

**GW Comfort Series
Water-to-Water Geothermal Heat Pump
Sizes 024, 036, 048, 060, 072, 120**



Product Data



FEATURES & BENEFITS

Energy Efficiency

- 3.0 - 3.2 COP, 14.6 - 22.1 EER (Closed Loop)
- 3.4 - 3.8 COP, 18.8 - 25.7 EER (Open Loop)
- Optional supplemental domestic water heating

Comfort

- Two-stage scroll compressor

Control

- Microprocessor control
- Smart Start Assist (optional field installed)

Sound

- Fully insulated cabinet with fiberglass
- Compressor blanket

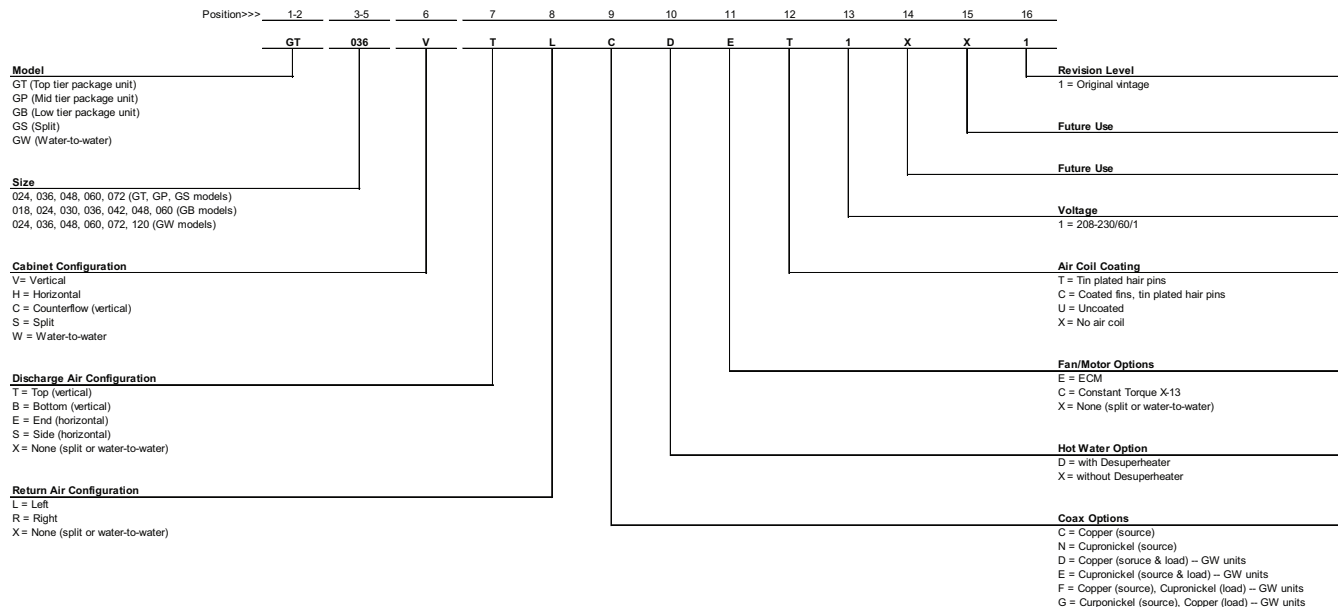
Reliability, Quality and Durability

- Puron® refrigerant
- Computerized run-tested

Flexibility and Installation

- Unit designed for variety of hydronic applications

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.



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												
Models	Water Loop				Ground Water				Ground Loop			
	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
GW024	21000	13.4	31000	4.4	24500	21.2	25000	3.5	22500	15.9	19500	3.0
GW036	29000	12.6	43000	4.3	34000	20.2	34000	3.5	30000	14.6	27000	3.0
GW048	39000	12.9	58000	4.1	45000	19.7	47000	3.5	41000	14.9	37500	3.0
GW060	49000	12.9	74500	4.2	55500	19.9	59500	3.5	51000	14.8	48000	3.0
GW120	114000	13.8	160800	4.6	130000	21.3	129500	3.8	119500	16.1	102500	3.0
GW072	57500	13.0	86500	4.2	64000	18.8	70000	3.4	60000	14.8	53500	3.0

PART LOAD												
Models	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling 86 deg.F		Heating 68 deg.F		Cooling 59 deg.F		Heating 50 deg.F		Cooling 68 deg.F		Heating 41 deg.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
GW024	15500	14.7	22000	4.6	18500	25.7	17000	3.7	18000	22.1	15000	3.2
GW036	22500	14.5	31500	4.7	25000	24.8	25000	3.6	24000	20.6	22000	3.2
GW048	29000	13.9	42000	4.5	33500	23.6	34500	3.6	32500	20.1	30500	3.2
GW060	37000	13.7	55000	4.6	42500	23.3	41500	3.6	41000	19.8	38000	3.3
GW072	43500	13.3	65500	4.4	50500	21.8	52000	3.6	48500	18.7	44500	3.2
GW120	54900	12.3	78500	4.2	63500	19.0	63600	3.4	61000	16.7	56000	3.2

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	GW024	GW036	GW048	GW060	GW072	GW120
Compressor Type (Qty)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (2)
Refrigeration Charge (oz)	48	59	62	72	90	170
Max Water Working Pressure (PSIG/kPa)	450/3100	450/3100	450/3100	450/3100	450/3100	450/3100
Load – Water Connection Size						
FPT	3/4"	3/4"	1.0"	1.0"	1.0"	1 – 1/4"
Coaxial Coil Volume (gal)	0.47	0.50	0.64	0.74	1.05	2.06
Source – Water Connection Size						
FPT	3/4"	3/4"	1.0"	1.0"	1.0"	1 – 1/4"
Coaxial Coil Volume (gal)	0.47	0.50	0.39	0.47	0.8	2.06
Cabinet						
Weight – Operating (lbs)	250	270	290	340	360	700
Weight – Shipping (lbs)	270	290	310	360	380	720

ELECTRICAL DATA

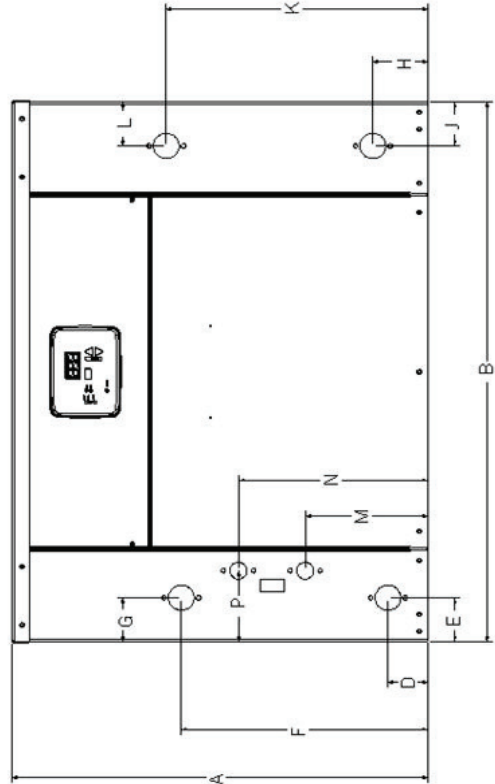
Models	Rated Voltage	Voltage Min/Max	Compressor			Min Circuit Amps	Max Fuse/HACR
			QTY	RLA	LRA		
GW024	208–230/60/1	197/253	1	11.7	58.3	14.6	25
GW036	208–230/60/1	197/253	1	15.3	83.0	19.1	30
GW048	208–230/60/1	197/253	1	21.2	104.0	26.5	45
GW060	208–230/60/1	197/253	1	27.1	152.9	33.9	60
GW072	208–230/60/2	197/254	1	29.7	179.2	37.1	60
GW120	208–230/60/1	197/253	2	28.3	178.0	63.7	90

DIMENSIONS

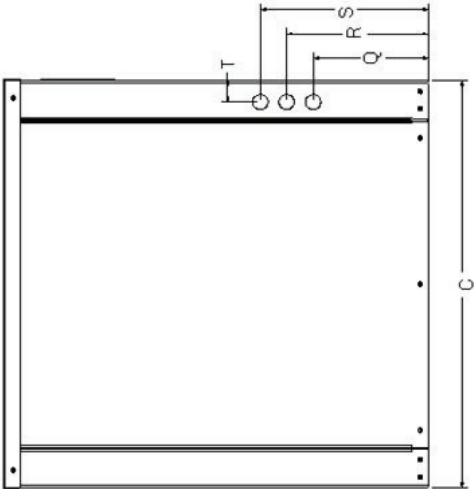
MODEL	A		B	C		D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T		Water	HRP
	Height		Width	Depth	Conn.															Conn.			
GW024	24.12		32.5	24		2.7	2.5	13.7	2.5	3.25	1.95	14.25	1.95	7.15	11	4.25	6.55	8.05	9.55		1.25	3/4 FPT	1/2 FPT
GW036	24.12		32.5	24		2.3	2.3	14.3	2.35	3.7	2.55	15.7	2.55	7.15	11	4.25	6.55	8.05	9.55		1.25	3/4 FPT	1/2 FPT
GW048	24.12		32.5	24		2.3	2.6	14.3	2.65	3.7	2.65	15.7	2.65	7.15	11	4.25	6.55	8.05	9.55		1.25	1 FPT	1/2 FPT
GW060	24.12		32.5	24		2.3	2.6	14.3	2.65	3.2	2.65	15.2	2.65	7.15	11	4.25	6.55	8.05	9.55		1.25	1 FPT	1/2 FPT
GW072	24.12		32.5	24		3	2.25	17.25	2.25	3.25	2.25	17	2.25	7.15	11	4.25	6.55	8.05	9.55		1.25	1 FPT	1/2 FPT

NOTE: All dimensions are in inches unless otherwise noted. All dimensions within ± 0.125". Specifications subject to change without notice.

UNIT FRONT



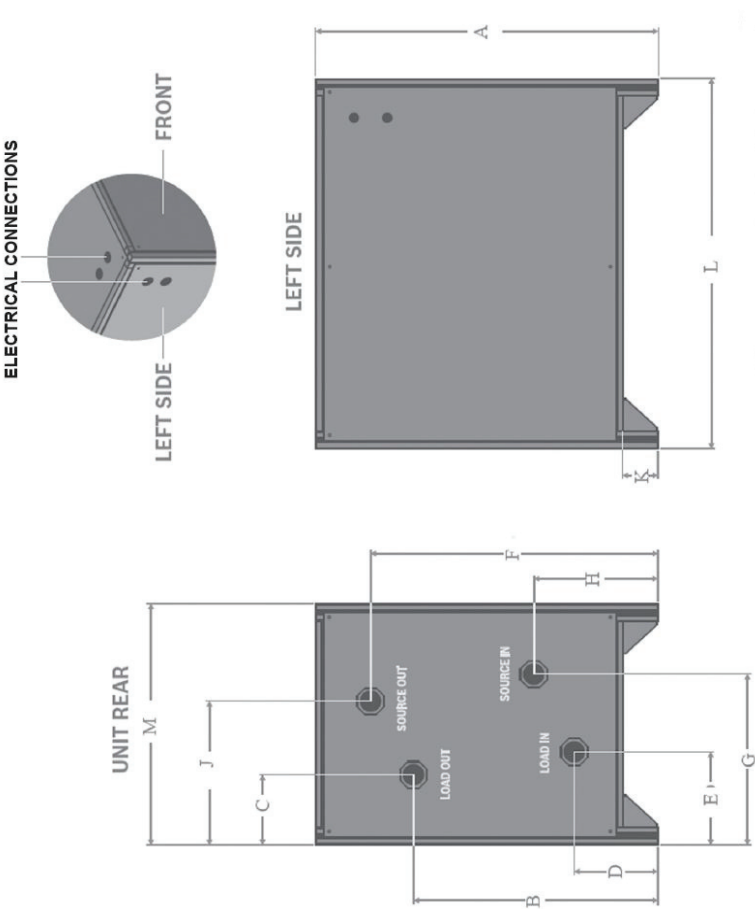
LEFT SIDE



DIMENSIONS CONTINUED

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	Water Conn.
GW120	37.5	27.62	7	8.38	9.25	33.5	20.75	13.5	17.5	3.5	46	28	1-1/4" FPT

NOTE: All dimensions are in inches unless otherwise noted. All dimensions within $\pm 0.125"$. Specifications subject to change without notice.



GW024 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		3 GPM						
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	3	1.5	0.6	60							
				80	12.8	1.21	8.6	88.5	3.1	0.5	1.2
				100	12.9	1.56	7.6	108.6	2.4	0.5	1.1
				120	13.1	1.98	6.3	128.7	1.9	0.5	1.1
	4.5	3.0	1.3	60	12.7	0.92	9.6	68.5	4.0	0.6	1.3
				80	12.9	1.21	8.8	88.6	3.1	0.5	1.2
				100	13.0	1.56	7.7	108.6	2.4	0.5	1.1
				120	13.2	1.98	6.4	128.8	1.9	0.5	1.1
	6	5.0	2.2	60	12.8	0.92	9.6	68.5	4.1	0.6	1.3
				80	13.0	1.21	8.8	88.6	3.1	0.5	1.2
				100	13.0	1.56	7.7	108.7	2.5	0.5	1.1
				120	13.2	1.98	6.4	128.8	2.0	0.5	1.1
50	3	1.4	0.6	60	15.8	0.93	12.6	70.5	5.0	0.6	1.3
				80	15.7	1.21	11.5	90.4	3.8	0.5	1.2
				100	15.5	1.56	10.2	110.3	2.9	0.5	1.1
				120	15.4	1.98	8.7	130.3	2.3	0.5	1.1
	4.5	2.8	1.2	60	16.0	0.93	12.9	70.7	5.1	0.6	1.3
				80	15.9	1.21	11.7	90.6	3.8	0.5	1.2
				100	15.6	1.56	10.3	110.4	2.9	0.5	1.1
				120	15.6	1.98	8.8	130.4	2.3	0.5	1.1
	6	4.7	2.0	60	16.2	0.93	13.0	70.8	5.1	0.6	1.3
				80	16.0	1.21	11.8	90.7	3.9	0.5	1.2
				100	15.7	1.56	10.4	110.5	3.0	0.5	1.1
				120	15.6	1.98	8.9	130.4	2.3	0.5	1.1
70	3	1.3	0.6	60	19.7	0.94	16.5	73.1	6.1	0.6	1.3
				80	19.2	1.22	15.0	92.8	4.6	0.5	1.2
				100	18.6	1.57	13.3	112.4	3.5	0.5	1.1
				120	18.2	1.98	11.5	132.2	2.7	0.5	1.1
	4.5	2.6	1.1	60	20.1	0.94	16.9	73.4	6.3	0.6	1.3
				80	19.5	1.23	15.3	93.0	4.7	0.5	1.2
				100	18.9	1.57	13.6	112.6	3.5	0.5	1.1
				120	18.4	1.98	11.7	132.3	2.7	0.5	1.1
	6	4.4	1.9	60	20.3	0.94	17.1	73.5	6.3	0.6	1.3
				80	19.7	1.23	15.5	93.1	4.7	0.5	1.2
				100	19.0	1.57	13.7	112.7	3.6	0.5	1.1
				120	18.6	1.98	11.8	132.4	2.8	0.5	1.1
90	3	1.2	0.5	60	24.3	0.96	21.1	76.2	7.5	0.5	1.3
				80	23.4	1.24	19.2	95.6	5.5	0.5	1.2
				100	22.4	1.58	17.1	115.0	4.2	0.5	1.1
				120	21.7	1.98	14.9	134.4	3.2	0.5	1.1
	4.5	2.5	1.1	60	24.9	0.96	21.7	76.6	7.6	0.5	1.3
				80	23.9	1.24	19.7	95.9	5.6	0.5	1.2
				100	22.8	1.58	17.5	115.2	4.2	0.5	1.1
				120	22.0	1.98	15.2	134.7	3.2	0.5	1.1
	6	4.1	1.8	60	25.3	0.96	22.0	76.8	7.7	0.5	1.3
				80	24.2	1.24	19.9	96.1	5.7	0.5	1.2
				100	23.1	1.58	17.7	115.4	4.3	0.5	1.1
				120	22.1	1.98	15.4	134.8	3.3	0.5	1.1

GW024 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD						
				4.5 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	3	1.5	0.6	12.7	1.17	8.7	84.2	3.2	1.8	4.2
				12.9	1.51	7.7	104.3	2.5	1.7	4.0
				13.0	1.9	6.46	124.3	2.0	1.6	3.7
	4.5	3.0	1.3	12.7	0.89	9.6	64.2	4.2	1.9	4.5
				12.9	1.17	8.9	84.3	3.2	1.8	4.2
				13.0	1.51	7.8	104.3	2.5	1.7	4.0
	6	5.0	2.2	13.1	1.93	6.5	124.4	2.0	1.6	3.7
				12.7	0.89	9.7	64.2	4.2	1.9	4.5
				12.9	1.17	8.9	84.3	3.2	1.8	4.2
	6	5.0	2.2	13.0	1.51	7.8	104.3	2.5	1.7	4.0
				13.2	1.93	6.6	124.4	2.0	1.6	3.7
				15.8	0.89	12.7	65.3	5.2	1.9	4.5
50	3	1.4	0.6	15.7	1.17	11.7	85.2	3.9	1.8	4.2
				15.5	1.51	10.4	105.2	3.0	1.7	4.0
				15.4	1.92	8.9	125.1	2.4	1.6	3.7
	4.5	2.8	1.2	16.0	0.89	13.0	65.3	5.3	1.9	4.5
				15.9	1.17	11.9	85.3	4.0	1.8	4.2
				15.7	1.51	10.5	105.2	3.0	1.7	4.0
	6	4.7	2.0	15.5	1.92	9.0	125.2	2.4	1.6	3.7
				16.2	0.89	13.1	65.4	5.3	1.9	4.5
				16.0	1.17	12.0	85.3	4.0	1.8	4.2
	6	4.7	2.0	15.8	1.51	10.6	105.3	3.1	1.7	4.0
				15.6	1.92	9.1	125.2	2.4	1.6	3.7
				19.7	0.90	16.7	66.6	6.5	1.9	4.5
70	3	1.3	0.6	19.3	1.17	15.3	86.4	4.8	1.8	4.2
				18.7	1.51	13.6	106.2	3.6	1.7	3.9
				18.3	1.91	11.8	126.1	2.8	1.6	3.7
	4.5	2.6	1.1	20.2	0.90	17.1	66.7	6.6	1.9	4.5
				19.6	1.18	15.6	86.5	4.9	1.8	4.2
				19.0	1.51	13.8	106.3	3.7	1.7	3.9
	6	4.4	1.9	18.5	1.91	12.0	126.2	2.8	1.6	3.7
				20.4	0.90	17.3	66.8	6.7	1.9	4.5
				19.8	1.18	15.8	86.6	4.9	1.8	4.2
	6	4.4	1.9	19.1	1.51	14.0	106.4	3.7	1.7	3.9
				18.6	1.91	12.1	126.2	2.9	1.6	3.7
				24.5	0.90	21.4	68.2	8.0	1.9	4.5
90	3	1.2	0.5	23.6	1.18	19.6	87.9	5.9	1.8	4.2
				22.6	1.51	17.5	107.5	4.4	1.7	3.9
				21.8	1.90	15.3	127.3	3.4	1.6	3.7
	4.5	2.5	1.1	25.1	0.90	22.1	68.4	8.2	1.9	4.5
				24.1	1.18	20.1	88.0	6.0	1.8	4.2
				23.0	1.51	17.9	107.7	4.5	1.7	3.9
	6	4.1	1.8	22.1	1.90	15.6	127.4	3.4	1.6	3.7
				25.5	0.90	22.4	68.5	8.3	1.9	4.5
				24.4	1.18	20.4	88.1	6.0	1.8	4.2
	6	4.1	1.8	23.3	1.51	18.1	107.8	4.5	1.7	3.9
				22.3	1.90	15.8	127.4	3.4	1.6	3.7

GW024 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD						
				6 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	3	1.5	0.6	12.7	1.17	8.7	84.2	3.2	1.8	4.2
				12.9	1.51	7.7	104.3	2.5	1.7	4.0
				13.0	1.9	6.46	124.3	2.0	1.6	3.7
	4.5	3.0	1.3	12.7	0.89	9.6	64.2	4.2	1.9	4.5
				12.9	1.17	8.9	84.3	3.2	1.8	4.2
				13.0	1.51	7.8	104.3	2.5	1.7	4.0
				13.1	1.93	6.5	124.4	2.0	1.6	3.7
	6	5.0	2.2	12.7	0.89	9.7	64.2	4.2	1.9	4.5
				12.9	1.17	8.9	84.3	3.2	1.8	4.2
				13.0	1.51	7.8	104.3	2.5	1.7	4.0
				13.2	1.93	6.6	124.4	2.0	1.6	3.7
50	3	1.4	0.6	15.8	0.89	12.7	65.3	5.2	1.9	4.5
				15.7	1.17	11.7	85.2	3.9	1.8	4.2
				15.5	1.51	10.4	105.2	3.0	1.7	4.0
				15.4	1.92	8.9	125.1	2.4	1.6	3.7
	4.5	2.8	1.2	16.0	0.89	13.0	65.3	5.3	1.9	4.5
				15.9	1.17	11.9	85.3	4.0	1.8	4.2
				15.7	1.51	10.5	105.2	3.0	1.7	4.0
				15.5	1.92	9.0	125.2	2.4	1.6	3.7
	6	4.7	2.0	16.2	0.89	13.1	65.4	5.3	1.9	4.5
				16.0	1.17	12.0	85.3	4.0	1.8	4.2
				15.8	1.51	10.6	105.3	3.1	1.7	4.0
				15.6	1.92	9.1	125.2	2.4	1.6	3.7
70	3	1.3	0.6	19.7	0.90	16.7	66.6	6.5	1.9	4.5
				19.3	1.17	15.3	86.4	4.8	1.8	4.2
				18.7	1.51	13.6	106.2	3.6	1.7	3.9
				18.3	1.91	11.8	126.1	2.8	1.6	3.7
	4.5	2.6	1.1	20.2	0.90	17.1	66.7	6.6	1.9	4.5
				19.6	1.18	15.6	86.5	4.9	1.8	4.2
				19.0	1.51	13.8	106.3	3.7	1.7	3.9
				18.5	1.91	12.0	126.2	2.8	1.6	3.7
	6	4.4	1.9	20.4	0.90	17.3	66.8	6.7	1.9	4.5
				19.8	1.18	15.8	86.6	4.9	1.8	4.2
				19.1	1.51	14.0	106.4	3.7	1.7	3.9
				18.6	1.91	12.1	126.2	2.9	1.6	3.7

GW024 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		3 GPM						
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	3	1.5	0.6	60							
				80	18.4	1.50	13.3	92.3	3.6	0.5	1.2
				100	18.3	1.96	11.6	112.2	2.7	0.5	1.1
				120	18.4	2.55	9.7	132.3	2.1	0.5	1.1
	4.5	3.0	1.3	60	19.0	1.16	15.0	72.7	4.8	0.6	1.3
				80	18.7	1.50	13.6	92.5	3.7	0.5	1.2
				100	18.6	1.96	11.9	112.4	2.8	0.5	1.1
				120	18.6	2.54	9.9	132.4	2.1	0.5	1.1
	6	5.1	2.2	60	19.2	1.16	15.2	72.8	4.9	0.6	1.3
				80	18.9	1.50	13.8	92.6	3.7	0.5	1.2
				100	18.7	1.96	12.0	112.5	2.8	0.5	1.1
				120	18.7	2.54	10.0	132.5	2.2	0.5	1.1
50	3	1.4	0.6	60	23.8	1.19	19.7	75.9	5.8	0.5	1.3
				80	23.2	1.52	18.1	95.5	4.5	0.5	1.2
				100	22.7	1.96	16.0	115.1	3.4	0.5	1.1
				120	22.3	2.52	13.7	134.9	2.6	0.5	1.1
	4.5	2.8	1.2	60	24.5	1.20	20.4	76.3	6.0	0.5	1.3
				80	23.8	1.53	18.6	95.9	4.6	0.5	1.2
				100	23.2	1.96	16.5	115.5	3.5	0.5	1.1
				120	22.7	2.52	14.1	135.1	2.6	0.5	1.1
	6	4.7	2.0	60	24.8	1.20	20.7	76.5	6.1	0.5	1.3
				80	24.1	1.53	18.9	96.1	4.6	0.5	1.2
				100	23.4	1.96	16.7	115.6	3.5	0.5	1.1
				120	22.8	2.52	14.2	135.2	2.7	0.5	1.1
70	3	1.3	0.6	60	30.1	1.24	25.9	80.1	7.1	0.5	1.3
				80	29.2	1.57	23.8	99.4	5.4	0.5	1.2
				100	28.1	2.01	21.3	118.8	4.1	0.5	1.1
				120							
	4.5	2.7	1.1	60	31.2	1.25	26.9	80.8	7.3	0.5	1.3
				80	30.1	1.58	24.7	100.0	5.6	0.5	1.2
				100	28.9	2.02	22.0	119.3	4.2	0.5	1.1
				120							
	6	4.4	1.9	60	31.7	1.25	27.5	81.2	7.4	0.5	1.3
				80	30.5	1.59	25.1	100.4	5.6	0.5	1.2
				100	29.3	2.03	22.4	119.5	4.2	0.5	1.1
				120							
90	3	1.2	0.5	60	37.7	1.30	33.2	85.1	8.5	0.5	1.2
				80	36.2	1.66	30.6	104.2	6.4	0.5	1.2
				100	34.7	2.12	27.5	123.1	4.8	0.5	1.1
				120							
	4.5	2.5	1.1	60	39.3	1.31	34.8	86.2	8.8	0.5	1.2
				80	37.6	1.68	31.9	105.1	6.6	0.5	1.2
				100							
				120							
	6	4.2	1.8	60							
				80							
				100							
				120							

