2	1.74	25.1
				85/71	46.3	31.4	52.2	1.78	26.1
	6	5.4	2.3	75/63	41.6	30.2	47.0	1.64	25.4
				80/67	44.4	31.0	49.9	1.69	26.4
				85/71	47.3	31.7	53.0	1.73	27.4
	9	11.1	4.8	75/63	42.3	30.5	47.6	1.60	26.5
				80/67	45.2	31.4	50.7	1.64	27.6
				85/71	48.3	32.1	53.9	1.69	28.7
60	4.5	3.1	1.3	75/63	39.2	29.1	45.1	1.82	21.6
				80/67	41.7	30.0	47.8	1.86	22.5
				85/71	44.5	30.6	50.7	1.89	23.5
	6	5.2	2.3	75/63	39.9	29.4	45.7	1.76	22.7
				80/67	42.6	30.3	48.5	1.80	23.7
				85/71	45.4	31.0	51.4	1.83	24.8
	9	10.7	4.6	75/63	40.7	29.8	46.2	1.71	23.9
				80/67	43.4	30.5	49.2	1.74	24.9
				85/71	46.3	31.4	52.2	1.78	26.1
70	4.5	3	1.3	75/63	37.5	28.4	43.9	1.98	19.0
				80/67	39.9	29.2	46.5	2.01	19.9
				85/71	42.6	29.9	49.3	2.04	20.9
	6	5	2.2	75/63	38.1	28.7	44.3	1.91	20.0
				80/67	40.8	29.5	47.1	1.94	21.1
				85/71	43.4	30.3	49.9	1.97	22.1
	9	10.4	4.5	75/63	38.8	29.0	44.8	1.85	21.0
				80/67	41.5	29.8	47.7	1.87	22.2
				85/71	44.3	30.7	50.6	1.90	23.3
80	4.5	2.9	1.3	75/63	35.7	27.6	42.6	2.16	16.5
				80/67	38.1	28.4	45.2	2.19	17.4
				85/71	40.6	29.2	47.9	2.22	18.3
	6	4.8	2.1	75/63	36.4	27.8	43.2	2.09	17.4
				80/67	38.9	28.7	45.7	2.11	18.4
				85/71	41.4	29.6	48.4	2.14	19.4
	9	10.1	4.4	75/63	37.0	28.1	43.6	2.02	18.3
				80/67	39.5	29.0	46.2	2.04	19.4
				85/71	42.3	29.9	49.0	2.06	20.6
85	4.5	2.8	1.2	75/63	34.8	27.2	42.1	2.27	15.3
				80/67	37.1	28.1	44.5	2.30	16.2
				85/71	39.6	28.8	47.2	2.32	17.1
	6	4.8	2.1	75/63	35.4	27.5	42.5	2.19	16.2
				80/67	37.9	28.3	45.1	2.22	17.1
				85/71	40.5	29.1	47.8	2.24	18.1
	9	9.9	4.3	75/63	36.0	27.5	42.9	2.13	16.9
				80/67	38.6	28.6	45.6	2.14	18.0
				85/71	41.3	29.5	48.3	2.16	19.2
90	4.5	2.8	1.2	75/63	33.9	26.8	41.6	2.39	14.2
				80/67	36.2	27.6	44.0	2.41	15.0
				85/71	38.6	28.6	46.4	2.43	15.9
	6	4.7	2.0	75/63	34.6	27.1	42.0	2.30	15.0
				80/67	36.9	27.9	44.5	2.33	15.9
				85/71	39.5	28.8	47.1	2.34	16.9
	9	9.7	4.2	75/63	35.1	27.4	42.2	2.23	15.8
				80/67	37.6	28.2	44.9	2.25	16.7
				85/71	40.2	29.1	47.5	2.26	17.8
100	4.5	2.7	1.2	75/63	32.0	26.1	40.5	2.64	12.1
				80/67	34.3	26.9	42.9	2.67	12.9
				85/71	36.5	27.8	45.2	2.69	13.6
	6	4.6	2.0	75/63	32.7	26.3	40.9	2.56	12.8
				80/67	35.0	27.1	43.2	2.58	13.6
				85/71	37.4	28.0	45.7	2.59	14.5
	9	9.5	4.1	75/63	33.2	26.5	41.1	2.49	13.4
				80/67	35.5	27.3	43.6	2.51	14.2
				85/71	38.0	28.3	46.0	2.50	15.2
110	4.5	2.6	1.1	75/63	30.2	25.3	39.6	2.93	10.3
				80/67	32.4	26.2	41.8	2.95	11.0
				85/71	34.6	27.1	44.1	2.97	11.6
	6	4.4	1.9	75/63	30.7	25.5	39.8	2.85	10.8
				80/67	32.9	26.5	42.1	2.86	11.5
				85/71	35.2	27.4	44.5	2.87	12.3
	9	9.2	4.0	75/63	31.3	25.7	40.1	2.77	11.3
				80/67	33.5	26.7	42.4	2.78	12.1
				85/71	35.9	27.5	44.9	2.79	12.9

GC048 HEATING PERFORMANCE - PART LOAD

GC048 Heating performance – PART LOAD @ 1300CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	6	2.9	1.3	60	25.7	19.3	1.95	3.9
				70	24.9	17.7	2.18	3.4
				80	24.1	16.1	2.43	2.9
	8	4.9	2.1	60	26.4	20.0	1.95	4.0
				70	25.5	18.3	2.18	3.4
				80	24.7	16.6	2.44	3.0
	12	10.2	4.4	60	27.2	20.8	1.95	4.1
				70	26.2	19.0	2.18	3.5
				80	25.2	17.2	2.44	3.0
40	6	2.8	1.2	60	29.4	22.9	1.96	4.4
				70	28.5	21.2	2.20	3.8
				80	27.6	19.4	2.46	3.3
	8	4.7	2.0	60	30.3	23.8	1.96	4.5
				70	29.3	22.0	2.20	3.9
				80	28.3	20.1	2.47	3.4
	12	9.8	4.3	60	31.3	24.8	1.96	4.7
				70	30.2	22.8	2.21	4.0
				80	29.1	20.9	2.47	3.4
50	6	2.7	1.2	60	33.3	26.8	1.97	5.0
				70	32.4	25.0	2.22	4.3
				80	31.4	23.1	2.49	3.7
	8	4.6	2.0	60	34.4	27.9	1.97	5.1
				70	33.3	25.9	2.22	4.4
				80	32.4	24.0	2.50	3.8
	12	9.5	4.1	60	35.6	29.1	1.97	5.3
				70	34.4	27.0	2.23	4.5
				80	33.4	25.0	2.51	3.9
60	6	2.6	1.1	60	37.6	31.0	1.98	5.6
				70	36.5	29.1	2.24	4.8
				80	35.5	27.1	2.51	4.1
	8	4.4	1.9	60	38.9	32.3	1.98	5.7
				70	37.7	30.2	2.24	4.9
				80	36.6	28.2	2.52	4.3
	12	9.1	3.9	60	40.3	33.8	1.98	6.0
				70	39.0	31.6	2.24	5.1
				80	37.8	29.4	2.52	4.4
70	6	2.5	1.1	60	42.1	35.5	1.99	6.2
				70	40.9	33.4	2.25	5.3
				80	39.8	31.3	2.53	4.6
	8	4.3	1.9	60	43.6	37.1	1.99	6.4
				70	42.3	34.8	2.25	5.5
				80	41.1	32.6	2.54	4.7
	12	8.8	3.8	60	45.3	38.8	1.99	6.7
				70	43.9	36.4	2.25	5.7
				80	42.5	34.0	2.54	4.9
80	6	2.5	1.1	60	46.8	40.2	1.99	6.9
				70	45.5	38.0	2.25	5.9
				80	44.3	35.8	2.55	5.1
	8	4.1	1.8	60	48.5	42.0	1.99	7.2
				70	47.1	39.6	2.26	6.1
				80	45.8	37.3	2.56	5.3
	12	8.6	3.7	60	50.5	44.0	1.99	7.5
				70	48.9	41.4	2.26	6.3
				80	47.4	38.9	2.56	5.4

GC048 HEATING PERFORMANCE - FULL LOAD

GC048 Heating performance – Full Load @ 1600CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	6	2.9	1.3	60	34.6	25.7	2.67	3.8
				70	34.3	24.1	2.98	3.4
				80	33.9	22.6	3.31	3.0
	8	4.9	2.1	60	35.9	26.9	2.70	3.9
				70	35.5	25.1	3.01	3.5
				80	35.0	23.5	3.34	3.1
	12	10.2	4.4	60	37.3	28.2	2.73	4.0
				70	36.8	26.3	3.04	3.6
				80	36.0	24.6	3.37	3.1
40	6	2.8	1.2	60	39.5	30.3	2.79	4.2
				70	38.9	28.7	3.09	3.7
				80	38.5	26.9	3.42	3.3
	8	4.7	2.0	60	41.2	31.7	2.82	4.3
				70	40.3	30.0	3.12	3.8
				80	39.8	28.1	3.45	3.4
	12	9.8	4.3	60	42.9	33.4	2.86	4.4
				70	42.0	31.4	3.16	3.9
				80	41.2	29.5	3.48	3.5
50	6	2.7	1.2	60	44.9	35.1	2.90	4.5
				70	44.2	33.3	3.20	4.0
				80	43.5	31.5	3.52	3.6
	8	4.6	2.0	60	46.8	36.9	2.94	4.7
				70	45.9	35.0	3.23	4.2
				80	45.1	33.0	3.56	3.7
	12	9.5	4.1	60	49.0	39.0	2.98	4.8
				70	47.9	36.7	3.27	4.3
				80	46.9	34.7	3.60	3.8
60	6	2.6	1.1	60	50.6	40.4	3.01	4.9
				70	49.7	38.4	3.31	4.4
				80	48.9	36.5	3.64	3.9
	8	4.4	1.9	60	52.9	42.6	3.05	5.1
				70	51.8	40.4	3.35	4.5
				80	50.8	38.3	3.68	4.0
	12	9.1	3.9	60	55.4	45.0	3.10	5.2
				70	54.1	42.6	3.40	4.7
				80	52.9	40.1	3.73	4.2
70	6	2.5	1.1	60	56.6	46.0	3.12	5.3
				70	55.5	43.9	3.42	4.8
				80	54.6	41.5	3.77	4.2
	8	4.3	1.9	60	59.1	48.4	3.16	5.5
				70	57.8	46.0	3.47	4.9
				80	56.7	43.8	3.82	4.4
	12	8.8	3.8	60	62.1	51.4	3.21	5.7
				70	60.5	48.7	3.52	5.0
				80	59.1	46.0	3.88	4.5
80	6	2.5	1.1	60	62.7	51.9	3.22	5.7
				70	61.4	49.5	3.54	5.1
				80	60.3	47.0	3.90	4.5
	8	4.1	1.8	60	65.6	54.6	3.27	5.9
				70	64.2	52.0	3.60	5.2
				80	62.8	49.3	3.96	4.6
	12	8.6	3.7	60	69.1	57.9	3.33	6.1
				70	67.2	54.9	3.66	5.4
				80	65.7	51.5	4.03	4.8

GC048 COOLING PERFORMANCE - PART LOAD

GC048 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 Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	6	2.6	1.1	75/63	39.7	31.6	44.4	1.44	27.5
				80/67	42.4	32.5	47.1	1.42	29.9
				85/71	45.2	33.4	49.8	1.39	32.5
	8	4.4	1.9	75/63	40.6	31.9	45.1	1.37	29.7
				80/67	43.4	32.9	47.8	1.34	32.5
				85/71	46.2	33.9	50.5	1.30	35.4
	12	9.1	3.9	75/63	41.6	32.3	45.8	1.29	32.3
				80/67	44.5	33.3	48.6	1.25	35.6
				85/71	47.4	34.3	51.4	1.21	39.1
60	6	2.5	1.1	75/63	37.6	30.7	42.8	1.64	23.0
				80/67	40.1	31.7	45.4	1.61	24.8
				85/71	42.8	32.7	48.0	1.59	26.9
	8	4.3	1.9	75/63	38.4	31.0	43.4	1.56	24.6
				80/67	41.0	32.1	46.0	1.53	26.8
				85/71	43.8	33.1	48.7	1.50	29.2
	12	8.8	3.8	75/63	39.3	31.3	44.1	1.48	26.5
				80/67	42.0	32.4	46.8	1.45	29.1
				85/71	45.0	33.4	49.6	1.41	31.9
70	6	2.5	1.1	75/63	35.4	29.7	41.3	1.85	19.1
				80/67	37.8	30.8	43.7	1.83	20.6
				85/71	40.4	31.9	46.2	1.81	22.3
	8	4.1	1.8	75/63	36.1	30.1	41.8	1.77	20.4
				80/67	38.7	31.1	44.4	1.75	22.1
				85/71	41.4	32.1	47.0	1.72	24.1
	12	8.6	3.7	75/63	37.0	30.4	42.4	1.69	21.9
				80/67	39.7	31.4	45.0	1.66	23.9
				85/71	42.4	32.5	47.8	1.63	26.0
80	6	2.4	1.0	75/63	33.2	28.8	39.8	2.09	15.9
				80/67	35.5	29.8	42.2	2.08	17.1
				85/71	38.0	30.9	44.6	2.06	18.5
	8	4	1.7	75/63	33.9	29.2	40.3	2.01	16.9
				80/67	36.3	30.2	42.7	1.99	18.2
				85/71	38.8	31.3	45.2	1.96	19.8
	12	8.3	3.6	75/63	34.6	29.5	40.8	1.93	17.9
				80/67	37.2	30.5	43.3	1.90	19.5
				85/71	39.8	31.7	45.8	1.87	21.3
85	6	2.3	1.0	75/63	32.0	28.4	39.1	2.22	14.4
				80/67	34.3	29.4	41.4	2.22	15.5
				85/71	36.7	30.6	43.7	2.19	16.7
	8	3.9	1.7	75/63	32.7	28.7	39.5	2.14	15.3
				80/67	35.0	29.8	41.8	2.13	16.5
				85/71	37.6	30.9	44.3	2.10	17.9
	12	8.1	3.5	75/63	33.5	29.0	40.0	2.06	16.3
				80/67	35.9	30.0	42.4	2.04	17.6
				85/71	38.6	31.1	45.0	2.00	19.3
90	6	2.3	1.0	75/63	30.9	27.9	38.4	2.36	13.1
				80/67	33.1	29.1	40.5	2.36	14.1
				85/71	35.5	30.2	43.0	2.33	15.2
	8	3.9	1.7	75/63	31.6	28.2	38.8	2.28	13.9
				80/67	33.8	29.3	41.0	2.27	14.9
				85/71	36.3	30.5	43.5	2.24	16.2
	12	8	3.5	75/63	32.3	28.5	39.2	2.19	14.7
				80/67	34.7	29.6	41.6	2.17	16.0
				85/71	37.2	30.8	44.1	2.14	17.4
100	6	2.2	1.0	75/63	28.7	27.0	37.0	2.66	10.8
				80/67	30.8	28.2	39.2	2.65	11.6
				85/71	33.1	29.4	41.4	2.63	12.6
	8	3.8	1.6	75/63	29.3	27.2	37.4	2.58	11.4
				80/67	31.5	28.4	39.6	2.56	12.3
				85/71	33.8	29.6	41.9	2.54	13.3
	12	7.8	3.4	75/63	29.9	27.4	37.8	2.49	12.0
				80/67	32.1	28.7	40.0	2.47	13.0
				85/71	34.5	29.9	42.3	2.44	14.1
110	6	2.2	1.0	75/63	26.4	26.1	35.8	2.98	8.8
				80/67	28.4	27.4	37.8	2.97	9.6
				85/71	30.5	28.5	39.9	2.96	10.3
	8	3.6	1.6	75/63	27.0	26.3	36.1	2.90	9.3
				80/67	29.1	27.6	38.2	2.88	10.1
				85/71	31.4	28.7	40.4	2.86	11.0
	12	7.6	3.3	75/63	27.5	26.6	36.3	2.82	9.8
				80/67	29.8	27.8	38.6	2.79	10.7
				85/71	32.1	28.9	40.9	2.76	11.6