GW024 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD						
				4.5 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	3	1.5	0.6	18.4	1.44	13.5	86.1	3.8	1.8	4.2
				18.3	1.88	11.9	106.1	2.9	1.7	3.9
				18.4	2.4	10.03	126.1	2.2	1.6	3.7
	4.5	3.0	1.3	19.0	1.11	15.2	66.3	5.0	1.9	4.5
				18.8	1.44	13.9	86.3	3.8	1.8	4.2
				18.6	1.88	12.2	106.2	2.9	1.7	3.9
	6	5.1	2.2	18.6	2.44	10.2	126.2	2.2	1.6	3.7
				19.2	1.11	15.4	66.4	5.1	1.9	4.5
				18.9	1.44	14.0	86.3	3.9	1.8	4.2
	6	5.1	2.2	18.7	1.88	12.3	106.2	2.9	1.7	3.9
				18.7	2.44	10.4	126.2	2.2	1.6	3.7
				23.9	1.14	20.0	68.0	6.1	1.9	4.5
50	3	1.4	0.6	23.4	1.45	18.4	87.8	4.7	1.8	4.2
				22.8	1.87	16.4	107.6	3.6	1.7	3.9
				22.4	2.40	14.2	127.5	2.7	1.6	3.7
	4.5	2.8	1.2	24.6	1.15	20.7	68.2	6.3	1.9	4.5
				23.9	1.45	19.0	88.0	4.8	1.8	4.2
				23.3	1.87	16.9	107.8	3.7	1.7	3.9
	6	4.7	2.0	22.7	2.40	14.5	127.6	2.8	1.6	3.7
				25.0	1.15	21.0	68.3	6.4	1.9	4.5
				24.2	1.45	19.3	88.1	4.9	1.8	4.2
	6	4.7	2.0	23.5	1.87	17.2	107.8	3.7	1.7	3.9
				22.9	2.40	14.7	127.6	2.8	1.6	3.7
				30.4	1.17	26.4	70.1	7.6	1.9	4.4
70	3	1.3	0.6	29.4	1.48	24.3	89.8	5.8	1.8	4.2
				28.4	1.90	21.9	109.5	4.4	1.7	3.9
				27.4	2.43	19.1	129.1	3.3	1.6	3.7
	4.5	2.7	1.1	31.4	1.18	27.4	70.5	7.8	1.9	4.4
				30.3	1.49	25.3	90.1	6.0	1.8	4.2
				29.2	1.90	22.7	109.7	4.5	1.7	3.9
	6	4.4	1.9	28.0	2.43	19.7	129.3	3.4	1.6	3.7
				32.0	1.18	28.0	70.7	8.0	1.9	4.4
				30.9	1.49	25.8	90.3	6.1	1.8	4.2
	6	4.4	1.9	29.6	1.91	23.1	109.9	4.5	1.7	3.9
				28.3	2.44	20.0	129.4	3.4	1.6	3.7
				38.1	1.20	34.0	72.7	9.3	1.9	4.4
90	3	1.2	0.5	36.7	1.54	31.5	92.2	7.0	1.8	4.2
				35.2	1.97	28.4	111.7	5.2	1.7	3.9
				39.8	1.21	35.7	73.3	9.7	1.9	4.4
	4.5	2.5	1.1	38.2	1.55	32.9	92.7	7.2	1.8	4.2
	6	4.2	1.8							
	6	4.2	1.8							

GW024 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD						
				6 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	3	1.5	0.6	18.4	1.44	13.5	86.1	3.8	1.8	4.2
				18.3	1.88	11.9	106.1	2.9	1.7	3.9
				18.4	2.4	10.03	126.1	2.2	1.6	3.7
				19.0	1.11	15.2	66.3	5.0	1.9	4.5
	4.5	3.0	1.3	18.8	1.44	13.9	86.3	3.8	1.8	4.2
				18.6	1.88	12.2	106.2	2.9	1.7	3.9
				18.6	2.44	10.2	126.2	2.2	1.6	3.7
				19.2	1.11	15.4	66.4	5.1	1.9	4.5
	6	5.1	2.2	18.9	1.44	14.0	86.3	3.9	1.8	4.2
				18.7	1.88	12.3	106.2	2.9	1.7	3.9
				18.7	2.44	10.4	126.2	2.2	1.6	3.7
				19.2	1.14	20.0	68.0	6.1	1.9	4.5
50	3	1.4	0.6	23.4	1.45	18.4	87.8	4.7	1.8	4.2
				22.8	1.87	16.4	107.6	3.6	1.7	3.9
				22.4	2.40	14.2	127.5	2.7	1.6	3.7
				24.6	1.15	20.7	68.2	6.3	1.9	4.5
	4.5	2.8	1.2	23.9	1.45	19.0	88.0	4.8	1.8	4.2
				23.3	1.87	16.9	107.8	3.7	1.7	3.9
				22.7	2.40	14.5	127.6	2.8	1.6	3.7
				25.0	1.15	21.0	68.3	6.4	1.9	4.5
	6	4.7	2.0	24.2	1.45	19.3	88.1	4.9	1.8	4.2
				23.5	1.87	17.2	107.8	3.7	1.7	3.9
				22.9	2.40	14.7	127.6	2.8	1.6	3.7
				30.4	1.17	26.4	70.1	7.6	1.9	4.4
70	3	1.3	0.6	29.4	1.48	24.3	89.8	5.8	1.8	4.2
				28.4	1.90	21.9	109.5	4.4	1.7	3.9
				27.4	2.43	19.1	129.1	3.3	1.6	3.7
				31.4	1.18	27.4	70.5	7.8	1.9	4.4
	4.5	2.7	1.1	30.3	1.49	25.3	90.1	6.0	1.8	4.2
				29.2	1.90	22.7	109.7	4.5	1.7	3.9
				28.0	2.43	19.7	129.3	3.4	1.6	3.7
				32.0	1.18	28.0	70.7	8.0	1.9	4.4
	6	4.4	1.9	30.9	1.49	25.8	90.3	6.1	1.8	4.2
				29.6	1.91	23.1	109.9	4.5	1.7	3.9
				28.3	2.44	20.0	129.4	3.4	1.6	3.7
90	3	1.2	0.5	38.1	1.20	34.0	72.7	9.3	1.9	4.4
				36.7	1.54	31.5	92.2	7.0	1.8	4.2
				35.2	1.97	28.4	111.7	5.2	1.7	3.9
				33.6	2.52	25.0	131.2	3.9	1.6	3.7
	4.5	2.5	1.1	39.8	1.21	35.7	73.3	9.7	1.9	4.4
				38.2	1.55	32.9	92.7	7.2	1.8	4.2
	6	4.2	1.8							

GW024 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	3 GPM							
				EWT	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	3	0.6	1.3	50	13.0	0.8	15.7	36.4	16.2	1.4	0.6
				60	14.9	0.81	17.7	50.0	18.5	1.3	0.6
				70	17.1	0.81	19.8	58.6	21.0	1.3	0.6
				80	19.4	0.82	22.2	67.1	23.6	1.2	0.5
				90	21.9	0.83	24.7	75.4	26.5	1.2	0.5
	4.5	1.0	2.4	50	13.1	0.78	15.7	41.3	16.7	1.4	0.6
				60	15.0	0.78	17.7	50.0	19.1	1.3	0.6
				70	17.2	0.79	19.9	58.5	21.8	1.3	0.6
				80	19.6	0.79	22.2	67.0	24.7	1.2	0.5
				90	22.1	0.79	24.8	75.3	27.8	1.2	0.5
	6	1.6	3.7	50	13.1	0.77	15.7	41.3	16.9	1.4	0.6
				60	15.1	0.77	17.7	50.0	19.5	1.3	0.6
				70	17.2	0.77	19.9	58.5	22.3	1.3	0.6
				80	19.6	0.78	22.3	66.9	25.3	1.2	0.5
				90	22.2	0.78	24.9	75.2	28.6	1.2	0.5
70	3	1.6	3.8	50	12.1	1.06	15.7	41.9	11.4	1.4	0.6
				60	13.9	1.07	17.5	50.8	13.0	1.3	0.6
				70	15.8	1.08	19.4	59.5	14.7	1.3	0.6
				80	17.9	1.08	21.6	68.1	16.5	1.2	0.5
				90	20.1	1.09	23.9	76.6	18.4	1.2	0.5
	4.5	0.5	1.2	50	12.2	1.04	15.8	41.9	11.7	1.4	0.6
				60	14.0	1.04	17.5	50.7	13.4	1.3	0.6
				70	15.9	1.04	19.5	59.4	15.3	1.3	0.6
				80	18.1	1.05	21.7	68.0	17.2	1.2	0.5
				90	20.4	1.05	24.0	76.4	19.3	1.2	0.5
	6	1.1	2.6	50	12.3	1.03	15.8	41.8	11.9	1.4	0.6
				60	14.0	1.03	17.6	50.6	13.7	1.3	0.6
				70	16.0	1.03	19.5	59.3	15.6	1.3	0.6
				80	18.2	1.03	21.7	67.9	17.6	1.2	0.5
				90	20.5	1.04	24.1	76.3	19.8	1.2	0.5
90	3	1.7	3.9	50	10.9	1.38	15.6	42.8	7.9	1.4	0.6
				60	12.4	1.38	17.2	51.7	9.0	1.3	0.6
				70	14.2	1.39	18.9	60.6	10.2	1.3	0.6
				80	16.1	1.39	20.8	69.3	11.5	1.2	0.5
				90	18.1	1.40	22.9	77.9	12.9	1.2	0.5
	4.5	1.2	2.7	50	11.0	1.35	15.6	42.7	8.2	1.4	0.6
				60	12.6	1.35	17.2	51.6	9.3	1.3	0.6
				70	14.3	1.35	19.0	60.4	10.6	1.3	0.6
				80	16.3	1.35	20.9	69.1	12.0	1.2	0.5
				90	18.4	1.36	23.0	77.7	13.5	1.2	0.5
	6	0.6	1.5	50	11.0	1.33	15.6	42.6	8.3	1.4	0.6
				60	12.7	1.33	17.2	51.6	9.5	1.3	0.6
				70	14.4	1.33	19.0	60.4	10.8	1.3	0.6
				80	16.4	1.34	20.9	69.1	12.3	1.2	0.5
				90	18.5	1.34	23.1	77.6	13.8	1.2	0.5
110	3	1.0	2.4	50	9.4	1.76	15.4	43.7	5.4	1.4	0.6
				60	10.8	1.76	16.8	52.8	6.2	1.3	0.6
				70	12.4	1.76	18.4	61.7	7.0	1.3	0.6
				80	14.1	1.77	20.1	70.6	8.0	1.2	0.5
				90	16.0	1.77	22.0	79.4	9.0	1.2	0.5
	4.5	1.8	4.1	50	9.6	1.72	15.4	43.6	5.6	1.4	0.6
				60	11.0	1.72	16.9	52.7	6.4	1.3	0.6
				70	12.6	1.72	18.4	61.6	7.3	1.3	0.6
				80	14.3	1.72	20.2	70.5	8.3	1.2	0.5
				90	16.2	1.72	22.1	79.2	9.4	1.2	0.5
	6	0.8	1.8	50	9.6	1.70	15.4	43.6	5.6	1.4	0.6
				60	11.1	1.70	16.9	52.6	6.5	1.3	0.6
				70	12.7	1.70	18.5	61.6	7.5	1.3	0.6
				80	14.4	1.70	20.2	70.4	8.5	1.2	0.5
				90	16.4	1.70	22.2	79.1	9.6	1.2	0.5

GW024 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD						
				4.5 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	3	0.6	1.3	13.3	0.8	16.0	44.1	16.5	2.8	1.2
				15.3	0.81	18.1	53.2	18.9	2.7	1.2
				17.5	0.81	20.3	62.2	21.5	2.6	1.1
				19.9	0.82	22.7	71.1	24.3	2.6	1.1
				22.6	0.83	25.4	80.0	27.2	2.5	1.1
	4.5	1.0	2.4	13.3	0.78	16.0	44.1	17.0	2.8	1.2
				15.4	0.79	18.1	53.2	19.6	2.7	1.2
				17.6	0.79	20.3	62.2	22.4	2.6	1.1
				20.1	0.79	22.8	71.1	25.4	2.6	1.1
				22.8	0.80	25.5	79.9	28.7	2.5	1.1
	6	1.6	3.7	13.4	0.77	16.0	44.1	17.3	2.8	1.2
				15.4	0.77	18.1	53.1	19.9	2.7	1.2
				17.7	0.77	20.3	62.1	22.9	2.6	1.1
				20.2	0.78	22.8	71.0	26.0	2.6	1.1
				22.9	0.78	25.6	79.8	29.4	2.5	1.1
	70	3	1.6	3.8	12.3	1.06	16.0	44.5	11.6	2.8
14.2					1.07	17.8	53.7	13.2	2.7	1.2
16.1					1.08	19.8	62.8	15.0	2.6	1.1
18.3					1.08	22.0	71.9	16.9	2.6	1.1
20.7					1.09	24.4	80.8	18.9	2.5	1.1
4.5		0.5	1.2	12.4	1.04	16.0	44.5	12.0	2.8	1.2
				14.3	1.04	17.8	53.7	13.7	2.7	1.2
				16.3	1.05	19.9	62.8	15.6	2.6	1.1
				18.5	1.05	22.1	71.8	17.7	2.6	1.1
				21.0	1.06	24.6	80.7	19.9	2.5	1.1
6		1.1	2.6	12.5	1.03	16.0	44.4	12.2	2.8	1.2
				14.3	1.03	17.9	53.6	14.0	2.7	1.2
				16.4	1.03	19.9	62.7	15.9	2.6	1.1
				18.6	1.03	22.2	71.7	18.0	2.6	1.1
				21.1	1.04	24.6	80.6	20.4	2.5	1.1
90		3	1.7	3.9	11.1	1.38	15.8	45.1	8.0	2.8
	12.7				1.38	17.4	54.4	9.2	2.7	1.2
	14.5				1.39	19.2	63.6	10.4	2.6	1.1
	16.4				1.40	21.2	72.7	11.8	2.6	1.1
	18.6				1.40	23.4	81.7	13.2	2.5	1.1
	4.5	1.2	2.7	11.2	1.35	15.8	45.0	8.3	2.8	1.2
				12.8	1.35	17.4	54.3	9.5	2.7	1.2
				14.6	1.35	19.3	63.5	10.8	2.6	1.1
				16.7	1.36	21.3	72.6	12.3	2.6	1.1
				18.9	1.36	23.5	81.6	13.9	2.5	1.1
	6	0.6	1.5	11.2	1.33	15.8	45.0	8.4	2.8	1.2
				12.9	1.33	17.5	54.3	9.7	2.7	1.2
				14.7	1.33	19.3	63.4	11.1	2.6	1.1
				16.8	1.34	21.3	72.5	12.6	2.6	1.1
				19.0	1.34	23.6	81.6	14.2	2.5	1.1
	110	3	1.0	2.4	9.6	1.76	15.6	45.7	5.4	2.8
11.0					1.76	17.0	55.1	6.3	2.7	1.2
12.6					1.76	18.6	64.4	7.2	2.6	1.1
14.4					1.77	20.4	73.6	8.1	2.6	1.1
16.3					1.77	22.4	82.7	9.2	2.5	1.1
4.5		1.8	4.1	9.7	1.72	15.6	45.7	5.6	2.8	1.2
				11.2	1.72	17.1	55.0	6.5	2.7	1.2
				12.8	1.72	18.7	64.3	7.5	2.6	1.1
				14.6	1.72	20.5	73.5	8.5	2.6	1.1
				16.6	1.72	22.5	82.6	9.6	2.5	1.1
6		0.8	1.8	9.8	1.70	15.6	45.7	5.7	2.8	1.2
				11.3	1.70	17.1	55.0	6.6	2.7	1.2
				12.9	1.70	18.7	64.3	7.6	2.6	1.1
				14.7	1.70	20.5	73.4	8.7	2.6	1.1
				16.7	1.70	22.5	82.6	9.9	2.5	1.1

GW024 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD						
				6 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	3	0.6	1.3	13.4	0.8	16.2	45.5	16.7	4.7	2.0
				15.5	0.81	18.2	54.8	19.1	4.6	2.0
				17.7	0.82	20.5	64.1	21.8	4.4	1.9
				20.2	0.82	23.0	73.3	24.6	4.3	1.9
				22.9	0.83	25.8	82.4	27.6	4.2	1.8
	4.5	1.0	2.4	13.5	0.78	16.2	45.5	17.2	4.7	2.0
				15.6	0.79	18.3	54.8	19.8	4.6	2.0
				17.9	0.79	20.6	64.0	22.7	4.4	1.9
				20.4	0.79	23.1	73.2	25.8	4.3	1.9
				23.2	0.80	25.9	82.3	29.1	4.2	1.8
	6	1.6	3.7	13.5	0.77	16.2	45.5	17.5	4.7	2.0
				15.6	0.77	18.3	54.8	20.2	4.6	2.0
				17.9	0.77	20.6	64.0	23.2	4.4	1.9
				20.5	0.78	23.1	73.2	26.4	4.3	1.9
				23.3	0.78	25.9	82.2	29.9	4.2	1.8
70	3	1.6	3.8	12.5	1.06	16.1	45.8	11.7	4.7	2.0
				14.3	1.07	18.0	55.2	13.4	4.6	2.0
				16.3	1.08	20.0	64.6	15.2	4.4	1.9
				18.6	1.09	22.3	73.8	17.1	4.3	1.9
				21.0	1.10	24.7	83.0	19.2	4.2	1.8
	4.5	0.5	1.2	12.6	1.04	16.1	45.8	12.1	4.7	2.0
				14.4	1.04	18.0	55.2	13.9	4.6	2.0
				16.5	1.05	20.1	64.5	15.8	4.4	1.9
				18.8	1.05	22.4	73.7	17.9	4.3	1.9
				21.3	1.06	24.9	82.9	20.1	4.2	1.8
	6	1.1	2.6	12.6	1.03	16.1	45.8	12.3	4.7	2.0
				14.5	1.03	18.0	55.2	14.1	4.6	2.0
				16.6	1.03	20.1	64.5	16.1	4.4	1.9
				18.9	1.03	22.4	73.7	18.3	4.3	1.9
				21.4	1.04	25.0	82.9	20.6	4.2	1.8
90	3	1.7	3.9	11.2	1.38	15.9	46.3	8.1	4.7	2.0
				12.8	1.38	17.5	55.7	9.3	4.6	2.0
				14.6	1.39	19.3	65.1	10.5	4.4	1.9
				16.6	1.40	21.4	74.5	11.9	4.3	1.9
				18.8	1.41	23.6	83.7	13.4	4.1	1.8
	4.5	1.2	2.7	11.3	1.35	15.9	46.2	8.4	4.7	2.0
				13.0	1.35	17.6	55.7	9.6	4.6	2.0
				14.8	1.35	19.4	65.1	11.0	4.4	1.9
				16.9	1.36	21.5	74.4	12.4	4.3	1.9
				19.1	1.36	23.7	83.6	14.0	4.1	1.8
	6	0.6	1.5	11.3	1.33	15.9	46.2	8.5	4.7	2.0
				13.0	1.33	17.6	55.7	9.8	4.6	2.0
				14.9	1.33	19.5	65.0	11.2	4.4	1.9
				17.0	1.34	21.5	74.3	12.7	4.3	1.9
				19.3	1.34	23.8	83.6	14.4	4.1	1.8
110	3	1.0	2.4	9.6	1.76	15.6	46.8	5.5	4.7	2.0
				11.1	1.76	17.1	56.3	6.3	4.6	2.0
				12.7	1.76	18.8	65.8	7.2	4.4	1.9
				14.5	1.77	20.6	75.2	8.2	4.3	1.8
				16.5	1.77	22.6	84.5	9.3	4.1	1.8
	4.5	1.8	4.1	9.8	1.72	15.7	46.7	5.7	4.7	2.0
				11.3	1.72	17.2	56.2	6.6	4.6	2.0
				12.9	1.72	18.8	65.7	7.5	4.4	1.9
				14.8	1.72	20.6	75.1	8.6	4.3	1.8
				16.8	1.72	22.7	84.4	9.7	4.1	1.8
	6	0.8	1.8	9.8	1.70	15.7	46.7	5.8	4.7	2.0
				11.4	1.70	17.2	56.2	6.7	4.6	2.0
				13.0	1.70	18.8	65.7	7.7	4.4	1.9
				14.9	1.70	20.7	75.0	8.8	4.3	1.8
				16.9	1.70	22.7	84.4	10.0	4.1	1.8

GW024 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	3 GPM							
				EWT	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	3	0.6	1.3	50	20.4	1.1	24.1	36.4	19.1	1.4	0.6
				60	23.4	1.09	27.2	44.4	21.5	1.3	0.6
				70	26.8	1.11	30.6	52.1	24.1	1.3	0.6
				80	30.4	1.13	34.3	59.7	26.9	1.3	0.5
				90	34.4	1.15	38.3	67.1	29.9	1.2	0.5
	4.5	1.0	2.4	50	20.6	1.04	24.1	36.3	19.8	1.4	0.6
				60	23.7	1.06	27.3	44.2	22.4	1.3	0.6
				70	27.1	1.07	30.7	52.0	25.2	1.3	0.6
				80	30.8	1.08	34.5	59.5	28.4	1.3	0.5
				90							
	6	1.6	3.7	50	20.7	1.03	24.2	36.2	20.1	1.4	0.6
				60	23.8	1.04	27.3	44.2	22.8	1.3	0.6
				70	27.2	1.05	30.8	51.9	25.8	1.3	0.6
				80	31.0	1.06	34.6	59.4	29.1	1.3	0.5
				90							
70	3	1.6	3.8	50	18.9	1.34	23.5	37.4	14.1	1.4	0.6
				60	21.8	1.37	26.4	45.5	15.9	1.3	0.6
				70	24.9	1.39	29.7	53.4	17.9	1.3	0.6
				80	28.3	1.43	33.2	61.1	19.8	1.3	0.5
				90	32.0	1.46	37.0	68.7	21.8	1.2	0.5
	4.5	0.5	1.2	50	19.2	1.30	23.6	37.2	14.7	1.4	0.6
				60	22.1	1.32	26.6	45.3	16.7	1.3	0.6
				70	25.2	1.34	29.8	53.2	18.8	1.3	0.6
				80	28.7	1.36	33.4	60.8	21.1	1.3	0.5
				90	32.5	1.39	37.3	68.3	23.4	1.2	0.5
	6	1.1	2.6	50	19.3	1.28	23.6	37.2	15.0	1.4	0.6
				60	22.2	1.30	26.6	45.2	17.1	1.3	0.6
				70	25.4	1.31	29.9	53.1	19.3	1.3	0.6
				80	28.9	1.33	33.5	60.7	21.7	1.3	0.5
				90	32.8	1.36	37.4	68.1	24.2	1.2	0.5
90	3	1.7	3.9	50	17.1	1.73	23.0	38.6	9.9	1.4	0.6
				60	19.7	1.75	25.7	46.9	11.3	1.3	0.6
				70	22.6	1.78	28.7	54.9	12.7	1.3	0.6
				80	25.7	1.82	31.9	62.9	14.1	1.3	0.5
				90	29.1	1.87	35.5	70.6	15.5	1.2	0.5
	4.5	1.2	2.7	50	17.3	1.67	23.0	38.4	10.4	1.4	0.6
				60	20.0	1.69	25.8	46.6	11.9	1.3	0.6
				70	23.0	1.71	28.8	54.7	13.4	1.3	0.6
				80	26.2	1.74	32.1	62.5	15.0	1.3	0.5
				90	29.7	1.79	35.8	70.2	16.6	1.2	0.5
	6	0.6	1.5	50	17.5	1.64	23.1	38.4	10.6	1.4	0.6
				60	20.2	1.66	25.8	46.5	12.2	1.3	0.6
				70	23.2	1.68	28.9	54.5	13.8	1.3	0.6
				80	26.4	1.70	32.3	62.4	15.5	1.3	0.5
				90	30.0	1.74	36.0	70.0	17.2	1.2	0.5
110	3	1.0	2.4	50	14.9	2.22	22.5	40.1	6.7	1.4	0.6
				60	17.3	2.24	24.9	48.5	7.7	1.3	0.6
				70	19.9	2.27	27.6	56.7	8.8	1.3	0.6
				80	22.7	2.32	30.6	64.9	9.8	1.2	0.5
				90	25.8	2.39	33.9	72.8	10.8	1.2	0.5
	4.5	1.8	4.0	50	15.2	2.15	22.6	39.9	7.1	1.4	0.6
				60	17.7	2.16	25.0	48.2	8.2	1.3	0.6
				70	20.3	2.19	27.8	56.4	9.3	1.3	0.6
				80	23.3	2.23	30.9	64.5	10.4	1.2	0.5
				90	26.4	2.28	34.2	72.4	11.6	1.2	0.5
	6	0.8	1.8	50	15.3	2.12	22.6	39.8	7.2	1.4	0.6
				60	17.8	2.13	25.1	48.1	8.4	1.3	0.6
				70	20.6	2.15	27.9	56.3	9.6	1.3	0.6
				80	23.5	2.18	31.0	64.3	10.8	1.2	0.5
				90	26.8	2.23	34.4	72.2	12.0	1.2	0.5