GC048 COOLING PERFORMANCE - FULL LOAD

GC048 Cooling performance - Full Load @ 1600 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Cooling					
				Ent. Air db/wb, °F	Total Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	6	2.6	1.1	75/63	52.3	40.1	60.4	2.48	21.1
				80/67	55.6	41.3	63.9	2.50	22.2
				85/71	59.2	42.3	67.6	2.53	23.4
	8	4.4	1.9	75/63	53.6	40.6	61.4	2.36	22.7
				80/67	57.1	41.8	64.9	2.38	24.0
				85/71	60.8	42.8	68.8	2.40	25.3
	12	9.1	3.9	75/63	54.9	41.3	62.3	2.24	24.5
				80/67	58.7	42.4	66.2	2.26	26.0
				85/71	62.5	43.5	70.1	2.27	27.6
60	6	2.5	1.1	75/63	49.9	39.1	58.7	2.69	18.5
				80/67	53.2	40.3	62.1	2.72	19.6
				85/71	56.7	41.4	65.7	2.75	20.6
	8	4.3	1.9	75/63	51.2	39.6	59.6	2.57	19.9
				80/67	54.6	40.9	63.1	2.59	21.1
				85/71	58.1	42.0	66.7	2.61	22.3
	12	8.8	3.8	75/63	52.5	40.2	60.5	2.46	21.4
				80/67	56.1	41.3	64.3	2.47	22.7
				85/71	59.8	42.5	68.0	2.48	24.1
70	6	2.5	1.1	75/63	47.5	38.1	57.0	2.93	16.2
				80/67	50.8	39.3	60.4	2.96	17.1
				85/71	53.9	40.5	63.7	2.99	18.0
	8	4.1	1.8	75/63	48.7	38.6	57.9	2.81	17.3
				80/67	52.0	39.9	61.3	2.83	18.4
				85/71	55.4	41.0	64.7	2.85	19.4
	12	8.6	3.7	75/63	50.1	39.0	58.8	2.69	18.6
				80/67	53.5	40.3	62.3	2.70	19.8
				85/71	57.1	41.5	66.0	2.71	21.1
80	6	2.4	1.0	75/63	45.2	37.0	55.5	3.21	14.1
				80/67	48.2	38.3	58.7	3.24	14.9
				85/71	51.3	39.4	62.0	3.27	15.7
	8	4	1.7	75/63	46.2	37.6	56.2	3.08	15.0
				80/67	49.5	38.7	59.5	3.10	15.9
				85/71	52.6	40.1	62.8	3.12	16.8
	12	8.3	3.6	75/63	47.5	38.0	57.0	2.95	16.1
				80/67	50.8	39.2	60.4	2.96	17.1
				85/71	54.1	40.6	63.8	2.97	18.2
85	6	2.3	1.0	75/63	43.8	36.6	54.7	3.37	13.0
				80/67	46.8	37.9	57.8	3.40	13.8
				85/71	49.8	39.1	61.0	3.43	14.5
	8	3.9	1.7	75/63	45.0	36.9	55.4	3.23	13.9
				80/67	48.1	38.2	58.7	3.25	14.8
				85/71	51.3	39.4	62.0	3.27	15.7
	12	8.1	3.5	75/63	46.1	37.5	56.1	3.10	14.9
				80/67	49.4	38.7	59.5	3.11	15.9
				85/71	52.6	40.1	62.8	3.12	16.9
90	6	2.3	1.0	75/63	42.6	36.1	54.0	3.53	12.1
				80/67	45.5	37.4	57.0	3.56	12.8
				85/71	48.5	38.6	60.1	3.60	13.5
	8	3.9	1.7	75/63	43.6	36.5	54.6	3.39	12.8
				80/67	46.8	37.7	57.8	3.42	13.7
				85/71	49.8	39.1	60.9	3.44	14.5
	12	8	3.5	75/63	44.7	37.0	55.2	3.25	13.7
				80/67	48.0	38.2	58.6	3.27	14.7
				85/71	51.3	39.4	62.0	3.28	15.6
100	6	2.2	1.0	75/63	40.0	35.0	52.5	3.90	10.2
				80/67	42.7	36.3	55.4	3.94	10.8
				85/71	45.5	37.6	58.4	3.97	11.4
	8	3.8	1.6	75/63	41.0	35.5	53.1	3.75	10.9
				80/67	43.9	36.8	56.1	3.78	11.6
				85/71	46.8	38.0	59.1	3.80	12.3
	12	7.8	3.4	75/63	42.1	35.8	53.7	3.61	11.7
				80/67	45.1	37.1	56.8	3.62	12.5
				85/71	48.1	38.5	59.9	3.63	13.2
110	6	2.2	1.0	75/63	37.4	34.0	51.3	4.33	8.6
				80/67	39.9	35.3	54.0	4.38	9.1
				85/71	42.7	36.6	57.0	4.42	9.7
	8	3.6	1.6	75/63	38.3	34.4	51.7	4.17	9.2
				80/67	41.1	35.7	54.6	4.20	9.8
				85/71	43.8	37.0	57.5	4.23	10.4
	12	7.6	3.3	75/63	39.4	34.7	52.3	4.02	9.8
				80/67	42.0	36.1	55.0	4.03	10.4
				85/71	45.1	37.4	58.1	4.04	11.1