GW024 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD						
				4.5 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	3	0.6	1.3	21.1	1.1	24.8	40.6	19.6	2.8	1.2
				24.3	1.10	28.1	49.2	22.2	2.7	1.2
				27.9	1.12	31.7	57.6	25.0	2.7	1.2
				31.8	1.14	35.7	65.9	28.0	2.6	1.1
	4.5	1.0	2.4	21.3	1.05	24.8	40.5	20.4	2.8	1.2
				24.6	1.06	28.2	49.1	23.1	2.7	1.2
				28.2	1.08	31.9	57.5	26.2	2.7	1.2
				32.2	1.09	35.9	65.7	29.6	2.6	1.1
	6	1.6	3.7	21.4	1.03	24.9	40.5	20.7	2.8	1.2
				24.7	1.05	28.2	49.0	23.6	2.7	1.2
				28.3	1.06	31.9	57.4	26.8	2.7	1.2
70	3	1.6	3.8	19.5	1.35	24.1	41.3	14.5	2.8	1.2
				22.5	1.37	27.2	50.0	16.4	2.7	1.2
				25.8	1.40	30.6	58.5	18.4	2.7	1.2
				29.5	1.44	34.4	66.9	20.5	2.6	1.1
	4.5	0.5	1.2	33.4	1.48	38.5	75.1	22.6	2.5	1.1
				19.8	1.31	24.2	41.2	15.1	2.8	1.2
				22.8	1.32	27.4	49.9	17.2	2.7	1.2
				26.2	1.35	30.8	58.3	19.5	2.7	1.2
	6	1.1	2.6	30.0	1.37	34.6	66.7	21.8	2.6	1.1
				34.0	1.40	38.8	74.9	24.3	2.5	1.1
				19.9	1.29	24.3	41.2	15.5	2.8	1.2
				23.0	1.30	27.4	49.8	17.7	2.7	1.2
				26.4	1.32	30.9	58.3	20.0	2.7	1.2
				30.2	1.34	34.8	66.6	22.5	2.6	1.1
				34.3	1.37	39.0	74.7	25.1	2.5	1.1
90	3	1.7	3.9	17.6	1.73	23.5	42.2	10.2	2.8	1.2
				20.3	1.75	26.3	51.0	11.6	2.7	1.2
				23.4	1.79	29.5	59.6	13.1	2.7	1.1
				26.7	1.84	33.0	68.1	14.5	2.6	1.1
	4.5	1.2	2.7	17.9	1.67	23.6	42.1	10.7	2.8	1.2
				20.7	1.69	26.5	50.8	12.2	2.7	1.2
				23.8	1.72	29.7	59.4	13.9	2.7	1.1
				27.2	1.75	33.2	67.9	15.5	2.6	1.1
	6	0.6	1.5	31.0	1.80	37.1	76.2	17.2	2.5	1.1
				18.0	1.65	23.6	42.0	10.9	2.8	1.2
				20.9	1.66	26.5	50.7	12.6	2.7	1.2
				24.0	1.68	29.8	59.3	14.3	2.7	1.1
				27.5	1.71	33.4	67.8	16.0	2.6	1.1
				31.3	1.76	37.3	76.1	17.8	2.5	1.1
110	3	1.0	2.4	15.3	2.22	22.9	43.2	6.9	2.8	1.2
				17.8	2.24	25.5	52.1	7.9	2.7	1.2
				20.5	2.28	28.3	60.9	9.0	2.6	1.1
				23.5	2.34	31.5	69.6	10.0	2.6	1.1
	4.5	1.8	4.0	15.6	2.15	23.0	43.1	7.2	2.8	1.2
				18.2	2.17	25.6	51.9	8.4	2.7	1.2
				21.0	2.20	28.5	60.7	9.6	2.6	1.1
				24.1	2.24	31.7	69.3	10.7	2.6	1.1
	6	0.8	1.8	15.8	2.12	23.0	43.0	7.4	2.8	1.2
				18.4	2.13	25.6	51.8	8.6	2.7	1.2
				21.2	2.15	28.6	60.6	9.9	2.6	1.1
				24.4	2.19	31.9	69.2	11.1	2.6	1.1
				27.8	2.25	35.5	77.6	12.4	2.5	1.1

GW024 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD						
				6 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	3	0.6	1.3	21.5	1.1	25.1	42.8	19.9	4.7	2.1
				24.8	1.10	28.5	51.7	22.6	4.6	2.0
				28.5	1.12	32.3	60.5	25.4	4.4	1.9
				32.5	1.14	36.4	69.2	28.5	4.3	1.9
	4.5	1.0	2.4	21.7	1.05	25.2	42.8	20.7	4.7	2.1
				25.0	1.06	28.7	51.7	23.5	4.6	2.0
				28.8	1.08	32.5	60.4	26.7	4.4	1.9
	6	1.6	3.7	21.8	1.03	25.3	42.7	21.1	4.7	2.1
				25.2	1.05	28.7	51.6	24.0	4.6	2.0
				29.0	1.06	32.6	60.3	27.4	4.4	1.9
70	3	1.6	3.8	19.8	1.35	24.5	43.4	14.7	4.7	2.1
				22.9	1.38	27.6	52.4	16.7	4.6	2.0
				26.4	1.41	31.2	61.2	18.7	4.4	1.9
				30.1	1.44	35.0	70.0	20.9	4.3	1.9
	4.5	0.5	1.2	34.2	1.49	39.3	78.6	23.0	4.2	1.8
				20.1	1.31	24.6	43.3	15.4	4.7	2.1
				23.3	1.33	27.8	52.2	17.5	4.6	2.0
				26.8	1.35	31.4	61.1	19.8	4.4	1.9
	6	1.1	2.6	30.6	1.38	35.3	69.8	22.2	4.3	1.9
				34.9	1.41	39.7	78.4	24.7	4.2	1.8
				20.2	1.29	24.6	43.3	15.7	4.7	2.1
				23.4	1.30	27.9	52.2	18.0	4.6	2.0
				27.0	1.32	31.5	61.0	20.4	4.4	1.9
				30.9	1.34	35.5	69.7	23.0	4.3	1.9
				35.2	1.37	39.9	78.3	25.7	4.2	1.8
90	3	1.7	3.9	17.8	1.73	23.8	44.1	10.3	4.7	2.0
				20.7	1.76	26.7	53.1	11.8	4.6	2.0
				23.8	1.79	29.9	62.1	13.3	4.4	1.9
				27.2	1.84	33.5	70.9	14.8	4.3	1.9
	4.5	1.2	2.7	18.1	1.67	23.8	44.0	10.8	4.7	2.0
				21.0	1.69	26.8	53.0	12.4	4.6	2.0
				24.3	1.72	30.1	61.9	14.1	4.4	1.9
				27.8	1.76	33.8	70.7	15.8	4.3	1.9
	6	0.6	1.5	18.3	1.65	23.9	43.9	11.1	4.7	2.0
				21.2	1.66	26.9	52.9	12.8	4.6	2.0
				24.5	1.69	30.2	61.8	14.5	4.4	1.9
				28.1	1.72	33.9	70.6	16.3	4.3	1.9
110	3	1.0	2.4	15.5	2.23	23.1	44.8	7.0	4.7	2.0
				18.1	2.25	25.7	54.0	8.0	4.6	2.0
				20.8	2.29	28.7	63.1	9.1	4.4	1.9
				23.9	2.35	31.9	72.0	10.2	4.3	1.9
	4.5	1.8	4.0	15.8	2.15	23.2	44.7	7.3	4.7	2.0
				18.5	2.17	25.9	53.8	8.5	4.6	2.0
				21.3	2.20	28.9	62.9	9.7	4.4	1.9
				24.5	2.25	32.2	71.8	10.9	4.3	1.9
	6	0.8	1.8	16.0	2.12	23.2	44.7	7.5	4.7	2.0
				18.7	2.13	25.9	53.8	8.8	4.6	2.0
				21.6	2.16	29.0	62.8	10.0	4.4	1.9
				24.8	2.20	32.3	71.7	11.3	4.3	1.9
				28.4	2.26	36.1	80.5	12.6	4.2	1.8

GW036 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	4.5 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	60	17.9	1.2	13.7	36.4	4.2	1.2	2.7
				80	18.1	1.61	12.6	88.0	3.3	1.1	2.5
				100	17.9	2.10	10.8	108.0	2.5	1.0	2.3
				120	17.6	2.74	8.2	127.8	1.9	1.0	2.2
	6.75	6.3	2.7	60	18.2	1.24	13.9	68.1	4.3	1.2	2.7
				80	18.3	1.61	12.8	88.1	3.3	1.1	2.5
				100	18.1	2.10	11.0	108.1	2.5	1.0	2.3
				120	17.7	2.74	8.4	127.9	1.9	1.0	2.2
	9	10.5	4.5	60	18.3	1.24	14.1	68.1	4.3	1.2	2.7
				80	18.4	1.61	12.9	88.2	3.4	1.1	2.5
				100	18.2	2.10	11.1	108.1	2.5	1.0	2.3
				120	17.8	2.74	8.4	127.9	1.9	1.0	2.2
50	4.5	2.8	1.2	60	23.4	1.23	19.2	70.4	5.6	1.1	2.7
				80	23.3	1.60	17.9	90.4	4.3	1.1	2.5
				100	23.0	2.08	15.9	110.2	3.2	1.0	2.3
				120	22.4	2.72	13.1	130.0	2.4	1.0	2.2
	6.75	5.8	2.5	60	23.8	1.23	19.6	70.6	5.7	1.1	2.6
				80	23.7	1.59	18.3	90.5	4.4	1.1	2.5
				100	23.3	2.08	16.2	110.4	3.3	1.0	2.3
				120	22.7	2.72	13.4	130.1	2.4	1.0	2.2
	9	9.8	4.2	60	24.0	1.23	19.9	70.7	5.7	1.1	2.6
				80	23.9	1.59	18.5	90.6	4.4	1.1	2.5
				100	23.5	2.08	16.4	110.4	3.3	1.0	2.3
				120	22.8	2.72	13.5	130.1	2.5	1.0	2.2
70	4.5	2.7	1.1	60	30.0	1.19	26.0	73.3	7.4	1.1	2.6
				80	29.6	1.56	24.3	93.2	5.6	1.1	2.5
				100	28.9	2.04	22.0	112.9	4.2	1.0	2.3
				120	28.0	2.67	18.9	132.4	3.1	1.0	2.2
	6.75	5.5	2.4	60	30.8	1.18	26.7	73.7	7.6	1.1	2.6
				80	30.3	1.55	25.0	93.4	5.7	1.1	2.5
				100	29.5	2.03	22.5	113.1	4.3	1.0	2.3
				120	28.4	2.66	19.4	132.6	3.1	1.0	2.2
	9	9.2	4.0	60	31.1	1.18	27.1	73.8	7.7	1.1	2.6
				80	30.6	1.55	25.3	93.6	5.8	1.1	2.5
				100	29.8	2.03	22.8	113.2	4.3	1.0	2.3
				120	28.7	2.66	19.6	132.7	3.2	1.0	2.2
90	4.5	2.5	1.1	60	37.9	1.11	34.2	76.9	10.0	1.1	2.6
				80	37.0	1.47	32.0	96.5	7.4	1.1	2.5
				100							
				120							
	6.75	5.1	2.2	60	39.1	1.09	35.3	77.4	10.5	1.1	2.6
				80							
				100							
				120							
	9	8.6	3.7	60							
				80							
				100							
				120							

GW036 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD						
				6.75 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	17.9	1.2	13.7	64.0	4.3	4.0	9.3
				18.1	1.57	12.7	84.0	3.4	3.8	8.7
				18.0	2.04	11.0	104.0	2.6	3.6	8.2
				17.6	2.7	8.50	123.9	1.9	3.4	7.8
	6.75	6.3	2.7	18.1	1.21	14.0	64.0	4.4	4.0	9.3
				18.3	1.57	13.0	84.1	3.4	3.8	8.7
				18.2	2.04	11.2	104.0	2.6	3.6	8.2
				17.8	2.67	8.7	123.9	1.9	3.4	7.8
	9	10.5	4.5	18.3	1.21	14.1	64.1	4.4	4.0	9.3
				18.4	1.57	13.1	84.1	3.4	3.8	8.7
				18.3	2.04	11.3	104.1	2.6	3.6	8.2
				17.8	2.67	8.7	124.0	2.0	3.4	7.8
50	4.5	2.8	1.2	23.4	1.19	19.3	65.2	5.8	4.0	9.3
				23.3	1.54	18.1	85.2	4.4	3.8	8.7
				23.0	2.01	16.2	105.1	3.4	3.6	8.2
				22.5	2.63	13.5	125.0	2.5	3.4	7.8
	6.75	5.8	2.5	23.8	1.19	19.8	65.3	5.9	4.0	9.3
				23.7	1.54	18.5	85.3	4.5	3.8	8.7
				23.4	2.01	16.5	105.2	3.4	3.6	8.2
				22.8	2.63	13.8	125.1	2.5	3.4	7.8
	9	9.8	4.2	24.0	1.19	20.0	65.3	5.9	4.0	9.3
				24.0	1.54	18.7	85.3	4.6	3.8	8.7
				23.6	2.01	16.7	105.2	3.4	3.6	8.2
				22.9	2.63	13.9	125.1	2.6	3.4	7.8
70	4.5	2.7	1.1	30.1	1.14	26.2	66.7	7.7	4.0	9.3
				29.7	1.49	24.6	86.6	5.8	3.8	8.7
				29.1	1.95	22.4	106.5	4.4	3.5	8.2
				28.2	2.56	19.4	126.3	3.2	3.4	7.7
	6.75	5.5	2.4	30.8	1.13	26.9	66.8	8.0	4.0	9.3
				30.4	1.48	25.3	86.7	6.0	3.8	8.7
				29.6	1.94	23.0	106.6	4.5	3.5	8.2
				28.6	2.55	19.9	126.4	3.3	3.4	7.7
	9	9.2	4.0	31.2	1.13	27.4	66.9	8.1	4.0	9.3
				30.7	1.48	25.7	86.8	6.1	3.8	8.7
				29.9	1.94	23.3	106.6	4.5	3.5	8.2
				28.9	2.55	20.2	126.4	3.3	3.4	7.7
90	4.5	2.5	1.1	38.1	1.04	34.5	68.5	10.7	4.0	9.3
				37.3	1.39	32.5	88.3	7.9	3.8	8.7
	6.75	5.1	2.2	39.3	1.03	35.8	68.7	11.2	4.0	9.3
	9	8.6	3.7	39.9	1.02	36.4	68.9	11.5	4.0	9.3

GW036 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD						
				9 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	17.9	1.2	13.7	64.0	4.3	4.0	9.3
				18.1	1.57	12.7	84.0	3.4	3.8	8.7
				18.0	2.04	11.0	104.0	2.6	3.6	8.2
				17.6	2.7	8.50	123.9	1.9	3.4	7.8
	6.75	6.3	2.7	18.1	1.21	14.0	64.0	4.4	4.0	9.3
				18.3	1.57	13.0	84.1	3.4	3.8	8.7
				18.2	2.04	11.2	104.0	2.6	3.6	8.2
				17.8	2.67	8.7	123.9	1.9	3.4	7.8
	9	10.5	4.5	18.3	1.21	14.1	64.1	4.4	4.0	9.3
				18.4	1.57	13.1	84.1	3.4	3.8	8.7
				18.3	2.04	11.3	104.1	2.6	3.6	8.2
				17.8	2.67	8.7	124.0	2.0	3.4	7.8
50	4.5	2.8	1.2	23.4	1.19	19.3	65.2	5.8	4.0	9.3
				23.3	1.54	18.1	85.2	4.4	3.8	8.7
				23.0	2.01	16.2	105.1	3.4	3.6	8.2
				22.5	2.63	13.5	125.0	2.5	3.4	7.8
	6.75	5.8	2.5	23.8	1.19	19.8	65.3	5.9	4.0	9.3
				23.7	1.54	18.5	85.3	4.5	3.8	8.7
				23.4	2.01	16.5	105.2	3.4	3.6	8.2
				22.8	2.63	13.8	125.1	2.5	3.4	7.8
	9	9.8	4.2	24.0	1.19	20.0	65.3	5.9	4.0	9.3
				24.0	1.54	18.7	85.3	4.6	3.8	8.7
				23.6	2.01	16.7	105.2	3.4	3.6	8.2
				22.9	2.63	13.9	125.1	2.6	3.4	7.8
70	4.5	2.7	1.1	30.1	1.14	26.2	66.7	7.7	4.0	9.3
				29.7	1.49	24.6	86.6	5.8	3.8	8.7
				29.1	1.95	22.4	106.5	4.4	3.5	8.2
				28.2	2.56	19.4	126.3	3.2	3.4	7.7
	6.75	5.5	2.4	30.8	1.13	26.9	66.8	8.0	4.0	9.3
				30.4	1.48	25.3	86.7	6.0	3.8	8.7
				29.6	1.94	23.0	106.6	4.5	3.5	8.2
				28.6	2.55	19.9	126.4	3.3	3.4	7.7
	9	9.2	4.0	31.2	1.13	27.4	66.9	8.1	4.0	9.3
				30.7	1.48	25.7	86.8	6.1	3.8	8.7
				29.9	1.94	23.3	106.6	4.5	3.5	8.2
				28.9	2.55	20.2	126.4	3.3	3.4	7.7
90	4.5	2.5	1.1	38.1	1.04	34.5	68.5	10.7	4.0	9.3
				37.3	1.39	32.5	88.3	7.9	3.8	8.7
	6.75	5.1	2.2	39.3	1.03	35.8	68.7	11.2	4.0	9.3
	9	8.6	3.7	39.9	1.02	36.4	68.9	11.5	4.0	9.3

GW036 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	4.5 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	60							
				80	28.0	2.16	20.7	92.5	3.8	1.1	2.5
				100	27.8	2.77	18.4	112.4	2.9	1.0	2.3
				120	28.0	3.61	15.7	132.4	2.3	1.0	2.2
	6.75	6.3	2.7	60	29.1	1.71	23.2	72.9	5.0	1.1	2.6
				80	28.6	2.16	21.2	92.7	3.9	1.1	2.5
				100	28.3	2.77	18.8	112.6	3.0	1.0	2.3
				120	28.3	3.61	16.0	132.6	2.3	1.0	2.2
	9	10.5	4.5	60	29.4	1.71	23.5	73.1	5.0	1.1	2.6
				80	28.9	2.17	21.5	92.8	3.9	1.1	2.5
				100	28.5	2.78	19.0	112.7	3.0	1.0	2.3
				120	28.5	3.61	16.2	132.7	2.3	1.0	2.2
50	4.5	2.8	1.2	60	36.5	1.80	30.3	76.2	5.9	1.1	2.6
				80	35.6	2.26	27.9	95.8	4.6	1.1	2.5
				100	34.8	2.87	25.0	115.5	3.6	1.0	2.3
				120	34.3	3.70	21.7	135.2	2.7	1.0	2.2
	6.75	5.9	2.5	60	37.5	1.81	31.3	76.7	6.1	1.1	2.6
				80	36.5	2.27	28.8	96.2	4.7	1.1	2.5
				100	35.6	2.88	25.7	115.8	3.6	1.0	2.3
				120	34.9	3.71	22.2	135.5	2.8	1.0	2.2
	9	9.8	4.3	60	38.1	1.82	31.9	76.9	6.1	1.1	2.6
				80	37.0	2.27	29.2	96.4	4.8	1.1	2.5
				100	35.9	2.88	26.1	116.0	3.7	1.0	2.3
				120	35.2	3.72	22.5	135.6	2.8	1.0	2.2
70	4.5	2.7	1.2	60	46.1	1.90	39.6	80.5	7.1	1.1	2.6
				80	44.6	2.37	36.5	99.8	5.5	1.1	2.4
				100	43.1	2.99	32.9	119.2	4.2	1.0	2.3
				120							
	6.75	5.5	2.4	60	47.7	1.92	41.1	81.2	7.3	1.1	2.6
				80	46.0	2.38	37.8	100.4	5.7	1.1	2.4
				100	44.3	3.00	34.0	119.7	4.3	1.0	2.3
				120							
	9	9.2	4.0	60	48.5	1.92	42.0	81.6	7.4	1.1	2.6
				80	46.7	2.39	38.5	100.8	5.7	1.1	2.4
				100	44.9	3.01	34.6	119.9	4.4	1.0	2.3
				120							
90	4.5	2.5	1.1	60	57.3	2.00	50.5	85.5	8.4	1.1	2.6
				80	55.1	2.48	46.6	104.5	6.5	1.1	2.4
				100	52.8	3.11	42.2	123.5	5.0	1.0	2.3
				120							
	6.75	5.2	2.2	60	59.7	2.02	52.8	86.5	8.7	1.1	2.6
				80	57.1	2.50	48.6	105.4	6.7	1.1	2.4
				100							
				120							
	9	8.7	3.7	60	61.0	2.02	54.0	87.1	8.8	1.1	2.6
				80							
				100							
				120							

GW036 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD						
				6.75 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	28.1	2.08	21.0	86.2	4.0	3.8	8.7
				27.9	2.66	18.8	106.2	3.1	3.5	8.2
				27.9	3.5	16.13	126.2	2.4	3.4	7.7
	6.75	6.3	2.7	29.1	1.65	23.5	66.5	5.2	4.0	9.3
				28.7	2.08	21.6	86.4	4.0	3.8	8.7
				28.3	2.66	19.2	106.3	3.1	3.5	8.2
				28.3	3.46	16.5	126.3	2.4	3.4	7.7
	9	10.5	4.5	29.5	1.65	23.8	66.6	5.2	4.0	9.3
				28.9	2.08	21.8	86.4	4.1	3.8	8.7
				28.6	2.67	19.5	106.3	3.1	3.5	8.2
				28.5	3.46	16.7	126.3	2.4	3.4	7.7
50	4.5	2.8	1.2	36.6	1.72	30.8	68.1	6.3	4.0	9.3
				35.8	2.15	28.4	87.9	4.9	3.8	8.7
				35.0	2.73	25.6	107.8	3.7	3.5	8.2
				34.4	3.52	22.4	127.6	2.9	3.3	7.7
	6.75	5.9	2.5	37.7	1.73	31.8	68.4	6.4	4.0	9.3
				36.7	2.16	29.3	88.2	5.0	3.8	8.7
				35.7	2.74	26.4	107.9	3.8	3.5	8.2
				35.0	3.53	22.9	127.8	2.9	3.3	7.7
	9	9.8	4.3	38.3	1.73	32.4	68.5	6.5	4.0	9.3
				37.2	2.17	29.8	88.3	5.0	3.8	8.7
				36.1	2.75	26.8	108.0	3.9	3.5	8.2
				35.3	3.53	23.2	127.8	2.9	3.3	7.7
70	4.5	2.7	1.2	46.4	1.80	40.3	70.3	7.6	4.0	9.2
				45.0	2.24	37.3	90.0	5.9	3.7	8.7
				43.5	2.82	33.8	109.7	4.5	3.5	8.1
				42.1	3.61	29.8	129.4	3.4	3.3	7.7
	6.75	5.5	2.4	48.1	1.81	41.9	70.7	7.8	4.0	9.2
				46.4	2.25	38.7	90.3	6.0	3.7	8.6
				44.7	2.83	35.0	109.9	4.6	3.5	8.1
				43.1	3.62	30.7	129.6	3.5	3.3	7.7
	9	9.2	4.0	49.0	1.82	42.8	70.9	7.9	4.0	9.2
				47.2	2.26	39.5	90.5	6.1	3.7	8.6
				45.3	2.84	35.7	110.1	4.7	3.5	8.1
				43.6	3.62	31.2	129.7	3.5	3.3	7.7
90	4.5	2.5	1.1	58.0	1.87	51.6	72.9	9.1	4.0	9.2
				55.8	2.31	47.9	92.4	7.1	3.7	8.6
				53.5	2.90	43.6	111.9	5.4	3.5	8.1
				51.3	3.69	38.7	131.4	4.1	3.3	7.7
	6.75	5.2	2.2	60.5	1.88	54.1	73.4	9.4	4.0	9.2
				58.0	2.33	50.0	92.9	7.3	3.7	8.6
				55.3	2.91	45.4	112.3	5.6	3.5	8.1
	9	8.7	3.7	61.8	1.88	55.4	73.7	9.6	4.0	9.2
				59.1	2.33	51.2	93.1	7.4	3.7	8.6

GW036 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD						
				9 GPM						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	28.1	2.08	21.0	86.2	4.0	3.8	8.7
				27.9	2.66	18.8	106.2	3.1	3.5	8.2
				27.9	3.5	16.13	126.2	2.4	3.4	7.7
	6.75	6.3	2.7	29.1	1.65	23.5	66.5	5.2	4.0	9.3
				28.7	2.08	21.6	86.4	4.0	3.8	8.7
				28.3	2.66	19.2	106.3	3.1	3.5	8.2
				28.3	3.46	16.5	126.3	2.4	3.4	7.7
	9	10.5	4.5	29.5	1.65	23.8	66.6	5.2	4.0	9.3
				28.9	2.08	21.8	86.4	4.1	3.8	8.7
				28.6	2.67	19.5	106.3	3.1	3.5	8.2
				28.5	3.46	16.7	126.3	2.4	3.4	7.7
				36.6	1.72	30.8	68.1	6.3	4.0	9.3
50	4.5	2.8	1.2	35.8	2.15	28.4	87.9	4.9	3.8	8.7
				35.0	2.73	25.6	107.8	3.7	3.5	8.2
				34.4	3.52	22.4	127.6	2.9	3.3	7.7
				37.7	1.73	31.8	68.4	6.4	4.0	9.3
	6.75	5.9	2.5	36.7	2.16	29.3	88.2	5.0	3.8	8.7
				35.7	2.74	26.4	107.9	3.8	3.5	8.2
				35.0	3.53	22.9	127.8	2.9	3.3	7.7
	9	9.8	4.3	38.3	1.73	32.4	68.5	6.5	4.0	9.3
				37.2	2.17	29.8	88.3	5.0	3.8	8.7
				36.1	2.75	26.8	108.0	3.9	3.5	8.2
				35.3	3.53	23.2	127.8	2.9	3.3	7.7
70	4.5	2.7	1.2	46.4	1.80	40.3	70.3	7.6	4.0	9.2
				45.0	2.24	37.3	90.0	5.9	3.7	8.7
				43.5	2.82	33.8	109.7	4.5	3.5	8.1
				42.1	3.61	29.8	129.4	3.4	3.3	7.7
	6.75	5.5	2.4	48.1	1.81	41.9	70.7	7.8	4.0	9.2
				46.4	2.25	38.7	90.3	6.0	3.7	8.6
				44.7	2.83	35.0	109.9	4.6	3.5	8.1
				43.1	3.62	30.7	129.6	3.5	3.3	7.7
	9	9.2	4.0	49.0	1.82	42.8	70.9	7.9	4.0	9.2
				47.2	2.26	39.5	90.5	6.1	3.7	8.6
				45.3	2.84	35.7	110.1	4.7	3.5	8.1
				43.6	3.62	31.2	129.7	3.5	3.3	7.7
90	4.5	2.5	1.1	58.0	1.87	51.6	72.9	9.1	4.0	9.2
				55.8	2.31	47.9	92.4	7.1	3.7	8.6
				53.5	2.90	43.6	111.9	5.4	3.5	8.1
				51.3	3.69	38.7	131.4	4.1	3.3	7.7
	6.75	5.2	2.2	60.5	1.88	54.1	73.4	9.4	4.0	9.2
				58.0	2.33	50.0	92.9	7.3	3.7	8.6
				55.3	2.91	45.4	112.3	5.6	3.5	8.1
				61.8	1.88	55.4	73.7	9.6	4.0	9.2
	9	8.7	3.7	59.1	2.33	51.2	93.1	7.4	3.7	8.6

GW036 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	4.5 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	4.5	1.2	2.7	50	19.6	1.1	23.3	36.4	18.1	2.8	1.2
				60	22.9	1.06	26.5	49.8	21.5	2.7	1.2
				70	26.6	1.04	30.1	58.2	25.5	2.7	1.2
				80	30.6	1.01	34.0	66.4	30.4	2.6	1.1
				90							
	6.75	2.1	5.0	50	19.6	1.06	23.3	41.3	18.6	2.8	1.2
				60	23.0	1.04	26.5	49.8	22.2	2.7	1.2
				70	26.7	1.01	30.1	58.1	26.5	2.7	1.2
				80	30.8	0.97	34.1	66.3	31.7	2.6	1.1
				90							
	9	3.3	7.7	50	19.7	1.04	23.2	41.3	18.8	2.8	1.2
				60	23.0	1.02	26.5	49.8	22.5	2.7	1.2
				70	26.7	0.99	30.1	58.1	26.9	2.7	1.2
				80	30.8	0.95	34.1	66.3	32.3	2.6	1.1
				90							
70	4.5	3.4	7.8	50	18.6	1.40	23.4	41.7	13.3	2.8	1.2
				60	21.7	1.39	26.5	50.3	15.7	2.7	1.2
				70	25.2	1.36	29.9	58.8	18.5	2.7	1.2
				80	29.0	1.33	33.5	67.1	21.9	2.6	1.1
				90	33.2	1.28	37.5	75.3	26.0	2.5	1.1
	6.75	1.1	2.5	50	18.7	1.37	23.4	41.7	13.7	2.8	1.2
				60	21.9	1.35	26.5	50.3	16.2	2.7	1.2
				70	25.4	1.32	29.9	58.7	19.2	2.7	1.2
				80	29.2	1.28	33.6	67.0	22.8	2.6	1.1
				90	33.5	1.23	37.7	75.1	27.2	2.5	1.1
	9	2.3	5.3	50	18.8	1.35	23.4	41.7	13.9	2.8	1.2
				60	22.0	1.33	26.5	50.2	16.5	2.7	1.2
				70	25.5	1.30	29.9	58.7	19.6	2.7	1.2
				80	29.4	1.26	33.7	67.0	23.3	2.6	1.1
				90	33.6	1.20	37.7	75.1	27.9	2.5	1.1
90	4.5	3.5	8.1	50	17.0	1.82	23.2	42.5	9.3	2.8	1.2
				60	20.0	1.81	26.1	51.1	11.1	2.7	1.2
				70	23.2	1.78	29.3	59.7	13.1	2.7	1.1
				80	26.8	1.74	32.8	68.1	15.4	2.6	1.1
				90							
	6.75	2.5	5.7	50	17.1	1.78	23.2	42.4	9.6	2.8	1.2
				60	20.2	1.76	26.2	51.0	11.5	2.7	1.2
				70	23.5	1.73	29.4	59.6	13.6	2.7	1.1
				80	27.1	1.68	32.9	67.9	16.1	2.6	1.1
				90							
	9	1.3	3.1	50	17.2	1.76	23.2	42.3	9.8	2.8	1.2
				60	20.3	1.74	26.2	51.0	11.7	2.7	1.2
				70	23.6	1.70	29.4	59.5	13.9	2.7	1.1
				80	27.3	1.66	32.9	67.9	16.5	2.6	1.1
				90							
110	4.5	2.2	5.0	50	14.6	2.38	22.7	43.5	6.1	2.8	1.2
				60	17.5	2.36	25.5	52.2	7.4	2.7	1.2
				70	20.5	2.33	28.5	60.9	8.8	2.6	1.1
				80	23.9	2.29	31.7	69.4	10.4	2.6	1.1
				90							
	6.75	3.7	8.4	50	14.8	2.33	22.8	43.4	6.4	2.8	1.2
				60	17.7	2.30	25.6	52.1	7.7	2.7	1.2
				70	20.9	2.27	28.6	60.7	9.2	2.6	1.1
				80	24.3	2.22	31.9	69.2	11.0	2.6	1.1
				90							
	9	1.6	3.8	50	15.0	2.30	22.8	43.4	6.5	2.8	1.2
				60	17.9	2.27	25.6	52.1	7.9	2.7	1.2
				70	21.0	2.23	28.6	60.7	9.4	2.6	1.1
				80	24.5	2.18	31.9	69.1	11.2	2.6	1.1
				90							

GW036 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		6.75 GPM						
				EWT	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	4.5	1.2	2.7	50	20.1	1.1	23.7	44.1	18.6	5.8	2.5
				60	23.5	1.06	27.1	53.0	22.2	5.7	2.5
				70	27.4	1.03	30.9	61.9	26.5	5.5	2.4
				80	31.6	1.00	35.0	70.6	31.7	5.3	2.3
				90							
	6.75	2.1	5.0	50	20.1	1.05	23.7	44.0	19.1	5.9	2.5
				60	23.6	1.03	27.1	53.0	22.9	5.7	2.5
				70	27.5	1.00	30.9	61.9	27.4	5.5	2.4
				80	31.8	0.96	35.0	70.6	33.1	5.3	2.3
				90							
	9	3.3	7.7	50	20.2	1.04	23.7	44.0	19.3	5.9	2.5
				60	23.6	1.02	27.1	53.0	23.2	5.7	2.5
				70	27.5	0.99	30.9	61.8	27.9	5.5	2.4
				80	31.9	0.94	35.1	70.6	33.8	5.3	2.3
				90							
70	4.5	3.4	7.8	50	19.0	1.40	23.8	44.4	13.6	5.8	2.5
				60	22.3	1.38	27.0	53.4	16.1	5.7	2.4
				70	25.9	1.35	30.5	62.3	19.1	5.5	2.4
				80	29.9	1.32	34.4	71.1	22.7	5.3	2.3
				90							
	6.75	1.1	2.5	50	19.1	1.37	23.8	44.3	14.0	5.8	2.5
				60	22.4	1.35	27.0	53.3	16.7	5.7	2.4
				70	26.1	1.31	30.6	62.3	19.9	5.5	2.4
				80	30.2	1.27	34.5	71.1	23.7	5.3	2.3
				90							
	9	2.3	5.3	50	19.2	1.35	23.8	44.3	14.2	5.8	2.5
				60	22.5	1.33	27.1	53.3	17.0	5.7	2.4
				70	26.2	1.29	30.6	62.2	20.2	5.5	2.4
				80	30.3	1.25	34.5	71.0	24.3	5.3	2.3
				90							
90	4.5	3.5	8.1	50	17.3	1.82	23.6	44.9	9.5	5.8	2.5
				60	20.4	1.80	26.6	53.9	11.3	5.7	2.4
				70	23.8	1.77	29.9	62.9	13.4	5.5	2.4
				80	27.6	1.73	33.5	71.8	15.9	5.3	2.3
				90							
	6.75	2.5	5.7	50	17.5	1.78	23.6	44.8	9.8	5.8	2.5
				60	20.7	1.76	26.6	53.9	11.8	5.7	2.4
				70	24.1	1.72	30.0	62.9	14.0	5.5	2.4
				80	27.9	1.67	33.6	71.7	16.7	5.3	2.3
				90							
	9	1.3	3.1	50	17.6	1.76	23.6	44.8	10.0	5.8	2.5
				60	20.8	1.73	26.7	53.8	12.0	5.7	2.4
				70	24.2	1.70	30.0	62.8	14.3	5.5	2.4
				80	28.1	1.65	33.7	71.7	17.1	5.3	2.3
				90							
110	4.5	2.2	5.0	50	14.9	2.38	23.0	45.6	6.3	5.8	2.5
				60	17.8	2.36	25.9	54.7	7.6	5.6	2.4
				70	21.1	2.33	29.0	63.8	9.1	5.5	2.4
				80	24.6	2.28	32.3	72.7	10.8	5.3	2.3
				90							
	6.75	3.7	8.4	50	15.2	2.33	23.1	45.5	6.5	5.8	2.5
				60	18.1	2.30	26.0	54.6	7.9	5.6	2.4
				70	21.4	2.26	29.1	63.7	9.5	5.5	2.4
				80	25.0	2.21	32.5	72.6	11.3	5.3	2.3
				90							
	9	1.6	3.8	50	15.3	2.30	23.1	45.5	6.6	5.8	2.5
				60	18.3	2.27	26.0	54.6	8.1	5.6	2.4
				70	21.6	2.23	29.2	63.6	9.7	5.5	2.4
				80	25.2	2.17	32.6	72.5	11.6	5.3	2.3
				90							

GW036 COOLING PERFORMANCE - PART LOAD

SOURCE				EWT	LOAD						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		9 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Wa-ter Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	4.5	1.2	2.7	50	20.3	1.1	24.0	45.5	18.8	9.8	4.2
				60	23.8	1.06	27.4	54.7	22.5	9.5	4.1
				70	27.8	1.03	31.3	63.8	26.9	9.2	4.0
				80	32.1	0.99	35.5	72.9	32.4	8.9	3.8
				90							
	6.75	2.1	5.0	50	20.4	1.05	24.0	45.5	19.4	9.8	4.2
				60	23.9	1.03	27.4	54.7	23.2	9.5	4.1
				70	27.9	1.00	31.3	63.8	28.0	9.2	4.0
				80	32.3	0.95	35.6	72.8	33.9	8.9	3.9
				90							
	9	3.3	7.7	50	20.4	1.04	24.0	45.5	19.6	9.8	4.2
				60	24.0	1.02	27.4	54.7	23.6	9.5	4.1
				70	28.0	0.98	31.3	63.8	28.5	9.2	4.0
				80	32.4	0.94	35.6	72.8	34.6	8.9	3.9
				90							
70	4.5	3.4	7.8	50	19.2	1.40	24.0	45.7	13.8	9.8	4.2
				60	22.6	1.38	27.3	55.0	16.4	9.5	4.1
				70	26.3	1.35	30.9	64.2	19.5	9.2	4.0
				80	30.4	1.31	34.9	73.2	23.2	8.9	3.8
				90							
	6.75	1.1	2.5	50	19.4	1.37	24.0	45.7	14.2	9.8	4.2
				60	22.7	1.34	27.3	54.9	16.9	9.5	4.1
				70	26.5	1.31	31.0	64.1	20.2	9.2	4.0
				80	30.6	1.26	35.0	73.2	24.2	8.9	3.8
				90							
	9	2.3	5.3	50	19.4	1.35	24.0	45.7	14.4	9.8	4.2
				60	22.8	1.33	27.3	54.9	17.2	9.5	4.1
				70	26.6	1.29	31.0	64.1	20.6	9.2	4.0
				80	30.8	1.24	35.0	73.2	24.8	8.9	3.8
				90							
90	4.5	3.5	8.1	50	17.5	1.82	23.7	46.1	9.6	9.8	4.2
				60	20.7	1.80	26.8	55.4	11.5	9.5	4.1
				70	24.2	1.77	30.2	64.6	13.7	9.2	4.0
				80	28.0	1.73	33.9	73.8	16.2	8.9	3.8
				90							
	6.75	2.5	5.7	50	17.7	1.78	23.8	46.1	10.0	9.8	4.2
				60	20.9	1.75	26.9	55.4	11.9	9.5	4.1
				70	24.4	1.72	30.3	64.6	14.2	9.2	4.0
				80	28.3	1.67	34.0	73.7	17.0	8.9	3.8
				90							
	9	1.3	3.1	50	17.8	1.76	23.8	46.0	10.1	9.8	4.2
				60	21.0	1.73	26.9	55.3	12.2	9.5	4.1
				70	24.6	1.69	30.3	64.5	14.5	9.2	4.0
				80	28.5	1.64	34.1	73.7	17.4	8.9	3.8
				90							
110	4.5	2.2	5.0	50	15.1	2.38	23.2	46.7	6.3	9.8	4.2
				60	18.0	2.36	26.1	56.0	7.7	9.5	4.1
				70	21.3	2.32	29.2	65.3	9.2	9.2	4.0
				80	24.9	2.27	32.7	74.5	10.9	8.9	3.8
				90							
	6.75	3.7	8.4	50	15.3	2.32	23.2	46.6	6.6	9.8	4.2
				60	18.3	2.30	26.2	55.9	8.0	9.5	4.1
				70	21.7	2.26	29.4	65.2	9.6	9.2	4.0
				80	25.3	2.20	32.8	74.4	11.5	8.9	3.8
				90							
	9	1.6	3.8	50	15.4	2.30	23.3	46.6	6.7	9.8	4.2
				60	18.5	2.27	26.2	55.9	8.2	9.5	4.1
				70	21.8	2.22	29.4	65.1	9.8	9.2	4.0
				80	25.5	2.16	32.9	74.3	11.8	8.9	3.8
				90							

GW036 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	4.5 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	4.5	1.2	2.7	50	31.4	1.6	36.9	36.4	19.5	2.9	1.2
				60	36.0	1.66	41.6	44.0	21.7	2.8	1.2
				70	41.0	1.71	46.8	51.8	24.0	2.7	1.2
				80	46.4	1.75	52.3	59.4	26.5	2.6	1.1
				90	52.2	1.80	58.3	66.8	29.1	2.5	1.1
	6.75	2.1	4.9	50	31.7	1.56	37.0	35.9	20.3	2.9	1.2
				60	36.3	1.60	41.8	43.9	22.7	2.8	1.2
				70	41.4	1.64	47.0	51.6	25.2	2.7	1.2
				80	46.9	1.68	52.7	59.1	27.9	2.6	1.1
				90							
	9	3.3	7.6	50	31.8	1.53	37.1	35.9	20.7	2.9	1.2
				60	36.5	1.57	41.9	43.8	23.2	2.8	1.2
				70	41.6	1.61	47.1	51.5	25.9	2.7	1.2
				80	47.2	1.64	52.8	59.0	28.7	2.6	1.1
				90							
70	4.5	3.4	7.8	50	29.2	2.01	36.0	37.0	14.5	2.9	1.2
				60	33.4	2.06	40.5	45.1	16.2	2.8	1.2
				70	38.1	2.12	45.3	53.1	18.0	2.7	1.2
				80	43.2	2.17	50.6	60.8	19.9	2.6	1.1
				90	48.6	2.22	56.2	68.4	21.9	2.5	1.1
	6.75	1.1	2.5	50	29.5	1.95	36.1	36.9	15.1	2.9	1.2
				60	33.9	2.00	40.7	45.0	17.0	2.8	1.2
				70	38.6	2.04	45.6	52.8	18.9	2.7	1.2
				80	43.8	2.08	50.9	60.5	21.0	2.6	1.1
				90	49.4	2.12	56.7	68.0	23.3	2.5	1.1
	9	2.3	5.3	50	29.6	1.92	36.2	36.8	15.4	2.9	1.2
				60	34.1	1.96	40.8	44.9	17.3	2.8	1.2
				70	38.9	2.00	45.7	52.7	19.4	2.7	1.2
				80	44.1	2.04	51.1	60.4	21.6	2.6	1.1
				90	49.8	2.08	56.9	67.9	24.0	2.5	1.1
90	4.5	3.5	8.0	50	26.5	2.54	35.2	38.2	10.5	2.8	1.2
				60	30.5	2.59	39.3	46.5	11.7	2.8	1.2
				70	34.8	2.65	43.8	54.5	13.1	2.7	1.2
				80	39.5	2.71	48.7	62.5	14.5	2.6	1.1
				90	44.5	2.77	53.9	70.2	16.1	2.5	1.1
	6.75	2.4	5.6	50	26.9	2.46	35.3	38.0	10.9	2.8	1.2
				60	30.9	2.51	39.5	46.2	12.3	2.8	1.2
				70	35.4	2.56	44.1	54.3	13.8	2.7	1.2
				80	40.2	2.60	49.0	62.1	15.4	2.6	1.1
				90	45.4	2.65	54.4	69.8	17.1	2.5	1.1
	9	1.3	3.0	50	27.1	2.42	35.3	38.0	11.2	2.8	1.2
				60	31.2	2.46	39.6	46.1	12.7	2.8	1.2
				70	35.7	2.51	44.2	54.2	14.2	2.7	1.2
				80	40.5	2.55	49.2	62.0	15.9	2.6	1.1
				90	45.8	2.59	54.6	69.6	17.7	2.5	1.1
110	4.5	2.2	5.0	50	23.4	3.25	34.5	39.6	7.2	2.8	1.2
				60	27.0	3.31	38.3	48.0	8.2	2.8	1.2
				70	30.9	3.37	42.4	56.3	9.2	2.7	1.2
				80	35.2	3.44	46.9	64.4	10.2	2.6	1.1
				90	39.8	3.50	51.7	72.3	11.4	2.5	1.1
	6.75	3.6	8.4	50	23.8	3.15	34.6	39.4	7.6	2.8	1.2
				60	27.5	3.20	38.5	47.8	8.6	2.8	1.2
				70	31.6	3.25	42.7	56.0	9.7	2.7	1.2
				80	36.0	3.30	47.2	64.0	10.9	2.6	1.1
				90	40.7	3.34	52.1	71.9	12.2	2.5	1.1
	9	1.6	3.8	50	24.1	3.10	34.6	39.3	7.8	2.8	1.2
				60	27.8	3.14	38.5	47.6	8.9	2.8	1.2
				70	31.9	3.18	42.8	55.8	10.0	2.7	1.2
				80	36.4	3.23	47.4	63.8	11.3	2.6	1.1
				90	41.2	3.27	52.4	71.7	12.6	2.5	1.1

GW036 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	6.75 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	4.5	1.2	2.7	50	32.5	1.6	38.0	40.4	20.1	5.9	2.5
				60	37.3	1.67	43.0	48.9	22.3	5.7	2.5
				70	42.6	1.72	48.5	57.4	24.8	5.5	2.4
				80	48.4	1.77	54.4	65.7	27.4	5.4	2.3
				90	54.7	1.81	60.8	73.8	30.2	5.2	2.3
	6.75	2.1	4.9	50	32.8	1.57	38.1	40.3	20.9	5.9	2.5
				60	37.7	1.61	43.2	48.8	23.4	5.7	2.5
				70	43.1	1.65	48.8	57.2	26.1	5.5	2.4
				80	49.0	1.69	54.8	65.5	29.0	5.4	2.3
				90							
	9	3.3	7.6	50	32.9	1.54	38.2	40.2	21.3	5.9	2.5
				60	37.9	1.58	43.3	48.8	23.9	5.7	2.5
				70	43.4	1.62	48.9	57.1	26.8	5.5	2.4
				80	49.4	1.65	55.0	65.4	29.8	5.4	2.3
				90							
70	4.5	3.4	7.8	50	30.1	2.02	37.0	41.1	14.9	5.9	2.5
				60	34.6	2.08	41.7	49.7	16.7	5.7	2.5
				70	39.5	2.13	46.8	58.3	18.5	5.5	2.4
				80	44.9	2.19	52.4	66.7	20.5	5.4	2.3
				90	50.8	2.24	58.4	75.0	22.7	5.2	2.2
	6.75	1.1	2.5	50	30.4	1.96	37.1	41.0	15.5	5.9	2.5
				60	35.1	2.01	41.9	49.6	17.5	5.7	2.5
				70	40.1	2.05	47.1	58.1	19.5	5.5	2.4
				80	45.6	2.10	52.8	66.5	21.7	5.4	2.3
				90	51.7	2.14	59.0	74.7	24.2	5.2	2.3
	9	2.3	5.3	50	30.6	1.93	37.2	40.9	15.8	5.9	2.5
				60	35.3	1.97	42.0	49.5	17.9	5.7	2.5
				70	40.4	2.02	47.3	58.0	20.0	5.5	2.4
				80	46.0	2.05	53.0	66.4	22.4	5.4	2.3
				90	52.1	2.09	59.2	74.6	24.9	5.2	2.3
90	4.5	3.5	8.0	50	27.3	2.55	36.0	41.9	10.7	5.9	2.5
				60	31.5	2.61	40.4	50.7	12.1	5.7	2.5
				70	36.0	2.67	45.1	59.3	13.5	5.5	2.4
				80	40.9	2.73	50.3	67.9	15.0	5.3	2.3
				90	46.3	2.79	55.8	76.3	16.6	5.2	2.2
	6.75	2.4	5.6	50	27.7	2.47	36.1	41.8	11.2	5.9	2.5
				60	32.0	2.52	40.6	50.5	12.7	5.7	2.5
				70	36.6	2.57	45.4	59.1	14.3	5.5	2.4
				80	41.7	2.62	50.7	67.6	16.0	5.3	2.3
				90	47.3	2.66	56.4	76.0	17.8	5.2	2.2
	9	1.3	3.0	50	27.9	2.43	36.2	41.7	11.5	5.9	2.5
				60	32.2	2.47	40.7	50.5	13.0	5.7	2.5
				70	36.9	2.52	45.5	59.1	14.7	5.5	2.4
				80	42.1	2.56	50.9	67.5	16.4	5.3	2.3
				90	47.8	2.60	56.6	75.8	18.4	5.2	2.2
110	4.5	2.2	5.0	50	24.0	3.26	35.2	42.9	7.4	5.9	2.5
				60	27.8	3.33	39.1	51.8	8.4	5.7	2.5
				70	31.9	3.39	43.5	60.5	9.4	5.5	2.4
				80	36.4	3.46	48.2	69.2	10.5	5.3	2.3
				90							
	6.75	3.6	8.4	50	24.5	3.16	35.3	42.7	7.8	5.9	2.5
				60	28.4	3.21	39.3	51.6	8.8	5.7	2.5
				70	32.6	3.26	43.7	60.3	10.0	5.5	2.4
				80	37.2	3.31	48.5	69.0	11.3	5.3	2.3
				90							
	9	1.6	3.8	50	24.7	3.11	35.3	42.7	8.0	5.9	2.5
				60	28.6	3.15	39.4	51.5	9.1	5.7	2.5
				70	33.0	3.19	43.9	60.2	10.3	5.5	2.4
				80	37.7	3.24	48.7	68.8	11.6	5.3	2.3
				90							