GC060 HEATING PERFORMANCE - PART LOAD

GC060 Heating performance – PART LOAD @ 1600CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	7.5	3.1	1.3	60	33.7	25.2	2.56	3.9
				70	32.5	22.9	2.85	3.3
				80	31.3	20.8	3.17	2.9
	10	5.2	2.3	60	34.6	26.1	2.57	4.0
				70	33.3	23.7	2.85	3.4
				80	31.9	21.4	3.17	2.9
	15	10.8	4.7	60	35.6	27.0	2.57	4.1
				70	34.4	24.4	2.86	3.5
				80	32.7	22.2	3.18	3.0
40	7.5	3	1.3	60	38.5	29.9	2.59	4.4
				70	37.1	27.6	2.89	3.8
				80	35.9	25.3	3.22	3.3
	10	5	2.2	60	39.6	31.0	2.60	4.5
				70	38.1	28.6	2.90	3.9
				80	36.7	26.3	3.23	3.3
	15	10.4	4.5	60	40.8	32.3	2.60	4.6
				70	39.3	29.7	2.91	4.0
				80	38.0	27.0	3.24	3.4
50	7.5	2.9	1.3	60	43.6	35.0	2.62	4.9
				70	42.3	32.4	2.93	4.2
				80	41.0	29.9	3.26	3.7
	10	4.9	2.1	60	45.0	36.4	2.63	5.0
				70	43.6	33.7	2.94	4.4
				80	42.1	31.3	3.27	3.8
	15	10.1	4.4	60	46.5	38.0	2.63	5.2
				70	44.8	35.4	2.94	4.5
				80	43.4	32.1	3.28	3.9
60	7.5	2.8	1.2	60	49.2	40.4	2.64	5.5
				70	47.7	37.9	2.96	4.7
				80	46.4	35.1	3.30	4.1
	10	4.7	2.0	60	50.8	42.1	2.65	5.6
				70	49.2	39.4	2.96	4.9
				80	47.7	36.3	3.31	4.2
	15	9.7	4.2	60	52.6	44.1	2.65	5.8
				70	50.9	41.1	2.97	5.0
				80	49.1	38.4	3.32	4.3
70	7.5	2.7	1.2	60	54.9	46.2	2.66	6.1
				70	53.4	43.4	2.98	5.3
				80	51.7	40.8	3.34	4.5
	10	4.5	2.0	60	56.9	48.2	2.66	6.3
				70	55.1	45.2	2.99	5.4
				80	53.5	41.8	3.35	4.7
	15	9.4	4.1	60	59.0	50.4	2.66	6.5
				70	57.1	47.2	2.99	5.6
				80	55.2	44.1	3.36	4.8
80	7.5	2.6	1.1	60	60.9	52.2	2.66	6.7
				70	59.2	49.2	3.00	5.8
				80	57.4	46.2	3.37	5.0
	10	4.4	1.9	60	63.2	54.5	2.66	7.0
				70	61.1	51.3	3.00	6.0
				80	59.4	47.7	3.38	5.2
	15	9.1	3.9	60	65.6	57.0	2.66	7.2
				70	63.4	53.6	3.01	6.2
				80	61.3	50.2	3.38	5.3

GC060 HEATING PERFORMANCE - FULL LOAD

GC060 Heating performance – Full Load @ 2000CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	7.5	3.1	1.3	60	45.9	34.1	3.51	3.8
				70	45.2	32.1	3.87	3.4
				80	44.6	30.2	4.25	3.1
	10	5.2	2.3	60	47.4	35.5	3.54	3.9
				70	46.6	33.4	3.90	3.5
				80	45.8	31.3	4.28	3.1
	15	10.8	4.7	60	49.1	36.8	3.57	4.0
				70	48.1	34.8	3.93	3.6
				80	47.3	32.7	4.31	3.2
40	7.5	3	1.3	60	52.0	39.7	3.64	4.2
				70	51.2	37.7	3.99	3.8
				80	50.5	35.6	4.38	3.4
	10	5	2.2	60	53.9	41.5	3.67	4.3
				70	52.9	39.3	4.03	3.9
				80	52.1	37.1	4.42	3.5
	15	10.4	4.5	60	56.0	43.2	3.71	4.4
				70	54.9	40.8	4.07	4.0
				80	53.9	38.8	4.46	3.5
50	7.5	2.9	1.3	60	58.8	45.9	3.76	4.6
				70	57.9	43.6	4.13	4.1
				80	57.0	41.3	4.53	3.7
	10	4.9	2.1	60	61.1	48.5	3.81	4.7
				70	59.9	45.8	4.17	4.2
				80	58.8	43.4	4.57	3.8
	15	10.1	4.4	60	63.6	50.5	3.86	4.8
				70	62.3	48.1	4.22	4.3
				80	61.0	45.4	4.62	3.9
60	7.5	2.8	1.2	60	65.9	52.9	3.91	4.9
				70	64.7	50.3	4.27	4.4
				80	63.7	48.2	4.69	4.0
	10	4.7	2.0	60	68.8	55.7	3.96	5.1
				70	67.3	52.8	4.33	4.6
				80	66.0	50.0	4.74	4.1
	15	9.7	4.2	60	71.8	58.1	4.02	5.2
				70	70.1	55.2	4.39	4.7
				80	68.7	52.4	4.80	4.2
70	7.5	2.7	1.2	60	73.5	60.0	4.06	5.3
				70	72.1	57.2	4.43	4.8
				80	70.8	54.4	4.86	4.3
	10	4.5	2.0	60	76.8	63.0	4.13	5.5
				70	75.1	60.0	4.50	4.9
				80	73.6	57.0	4.92	4.4
	15	9.4	4.1	60	80.4	66.2	4.21	5.6
				70	78.4	62.7	4.58	5.0
				80	76.8	59.4	5.00	4.5
80	7.5	2.6	1.1	60	81.5	67.3	4.23	5.7
				70	79.8	64.3	4.61	5.1
				80	78.2	61.2	5.04	4.5
	10	4.4	1.9	60	85.2	70.9	4.31	5.8
				70	83.2	67.5	4.69	5.2
				80	81.3	64.1	5.12	4.7
	15	9.1	3.9	60	89.3	74.5	4.40	5.9
				70	87.1	71.7	4.79	5.3
				80	84.8	67.3	5.21	4.8