GW036 COOLING PERFORMANCE - FULL LOAD

SOURCE				EWT	LOAD						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		9 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	4.5	1.2	2.7	50	33.0	1.6	38.6	42.7	20.3	9.8	4.3
				60	38.0	1.68	43.8	51.5	22.7	9.5	4.1
				70	43.5	1.73	49.4	60.3	25.2	9.2	4.0
				80	49.5	1.78	55.6	69.0	27.9	8.9	3.9
				90							
	6.75	2.1	4.9	50	33.4	1.57	38.7	42.6	21.2	9.8	4.3
				60	38.4	1.62	44.0	51.5	23.8	9.5	4.1
				70	44.1	1.66	49.7	60.2	26.5	9.2	4.0
				80	50.2	1.70	56.0	68.8	29.6	9.0	3.9
				90							
	9	3.3	7.6	50	33.5	1.55	38.8	42.6	21.6	9.8	4.3
				60	38.7	1.59	44.1	51.4	24.3	9.5	4.1
				70	44.3	1.63	49.9	60.2	27.3	9.2	4.0
				80	50.5	1.66	56.2	68.8	30.4	9.0	3.9
				90							
70	4.5	3.4	7.8	50	30.6	2.03	37.5	43.2	15.1	9.8	4.3
				60	35.2	2.09	42.3	52.2	16.9	9.5	4.1
				70	40.3	2.14	47.6	61.0	18.8	9.2	4.0
				80	45.9	2.20	53.4	69.8	20.9	8.9	3.9
				90	51.9	2.25	59.6	78.5	23.1	8.7	3.8
	6.75	1.1	2.5	50	30.9	1.97	37.7	43.1	15.7	9.8	4.3
				60	35.7	2.01	42.6	52.1	17.7	9.5	4.1
				70	40.9	2.06	48.0	60.9	19.9	9.2	4.0
				80	46.6	2.11	53.8	69.6	22.2	8.9	3.9
				90	52.9	2.15	60.2	78.2	24.6	8.7	3.8
	9	2.3	5.3	50	31.1	1.94	37.7	43.1	16.1	9.8	4.3
				60	35.9	1.98	42.7	52.0	18.1	9.5	4.1
				70	41.2	2.02	48.1	60.8	20.4	9.2	4.0
				80	47.0	2.06	54.1	69.5	22.8	8.9	3.9
				90	53.4	2.10	60.5	78.1	25.5	8.7	3.8
90	4.5	3.5	8.0	50	27.7	2.56	36.4	43.8	10.8	9.8	4.3
				60	32.0	2.62	40.9	52.9	12.2	9.5	4.1
				70	36.6	2.68	45.8	61.9	13.7	9.2	4.0
				80	41.7	2.74	51.1	70.7	15.2	8.9	3.9
				90							
	6.75	2.4	5.6	50	28.1	2.47	36.6	43.7	11.4	9.8	4.3
				60	32.5	2.52	41.1	52.8	12.9	9.5	4.1
				70	37.3	2.57	46.1	61.7	14.5	9.2	4.0
				80	42.6	2.62	51.5	70.5	16.2	8.9	3.9
				90							
	9	1.3	3.0	50	28.3	2.44	36.6	43.7	11.6	9.8	4.3
				60	32.8	2.48	41.2	52.7	13.2	9.5	4.1
				70	37.6	2.52	46.3	61.6	14.9	9.2	4.0
				80	43.0	2.57	51.8	70.4	16.7	8.9	3.9
				90							
110	4.5	2.2	5.0	50	24.4	3.27	35.5	44.6	7.5	9.8	4.2
				60	28.2	3.33	39.6	53.7	8.5	9.5	4.1
				70	32.4	3.40	44.0	62.8	9.5	9.2	4.0
				80	37.0	3.46	48.8	71.8	10.7	8.9	3.9
				90							
	6.75	3.6	8.4	50	24.8	3.16	35.6	44.5	7.9	9.8	4.2
				60	28.8	3.21	39.8	53.6	9.0	9.5	4.1
				70	33.2	3.26	44.3	62.6	10.2	9.2	4.0
				80	37.9	3.32	49.2	71.6	11.4	8.9	3.9
				90							
	9	1.6	3.8	50	25.1	3.11	35.7	44.4	8.1	9.8	4.2
				60	29.1	3.15	39.9	53.5	9.2	9.5	4.1
				70	33.5	3.20	44.4	62.6	10.5	9.2	4.0
				80	38.4	3.24	49.4	71.5	11.8	8.9	3.9
				90							

GW048 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	6 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	6	3.4	1.5	60							
				80							
				100	23.9	2.82	14.3	108.0	2.5	1.1	2.6
				120	23.0	3.75	10.2	127.7	1.8	1.1	2.5
	9	7.0	3.0	60							
				80							
				100	24.1	2.82	14.5	108.0	2.5	1.1	2.6
				120	23.2	3.75	10.4	127.7	1.8	1.1	2.5
	12	11.8	5.1	60							
				80	24.9	2.14	17.6	88.3	3.4	1.2	2.8
				100	24.3	2.82	14.6	108.1	2.5	1.1	2.6
				120	23.3	3.75	10.5	127.8	1.8	1.1	2.5
50	6	3.2	1.4	60	32.0	1.61	26.5	70.7	5.8	1.3	3.0
				80	31.5	2.13	24.2	90.5	4.3	1.2	2.8
				100	30.6	2.81	21.0	110.2	3.2	1.1	2.6
				120	29.5	3.74	16.7	129.8	2.3	1.1	2.5
	9	6.6	2.8	60	32.6	1.61	27.1	70.9	5.9	1.3	3.0
				80	32.0	2.12	24.8	90.7	4.4	1.2	2.8
				100	31.1	2.81	21.5	110.4	3.2	1.1	2.6
				120	29.8	3.73	17.0	129.9	2.3	1.1	2.5
	12	11.0	4.8	60	32.9	1.61	27.4	71.0	6.0	1.3	3.0
				80	32.3	2.12	25.1	90.8	4.5	1.2	2.8
				100	31.3	2.81	21.7	110.4	3.3	1.1	2.6
				120	30.0	3.73	17.2	130.0	2.4	1.1	2.5
70	6	3.0	1.3	60	41.1	1.57	35.8	73.7	7.7	1.3	3.0
				80	40.0	2.08	32.9	93.3	5.6	1.2	2.8
				100	38.6	2.77	29.2	112.9	4.1	1.1	2.6
				120	36.9	3.68	24.3	132.3	2.9	1.1	2.5
	9	6.1	2.7	60	42.1	1.56	36.8	74.0	7.9	1.3	3.0
				80	40.9	2.07	33.8	93.6	5.8	1.2	2.8
				100	39.3	2.76	29.9	113.1	4.2	1.1	2.6
				120	37.5	3.68	24.9	132.5	3.0	1.1	2.5
	12	10.3	4.5	60	42.7	1.56	37.4	74.2	8.0	1.3	3.0
				80	41.4	2.07	34.3	93.8	5.9	1.2	2.8
				100	39.7	2.76	30.3	113.2	4.2	1.1	2.6
				120	37.7	3.67	25.2	132.6	3.0	1.1	2.5
90	6	2.8	1.2	60	52.0	1.47	47.0	77.3	10.4	1.3	2.9
				80	50.1	1.98	43.4	96.7	7.4	1.2	2.8
				100	47.9	2.66	38.9	116.0	5.3	1.1	2.6
				120							
	9	5.8	2.5	60	53.6	1.45	48.7	77.9	10.9	1.3	2.9
				80	51.5	1.96	44.8	97.2	7.7	1.2	2.8
				100	49.1	2.64	40.1	116.4	5.4	1.1	2.6
				120							
	12	9.7	4.2	60	54.5	1.44	49.6	78.2	11.1	1.3	2.9
				80	52.2	1.95	45.6	97.4	7.8	1.2	2.8
				100							
				120							

GW048 HEATING PERFORMANCE - PART LOAD

SOURCE				EWT	LOAD						
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		9 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	6	3.4	1.5	60							
				80							
				100	24.0	2.74	14.6	104.0	2.6	4.0	9.2
				120	23.1	3.6	10.65	123.9	1.9	3.8	8.7
	9	7.0	3.0	60							
				80							
				100	24.2	2.74	14.9	104.0	2.6	4.0	9.2
				120	23.3	3.65	10.8	123.9	1.9	3.8	8.7
	12	11.8	5.1	60							
				80	24.9	2.08	17.9	84.2	3.5	4.2	9.8
				100	24.4	2.74	15.0	104.1	2.6	4.0	9.2
				120	23.4	3.65	10.9	123.9	1.9	3.8	8.7
50	6	3.2	1.4	60	32.0	1.56	26.7	65.3	6.0	4.5	10.5
				80	31.6	2.05	24.6	85.3	4.5	4.2	9.8
				100	30.8	2.71	21.5	105.1	3.3	4.0	9.2
				120	29.6	3.61	17.3	124.9	2.4	3.8	8.7
	9	6.6	2.8	60	32.6	1.55	27.3	65.4	6.2	4.5	10.5
				80	32.1	2.05	25.1	85.4	4.6	4.2	9.8
				100	31.2	2.71	22.0	105.2	3.4	4.0	9.2
				120	30.0	3.60	17.7	125.0	2.4	3.8	8.7
	12	11.0	4.8	60	33.0	1.55	27.7	65.5	6.2	4.5	10.4
				80	32.4	2.04	25.4	85.4	4.6	4.2	9.8
				100	31.5	2.71	22.2	105.2	3.4	4.0	9.2
				120	30.1	3.60	17.9	125.0	2.5	3.8	8.7
70	6	3.0	1.3	60	41.2	1.49	36.2	66.9	8.1	4.5	10.4
				80	40.2	1.98	33.5	86.7	5.9	4.2	9.8
				100	38.9	2.64	29.8	106.5	4.3	4.0	9.2
				120	37.2	3.52	25.2	126.2	3.1	3.8	8.7
	9	6.1	2.7	60	42.3	1.48	37.3	67.1	8.4	4.5	10.4
				80	41.1	1.98	34.4	86.9	6.1	4.2	9.8
				100	39.6	2.63	30.6	106.6	4.4	4.0	9.2
				120	37.8	3.52	25.8	126.3	3.1	3.8	8.7
	12	10.3	4.5	60	42.9	1.48	37.8	67.1	8.5	4.5	10.4
				80	41.6	1.97	34.9	86.9	6.2	4.2	9.8
				100	40.0	2.63	31.0	106.7	4.5	4.0	9.2
				120	38.1	3.51	26.1	126.3	3.2	3.8	8.7
90	6	2.8	1.2	60	52.4	1.37	47.7	68.7	11.2	4.5	10.4
				80	50.6	1.86	44.2	88.4	8.0	4.2	9.7
				100	48.4	2.51	39.9	108.1	5.7	4.0	9.2
				120	46.0	3.37	34.5	127.7	4.0	3.8	8.7
	9	5.8	2.5	60							
				80	52.0	1.84	45.7	88.7	8.3	4.2	9.7
				100	49.6	2.49	41.1	108.3	5.8	4.0	9.2
				120							
	12	9.7	4.2	60							
				80	52.8	1.83	46.5	88.8	8.5	4.2	9.7
				100							
				120							

GW048 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	12 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	6	3.4	1.5	60							
				80							
				100	24.0	2.74	14.6	104.0	2.6	4.0	9.2
				120	23.1	3.6	10.65	123.9	1.9	3.8	8.7
	9	7.0	3.0	60							
				80							
				100	24.2	2.74	14.9	104.0	2.6	4.0	9.2
				120	23.3	3.65	10.8	123.9	1.9	3.8	8.7
	12	11.8	5.1	60							
				80	24.9	2.08	17.9	84.2	3.5	4.2	9.8
				100	24.4	2.74	15.0	104.1	2.6	4.0	9.2
				120	23.4	3.65	10.9	123.9	1.9	3.8	8.7
50	6	3.2	1.4	60	32.0	1.56	26.7	65.3	6.0	4.5	10.5
				80	31.6	2.05	24.6	85.3	4.5	4.2	9.8
				100	30.8	2.71	21.5	105.1	3.3	4.0	9.2
				120	29.6	3.61	17.3	124.9	2.4	3.8	8.7
	9	6.6	2.8	60	32.6	1.55	27.3	65.4	6.2	4.5	10.5
				80	32.1	2.05	25.1	85.4	4.6	4.2	9.8
				100	31.2	2.71	22.0	105.2	3.4	4.0	9.2
				120	30.0	3.60	17.7	125.0	2.4	3.8	8.7
	12	11.0	4.8	60	33.0	1.55	27.7	65.5	6.2	4.5	10.4
				80	32.4	2.04	25.4	85.4	4.6	4.2	9.8
				100	31.5	2.71	22.2	105.2	3.4	4.0	9.2
				120	30.1	3.60	17.9	125.0	2.5	3.8	8.7
70	6	3.0	1.3	60	41.2	1.49	36.2	66.9	8.1	4.5	10.4
				80	40.2	1.98	33.5	86.7	5.9	4.2	9.8
				100	38.9	2.64	29.8	106.5	4.3	4.0	9.2
				120	37.2	3.52	25.2	126.2	3.1	3.8	8.7
	9	6.1	2.7	60	42.3	1.48	37.3	67.1	8.4	4.5	10.4
				80	41.1	1.98	34.4	86.9	6.1	4.2	9.8
				100	39.6	2.63	30.6	106.6	4.4	4.0	9.2
				120	37.8	3.52	25.8	126.3	3.1	3.8	8.7
	12	10.3	4.5	60	42.9	1.48	37.8	67.1	8.5	4.5	10.4
				80	41.6	1.97	34.9	86.9	6.2	4.2	9.8
				100	40.0	2.63	31.0	106.7	4.5	4.0	9.2
				120	38.1	3.51	26.1	126.3	3.2	3.8	8.7
90	6	2.8	1.2	60	52.4	1.37	47.7	68.7	11.2	4.5	10.4
				80	50.6	1.86	44.2	88.4	8.0	4.2	9.7
				100	48.4	2.51	39.9	108.1	5.7	4.0	9.2
				120	46.0	3.37	34.5	127.7	4.0	3.8	8.7
	9	5.8	2.5	60							
				80	52.0	1.84	45.7	88.7	8.3	4.2	9.7
				100	49.6	2.49	41.1	108.3	5.8	4.0	9.2
				120							
	12	9.7	4.2	60							
				80	52.8	1.83	46.5	88.8	8.5	4.2	9.7
				100							
				120							

GW048 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drp (ft of water)	Pressure Drop (psi)	EWT	4.5 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	60							
				80	28.0	2.16	20.7	92.5	3.8	1.1	2.5
				100	27.8	2.77	18.4	112.4	2.9	1.0	2.3
				120	28.0	3.61	15.7	132.4	2.3	1.0	2.2
	6.75	6.3	2.7	60	29.1	1.71	23.2	72.9	5.0	1.1	2.6
				80	28.6	2.16	21.2	92.7	3.9	1.1	2.5
				100	28.3	2.77	18.8	112.6	3.0	1.0	2.3
				120	28.3	3.61	16.0	132.6	2.3	1.0	2.2
	9	10.5	4.5	60	29.4	1.71	23.5	73.1	5.0	1.1	2.6
				80	28.9	2.17	21.5	92.8	3.9	1.1	2.5
				100	28.5	2.78	19.0	112.7	3.0	1.0	2.3
				120	28.5	3.61	16.2	132.7	2.3	1.0	2.2
50	4.5	2.8	1.2	60	36.5	1.80	30.3	76.2	5.9	1.1	2.6
				80	35.6	2.26	27.9	95.8	4.6	1.1	2.5
				100	34.8	2.87	25.0	115.5	3.6	1.0	2.3
				120	34.3	3.70	21.7	135.2	2.7	1.0	2.2
	6.75	5.9	2.5	60	37.5	1.81	31.3	76.7	6.1	1.1	2.6
				80	36.5	2.27	28.8	96.2	4.7	1.1	2.5
				100	35.6	2.88	25.7	115.8	3.6	1.0	2.3
				120	34.9	3.71	22.2	135.5	2.8	1.0	2.2
	9	9.8	4.3	60	38.1	1.82	31.9	76.9	6.1	1.1	2.6
				80	37.0	2.27	29.2	96.4	4.8	1.1	2.5
				100	35.9	2.88	26.1	116.0	3.7	1.0	2.3
				120	35.2	3.72	22.5	135.6	2.8	1.0	2.2
70	4.5	2.7	1.2	60	46.1	1.90	39.6	80.5	7.1	1.1	2.6
				80	44.6	2.37	36.5	99.8	5.5	1.1	2.4
				100	43.1	2.99	32.9	119.2	4.2	1.0	2.3
				120							
	6.75	5.5	2.4	60	47.7	1.92	41.1	81.2	7.3	1.1	2.6
				80	46.0	2.38	37.8	100.4	5.7	1.1	2.4
				100	44.3	3.00	34.0	119.7	4.3	1.0	2.3
				120							
	9	9.2	4.0	60	48.5	1.92	42.0	81.6	7.4	1.1	2.6
				80	46.7	2.39	38.5	100.8	5.7	1.1	2.4
				100	44.9	3.01	34.6	119.9	4.4	1.0	2.3
				120							
90	4.5	2.5	1.1	60	57.3	2.00	50.5	85.5	8.4	1.1	2.6
				80	55.1	2.48	46.6	104.5	6.5	1.1	2.4
				100	52.8	3.11	42.2	123.5	5.0	1.0	2.3
				120							
	6.75	5.2	2.2	60	59.7	2.02	52.8	86.5	8.7	1.1	2.6
				80	57.1	2.50	48.6	105.4	6.7	1.1	2.4
				100							
				120							
	9	8.7	3.7	60	61.0	2.02	54.0	87.1	8.8	1.1	2.6
				80							
				100							
				120							

GW048 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drp (ft of water)	Pressure Drop (psi)	EWT	6.75 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	60							
				80	28.1	2.08	21.0	86.2	4.0	3.8	8.7
				100	27.9	2.66	18.8	106.2	3.1	3.5	8.2
				120	27.9	3.5	16.13	126.2	2.4	3.4	7.7
	6.75	6.3	2.7	60	29.1	1.65	23.5	66.5	5.2	4.0	9.3
				80	28.7	2.08	21.6	86.4	4.0	3.8	8.7
				100	28.3	2.66	19.2	106.3	3.1	3.5	8.2
				120	28.3	3.46	16.5	126.3	2.4	3.4	7.7
	9	10.5	4.5	60	29.5	1.65	23.8	66.6	5.2	4.0	9.3
				80	28.9	2.08	21.8	86.4	4.1	3.8	8.7
				100	28.6	2.67	19.5	106.3	3.1	3.5	8.2
				120	28.5	3.46	16.7	126.3	2.4	3.4	7.7
50	4.5	2.8	1.2	60	36.6	1.72	30.8	68.1	6.3	4.0	9.3
				80	35.8	2.15	28.4	87.9	4.9	3.8	8.7
				100	35.0	2.73	25.6	107.8	3.7	3.5	8.2
				120	34.4	3.52	22.4	127.6	2.9	3.3	7.7
	6.75	5.9	2.5	60	37.7	1.73	31.8	68.4	6.4	4.0	9.3
				80	36.7	2.16	29.3	88.2	5.0	3.8	8.7
				100	35.7	2.74	26.4	107.9	3.8	3.5	8.2
				120	35.0	3.53	22.9	127.8	2.9	3.3	7.7
	9	9.8	4.3	60	38.3	1.73	32.4	68.5	6.5	4.0	9.3
				80	37.2	2.17	29.8	88.3	5.0	3.8	8.7
				100	36.1	2.75	26.8	108.0	3.9	3.5	8.2
				120	35.3	3.53	23.2	127.8	2.9	3.3	7.7
70	4.5	2.7	1.2	60	46.4	1.80	40.3	70.3	7.6	4.0	9.2
				80	45.0	2.24	37.3	90.0	5.9	3.7	8.7
				100	43.5	2.82	33.8	109.7	4.5	3.5	8.1
				120	42.1	3.61	29.8	129.4	3.4	3.3	7.7
	6.75	5.5	2.4	60	48.1	1.81	41.9	70.7	7.8	4.0	9.2
				80	46.4	2.25	38.7	90.3	6.0	3.7	8.6
				100	44.7	2.83	35.0	109.9	4.6	3.5	8.1
				120	43.1	3.62	30.7	129.6	3.5	3.3	7.7
	9	9.2	4.0	60	49.0	1.82	42.8	70.9	7.9	4.0	9.2
				80	47.2	2.26	39.5	90.5	6.1	3.7	8.6
				100	45.3	2.84	35.7	110.1	4.7	3.5	8.1
				120	43.6	3.62	31.2	129.7	3.5	3.3	7.7
90	4.5	2.5	1.1	60	58.0	1.87	51.6	72.9	9.1	4.0	9.2
				80	55.8	2.31	47.9	92.4	7.1	3.7	8.6
				100	53.5	2.90	43.6	111.9	5.4	3.5	8.1
				120	51.3	3.69	38.7	131.4	4.1	3.3	7.7
	6.75	5.2	2.2	60	60.5	1.88	54.1	73.4	9.4	4.0	9.2
				80	58.0	2.33	50.0	92.9	7.3	3.7	8.6
				100	55.3	2.91	45.4	112.3	5.6	3.5	8.1
				120							
	9	8.7	3.7	60	61.8	1.88	55.4	73.7	9.6	4.0	9.2
				80	59.1	2.33	51.2	93.1	7.4	3.7	8.6
				100							
				120							

GW048 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drp (ft of water)	Pressure Drop (psi)	EWT	9 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	4.5	3.0	1.3	60							
				80	28.1	2.08	21.0	86.2	4.0	3.8	8.7
				100	27.9	2.66	18.8	106.2	3.1	3.5	8.2
				120	27.9	3.5	16.13	126.2	2.4	3.4	7.7
	6.75	6.3	2.7	60	29.1	1.65	23.5	66.5	5.2	4.0	9.3
				80	28.7	2.08	21.6	86.4	4.0	3.8	8.7
				100	28.3	2.66	19.2	106.3	3.1	3.5	8.2
				120	28.3	3.46	16.5	126.3	2.4	3.4	7.7
	9	10.5	4.5	60	29.5	1.65	23.8	66.6	5.2	4.0	9.3
				80	28.9	2.08	21.8	86.4	4.1	3.8	8.7
				100	28.6	2.67	19.5	106.3	3.1	3.5	8.2
				120	28.5	3.46	16.7	126.3	2.4	3.4	7.7
50	4.5	2.8	1.2	60	36.6	1.72	30.8	68.1	6.3	4.0	9.3
				80	35.8	2.15	28.4	87.9	4.9	3.8	8.7
				100	35.0	2.73	25.6	107.8	3.7	3.5	8.2
				120	34.4	3.52	22.4	127.6	2.9	3.3	7.7
	6.75	5.9	2.5	60	37.7	1.73	31.8	68.4	6.4	4.0	9.3
				80	36.7	2.16	29.3	88.2	5.0	3.8	8.7
				100	35.7	2.74	26.4	107.9	3.8	3.5	8.2
				120	35.0	3.53	22.9	127.8	2.9	3.3	7.7
	9	9.8	4.3	60	38.3	1.73	32.4	68.5	6.5	4.0	9.3
				80	37.2	2.17	29.8	88.3	5.0	3.8	8.7
				100	36.1	2.75	26.8	108.0	3.9	3.5	8.2
				120	35.3	3.53	23.2	127.8	2.9	3.3	7.7
70	4.5	2.7	1.2	60	46.4	1.80	40.3	70.3	7.6	4.0	9.2
				80	45.0	2.24	37.3	90.0	5.9	3.7	8.7
				100	43.5	2.82	33.8	109.7	4.5	3.5	8.1
				120	42.1	3.61	29.8	129.4	3.4	3.3	7.7
	6.75	5.5	2.4	60	48.1	1.81	41.9	70.7	7.8	4.0	9.2
				80	46.4	2.25	38.7	90.3	6.0	3.7	8.6
				100	44.7	2.83	35.0	109.9	4.6	3.5	8.1
				120	43.1	3.62	30.7	129.6	3.5	3.3	7.7
	9	9.2	4.0	60	49.0	1.82	42.8	70.9	7.9	4.0	9.2
				80	47.2	2.26	39.5	90.5	6.1	3.7	8.6
				100	45.3	2.84	35.7	110.1	4.7	3.5	8.1
				120	43.6	3.62	31.2	129.7	3.5	3.3	7.7
90	4.5	2.5	1.1	60	58.0	1.87	51.6	72.9	9.1	4.0	9.2
				80	55.8	2.31	47.9	92.4	7.1	3.7	8.6
				100	53.5	2.90	43.6	111.9	5.4	3.5	8.1
				120	51.3	3.69	38.7	131.4	4.1	3.3	7.7
	6.75	5.2	2.2	60	60.5	1.88	54.1	73.4	9.4	4.0	9.2
				80	58.0	2.33	50.0	92.9	7.3	3.7	8.6
				100	55.3	2.91	45.4	112.3	5.6	3.5	8.1
				120							
	9	8.7	3.7	60	61.8	1.88	55.4	73.7	9.6	4.0	9.2
				80	59.1	2.33	51.2	93.1	7.4	3.7	8.6
				100							
				120							

GW048 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	6 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	6	1.3	3.1	50	27.3	1.4	32.1	36.4	19.4	3.2	1.4
				60	31.8	1.39	36.5	49.4	23.0	3.1	1.3
				70	36.9	1.36	41.5	57.7	27.2	3.0	1.3
				80	42.4	1.31	46.9	65.9	32.4	2.9	1.3
				90							
	9	2.4	5.6	50	27.4	1.37	32.1	40.9	20.0	3.2	1.4
				60	32.0	1.35	36.6	49.3	23.8	3.1	1.3
				70	37.1	1.31	41.6	57.6	28.3	3.0	1.3
				80	42.8	1.26	47.1	65.7	33.9	2.9	1.3
				90							
	12	3.7	8.6	50	27.4	1.35	32.1	40.9	20.3	3.2	1.4
				60	32.1	1.33	36.6	49.3	24.2	3.1	1.3
				70	37.2	1.29	41.6	57.6	28.9	3.0	1.3
				80	42.9	1.23	47.1	65.7	34.8	2.9	1.3
				90							
70	6	3.8	8.8	50	25.5	1.85	31.8	41.5	13.8	3.2	1.4
				60	29.7	1.83	36.0	50.1	16.2	3.1	1.3
				70	34.4	1.81	40.6	58.5	19.1	3.0	1.3
				80	39.6	1.76	45.7	66.8	22.5	2.9	1.3
				90	45.3	1.70	51.1	74.9	26.6	2.8	1.2
	9	1.2	2.9	50	25.7	1.81	31.8	41.4	14.2	3.2	1.4
				60	30.0	1.78	36.1	50.0	16.8	3.1	1.3
				70	34.8	1.75	40.7	58.4	19.9	3.0	1.3
				80	40.0	1.70	45.8	66.7	23.6	2.9	1.3
				90	45.8	1.63	51.4	74.7	28.0	2.8	1.2
	12	2.6	6.0	50	25.7	1.79	31.8	41.4	14.4	3.2	1.4
				60	30.1	1.76	36.1	50.0	17.1	3.1	1.3
				70	34.9	1.72	40.8	58.4	20.3	3.0	1.3
				80	40.2	1.67	45.9	66.6	24.1	2.9	1.3
				90	46.1	1.60	51.5	74.6	28.8	2.8	1.2
90	6	3.9	9.1	50	22.8	2.44	31.1	42.4	9.3	3.2	1.4
				60	26.8	2.43	35.1	51.1	11.0	3.1	1.3
				70	31.2	2.40	39.4	59.6	13.0	3.0	1.3
				80	36.0	2.36	44.0	68.0	15.3	2.9	1.3
				90	41.2	2.30	49.1	76.3	18.0	2.8	1.2
	9	2.8	6.4	50	23.0	2.38	31.2	42.3	9.7	3.2	1.4
				60	27.1	2.36	35.2	51.0	11.5	3.1	1.3
				70	31.6	2.33	39.5	59.5	13.6	3.0	1.3
				80	36.5	2.27	44.2	67.8	16.0	2.9	1.3
				90	41.9	2.20	49.4	76.0	19.0	2.8	1.2
	12	1.5	3.4	50	23.2	2.36	31.2	42.3	9.8	3.2	1.4
				60	27.3	2.33	35.2	50.9	11.7	3.1	1.3
				70	31.8	2.29	39.6	59.4	13.9	3.0	1.3
				80	36.7	2.23	44.4	67.8	16.4	2.9	1.3
				90	42.2	2.16	49.5	75.9	19.5	2.8	1.2
110	6	2.4	5.6	50	19.0	3.24	30.1	43.7	5.9	3.2	1.4
				60	22.8	3.22	33.8	52.4	7.1	3.1	1.3
				70	26.9	3.19	37.8	61.0	8.4	3.0	1.3
				80	31.4	3.15	42.1	69.5	10.0	2.9	1.2
				90	36.2	3.08	46.7	77.9	11.8	2.8	1.2
	9	4.1	9.5	50	19.4	3.16	30.2	43.5	6.1	3.2	1.4
				60	23.2	3.14	33.9	52.3	7.4	3.1	1.3
				70	27.4	3.10	38.0	60.9	8.8	3.0	1.3
				80	32.0	3.04	42.3	69.3	10.5	2.9	1.2
				90	36.9	2.97	47.1	77.7	12.5	2.8	1.2
	12	1.9	4.3	50	19.6	3.13	30.2	43.5	6.3	3.2	1.4
				60	23.4	3.10	34.0	52.2	7.6	3.1	1.3
				70	27.6	3.05	38.1	60.8	9.1	3.0	1.3
				80	32.3	2.99	42.5	69.2	10.8	2.9	1.2
				90	37.3	2.91	47.2	77.6	12.8	2.8	1.2

GW048 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	9 GPM							
				EWT	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	6	1.3	3.1	50	27.9	1.4	32.7	43.8	19.9	6.6	2.8
				60	32.7	1.38	37.4	52.7	23.7	6.4	2.8
				70	38.0	1.35	42.6	61.6	28.2	6.2	2.7
				80	43.9	1.30	48.3	70.2	33.8	6.0	2.6
				90							
	9	2.4	5.6	50	28.1	1.37	32.7	43.8	20.5	6.6	2.8
				60	32.9	1.34	37.5	52.7	24.5	6.4	2.8
				70	38.3	1.30	42.7	61.5	29.4	6.2	2.7
				80	44.2	1.25	48.5	70.2	35.5	6.0	2.6
				90							
	12	3.7	8.6	50	28.1	1.35	32.7	43.7	20.8	6.6	2.8
				60	33.0	1.32	37.5	52.7	25.0	6.4	2.8
				70	38.4	1.28	42.7	61.5	30.1	6.2	2.7
				80	44.4	1.22	48.6	70.1	36.4	6.0	2.6
				90							
70	6	3.8	8.8	50	26.1	1.85	32.4	44.2	14.1	6.6	2.8
				60	30.5	1.83	36.7	53.2	16.7	6.4	2.8
				70	35.4	1.80	41.6	62.1	19.7	6.2	2.7
				80	40.9	1.75	46.9	70.9	23.3	6.0	2.6
				90	46.9	1.69	52.6	79.6	27.8	5.8	2.5
	9	1.2	2.9	50	26.3	1.80	32.4	44.2	14.6	6.6	2.8
				60	30.8	1.78	36.8	53.2	17.3	6.4	2.8
				70	35.8	1.74	41.7	62.1	20.5	6.2	2.7
				80	41.3	1.69	47.1	70.8	24.5	6.0	2.6
				90	47.4	1.61	52.9	79.5	29.4	5.8	2.5
	12	2.6	6.0	50	26.4	1.78	32.4	44.1	14.8	6.6	2.8
				60	30.9	1.75	36.9	53.1	17.6	6.4	2.8
				70	35.9	1.71	41.8	62.0	21.0	6.2	2.7
				80	41.5	1.65	47.2	70.8	25.1	6.0	2.6
				90	47.7	1.58	53.1	79.4	30.3	5.8	2.5
90	6	3.9	9.1	50	23.3	2.44	31.6	44.8	9.5	6.6	2.8
				60	27.4	2.42	35.7	53.9	11.3	6.3	2.7
				70	32.0	2.39	40.2	62.9	13.4	6.1	2.7
				80	37.0	2.34	45.0	71.8	15.8	6.0	2.6
				90	42.6	2.28	50.3	80.5	18.7	5.8	2.5
	9	2.8	6.4	50	23.6	2.38	31.7	44.8	9.9	6.6	2.8
				60	27.8	2.36	35.8	53.8	11.8	6.4	2.7
				70	32.4	2.32	40.3	62.8	14.0	6.2	2.7
				80	37.6	2.26	45.3	71.7	16.6	6.0	2.6
				90	43.2	2.18	50.7	80.4	19.8	5.8	2.5
	12	1.5	3.4	50	23.7	2.35	31.7	44.7	10.1	6.6	2.8
				60	27.9	2.32	35.9	53.8	12.0	6.4	2.7
				70	32.6	2.28	40.4	62.7	14.3	6.2	2.7
				80	37.8	2.22	45.4	71.6	17.0	6.0	2.6
				90	43.5	2.14	50.8	80.3	20.4	5.8	2.5
110	6	2.4	5.6	50	19.4	3.24	30.5	45.7	6.0	6.6	2.8
				60	23.3	3.22	34.3	54.8	7.2	6.3	2.7
				70	27.6	3.19	38.4	63.9	8.6	6.1	2.7
				80	32.2	3.14	42.9	72.8	10.3	6.0	2.6
				90							
	9	4.1	9.5	50	19.8	3.16	30.6	45.6	6.3	6.6	2.8
				60	23.7	3.13	34.4	54.7	7.6	6.3	2.7
				70	28.1	3.09	38.6	63.8	9.1	6.1	2.7
				80	32.8	3.03	43.2	72.7	10.8	6.0	2.6
				90							
	12	1.9	4.3	50	20.0	3.12	30.6	45.6	6.4	6.6	2.8
				60	24.0	3.09	34.5	54.7	7.8	6.3	2.7
				70	28.3	3.04	38.7	63.7	9.3	6.1	2.7
				80	33.2	2.98	43.3	72.6	11.1	6.0	2.6
				90							

GW048 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	12 GPM							
				EWT	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	6	1.3	3.1	50	28.3	1.4	33.1	45.3	20.2	11.0	4.8
				60	33.2	1.38	37.9	54.5	24.1	10.6	4.6
				70	38.6	1.34	43.2	63.6	28.7	10.3	4.5
				80	44.7	1.29	49.1	72.6	34.6	10.0	4.3
	9	2.4	5.6	90							
				50	28.4	1.37	33.1	45.3	20.8	11.0	4.8
				60	33.4	1.34	37.9	54.4	24.9	10.6	4.6
				70	38.9	1.30	43.3	63.5	30.0	10.3	4.5
				80	45.0	1.24	49.3	72.5	36.4	10.0	4.3
	12	3.7	8.6	90							
				50	28.5	1.35	33.1	45.3	21.1	11.0	4.8
				60	33.4	1.32	37.9	54.4	25.4	10.6	4.6
				70	39.0	1.27	43.4	63.5	30.7	10.3	4.5
70	6	3.8	8.8	80							
				50	26.4	1.85	32.7	45.6	14.3	11.0	4.8
				60	30.9	1.83	37.1	54.8	16.9	10.6	4.6
				70	36.0	1.80	42.1	64.0	20.0	10.3	4.5
	9	1.2	2.9	80	41.5	1.75	47.5	73.1	23.8	10.0	4.3
				90	47.7	1.68	53.4	82.1	28.5	9.7	4.2
				50	26.6	1.80	32.7	45.6	14.7	11.0	4.8
				60	31.2	1.78	37.2	54.8	17.6	10.6	4.6
	12	2.6	6.0	70	36.3	1.74	42.2	63.9	20.9	10.3	4.5
				80	42.0	1.68	47.7	73.0	25.0	10.0	4.3
				90	48.3	1.60	53.7	82.0	30.2	9.7	4.2
90	6	3.9	9.1	50	26.7	1.78	32.8	45.6	15.0	11.0	4.8
				60	31.3	1.75	37.3	54.8	17.9	10.6	4.6
				70	36.5	1.71	42.3	63.9	21.4	10.3	4.5
				80	42.2	1.65	47.8	73.0	25.7	10.0	4.3
	9	2.8	6.4	90	48.6	1.56	53.9	81.9	31.1	9.7	4.2
				50	23.5	2.44	31.9	46.1	9.6	11.0	4.8
				60	27.8	2.42	36.0	55.4	11.5	10.6	4.6
				70	32.4	2.39	40.6	64.6	13.6	10.3	4.5
	12	1.5	3.4	80	37.6	2.34	45.6	73.7	16.1	10.0	4.3
				90							
				50	23.8	2.38	31.9	46.0	10.0	11.0	4.8
110	6	2.4	5.6	60	28.1	2.35	36.1	55.3	11.9	10.6	4.6
				70	32.9	2.31	40.8	64.5	14.2	10.3	4.5
				80	38.1	2.25	45.8	73.6	16.9	10.0	4.3
				90	43.9	2.17	51.4	82.7	20.2	9.7	4.2
	9	4.1	9.5	50	24.0	2.35	32.0	46.0	10.2	11.0	4.8
				60	28.3	2.32	36.2	55.3	12.2	10.6	4.6
				70	33.1	2.28	40.9	64.5	14.5	10.3	4.5
				80	38.4	2.21	46.0	73.6	17.4	10.0	4.3
	12	1.9	4.3	90	44.3	2.13	51.5	82.6	20.8	9.7	4.2
				50	19.6	3.24	30.7	46.7	6.1	11.0	4.8
				60	23.6	3.22	34.6	56.1	7.3	10.6	4.6
				70	27.9	3.18	38.8	65.3	8.8	10.3	4.4
				80	32.7	3.13	43.3	74.6	10.4	10.0	4.3
110	6	2.4	5.6	90							
				50	20.0	3.16	30.8	46.7	6.3	11.0	4.8
				60	24.0	3.13	34.7	56.0	7.7	10.6	4.6
				70	28.4	3.09	39.0	65.3	9.2	10.3	4.5
	9	4.1	9.5	80	33.3	3.02	43.6	74.4	11.0	10.0	4.3
				90							
				50	20.2	3.12	30.8	46.6	6.5	11.0	4.8
				60	24.2	3.09	34.8	56.0	7.9	10.6	4.6
	12	1.9	4.3	70	28.7	3.04	39.1	65.2	9.5	10.3	4.5
				80	33.6	2.97	43.8	74.4	11.3	10.0	4.3
				90							

GW048 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	6 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	6	1.3	3.0	50	40.1	2.0	46.8	36.4	20.3	3.2	1.4
				60	46.0	2.04	52.9	44.7	22.6	3.1	1.3
				70	52.4	2.10	59.6	52.5	25.0	3.0	1.3
				80	59.4	2.15	66.8	60.2	27.6	2.9	1.3
				90	66.9	2.21	74.5	67.7	30.3	2.8	1.2
	9	2.4	5.5	50	40.4	1.91	47.0	36.5	21.2	3.2	1.4
				60	46.5	1.96	53.1	44.5	23.7	3.1	1.3
				70	53.0	2.01	59.9	52.3	26.3	3.0	1.3
				80	60.1	2.06	67.2	60.0	29.1	2.9	1.3
				90							
	12	3.7	8.5	50	40.6	1.88	47.0	36.5	21.7	3.2	1.4
				60	46.7	1.93	53.3	44.4	24.3	3.1	1.3
				70	53.3	1.97	60.1	52.2	27.0	3.0	1.3
				80	60.5	2.02	67.4	59.8	30.0	2.9	1.3
				90							
70	6	3.8	8.7	50	37.0	2.48	45.5	37.7	14.9	3.2	1.4
				60	42.6	2.54	51.2	45.8	16.8	3.1	1.3
				70	48.6	2.60	57.5	53.8	18.7	3.0	1.3
				80	55.2	2.66	64.3	61.6	20.8	2.9	1.3
				90	62.3	2.71	71.5	69.2	23.0	2.8	1.2
	9	1.2	2.8	50	37.4	2.41	45.6	37.5	15.5	3.2	1.4
				60	43.1	2.46	51.5	45.6	17.5	3.1	1.3
				70	49.3	2.51	57.8	53.6	19.6	3.0	1.3
				80	56.0	2.56	64.7	61.3	21.9	2.9	1.3
				90	63.3	2.60	72.1	68.9	24.3	2.8	1.2
	12	2.6	6.0	50	37.6	2.38	45.7	37.5	15.8	3.2	1.4
				60	43.3	2.43	51.6	45.6	17.9	3.1	1.3
				70	49.6	2.47	58.0	53.5	20.1	3.0	1.3
				80	56.4	2.51	65.0	61.2	22.4	2.9	1.3
				90	63.7	2.55	72.4	68.8	25.0	2.8	1.2
90	6	3.9	9.0	50	33.6	3.09	44.2	38.8	10.9	3.2	1.4
				60	38.7	3.16	49.5	47.1	12.3	3.1	1.3
				70	44.3	3.22	55.3	55.2	13.8	3.0	1.3
				80	50.4	3.29	61.6	63.2	15.3	2.9	1.3
				90	56.9	3.35	68.3	71.0	17.0	2.8	1.2
	9	2.7	6.3	50	34.1	3.00	44.3	38.6	11.3	3.2	1.4
				60	39.3	3.06	49.7	46.9	12.8	3.1	1.3
				70	45.0	3.11	55.7	55.0	14.5	3.0	1.3
				80	51.3	3.16	62.1	62.9	16.2	2.9	1.3
				90	58.0	3.21	69.0	70.7	18.1	2.8	1.2
	12	1.5	3.4	50	34.3	2.96	44.4	38.6	11.6	3.2	1.4
				60	39.6	3.01	49.9	46.8	13.1	3.1	1.3
				70	45.4	3.06	55.8	54.9	14.8	3.0	1.3
				80	51.7	3.10	62.3	62.8	16.7	2.9	1.3
				90	58.6	3.14	69.3	70.5	18.6	2.8	1.2
110	6	2.4	5.6	50	29.6	3.93	43.0	40.1	7.5	3.2	1.4
				60	34.2	4.01	47.8	48.6	8.5	3.1	1.3
				70	39.2	4.09	53.1	56.9	9.6	3.0	1.3
				80	44.6	4.16	58.8	65.1	10.7	2.9	1.3
				90	50.6	4.23	65.0	73.1	11.9	2.8	1.2
	9	4.1	9.4	50	30.1	3.81	43.1	40.0	7.9	3.2	1.4
				60	34.8	3.88	48.0	48.4	9.0	3.1	1.3
				70	40.0	3.94	53.4	56.7	10.2	3.0	1.3
				80	45.7	4.00	59.3	64.8	11.4	2.9	1.3
				90	51.8	4.05	65.6	72.7	12.8	2.8	1.2
	12	1.8	4.2	50	30.4	3.75	43.2	39.9	8.1	3.2	1.4
				60	35.2	3.81	48.2	48.3	9.2	3.1	1.3
				70	40.4	3.87	53.6	56.5	10.5	3.0	1.3
				80	46.2	3.92	59.5	64.6	11.8	2.9	1.3
				90	52.4	3.96	65.9	72.5	13.2	2.8	1.2

GW048 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	9 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	6	1.3	3.0	50	41.4	2.0	48.2	40.8	20.8	6.6	2.9
				60	47.6	2.05	54.6	49.4	23.2	6.4	2.8
				70	54.5	2.11	61.7	57.9	25.8	6.2	2.7
				80	61.9	2.17	69.4	66.2	28.5	6.0	2.6
				90							
	9	2.4	5.5	50	41.8	1.92	48.3	40.7	21.8	6.6	2.9
				60	48.2	1.98	54.9	49.3	24.4	6.4	2.8
				70	55.1	2.03	62.1	57.7	27.2	6.2	2.7
				80	62.8	2.08	69.9	66.1	30.2	6.0	2.6
				90							
	12	3.7	8.5	50	42.0	1.89	48.4	40.7	22.3	6.6	2.9
				60	48.4	1.94	55.0	49.2	25.0	6.4	2.8
				70	55.5	1.99	62.3	57.7	27.9	6.2	2.7
				80	63.2	2.03	70.1	66.0	31.1	6.0	2.6
				90							
70	6	3.8	8.7	50	38.2	2.49	46.7	41.5	15.3	6.6	2.9
				60	44.0	2.56	52.7	50.2	17.2	6.4	2.8
				70	50.4	2.62	59.3	58.8	19.3	6.2	2.7
				80	57.4	2.67	66.5	67.2	21.5	6.0	2.6
				90	65.0	2.73	74.3	75.6	23.8	5.8	2.5
	9	1.2	2.8	50	38.6	2.42	46.9	41.4	15.9	6.6	2.9
				60	44.6	2.48	53.0	50.1	18.0	6.4	2.8
				70	51.1	2.53	59.7	58.6	20.2	6.2	2.7
				80	58.3	2.58	67.1	67.0	22.6	6.0	2.6
				90	66.1	2.62	75.0	75.3	25.2	5.8	2.5
	12	2.6	6.0	50	38.8	2.39	47.0	41.4	16.2	6.6	2.9
				60	44.8	2.44	53.2	50.0	18.4	6.4	2.8
				70	51.5	2.48	59.9	58.6	20.7	6.2	2.7
				80	58.7	2.53	67.3	67.0	23.2	6.0	2.6
				90	66.6	2.56	75.4	75.2	26.0	5.8	2.5
90	6	3.9	9.0	50	34.6	3.10	45.2	42.3	11.1	6.6	2.9
				60	39.9	3.17	50.8	51.1	12.6	6.4	2.8
				70	45.8	3.24	56.9	59.8	14.1	6.2	2.7
				80	52.2	3.30	63.5	68.4	15.8	6.0	2.6
				90	59.2	3.36	70.7	76.8	17.6	5.8	2.5
	9	2.7	6.3	50	35.1	3.01	45.3	42.2	11.6	6.6	2.9
				60	40.6	3.07	51.0	51.0	13.2	6.4	2.8
				70	46.6	3.13	57.3	59.6	14.9	6.2	2.7
				80	53.2	3.18	64.0	68.2	16.7	6.0	2.6
				90	60.4	3.22	71.4	76.6	18.8	5.8	2.5
	12	1.5	3.4	50	35.3	2.97	45.4	42.2	11.9	6.6	2.9
				60	40.9	3.02	51.2	50.9	13.5	6.4	2.8
				70	47.0	3.07	57.5	59.6	15.3	6.2	2.7
				80	53.7	3.12	64.3	68.1	17.2	6.0	2.6
				90	61.0	3.15	71.8	76.4	19.4	5.8	2.5
110	6	2.4	5.6	50	30.3	3.94	43.8	43.3	7.7	6.6	2.8
				60	35.1	4.02	48.8	52.2	8.7	6.4	2.8
				70	40.4	4.10	54.4	61.0	9.8	6.2	2.7
				80	46.1	4.18	60.4	69.8	11.0	6.0	2.6
				90							
	9	4.1	9.4	50	30.9	3.82	43.9	43.1	8.1	6.6	2.8
				60	35.8	3.89	49.1	52.0	9.2	6.4	2.8
				70	41.3	3.95	54.7	60.8	10.4	6.2	2.7
				80	47.2	4.01	60.9	69.5	11.8	6.0	2.6
				90	53.8	4.06	67.6	78.1	13.2	5.8	2.5
	12	1.8	4.2	50	31.2	3.76	44.0	43.1	8.3	6.6	2.8
				60	36.2	3.82	49.2	52.0	9.5	6.4	2.8
				70	41.7	3.88	54.9	60.7	10.8	6.2	2.7
				80	47.8	3.93	61.2	69.4	12.2	6.0	2.6
				90	54.4	3.97	68.0	77.9	13.7	5.8	2.5