GC060 COOLING PERFORMANCE - PART LOAD

GC060 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 Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	7.5	2.8	1.2	75/63	51.0	39.6	57.1	1.86	27.4
				80/67	54.3	40.9	60.3	1.83	29.7
				85/71	57.8	42.0	63.7	1.80	32.1
	10	4.7	2.0	75/63	52.0	40.1	57.8	1.78	29.2
				80/67	55.5	41.3	61.2	1.74	31.8
				85/71	59.2	42.4	64.8	1.71	34.6
	15	9.7	4.2	75/63	53.1	40.6	58.7	1.70	31.3
				80/67	56.8	41.7	62.3	1.66	34.2
				85/71	60.4	43.0	65.8	1.62	37.4
60	7.5	2.7	1.2	75/63	48.1	38.5	54.9	2.09	23.0
				80/67	51.4	39.8	58.2	2.06	24.9
				85/71	54.9	40.9	61.6	2.03	27.0
	10	4.5	2.0	75/63	49.1	38.9	55.7	2.00	24.5
				80/67	52.5	40.2	59.0	1.97	26.7
				85/71	56.0	41.4	62.4	1.93	29.0
	15	9.4	4.1	75/63	50.2	39.3	56.4	1.92	26.2
				80/67	53.8	40.5	59.9	1.88	28.6
				85/71	57.4	41.8	63.5	1.84	31.3
70	7.5	2.6	1.1	75/63	45.4	37.2	53.0	2.35	19.3
				80/67	48.5	38.6	56.0	2.32	20.9
				85/71	51.7	39.9	59.2	2.29	22.5
	10	4.4	1.9	75/63	46.2	37.7	53.5	2.26	20.4
				80/67	49.6	38.9	56.8	2.23	22.2
				85/71	52.9	40.3	60.1	2.19	24.1
	15	9.1	3.9	75/63	47.2	38.1	54.3	2.17	21.7
				80/67	50.7	39.4	57.6	2.13	23.8
				85/71	54.1	40.7	60.9	2.09	25.9
80	7.5	2.5	1.1	75/63	42.4	36.1	50.9	2.65	16.0
				80/67	45.5	37.5	53.9	2.62	17.3
				85/71	48.6	38.8	57.0	2.59	18.7
	10	4.2	1.8	75/63	43.3	36.5	51.5	2.56	16.9
				80/67	46.4	37.8	54.5	2.52	18.4
				85/71	49.7	39.2	57.8	2.49	20.0
	15	8.8	3.8	75/63	44.2	36.8	52.2	2.47	17.9
				80/67	47.5	38.2	55.3	2.42	19.6
				85/71	50.9	39.4	58.7	2.38	21.4
85	7.5	2.5	1.1	75/63	41.1	35.5	50.1	2.81	14.6
				80/67	44.0	36.9	52.9	2.79	15.8
				85/71	47.0	38.2	55.9	2.76	17.0
	10	4.2	1.8	75/63	41.8	35.9	50.5	2.72	15.4
				80/67	44.9	37.3	53.5	2.68	16.7
				85/71	48.0	38.6	56.6	2.65	18.1
	15	8.7	3.8	75/63	42.8	36.2	51.2	2.62	16.3
				80/67	45.8	37.6	54.2	2.58	17.7
				85/71	49.1	39.0	57.4	2.54	19.3
90	7.5	2.5	1.1	75/63	39.6	35.0	49.1	2.98	13.3
				80/67	42.4	36.4	51.9	2.96	14.3
				85/71	45.4	37.7	54.9	2.93	15.5
	10	4.1	1.8	75/63	40.4	35.3	49.6	2.89	14.0
				80/67	43.3	36.7	52.5	2.86	15.1
				85/71	46.4	38.0	55.5	2.82	16.4
	15	8.5	3.7	75/63	41.2	35.6	50.1	2.79	14.7
				80/67	44.3	36.9	53.2	2.75	16.1
				85/71	47.4	38.4	56.2	2.71	17.5
100	7.5	2.4	1.0	75/63	36.7	33.8	47.3	3.34	11.0
				80/67	39.4	35.2	50.0	3.33	11.8
				85/71	42.3	36.6	52.9	3.30	12.8
	10	4	1.7	75/63	37.4	34.1	47.8	3.25	11.5
				80/67	40.2	35.5	50.5	3.22	12.5
				85/71	43.2	36.9	53.5	3.20	13.5
	15	8.3	3.6	75/63	38.1	34.4	48.2	3.16	12.1
				80/67	41.0	35.8	51.1	3.13	13.1
				85/71	44.1	37.2	54.0	3.08	14.3
110	7.5	2.3	1.0	75/63	33.8	32.6	45.7	3.74	9.0
				80/67	36.5	34.2	48.4	3.72	9.8
				85/71	38.7	35.4	50.6	3.71	10.4
	10	3.9	1.7	75/63	34.5	32.8	46.1	3.65	9.4
				80/67	37.2	34.4	48.8	3.62	10.3
				85/71	39.6	35.7	51.2	3.60	11.0
	15	8	3.5	75/63	35.1	33.2	46.4	3.56	9.9
				80/67	38.0	34.6	49.2	3.53	10.8
				85/71	40.9	36.1	52.1	3.49	11.7

GC060 COOLING PERFORMANCE - FULL LOAD

GC060 Cooling performance - Full Load @ 2000 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Cooling					
				Ent. Air db/wb, °F	Total Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	7.5	2.8	1.2	75/63	66.7	50.5	77.1	3.16	21.1
				80/67	70.9	52.0	81.5	3.21	22.1
				85/71	75.3	53.4	86.2	3.27	23.0
	10	4.7	2.0	75/63	68.0	51.2	78.1	3.04	22.3
				80/67	72.6	52.6	82.9	3.10	23.4
				85/71	77.2	53.9	87.7	3.15	24.5
	15	9.7	4.2	75/63	69.5	51.8	79.2	2.94	23.7
				80/67	74.0	53.4	84.0	2.98	24.8
				85/71	78.9	54.7	89.0	3.04	26.0
60	7.5	2.7	1.2	75/63	63.8	49.4	75.0	3.40	18.8
				80/67	68.0	50.9	79.4	3.45	19.7
				85/71	72.4	52.1	84.0	3.51	20.6
	10	4.5	2.0	75/63	65.3	49.8	76.1	3.28	19.9
				80/67	69.6	51.3	80.6	3.32	20.9
				85/71	73.9	52.9	85.1	3.37	21.9
	15	9.4	4.1	75/63	66.6	50.5	77.1	3.16	21.1
				80/67	71.0	52.1	81.6	3.20	22.2
				85/71	75.8	53.4	86.6	3.24	23.4
70	7.5	2.6	1.1	75/63	61.0	48.2	73.0	3.68	16.6
				80/67	65.1	49.6	77.4	3.73	17.4
				85/71	69.0	51.1	81.5	3.78	18.3
	10	4.4	1.9	75/63	62.4	48.6	74.0	3.55	17.6
				80/67	66.4	50.3	78.2	3.59	18.5
				85/71	70.7	51.7	82.7	3.63	19.5
	15	9.1	3.9	75/63	63.7	49.2	74.9	3.42	18.6
				80/67	68.0	50.7	79.4	3.46	19.7
				85/71	72.5	52.2	84.1	3.49	20.7
80	7.5	2.5	1.1	75/63	58.0	47.0	71.1	4.01	14.5
				80/67	61.8	48.5	75.1	4.05	15.2
				85/71	65.7	50.0	79.2	4.10	16.0
	10	4.2	1.8	75/63	59.3	47.5	71.9	3.87	15.3
				80/67	63.4	48.9	76.2	3.90	16.2
				85/71	67.3	50.5	80.3	3.94	17.1
	15	8.8	3.8	75/63	60.6	47.9	72.9	3.73	16.2
				80/67	64.7	49.6	77.0	3.76	17.2
				85/71	69.1	50.9	81.6	3.79	18.2
85	7.5	2.5	1.1	75/63	56.6	46.2	70.3	4.19	13.5
				80/67	60.4	47.8	74.3	4.24	14.2
				85/71	64.1	49.4	78.2	4.28	15.0
	10	4.2	1.8	75/63	57.8	46.8	71.0	4.05	14.3
				80/67	61.6	48.4	75.0	4.08	15.1
				85/71	65.7	49.8	79.3	4.12	16.0
	15	8.7	3.8	75/63	59.0	47.2	71.8	3.91	15.1
				80/67	63.0	48.9	75.9	3.93	16.0
				85/71	67.2	50.5	80.2	3.96	17.0
90	7.5	2.5	1.1	75/63	55.1	45.6	69.4	4.39	12.5
				80/67	58.5	47.2	72.9	4.43	13.2
				85/71	62.3	48.8	77.0	4.48	13.9
	10	4.1	1.8	75/63	56.3	46.1	70.1	4.24	13.3
				80/67	60.1	47.7	74.1	4.27	14.1
				85/71	63.9	49.3	78.1	4.30	14.8
	15	8.5	3.7	75/63	57.3	46.7	70.7	4.09	14.0
				80/67	61.4	48.1	74.9	4.12	14.9
				85/71	65.5	49.7	79.1	4.14	15.8
100	7.5	2.4	1.0	75/63	51.9	44.5	67.6	4.82	10.8
				80/67	55.2	46.0	71.0	4.86	11.4
				85/71	58.8	47.5	74.8	4.91	12.0
	10	4	1.7	75/63	53.1	44.8	68.3	4.67	11.4
				80/67	56.7	46.5	72.0	4.69	12.1
				85/71	60.3	48.1	75.8	4.73	12.8
	15	8.3	3.6	75/63	54.0	45.3	68.7	4.51	12.0
				80/67	57.9	47.0	72.7	4.53	12.8
				85/71	61.8	48.6	76.7	4.56	13.6
110	7.5	2.3	1.0	75/63	48.7	43.2	66.0	5.33	9.1
				80/67	51.8	44.7	69.3	5.37	9.6
				85/71	55.3	46.3	73.0	5.41	10.2
	10	3.9	1.7	75/63	49.8	43.5	66.6	5.16	9.6
				80/67	53.2	45.2	70.1	5.19	10.3
				85/71	56.7	46.8	73.7	5.22	10.9
	15	8	3.5	75/63	50.8	43.9	67.1	5.01	10.1
				80/67	54.2	45.6	70.6	5.02	10.8
				85/71	57.9	47.2	74.3	5.03	11.5

GC072 HEATING PERFORMANCE - PART LOAD

GC072 Heating performance – PART LOAD @ 1850CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	9	2.3	1.0	60	39.9	29.3	3.05	3.8
				70	38.9	26.8	3.38	3.4
				80	37.5	24.5	3.76	2.9
	12	3.9	1.7	60	40.0	30.1	3.05	3.8
				70	39.4	28.9	3.39	3.4
				80	38.9	25.9	3.78	3.0
	18	8.2	3.6	60	42.2	30.5	3.06	4.0
				70	40.9	29.6	3.40	3.5
				80	40.0	27.4	3.80	3.1
40	9	2.3	1.0	60	45.2	35.1	3.09	4.3
				70	44.3	32.5	3.44	3.8
				80	43.1	31.7	3.83	3.3
	12	3.8	1.6	60	46.8	36.3	3.10	4.4
				70	44.9	33.0	3.44	3.8
				80	45.1	32.1	3.84	3.4
	18	7.9	3.4	60	45.7	38.3	3.06	4.4
				70	46.8	34.8	3.46	4.0
				80	45.7	32.8	3.85	3.5
50	9	2.2	1.0	60	51.4	41.2	3.14	4.8
				70	50.3	38.1	3.48	4.2
				80	49.8	36.6	3.89	3.8
	12	3.7	1.6	60	53.2	42.9	3.15	5.0
				70	52.3	40.7	3.51	4.4
				80	50.8	39.9	3.91	3.8
	18	7.6	3.3	60	55.3	44.8	3.16	5.1
				70	53.8	42.1	3.52	4.5
				80	52.0	38.4	3.91	3.9
60	9	2.1	0.9	60	58.2	47.3	3.18	5.4
				70	56.9	44.6	3.55	4.7
				80	55.8	41.9	3.95	4.1
	12	3.5	1.5	60	60.4	49.3	3.19	5.6
				70	58.8	47.0	3.56	4.8
				80	58.8	45.1	3.98	4.3
	18	7.3	3.2	60	63.1	52.0	3.21	5.8
				70	58.1	47.7	3.51	4.9
				80	59.3	45.4	3.99	4.4
70	9	2	0.9	60	65.3	54.3	3.22	5.9
				70	63.7	51.4	3.61	5.2
				80	62.1	48.8	4.02	4.5
	12	3.4	1.5	60	67.6	57.3	3.24	6.1
				70	66.2	53.6	3.63	5.4
				80	66.0	50.9	4.07	4.8
	18	7.1	3.1	60	70.7	59.3	3.26	6.4
				70	68.9	55.5	3.65	5.5
				80	67.3	53.7	4.09	4.8
80	9	2	0.9	60	72.6	61.5	3.28	6.5
				70	71.0	58.2	3.67	5.7
				80	70.6	57.2	4.12	5.0
	12	3.3	1.4	60	75.7	64.2	3.30	6.7
				70	73.7	60.7	3.70	5.8
				80	73.3	59.2	4.15	5.2
	18	6.9	3.0	60	78.9	68.0	3.32	7.0
				70	76.6	64.8	3.73	6.0
				80	70.0	66.5	4.09	5.0