GW048 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	12 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	6	1.3	3.0	50	42.1	2.0	48.9	43.0	21.1	11.0	4.8
				60	48.5	2.06	55.5	51.9	23.5	10.7	4.6
				70	55.6	2.12	62.8	60.7	26.2	10.4	4.5
				80	63.3	2.18	70.8	69.4	29.0	10.0	4.3
				90							
	9	2.4	5.5	50	42.5	1.93	49.1	42.9	22.1	11.0	4.8
				60	49.1	1.98	55.8	51.8	24.7	10.7	4.6
				70	56.3	2.04	63.2	60.6	27.6	10.4	4.5
				80	64.2	2.09	71.3	69.3	30.7	10.0	4.3
				90							
	12	3.7	8.5	50	42.7	1.89	49.2	42.9	22.6	11.0	4.8
				60	49.3	1.95	56.0	51.8	25.4	10.7	4.6
				70	56.6	2.00	63.5	60.6	28.4	10.4	4.5
				80	64.6	2.04	71.6	69.2	31.7	10.0	4.3
				90							
70	6	3.8	8.7	50	38.8	2.50	47.3	43.5	15.5	11.0	4.8
				60	44.8	2.56	53.5	52.5	17.5	10.7	4.6
				70	51.4	2.63	60.3	61.4	19.6	10.3	4.5
				80	58.6	2.68	67.7	70.2	21.8	10.0	4.3
				90	66.4	2.74	75.8	78.9	24.3	9.7	4.2
	9	1.2	2.8	50	39.2	2.43	47.5	43.5	16.1	11.0	4.8
				60	45.4	2.48	53.8	52.4	18.3	10.7	4.6
				70	52.1	2.54	60.8	61.3	20.6	10.3	4.5
				80	59.5	2.58	68.3	70.1	23.0	10.0	4.3
				90	67.6	2.62	76.6	78.7	25.8	9.7	4.2
	12	2.6	6.0	50	39.4	2.39	47.6	43.4	16.5	11.0	4.8
				60	45.6	2.44	54.0	52.4	18.7	10.7	4.6
				70	52.5	2.49	61.0	61.3	21.1	10.3	4.5
				80	60.0	2.53	68.6	70.0	23.7	10.0	4.3
				90	68.2	2.57	76.9	78.6	26.5	9.7	4.2
90	6	3.9	9.0	50	35.1	3.11	45.7	44.2	11.3	11.0	4.8
				60	40.6	3.18	51.4	53.2	12.8	10.7	4.6
				70	46.6	3.25	57.7	62.2	14.4	10.3	4.5
				80	53.2	3.31	64.5	71.1	16.1	10.0	4.3
				90	60.4	3.37	71.9	79.9	17.9	9.7	4.2
	9	2.7	6.3	50	35.6	3.02	45.9	44.1	11.8	11.0	4.8
				60	41.2	3.08	51.7	53.1	13.4	10.7	4.6
				70	47.4	3.13	58.1	62.1	15.1	10.3	4.5
				80	54.3	3.18	65.1	71.0	17.0	10.0	4.3
				90	61.7	3.23	72.7	79.7	19.1	9.7	4.2
	12	1.5	3.4	50	35.8	2.98	46.0	44.0	12.0	11.0	4.8
				60	41.5	3.03	51.9	53.1	13.7	10.7	4.6
				70	47.8	3.08	58.3	62.0	15.5	10.3	4.5
				80	54.8	3.12	65.4	70.9	17.5	10.0	4.3
				90	62.3	3.16	73.1	79.6	19.7	9.7	4.2
110	6	2.4	5.6	50	30.7	3.95	44.2	44.9	7.8	11.0	4.8
				60	35.6	4.03	49.3	54.1	8.8	10.7	4.6
				70	41.0	4.11	55.0	63.2	10.0	10.3	4.5
				80	46.9	4.19	61.2	72.2	11.2	10.0	4.3
				90							
	9	4.1	9.4	50	31.3	3.83	44.4	44.8	8.2	11.0	4.8
				60	36.3	3.89	49.6	53.9	9.3	10.7	4.6
				70	41.9	3.96	55.4	63.0	10.6	10.3	4.5
				80	48.1	4.02	61.8	72.0	12.0	10.0	4.3
				90							
	12	1.8	4.2	50	31.6	3.77	44.4	44.7	8.4	11.0	4.8
				60	36.7	3.83	49.8	53.9	9.6	10.7	4.6
				70	42.4	3.88	55.6	62.9	10.9	10.3	4.5
				80	48.6	3.93	62.1	71.9	12.4	10.0	4.3
				90							

GW060 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	7.5 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	7.5	3.8	1.7	60							
				80							
				100							
				120	27.4	5.04	10.2	127.3	1.6	1.2	2.8
	11.25	7.9	3.4	60							
				80							
				100							
				120	27.6	5.04	10.4	127.4	1.6	1.2	2.8
	15	13.3	5.8	60							
				80							
				100	29.4	3.77	16.6	107.9	2.3	1.3	3.0
				120	27.7	5.04	10.5	127.4	1.6	1.2	2.8
50	7.5	3.6	1.6	60	40.4	2.12	33.2	70.8	5.6	1.5	3.4
				80	39.4	2.81	29.8	90.5	4.1	1.4	3.2
				100	38.1	3.71	25.4	110.1	3.0	1.3	3.0
				120	36.3	4.94	19.4	129.7	2.2	1.2	2.8
	11.25	7.4	3.2	60	41.3	2.12	34.0	71.0	5.7	1.5	3.4
				80	40.1	2.81	30.5	90.7	4.2	1.4	3.2
				100	38.6	3.71	26.0	110.3	3.1	1.3	3.0
				120	36.7	4.93	19.8	129.8	2.2	1.2	2.8
	15	12.4	5.4	60	41.7	2.12	34.5	71.1	5.8	1.5	3.4
				80	40.4	2.81	30.8	90.8	4.2	1.4	3.2
				100	38.9	3.71	26.3	110.4	3.1	1.3	3.0
				120	36.9	4.93	20.1	129.8	2.2	1.2	2.8
70	7.5	3.4	1.5	60	52.6	2.04	45.6	74.0	7.5	1.5	3.4
				80	50.7	2.76	41.3	93.5	5.4	1.4	3.1
				100	48.6	3.65	36.2	113.0	3.9	1.3	3.0
				120	46.1	4.85	29.6	132.3	2.8	1.2	2.8
	11.25	7.0	3.0	60	54.0	2.03	47.0	74.4	7.8	1.5	3.3
				80	51.8	2.75	42.5	93.8	5.5	1.4	3.1
				100	49.6	3.65	37.1	113.2	4.0	1.3	3.0
				120	46.9	4.84	30.3	132.5	2.8	1.2	2.8
	15	11.7	5.0	60	54.7	2.03	47.8	74.6	7.9	1.4	3.3
				80	52.5	2.75	43.1	94.0	5.6	1.4	3.1
				100	50.1	3.65	37.6	113.4	4.0	1.3	3.0
				120	47.2	4.84	30.7	132.6	2.9	1.2	2.8
90	7.5	3.2	1.4	60	67.1	1.96	60.4	77.9	10.1	1.4	3.3
				80	64.0	2.70	54.8	97.1	6.9	1.4	3.1
				100	60.9	3.61	48.6	116.2	4.9	1.3	2.9
				120							
	11.25	6.6	2.8	60	69.3	1.94	62.6	78.5	10.4	1.4	3.3
				80	65.9	2.70	56.7	97.6	7.2	1.4	3.1
				100							
				120							
	15	11.0	4.7	60	70.5	1.94	63.9	78.8	10.7	1.4	3.3
				80							
				100							
				120							

GW060 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	11.25 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	7.5	3.8	1.7	60							
				80							
				100							
				120	27.6	4.9	10.87	123.7	1.6	4.3	9.9
	11.25	7.9	3.4	60							
				80							
				100							
				120	27.8	4.90	11.1	123.7	1.7	4.3	9.9
	15	13.3	5.8	60							
				80							
				100	29.6	3.66	17.1	103.9	2.4	4.5	10.5
				120	27.9	4.90	11.2	123.7	1.7	4.3	9.9
50	7.5	3.6	1.6	60	40.6	2.04	33.6	65.4	5.8	5.1	11.8
				80	39.5	2.71	30.2	85.3	4.3	4.8	11.1
				100	38.2	3.58	26.0	105.1	3.1	4.5	10.4
				120	36.5	4.77	20.3	124.9	2.2	4.3	9.9
	11.25	7.4	3.2	60	41.4	2.03	34.5	65.5	6.0	5.1	11.8
				80	40.2	2.71	31.0	85.4	4.4	4.8	11.1
				100	38.8	3.58	26.6	105.2	3.2	4.5	10.4
				120	37.0	4.76	20.7	124.9	2.3	4.3	9.9
	15	12.4	5.4	60	41.9	2.03	35.0	65.6	6.1	5.1	11.8
				80	40.6	2.70	31.4	85.4	4.4	4.8	11.1
				100	39.1	3.57	26.9	105.2	3.2	4.5	10.4
				120	37.2	4.76	20.9	125.0	2.3	4.3	9.9
70	7.5	3.4	1.5	60	52.9	1.93	46.3	67.1	8.0	5.1	11.8
				80	51.0	2.63	42.0	86.8	5.7	4.8	11.1
				100	49.0	3.49	37.1	106.5	4.1	4.5	10.4
				120	46.6	4.64	30.8	126.2	2.9	4.3	9.9
	11.25	7.0	3.0	60	54.4	1.92	47.8	67.2	8.3	5.1	11.8
				80	52.2	2.62	43.3	87.0	5.8	4.8	11.1
				100	50.0	3.48	38.1	106.7	4.2	4.5	10.4
				120	47.3	4.63	31.5	126.3	3.0	4.3	9.9
	15	11.7	5.0	60	55.1	1.91	48.6	67.4	8.5	5.1	11.8
				80	52.9	2.61	44.0	87.0	5.9	4.8	11.1
				100	50.5	3.48	38.6	106.7	4.3	4.5	10.4
				120	47.7	4.62	32.0	126.4	3.0	4.3	9.9
90	7.5	3.2	1.4	60	67.8	1.80	61.6	69.0	11.1	5.1	11.8
				80	64.7	2.53	56.0	88.6	7.5	4.8	11.0
				100	61.5	3.40	49.9	108.2	5.3	4.5	10.4
				120	58.1	4.53	42.6	127.7	3.8	4.3	9.8
	11.25	6.6	2.8	60							
				80	66.6	2.52	58.0	88.9	7.7	4.8	11.0
				100							
				120							
	15	11.0	4.7	60							
				80							
				100							
				120							

GW060 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	15 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	7.5	3.8	1.7	60							
				80							
				100							
				120	27.6	4.9	10.87	123.7	1.6	4.3	9.9
	11.25	7.9	3.4	60							
				80							
				100							
				120	27.8	4.90	11.1	123.7	1.7	4.3	9.9
	15	13.3	5.8	60							
				80							
				100	29.6	3.66	17.1	103.9	2.4	4.5	10.5
				120	27.9	4.90	11.2	123.7	1.7	4.3	9.9
50	7.5	3.6	1.6	60	40.6	2.04	33.6	65.4	5.8	5.1	11.8
				80	39.5	2.71	30.2	85.3	4.3	4.8	11.1
				100	38.2	3.58	26.0	105.1	3.1	4.5	10.4
				120	36.5	4.77	20.3	124.9	2.2	4.3	9.9
	11.25	7.4	3.2	60	41.4	2.03	34.5	65.5	6.0	5.1	11.8
				80	40.2	2.71	31.0	85.4	4.4	4.8	11.1
				100	38.8	3.58	26.6	105.2	3.2	4.5	10.4
				120	37.0	4.76	20.7	124.9	2.3	4.3	9.9
	15	12.4	5.4	60	41.9	2.03	35.0	65.6	6.1	5.1	11.8
				80	40.6	2.70	31.4	85.4	4.4	4.8	11.1
				100	39.1	3.57	26.9	105.2	3.2	4.5	10.4
				120	37.2	4.76	20.9	125.0	2.3	4.3	9.9
70	7.5	3.4	1.5	60	52.9	1.93	46.3	67.1	8.0	5.1	11.8
				80	51.0	2.63	42.0	86.8	5.7	4.8	11.1
				100	49.0	3.49	37.1	106.5	4.1	4.5	10.4
				120	46.6	4.64	30.8	126.2	2.9	4.3	9.9
	11.25	7.0	3.0	60	54.4	1.92	47.8	67.2	8.3	5.1	11.8
				80	52.2	2.62	43.3	87.0	5.8	4.8	11.1
				100	50.0	3.48	38.1	106.7	4.2	4.5	10.4
				120	47.3	4.63	31.5	126.3	3.0	4.3	9.9
	15	11.7	5.0	60	55.1	1.91	48.6	67.4	8.5	5.1	11.8
				80	52.9	2.61	44.0	87.0	5.9	4.8	11.1
				100	50.5	3.48	38.6	106.7	4.3	4.5	10.4
				120	47.7	4.62	32.0	126.4	3.0	4.3	9.9
90	7.5	3.2	1.4	60	67.8	1.80	61.6	69.0	11.1	5.1	11.8
				80	64.7	2.53	56.0	88.6	7.5	4.8	11.0
				100	61.5	3.40	49.9	108.2	5.3	4.5	10.4
				120	58.1	4.53	42.6	127.7	3.8	4.3	9.8
	11.25	6.6	2.8	60							
				80	66.6	2.52	58.0	88.9	7.7	4.8	11.0
				100							
				120							
	15	11.0	4.7	60							
				80							
				100							
				120							

GW060 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	7.5 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	7.5	3.9	1.7	60							
				80							
				100							
				120	42.7	5.59	23.6	131.4	2.2	1.2	2.8
	11.25	8.0	3.5	60							
				80							
				100	43.5	4.34	28.7	111.6	2.9	1.3	3.0
				120	43.2	5.60	24.0	131.5	2.3	1.2	2.8
	15	13.4	5.8	60							
				80							
				100	43.9	4.35	29.0	111.7	3.0	1.3	3.0
				120	43.4	5.61	24.3	131.6	2.3	1.2	2.8
50	7.5	3.6	1.6	60	57.0	2.76	47.5	75.2	6.0	1.4	3.3
				80	55.7	3.50	43.8	94.9	4.7	1.4	3.1
				100	54.4	4.48	39.1	114.5	3.6	1.3	3.0
				120	53.0	5.78	33.3	134.1	2.7	1.2	2.8
	11.25	7.5	3.2	60	58.6	2.77	49.1	75.6	6.2	1.4	3.3
				80	57.1	3.51	45.1	95.2	4.8	1.4	3.1
				100	55.5	4.49	40.2	114.8	3.6	1.3	3.0
				120	53.9	5.79	34.1	134.4	2.7	1.2	2.8
	15	12.5	5.4	60	59.5	2.78	50.0	75.9	6.3	1.4	3.3
				80	57.8	3.52	45.9	95.4	4.8	1.4	3.1
				100	56.1	4.50	40.8	115.0	3.7	1.3	3.0
				120	54.3	5.80	34.5	134.5	2.7	1.2	2.8
70	7.5	3.4	1.5	60	73.1	2.88	63.3	79.5	7.4	1.4	3.3
				80	70.7	3.62	58.3	98.8	5.7	1.4	3.1
				100	68.1	4.62	52.3	118.2	4.3	1.3	2.9
				120							
	11.25	7.0	3.0	60	75.6	2.90	65.7	80.2	7.6	1.4	3.3
				80	72.8	3.64	60.4	99.4	5.9	1.3	3.1
				100	69.9	4.64	54.0	118.6	4.4	1.3	2.9
				120							
	15	11.7	5.1	60	77.0	2.92	67.1	80.5	7.7	1.4	3.3
				80	74.0	3.65	61.5	99.7	5.9	1.3	3.1
				100	70.8	4.65	55.0	118.9	4.5	1.3	2.9
				120							
90	7.5	3.2	1.4	60	91.4	3.05	81.0	84.4	8.8	1.4	3.3
				80	87.7	3.78	74.8	103.4	6.8	1.3	3.1
				100	83.7	4.79	67.4	122.3	5.1	1.3	2.9
				120							
	11.25	6.6	2.9	60	95.1	3.08	84.6	85.4	9.0	1.4	3.3
				80	90.8	3.81	77.8	104.2	7.0	1.3	3.1
				100	86.3	4.82	69.9	123.0	5.3	1.3	2.9
				120							
	15	11.0	4.8	60	97.1	3.10	86.5	85.9	9.2	1.4	3.3
				80	92.5	3.83	79.4	104.7	7.1	1.3	3.1
				100	87.7	4.83	71.2	123.4	5.3	1.3	2.9
				120							

GW060 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	11.25 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	7.5	3.9	1.7	60							
				80							
				100							
				120	42.7	5.4	24.29	125.7	2.3	4.3	9.9
	11.25	8.0	3.5	60							
				80							
				100	43.6	4.18	29.3	105.8	3.1	4.5	10.4
				120	43.2	5.40	24.8	125.8	2.3	4.3	9.9
	15	13.4	5.8	60							
				80							
				100	43.9	4.19	29.6	105.9	3.1	4.5	10.4
				120	43.5	5.40	25.0	125.8	2.4	4.3	9.9
50	7.5	3.6	1.6	60	57.2	2.64	48.2	67.6	6.3	5.1	11.8
				80	55.9	3.34	44.5	87.5	4.9	4.8	11.1
				100	54.6	4.28	40.0	107.3	3.7	4.5	10.4
				120	53.2	5.52	34.4	127.1	2.8	4.3	9.8
	11.25	7.5	3.2	60	58.9	2.65	49.8	67.9	6.5	5.1	11.8
				80	57.4	3.35	46.0	87.7	5.0	4.8	11.1
				100	55.8	4.28	41.2	107.4	3.8	4.5	10.4
				120	54.2	5.53	35.3	127.2	2.9	4.3	9.8
	15	12.5	5.4	60	59.8	2.66	50.7	68.0	6.6	5.1	11.8
				80	58.2	3.36	46.7	87.8	5.1	4.8	11.0
				100	56.4	4.29	41.8	107.5	3.9	4.5	10.4
				120	54.7	5.54	35.8	127.3	2.9	4.3	9.8
70	7.5	3.4	1.5	60	73.7	2.73	64.3	69.8	7.9	5.1	11.8
				80	71.3	3.43	59.6	89.5	6.1	4.8	11.0
				100	68.7	4.36	53.8	109.2	4.6	4.5	10.4
				120	66.0	5.63	46.8	128.8	3.4	4.3	9.8
	11.25	7.0	3.0	60	76.3	2.75	66.9	70.2	8.1	5.1	11.7
				80	73.6	3.44	61.8	89.8	6.3	4.8	11.0
				100	70.6	4.38	55.7	109.4	4.7	4.5	10.4
				120	67.5	5.64	48.2	129.0	3.5	4.3	9.8
	15	11.7	5.1	60	77.8	2.76	68.3	70.4	8.3	5.1	11.7
				80	74.8	3.45	63.0	90.0	6.4	4.8	11.0
				100	71.6	4.38	56.6	109.5	4.8	4.5	10.4
				120	68.3	5.65	49.0	129.1	3.5	4.3	9.8
90	7.5	3.2	1.4	60	92.5	2.86	82.7	72.3	9.5	5.1	11.7
				80	88.8	3.54	76.8	91.8	7.4	4.8	11.0
				100	84.9	4.47	69.6	111.3	5.6	4.5	10.3
				120	80.7	5.74	61.1	130.8	4.1	4.2	9.8
	11.25	6.6	2.9	60	96.4	2.89	86.5	72.9	9.8	5.1	11.7
				80	92.2	3.56	80.0	92.3	7.6	4.7	11.0
				100	87.7	4.49	72.3	111.7	5.7	4.5	10.3
				120	82.9	5.76	63.3	131.1	4.2	4.2	9.8
	15	11.0	4.8	60	98.5	2.91	88.6	73.1	9.9	5.1	11.7
				80	94.0	3.58	81.8	92.5	7.7	4.7	11.0
				100	89.2	4.50	73.8	111.9	5.8	4.5	10.3
				120							

GW060 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		15 GPM						
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	7.5	3.9	1.7	60							
				80							
				100							
				120	42.7	5.4	24.29	125.7	2.3	4.3	9.9
	11.25	8.0	3.5	60							
				80							
				100	43.6	4.18	29.3	105.8	3.1	4.5	10.4
				120	43.2	5.40	24.8	125.8	2.3	4.3	9.9
	15	13.4	5.8	60							
				80							
				100	43.9	4.19	29.6	105.9	3.1	4.5	10.4
				120	43.5	5.40	25.0	125.8	2.4	4.3	9.9
50	7.5	3.6	1.6	60	57.2	2.64	48.2	67.6	6.3	5.1	11.8
				80	55.9	3.34	44.5	87.5	4.9	4.8	11.1
				100	54.6	4.28	40.0	107.3	3.7	4.5	10.4
				120	53.2	5.52	34.4	127.1	2.8	4.3	9.8
	11.25	7.5	3.2	60	58.9	2.65	49.8	67.9	6.5	5.1	11.8
				80	57.4	3.35	46.0	87.7	5.0	4.8	11.1
				100	55.8	4.28	41.2	107.4	3.8	4.5	10.4
				120	54.2	5.53	35.3	127.2	2.9	4.3	9.8
	15	12.5	5.4	60	59.8	2.66	50.7	68.0	6.6	5.1	11.8
				80	58.2	3.36	46.7	87.8	5.1	4.8	11.0
				100	56.4	4.29	41.8	107.5	3.9	4.5	10.4
				120	54.7	5.54	35.8	127.3	2.9	4.3	9.8
70	7.5	3.4	1.5	60	73.7	2.73	64.3	69.8	7.9	5.1	11.8
				80	71.3	3.43	59.6	89.5	6.1	4.8	11.0
				100	68.7	4.36	53.8	109.2	4.6	4.5	10.4
				120	66.0	5.63	46.8	128.8	3.4	4.3	9.8
	11.25	7.0	3.0	60	76.3	2.75	66.9	70.2	8.1	5.1	11.7
				80	73.6	3.44	61.8	89.8	6.3	4.8	11.0
				100	70.6	4.38	55.7	109.4	4.7	4.5	10.4
				120	67.5	5.64	48.2	129.0	3.5	4.3	9.8
	15	11.7	5.1	60	77.8	2.76	68.3	70.4	8.3	5.1	11.7
				80	74.8	3.45	63.0	90.0	6.4	4.8	11.0
				100	71.6	4.38	56.6	109.5	4.8	4.5	10.4
				120	68.3	5.65	49.0	129.1	3.5	4.3	9.8
90	7.5	3.2	1.4	60	92.5	2.86	82.7	72.3	9.5	5.1	11.7
				80	88.8	3.54	76.8	91.8	7.4	4.8	11.0
				100	84.9	4.47	69.6	111.3	5.6	4.5	10.3
				120	80.7	5.74	61.1	130.8	4.1	4.2	9.8
	11.25	6.6	2.9	60	96.4	2.89	86.5	72.9	9.8	5.1	11.7
				80	92.2	3.56	80.0	92.3	7.6	4.7	11.0
				100	87.7	4.49	72.3	111.7	5.7	4.5	10.3
				120	82.9	5.76	63.3	131.1	4.2	4.2	9.8
	15	11.0	4.8	60	98.5	2.91	88.6	73.1	9.9	5.1	11.7
				80	94.0	3.58	81.8	92.5	7.7	4.7	11.0
				100	89.2	4.50	73.8	111.9	5.8	4.5	10.3
				120							

GW060 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	7.5 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	7.5	1.5	3.5	50	34.8	1.8	41.0	36.4	19.1	3.6	1.6
				60	40.9	1.77	47.0	49.1	23.1	3.5	1.5
				70	47.7	1.72	53.6	57.3	27.7	3.4	1.5
				80	55.1	1.66	60.8	65.3	33.1	3.3	1.4
				90							
	11.25	2.7	6.3	50	35.1	1.77	41.1	40.6	19.8	3.6	1.6
				60	41.3	1.71	47.1	49.0	24.1	3.5	1.5
				70	48.2	1.64	53.8	57.1	29.3	3.4	1.5
				80	55.8	1.57	61.1	65.1	35.5	3.3	1.4
				90							
	15	4.2	9.7	50	35.2	1.74	41.2	40.6	20.2	3.6	1.6
				60	41.5	1.68	47.2	48.9	24.7	3.5	1.5
				70	48.4	1.61	53.9	57.1	30.2	3.4	1.5
				80	56.1	1.53	61.3	65.0	36.7	3.3	1.4
				90							
70	7.5	4.3	10.0	50	31.5	2.45	39.9	41.6	12.9	3.6	1.6
				60	37.2	2.42	45.5	50.1	15.4	3.5	1.5
				70	43.5	2.38	51.6	58.4	18.2	3.4	1.5
				80	50.3	2.35	58.3	66.6	21.4	3.3	1.4
				90	57.6	2.32	65.5	74.6	24.9	3.2	1.4
	11.25	1.4	3.2	50	31.8	2.39	40.0	41.5	13.3	3.6	1.6
				60	37.6	2.35	45.6	50.0	16.0	3.5	1.5
				70	44.0	2.30	51.8	58.3	19.1	3.4	1.5
				80	50.9	2.26	58.6	66.4	22.6	3.3	1.4
				90	58.5	2.21	66.0	74.4	26.5	3.2	1.4
	15	2.9	6.8	50	32.0	2.36	40.0	41.5	13.6	3.6	1.6
				60	37.8	2.31	45.7	49.9	16.3	3.5	1.5
				70	44.2	2.26	52.0	58.2	19.5	3.4	1.5
				80	51.2	2.21	58.8	66.3	23.2	3.3	1.4
				90	58.9	2.15	66.2	74.3	27.3	3.2	1.4
90	7.5	4.4	10.3	50	27.7	3.23	38.7	42.6	8.6	3.6	1.6
				60	33.1	3.20	44.0	51.2	10.3	3.5	1.5
				70	38.9	3.18	49.7	59.6	12.2	3.4	1.5
				80	45.1	3.15	55.8	68.0	14.3	3.3	1.4
				90	51.8	3.13	62.5	76.2	16.6	3.2	1.4
	11.25	3.1	7.2	50	28.1	3.15	38.9	42.5	8.9	3.6	1.6
				60	33.5	3.12	44.2	51.1	10.8	3.5	1.5
				70	39.4	3.08	49.9	59.5	12.8	3.4	1.5
				80	45.8	3.04	56.2	67.8	15.1	3.3	1.4
				90	52.7	3.00	62.9	76.0	17.5	3.2	1.4
	15	1.7	3.9	50	28.3	3.11	38.9	42.5	9.1	3.6	1.6
				60	33.7	3.07	44.2	51.0	11.0	3.5	1.5
				70	39.7	3.03	50.0	59.4	13.1	3.4	1.5
				80	46.1	2.99	56.3	67.7	15.4	3.3	1.4
				90	53.1	2.94	63.1	75.8	18.0	3.2	1.4
110	7.5	2.8	6.4	50	22.6	4.28	37.2	44.0	5.3	3.6	1.6
				60	27.7	4.24	42.2	52.6	6.5	3.5	1.5
				70	33.1	4.21	47.5	61.2	7.9	3.4	1.5
				80	38.9	4.18	53.1	69.6	9.3	3.3	1.4
				90	45.0	4.15	59.2	78.0	10.8	3.2	1.4
	11.25	4.6	10.7	50	23.1	4.18	37.4	43.8	5.5	3.6	1.6
				60	28.3	4.13	42.4	52.5	6.9	3.5	1.5
				70	33.8	4.08	47.7	61.0	8.3	3.4	1.5
				80	39.7	4.04	53.5	69.4	9.8	3.3	1.4
				90	46.0	4.00	59.6	77.7	11.5	3.2	1.4
	15	2.1	4.8	50	23.4	4.13	37.5	43.8	5.7	3.6	1.6
				60	28.6	4.07	42.5	52.4	7.0	3.5	1.5
				70	34.1	4.02	47.8	60.9	8.5	3.4	1.5
				80	40.1	3.97	53.6	69.3	10.1	3.3	1.4
				90	46.5	3.93	59.9	77.6	11.8	3.2	1.4