GC072 HEATING PERFORMANCE - FULL LOAD

GC072 Heating performance – Full Load @ 2350CFM								
Entering Water, °F	Water flow, GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Ent. Air °F	Total Btu/hr.	Ht. Abs. Btu/hr.	Unit kW	COP
30	9	2.3	1.0	60	52.6	38.2	4.16	3.7
				70	51.6	35.9	4.56	3.3
				80	51.1	34.0	4.99	3.0
	12	3.9	1.7	60	54.0	39.6	4.19	3.8
				70	53.2	37.6	4.59	3.4
				80	52.8	35.7	5.03	3.1
	18	8.2	3.6	60	55.8	41.8	4.24	3.9
				70	55.4	40.3	4.64	3.5
				80	54.5	37.2	5.07	3.2
40	9	2.3	1.0	60	59.3	44.5	4.29	4.0
				70	58.5	42.3	4.70	3.7
				80	57.9	40.1	5.14	3.3
	12	3.8	1.6	60	61.7	46.6	4.33	4.2
				70	60.8	44.6	4.74	3.8
				80	60.2	42.0	5.19	3.4
	18	7.9	3.4	60	64.3	49.3	4.38	4.3
				70	63.1	47.1	4.79	3.9
				80	62.4	43.4	5.23	3.5
50	9	2.2	1.0	60	67.3	52.1	4.44	4.4
				70	66.4	49.9	4.85	4.0
				80	65.3	46.9	5.31	3.6
	12	3.7	1.6	60	69.9	54.4	4.48	4.6
				70	68.7	51.8	4.90	4.1
				80	67.7	49.1	5.36	3.7
	18	7.6	3.3	60	73.2	58.0	4.55	4.7
				70	71.9	54.7	4.96	4.2
				80	70.2	51.5	5.42	3.8
60	9	2.1	0.9	60	75.7	59.7	4.59	4.8
				70	74.6	57.1	5.01	4.4
				80	73.6	54.6	5.49	3.9
	12	3.5	1.5	60	78.8	62.8	4.65	5.0
				70	77.4	59.8	5.08	4.5
				80	76.1	56.8	5.55	4.0
	18	7.3	3.2	60	82.7	66.8	4.73	5.1
				70	79.0	61.1	5.12	4.5
				80	79.5	60.1	5.62	4.1
70	9	2	0.9	60	84.2	67.8	4.75	5.2
				70	82.6	64.7	5.19	4.7
				80	81.4	61.8	5.67	4.2
	12	3.4	1.5	60	88.6	72.2	4.84	5.4
				70	86.9	69.2	5.27	4.8
				80	84.8	64.9	5.74	4.3
	18	7.1	3.1	60	92.8	75.8	4.92	5.5
				70	90.9	72.2	5.36	5.0
				80	88.6	68.8	5.83	4.5
80	9	2	0.9	60	93.3	76.4	4.93	5.5
				70	91.6	73.1	5.37	5.0
				80	90.0	69.7	5.86	4.5
	12	3.3	1.4	60	97.9	80.6	5.03	5.7
				70	95.8	77.0	5.46	5.1
				80	94.5	74.0	5.96	4.6
	18	6.9	3.0	60	103.2	85.5	5.13	5.9
				70	100.7	81.4	5.57	5.3
				80	98.2	77.3	6.05	4.8

GC072 COOLING PERFORMANCE - PART LOAD

GC072 Cooling performance - PART LOAD @ 1850 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Cooling					
				Ent. Air db/wb, °F	Total Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	9	2.1	0.9	75/63	58.7	45.7	66.2	2.28	25.7
				80/67	62.5	47.1	70.0	2.28	27.4
				85/71	66.4	48.4	73.9	2.27	29.2
	12	3.5	1.5	75/63	59.8	46.2	67.0	2.18	27.4
				80/67	63.9	47.5	71.0	2.17	29.5
				85/71	67.9	48.8	75.1	2.15	31.6
	18	7.3	3.2	75/63	61.1	46.6	68.0	2.08	29.4
				80/67	65.1	48.1	71.9	2.05	31.7
				85/71	69.5	49.3	76.2	2.03	34.3
60	9	2	0.9	75/63	55.9	44.6	64.3	2.55	21.9
				80/67	59.6	46.0	68.0	2.55	23.4
				85/71	63.5	47.2	71.9	2.54	24.9
	12	3.4	1.5	75/63	57.1	44.9	65.1	2.44	23.4
				80/67	61.0	46.4	68.9	2.43	25.1
				85/71	64.9	47.7	72.9	2.42	26.8
	18	7.1	3.1	75/63	58.2	45.5	65.8	2.33	25.0
				80/67	62.1	46.9	69.8	2.31	26.9
				85/71	66.2	48.3	73.8	2.29	28.9
70	9	2	0.9	75/63	53.1	43.4	62.3	2.85	18.6
				80/67	56.7	44.8	66.0	2.85	19.9
				85/71	60.3	46.2	69.6	2.85	21.1
	12	3.3	1.4	75/63	54.2	43.8	63.0	2.73	19.8
				80/67	57.8	45.3	66.7	2.73	21.2
				85/71	61.6	46.7	70.5	2.72	22.6
	18	6.9	3.0	75/63	55.3	44.2	63.9	2.62	21.1
				80/67	59.1	45.7	67.6	2.60	22.7
				85/71	63.1	47.0	71.6	2.59	24.4
80	9	1.9	0.8	75/63	50.3	42.1	60.6	3.19	15.8
				80/67	53.7	43.6	64.1	3.19	16.8
				85/71	57.2	45.0	67.7	3.20	17.9
	12	3.2	1.4	75/63	51.3	42.5	61.2	3.07	16.7
				80/67	54.7	44.1	64.7	3.06	17.8
				85/71	58.3	45.5	68.3	3.06	19.0
	18	6.6	2.9	75/63	52.3	42.9	61.9	2.95	17.7
				80/67	55.9	44.5	65.4	2.94	19.0
				85/71	59.6	46.0	69.2	2.92	20.4
85	9	1.9	0.8	75/63	48.8	41.5	59.7	3.37	14.5
				80/67	52.1	43.1	63.0	3.38	15.4
				85/71	55.4	44.5	66.4	3.39	16.3
	12	3.1	1.3	75/63	49.7	42.0	60.2	3.25	15.3
				80/67	53.2	43.4	63.8	3.25	16.4
				85/71	56.7	45.0	67.3	3.25	17.4
	18	6.5	2.8	75/63	50.7	42.4	60.8	3.13	16.2
				80/67	54.3	43.9	64.4	3.12	17.4
				85/71	57.9	45.4	68.1	3.11	18.6
90	9	1.8	0.8	75/63	47.4	40.9	58.9	3.57	13.3
				80/67	50.6	42.4	62.2	3.58	14.1
				85/71	53.9	44.0	65.5	3.59	15.0
	12	3.1	1.3	75/63	48.2	41.4	59.3	3.45	14.0
				80/67	51.5	42.9	62.7	3.45	14.9
				85/71	54.9	44.3	66.1	3.45	15.9
	18	6.4	2.8	75/63	49.2	41.7	59.9	3.32	14.8
				80/67	52.7	43.2	63.5	3.31	15.9
				85/71	56.2	44.8	67.0	3.30	17.0
100	9	1.8	0.8	75/63	44.2	39.8	57.1	4.01	11.0
				80/67	47.3	41.3	60.3	4.01	11.8
				85/71	50.5	42.8	63.5	4.03	12.5
	12	3	1.3	75/63	45.2	40.0	57.7	3.88	11.6
				80/67	48.4	41.7	60.9	3.88	12.5
				85/71	51.6	43.2	64.2	3.88	13.3
	18	6.2	2.7	75/63	46.0	40.5	58.1	3.75	12.3
				80/67	49.3	42.0	61.4	3.74	13.2
				85/71	52.8	43.6	64.9	3.73	14.1
110	9	1.7	0.7	75/63	41.1	38.4	55.5	4.51	9.1
				80/67	44.1	40.1	58.6	4.50	9.8
				85/71	47.4	41.8	61.9	4.48	10.6
	12	2.9	1.3	75/63	41.9	38.8	56.0	4.37	9.6
				80/67	45.1	40.4	59.2	4.37	10.3
				85/71	48.4	42.1	62.4	4.34	11.1
	18	6.1	2.6	75/63	42.8	39.1	56.4	4.24	10.1
				80/67	45.9	40.8	59.5	4.23	10.9
				85/71	49.3	42.4	62.9	4.20	11.7

GC072 COOLING PERFORMANCE - FULL LOAD

GC072 Cooling performance - Full Load @ 2350 CFM									
Entering Water °F	Water flow GPM	Pressure Drop Ft. Water	Pressure Drop (Psi)	Cooling					
				Ent. Air db/wb, °F	Total Btu/hr.	Sensible Btu/hr.	Ht. Rej. Btu/hr.	Unit kW	EER
50	9	2.1	0.9	75/63	74.7	56.2	86.9	3.69	20.2
				80/67	79.4	58.1	91.8	3.74	21.2
				85/71	84.4	59.7	97.0	3.79	22.2
	12	3.5	1.5	75/63	76.3	56.9	88.1	3.54	21.6
				80/67	81.4	58.5	93.3	3.59	22.7
				85/71	86.5	60.5	98.6	3.63	23.9
	18	7.3	3.2	75/63	78.1	57.6	89.3	3.38	23.1
				80/67	83.4	59.3	94.8	3.42	24.4
				85/71	88.9	60.9	100.5	3.46	25.7
60	9	2	0.9	75/63	71.6	54.8	84.7	3.99	18.0
				80/67	76.1	56.8	89.4	4.03	18.9
				85/71	81.1	58.2	94.6	4.08	19.9
	12	3.4	1.5	75/63	73.2	55.5	85.8	3.83	19.1
				80/67	78.1	57.2	90.9	3.87	20.2
				85/71	83.2	58.8	96.2	3.91	21.3
	18	7.1	3.1	75/63	74.9	56.3	87.0	3.67	20.4
				80/67	79.8	58.3	92.1	3.70	21.5
				85/71	85.1	60.0	97.6	3.73	22.8
70	9	2	0.9	75/63	68.4	53.4	82.5	4.32	15.8
				80/67	72.7	55.5	87.1	4.36	16.7
				85/71	77.4	57.0	92.0	4.41	17.6
	12	3.3	1.4	75/63	69.8	54.4	83.4	4.15	16.8
				80/67	74.4	56.2	88.3	4.19	17.7
				85/71	79.3	58.0	93.2	4.22	18.8
	18	6.9	3.0	75/63	71.5	54.8	84.7	3.99	17.9
				80/67	76.3	56.9	89.5	4.02	19.0
				85/71	81.6	58.2	95.0	4.05	20.1
80	9	1.9	0.8	75/63	64.9	52.3	80.2	4.69	13.8
				80/67	69.2	54.0	84.8	4.74	14.6
				85/71	73.8	55.5	89.5	4.78	15.4
	12	3.2	1.4	75/63	66.5	52.7	81.3	4.52	14.7
				80/67	70.8	54.8	85.8	4.55	15.5
				85/71	75.3	57.1	90.4	4.58	16.4
	18	6.6	2.9	75/63	68.0	53.3	82.3	4.35	15.6
				80/67	72.6	55.4	87.0	4.38	16.6
				85/71	77.5	57.1	92.0	4.40	17.6
85	9	1.9	0.8	75/63	63.3	51.6	79.3	4.88	13.0
				80/67	67.4	53.5	83.6	4.93	13.7
				85/71	71.7	55.2	88.1	4.98	14.4
	12	3.1	1.3	75/63	64.8	51.9	80.2	4.72	13.7
				80/67	69.0	54.1	84.6	4.75	14.5
				85/71	73.6	55.6	89.4	4.78	15.4
	18	6.5	2.8	75/63	66.2	52.5	81.2	4.55	14.5
				80/67	70.8	54.3	85.9	4.58	15.5
				85/71	75.4	56.6	90.5	4.59	16.4
90	9	1.8	0.8	75/63	61.6	51.0	78.3	5.09	12.1
				80/67	65.7	52.8	82.6	5.14	12.8
				85/71	69.9	54.5	86.9	5.18	13.5
	12	3.1	1.3	75/63	63.0	51.6	79.1	4.92	12.8
				80/67	67.2	53.4	83.5	4.96	13.6
				85/71	71.5	55.4	87.9	4.99	14.3
	18	6.4	2.8	75/63	64.4	51.9	79.9	4.76	13.5
				80/67	68.8	54.0	84.5	4.78	14.4
				85/71	73.5	55.5	89.4	4.80	15.3
100	9	1.8	0.8	75/63	58.3	49.6	76.4	5.55	10.5
				80/67	62.2	51.5	80.5	5.60	11.1
				85/71	66.1	53.2	84.7	5.64	11.7
	12	3	1.3	75/63	59.5	50.2	77.1	5.37	11.1
				80/67	63.6	52.0	81.3	5.41	11.8
				85/71	67.8	53.7	85.6	5.44	12.5
	18	6.2	2.7	75/63	60.9	50.5	77.9	5.20	11.7
				80/67	65.1	52.4	82.3	5.22	12.5
				85/71	69.5	54.2	86.7	5.25	13.2
110	9	1.7	0.7	75/63	54.9	48.1	74.8	6.10	9.0
				80/67	58.4	50.1	78.5	6.14	9.5
				85/71	64.9	53.2	85.3	6.21	10.4
	12	2.9	1.3	75/63	56.1	48.6	75.3	5.90	9.5
				80/67	60.0	50.1	79.4	5.93	10.1
				85/71	64.6	50.1	84.2	5.97	10.8
	18	6.1	2.6	75/63	57.1	49.5	75.7	5.71	10.0
				80/67	61.3	50.9	80.1	5.74	10.7
				85/71	65.3	53.0	84.1	5.75	11.3

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