GW060 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	11.25 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	7.5	1.5	3.5	50	35.7	1.8	41.9	43.7	19.7	7.4	3.2
				60	42.1	1.76	48.1	52.5	23.9	7.2	3.1
				70	49.3	1.71	55.1	61.2	28.8	7.0	3.0
				80	57.1	1.65	62.7	69.9	34.6	6.8	2.9
				90							
	11.25	2.7	6.3	50	36.0	1.76	42.0	43.6	20.5	7.4	3.2
				60	42.5	1.70	48.3	52.4	25.1	7.2	3.1
				70	49.8	1.63	55.4	61.1	30.6	7.0	3.0
				80	57.8	1.55	63.1	69.7	37.2	6.8	2.9
				90							
	15	4.2	9.7	50	36.2	1.73	42.1	43.6	20.9	7.5	3.2
				60	42.8	1.66	48.4	52.4	25.7	7.2	3.1
				70	50.1	1.59	55.5	61.1	31.5	7.0	3.0
				80	58.2	1.51	63.3	69.7	38.6	6.8	2.9
				90							
70	7.5	4.3	10.0	50	32.3	2.44	40.7	44.3	13.2	7.4	3.2
				60	38.3	2.41	46.5	53.2	15.9	7.2	3.1
				70	44.8	2.38	52.9	62.0	18.8	7.0	3.0
				80	51.9	2.34	59.9	70.8	22.2	6.8	2.9
				90	59.7	2.31	67.6	79.4	25.9	6.6	2.8
	11.25	1.4	3.2	50	32.7	2.38	40.8	44.2	13.7	7.4	3.2
				60	38.7	2.34	46.7	53.1	16.5	7.2	3.1
				70	45.3	2.29	53.2	61.9	19.8	7.0	3.0
				80	52.6	2.25	60.3	70.6	23.4	6.8	2.9
				90	60.6	2.20	68.1	79.2	27.6	6.6	2.8
	15	2.9	6.8	50	32.8	2.35	40.8	44.2	13.9	7.4	3.2
				60	38.9	2.31	46.8	53.1	16.9	7.2	3.1
				70	45.6	2.25	53.3	61.9	20.2	7.0	3.0
				80	53.0	2.20	60.5	70.6	24.1	6.8	2.9
				90	61.0	2.14	68.3	79.1	28.5	6.6	2.8
90	7.5	4.4	10.3	50	28.4	3.23	39.4	45.0	8.8	7.4	3.2
				60	33.9	3.20	44.8	54.0	10.6	7.2	3.1
				70	39.9	3.17	50.7	62.9	12.6	7.0	3.0
				80	46.4	3.15	57.2	71.7	14.8	6.8	2.9
				90	53.5	3.12	64.1	80.5	17.1	6.6	2.8
	11.25	3.1	7.2	50	28.8	3.15	39.5	44.9	9.1	7.4	3.2
				60	34.4	3.11	45.0	53.9	11.1	7.2	3.1
				70	40.5	3.07	51.0	62.8	13.2	7.0	3.0
				80	47.2	3.03	57.5	71.6	15.6	6.8	2.9
				90	54.4	3.00	64.6	80.3	18.2	6.6	2.8
	15	1.7	3.9	50	29.0	3.11	39.6	44.9	9.3	7.4	3.2
				60	34.6	3.07	45.1	53.8	11.3	7.2	3.1
				70	40.8	3.02	51.1	62.7	13.5	7.0	3.0
				80	47.6	2.98	57.7	71.5	16.0	6.8	2.9
				90	54.9	2.93	64.9	80.2	18.7	6.6	2.8
110	7.5	2.8	6.4	50	23.2	4.27	37.7	45.9	5.4	7.4	3.2
				60	28.4	4.24	42.8	55.0	6.7	7.2	3.1
				70	34.0	4.20	48.3	64.0	8.1	7.0	3.0
				80	39.9	4.17	54.2	72.9	9.6	6.7	2.9
				90							
	11.25	4.6	10.7	50	23.7	4.17	37.9	45.8	5.7	7.4	3.2
				60	29.0	4.12	43.0	54.8	7.0	7.2	3.1
				70	34.7	4.07	48.6	63.8	8.5	7.0	3.0
				80	40.8	4.03	54.6	72.7	10.1	6.7	2.9
				90							
	15	2.1	4.8	50	23.9	4.12	38.0	45.7	5.8	7.4	3.2
				60	29.3	4.07	43.1	54.8	7.2	7.2	3.1
				70	35.0	4.01	48.7	63.8	8.7	7.0	3.0
				80	41.2	3.96	54.7	72.7	10.4	6.7	2.9
				90							

GW060 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	15 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	7.5	1.5	3.5	50	36.2	1.8	42.4	45.2	20.0	12.5	5.4
				60	42.8	1.76	48.8	54.3	24.3	12.1	5.2
				70	50.1	1.70	55.9	63.3	29.4	11.7	5.1
				80	58.1	1.64	63.7	72.2	35.4	11.3	4.9
				90							
	11.25	2.7	6.3	50	36.5	1.76	42.5	45.1	20.8	12.5	5.4
				60	43.2	1.69	49.0	54.2	25.5	12.1	5.2
				70	50.7	1.62	56.2	63.2	31.3	11.7	5.1
				80	58.9	1.54	64.2	72.1	38.2	11.3	4.9
				90							
	15	4.2	9.7	50	36.7	1.73	42.6	45.1	21.2	12.5	5.4
				60	43.4	1.66	49.1	54.2	26.2	12.1	5.2
				70	51.0	1.58	56.4	63.2	32.3	11.7	5.1
				80	59.3	1.49	64.4	72.1	39.7	11.3	4.9
				90							
70	7.5	4.3	10.0	50	32.7	2.44	41.1	45.6	13.4	12.5	5.4
				60	38.8	2.41	47.0	54.8	16.1	12.1	5.2
				70	45.5	2.37	53.6	63.9	19.2	11.7	5.1
				80	52.8	2.34	60.8	73.0	22.6	11.3	4.9
				90							
	11.25	1.4	3.2	50	33.1	2.38	41.2	45.6	13.9	12.5	5.4
				60	39.2	2.34	47.2	54.8	16.8	12.1	5.2
				70	46.1	2.29	53.9	63.9	20.1	11.7	5.1
				80	53.5	2.24	61.2	72.9	23.9	11.3	4.9
				90	61.7	2.19	69.2	81.8	28.2	11.0	4.8
	15	2.9	6.8	50	33.2	2.35	41.3	45.6	14.1	12.5	5.4
				60	39.4	2.30	47.3	54.7	17.1	12.1	5.2
				70	46.3	2.25	54.0	63.8	20.6	11.7	5.1
				80	53.9	2.19	61.4	72.8	24.6	11.3	4.9
				90	62.2	2.13	69.5	81.7	29.2	11.0	4.8
90	7.5	4.4	10.3	50	28.7	3.22	39.7	46.2	8.9	12.4	5.4
				60	34.4	3.20	45.3	55.4	10.8	12.0	5.2
				70	40.5	3.17	51.3	64.6	12.8	11.7	5.0
				80	47.2	3.14	57.9	73.7	15.0	11.3	4.9
				90							
	11.25	3.1	7.2	50	29.1	3.15	39.9	46.1	9.3	12.4	5.4
				60	34.8	3.11	45.4	55.4	11.2	12.0	5.2
				70	41.1	3.07	51.6	64.5	13.4	11.7	5.0
				80	47.9	3.03	58.3	73.6	15.8	11.3	4.9
				90							
	15	1.7	3.9	50	29.3	3.11	39.9	46.1	9.4	12.4	5.4
				60	35.1	3.06	45.5	55.3	11.5	12.0	5.2
				70	41.4	3.02	51.7	64.5	13.7	11.7	5.0
				80	48.3	2.97	58.5	73.6	16.3	11.3	4.9
				90							
110	7.5	2.8	6.4	50	23.4	4.27	38.0	46.9	5.5	12.4	5.4
				60	28.7	4.23	43.2	56.2	6.8	12.0	5.2
				70	34.4	4.20	48.7	65.4	8.2	11.6	5.0
				80	40.5	4.17	54.7	74.6	9.7	11.3	4.9
				90							
	11.25	4.6	10.7	50	23.9	4.17	38.2	46.8	5.7	12.4	5.4
				60	29.3	4.12	43.4	56.1	7.1	12.0	5.2
				70	35.1	4.07	49.0	65.3	8.6	11.6	5.0
				80	41.4	4.03	55.1	74.5	10.3	11.3	4.9
				90							
	15	2.1	4.8	50	24.2	4.12	38.2	46.8	5.9	12.4	5.4
				60	29.6	4.06	43.5	56.0	7.3	12.0	5.2
				70	35.5	4.01	49.2	65.3	8.9	11.6	5.0
				80	41.8	3.96	55.3	74.4	10.6	11.3	4.9
				90							

GW060 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	7.5 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	7.5	1.5	3.4	50	49.1	2.5	57.5	36.4	20.0	3.6	1.6
				60	57.0	2.52	65.6	44.8	22.6	3.5	1.5
				70	65.4	2.59	74.2	52.6	25.3	3.4	1.5
				80	74.3	2.67	83.4	60.2	27.9	3.3	1.4
				90	83.8	2.76	93.2	67.7	30.4	3.2	1.4
	11.25	2.7	6.3	50	49.5	2.39	57.7	36.8	20.7	3.6	1.6
				60	57.5	2.44	65.8	44.7	23.6	3.5	1.5
				70	66.1	2.50	74.6	52.4	26.5	3.4	1.5
				80	75.2	2.57	84.0	59.9	29.3	3.3	1.4
				90							
	15	4.2	9.7	50	49.7	2.35	57.7	36.7	21.1	3.6	1.6
				60	57.8	2.40	65.9	44.6	24.1	3.5	1.5
				70	66.4	2.45	74.8	52.3	27.1	3.4	1.5
				80	75.6	2.52	84.2	59.8	30.0	3.3	1.4
				90							
70	7.5	4.3	9.9	50	45.8	3.10	56.3	37.8	14.7	3.6	1.6
				60	53.1	3.16	63.8	45.9	16.8	3.5	1.5
				70	60.9	3.23	71.9	53.8	18.9	3.4	1.5
				80	69.2	3.30	80.5	61.5	21.0	3.3	1.4
				90	78.0	3.38	89.6	69.2	23.1	3.2	1.4
	11.25	1.4	3.2	50	46.2	3.01	56.5	37.7	15.3	3.6	1.6
				60	53.7	3.06	64.1	45.7	17.5	3.5	1.5
				70	61.7	3.11	72.3	53.6	19.8	3.4	1.5
				80	70.2	3.17	81.0	61.3	22.2	3.3	1.4
				90	79.3	3.24	90.3	68.9	24.5	3.2	1.4
	15	2.9	6.7	50	46.4	2.97	56.6	37.6	15.6	3.6	1.6
				60	54.0	3.01	64.2	45.6	17.9	3.5	1.5
				70	62.1	3.05	72.5	53.4	20.3	3.4	1.5
				80	70.7	3.11	81.3	61.1	22.8	3.3	1.4
				90	79.9	3.17	90.7	68.7	25.2	3.2	1.4
90	7.5	4.4	10.2	50	41.6	3.95	55.0	38.9	10.5	3.6	1.6
				60	48.3	4.02	62.0	47.1	12.0	3.5	1.5
				70	55.5	4.08	69.4	55.2	13.6	3.4	1.5
				80	63.1	4.16	77.3	63.2	15.2	3.3	1.4
				90	71.3	4.24	85.7	71.0	16.8	3.2	1.4
	11.25	3.1	7.2	50	42.1	3.83	55.2	38.8	11.0	3.6	1.6
				60	49.0	3.88	62.2	46.9	12.6	3.5	1.5
				70	56.4	3.93	69.8	55.0	14.3	3.4	1.5
				80	64.3	3.99	77.9	62.9	16.1	3.3	1.4
				90	72.7	4.06	86.5	70.6	17.9	3.2	1.4
	15	1.7	3.9	50	42.4	3.78	55.3	38.7	11.2	3.6	1.6
				60	49.3	3.82	62.4	46.8	12.9	3.5	1.5
				70	56.8	3.86	70.0	54.8	14.7	3.4	1.5
				80	64.8	3.91	78.2	62.7	16.6	3.3	1.4
				90	73.3	3.97	86.9	70.4	18.5	3.2	1.4
110	7.5	2.7	6.3	50	36.3	5.08	53.7	40.3	7.1	3.6	1.6
				60	42.4	5.16	60.0	48.7	8.2	3.5	1.5
				70	48.9	5.24	66.8	57.0	9.3	3.4	1.5
				80	55.8	5.33	74.0	65.1	10.5	3.3	1.4
				90	63.2	5.42	81.7	73.1	11.7	3.2	1.4
	11.25	4.6	10.7	50	37.0	4.93	53.8	40.1	7.5	3.6	1.6
				60	43.2	4.99	60.2	48.5	8.7	3.5	1.5
				70	49.9	5.05	67.2	56.7	9.9	3.4	1.5
				80	57.1	5.11	74.6	64.8	11.2	3.3	1.4
				90	64.8	5.18	82.4	72.7	12.5	3.2	1.4
	15	2.1	4.8	50	37.4	4.85	53.9	40.0	7.7	3.6	1.6
				60	43.6	4.90	60.4	48.4	8.9	3.5	1.5
				70	50.5	4.95	67.4	56.5	10.2	3.4	1.5
				80	57.8	5.00	74.9	64.6	11.6	3.3	1.4
				90	65.6	5.06	82.8	72.5	13.0	3.2	1.4

GW060 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	11.25 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	7.5	1.5	3.4	50	50.9	2.5	59.3	41.0	20.6	7.5	3.2
				60	59.1	2.54	67.8	49.5	23.3	7.2	3.1
				70	68.1	2.61	77.0	57.9	26.1	7.0	3.0
				80	77.5	2.70	86.7	66.2	28.8	6.8	3.0
				90	87.6	2.80	97.1	74.4	31.3	6.6	2.9
	11.25	2.7	6.3	50	51.3	2.40	59.5	40.9	21.4	7.5	3.2
				60	59.7	2.45	68.1	49.4	24.4	7.2	3.1
				70	68.8	2.52	77.4	57.8	27.3	7.0	3.0
				80	78.5	2.59	87.4	66.0	30.3	6.8	3.0
				90							
	15	4.2	9.7	50	51.5	2.36	59.6	40.8	21.8	7.5	3.2
				60	60.0	2.41	68.2	49.3	24.9	7.3	3.1
				70	69.2	2.47	77.6	57.7	28.0	7.0	3.0
				80	79.0	2.54	87.7	66.0	31.1	6.8	3.0
				90							
70	7.5	4.3	9.9	50	47.2	3.12	57.9	41.6	15.2	7.5	3.2
				60	54.9	3.18	65.8	50.2	17.3	7.2	3.1
				70	63.2	3.25	74.3	58.8	19.5	7.0	3.0
				80	72.0	3.32	83.4	67.2	21.7	6.8	2.9
				90	81.3	3.42	93.0	75.5	23.8	6.6	2.9
	11.25	1.4	3.2	50	47.7	3.02	58.1	41.5	15.8	7.5	3.2
				60	55.6	3.07	66.1	50.1	18.1	7.2	3.1
				70	64.1	3.13	74.7	58.6	20.5	7.0	3.0
				80	73.1	3.19	84.0	67.0	22.9	6.8	2.9
				90	82.7	3.27	93.9	75.3	25.3	6.6	2.9
	15	2.9	6.7	50	48.0	2.98	58.2	41.5	16.1	7.5	3.2
				60	55.9	3.02	66.2	50.1	18.5	7.2	3.1
				70	64.5	3.07	75.0	58.5	21.0	7.0	3.0
				80	73.7	3.13	84.3	66.9	23.6	6.8	2.9
				90	83.4	3.20	94.3	75.2	26.1	6.6	2.9
90	7.5	4.4	10.2	50	42.8	3.96	56.3	42.4	10.8	7.5	3.2
				60	49.8	4.03	63.6	51.1	12.4	7.2	3.1
				70	57.4	4.10	71.4	59.8	14.0	7.0	3.0
				80	65.5	4.18	79.7	68.4	15.6	6.8	2.9
				90	74.0	4.27	88.6	76.8	17.3	6.6	2.9
	11.25	3.1	7.2	50	43.4	3.84	56.5	42.3	11.3	7.5	3.2
				60	50.6	3.89	63.9	51.0	13.0	7.2	3.1
				70	58.4	3.95	71.9	59.6	14.8	7.0	3.0
				80	66.7	4.01	80.4	68.1	16.6	6.8	2.9
				90	75.6	4.08	89.5	76.6	18.5	6.6	2.9
	15	1.7	3.9	50	43.7	3.78	56.6	42.2	11.6	7.5	3.2
				60	51.0	3.83	64.0	50.9	13.3	7.2	3.1
				70	58.9	3.87	72.1	59.5	15.2	7.0	3.0
				80	67.3	3.93	80.7	68.0	17.2	6.8	2.9
				90	76.3	3.99	89.9	76.4	19.1	6.6	2.9
110	7.5	2.7	6.3	50	37.3	5.10	54.7	43.4	7.3	7.5	3.2
				60	43.6	5.18	61.2	52.3	8.4	7.2	3.1
				70	50.4	5.26	68.3	61.0	9.6	7.0	3.0
				80	57.7	5.35	75.9	69.7	10.8	6.8	2.9
				90	65.4	5.44	84.0	78.4	12.0	6.6	2.8
	11.25	4.6	10.7	50	38.0	4.94	54.9	43.2	7.7	7.5	3.2
				60	44.5	5.00	61.6	52.1	8.9	7.2	3.1
				70	51.6	5.06	68.8	60.8	10.2	7.0	3.0
				80	59.1	5.12	76.6	69.5	11.5	6.8	2.9
				90	67.1	5.20	84.9	78.1	12.9	6.6	2.8
	15	2.1	4.8	50	38.4	4.86	55.0	43.2	7.9	7.5	3.2
				60	45.0	4.91	61.7	52.0	9.2	7.2	3.1
				70	52.1	4.96	69.1	60.7	10.5	7.0	3.0
				80	59.8	5.02	76.9	69.4	11.9	6.8	2.9
				90	68.0	5.08	85.3	77.9	13.4	6.6	2.8

GW060 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	15 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	7.5	1.5	3.4	50	51.8	2.5	60.2	43.1	20.9	12.5	5.4
				60	60.3	2.55	69.0	52.0	23.7	12.1	5.2
				70	69.5	2.62	78.4	60.7	26.5	11.7	5.1
				80	79.3	2.71	88.5	69.4	29.2	11.4	4.9
				90							
	11.25	2.7	6.3	50	52.2	2.41	60.4	43.0	21.7	12.5	5.4
				60	60.9	2.46	69.3	51.9	24.8	12.1	5.2
				70	70.3	2.53	78.9	60.6	27.8	11.7	5.1
				80	80.3	2.61	89.2	69.3	30.8	11.4	4.9
				90							
	15	4.2	9.7	50	52.5	2.37	60.5	43.0	22.1	12.5	5.4
				60	61.2	2.42	69.5	51.8	25.3	12.1	5.2
				70	70.7	2.48	79.2	60.6	28.5	11.7	5.1
				80	80.8	2.56	89.6	69.2	31.6	11.4	4.9
				90							
70	7.5	4.3	9.9	50	48.0	3.12	58.7	43.6	15.4	12.5	5.4
				60	55.9	3.18	66.8	52.5	17.6	12.1	5.2
				70	64.4	3.26	75.5	61.4	19.8	11.7	5.1
				80	73.5	3.34	84.9	70.2	22.0	11.4	4.9
				90	83.1	3.44	94.8	78.9	24.2	11.0	4.8
	11.25	1.4	3.2	50	48.6	3.03	58.9	43.5	16.0	12.5	5.4
				60	56.6	3.08	67.1	52.4	18.4	12.1	5.2
				70	65.3	3.14	76.0	61.3	20.8	11.7	5.1
				80	74.7	3.20	85.6	70.0	23.3	11.4	4.9
				90	84.6	3.29	95.8	78.7	25.7	11.0	4.8
	15	2.9	6.7	50	48.8	2.98	59.0	43.5	16.4	12.5	5.4
				60	57.0	3.03	67.3	52.4	18.8	12.1	5.2
				70	65.8	3.08	76.3	61.2	21.4	11.7	5.1
				80	75.3	3.14	86.0	70.0	24.0	11.4	4.9
				90	85.3	3.22	96.3	78.6	26.5	11.0	4.8
90	7.5	4.4	10.2	50	43.4	3.97	57.0	44.2	10.9	12.5	5.4
				60	50.6	4.04	64.4	53.2	12.5	12.1	5.2
				70	58.4	4.11	72.4	62.2	14.2	11.7	5.1
				80	66.7	4.20	81.0	71.1	15.9	11.3	4.9
				90	75.5	4.29	90.1	79.9	17.6	11.0	4.8
	11.25	3.1	7.2	50	44.1	3.85	57.2	44.1	11.5	12.5	5.4
				60	51.5	3.90	64.8	53.1	13.2	12.1	5.2
				70	59.5	3.96	73.0	62.1	15.0	11.7	5.1
				80	68.0	4.02	81.7	70.9	16.9	11.4	4.9
				90	77.1	4.10	91.1	79.7	18.8	11.0	4.8
	15	1.7	3.9	50	44.4	3.79	57.3	44.1	11.7	12.5	5.4
				60	51.9	3.83	64.9	53.1	13.5	12.1	5.2
				70	60.0	3.88	73.2	62.0	15.5	11.7	5.1
				80	68.7	3.93	82.1	70.8	17.5	11.4	4.9
				90	77.9	4.00	91.6	79.6	19.5	11.0	4.8
110	7.5	2.7	6.3	50	37.8	5.10	55.2	45.0	7.4	12.5	5.4
				60	44.2	5.18	61.9	54.1	8.5	12.1	5.2
				70	51.2	5.27	69.2	63.2	9.7	11.7	5.1
				80	58.7	5.36	77.0	72.2	10.9	11.3	4.9
				90							
	11.25	4.6	10.7	50	38.6	4.94	55.4	44.9	7.8	12.5	5.4
				60	45.2	5.01	62.3	54.0	9.0	12.1	5.2
				70	52.4	5.07	69.7	63.0	10.3	11.7	5.1
				80	60.2	5.13	77.7	72.0	11.7	11.3	4.9
				90							
	15	2.1	4.8	50	38.9	4.87	55.5	44.8	8.0	12.5	5.4
				60	45.7	4.92	62.4	53.9	9.3	12.1	5.2
				70	53.0	4.97	70.0	62.9	10.7	11.7	5.1
				80	60.9	5.02	78.0	71.9	12.1	11.3	4.9
				90							

GW072 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	9 GPM							
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	9	4.7	2.0	60	36.8	2.5	28.2	36.4	4.3	1.8	4.2
				80	37.2	3.36	25.8	88.3	3.2	1.7	3.9
				100	37.9	4.46	22.7	108.4	2.5	1.6	3.7
				120	39.2	5.96	18.9	128.7	1.9	1.5	3.5
	13.5	9.8	4.2	60	37.3	2.50	28.7	68.3	4.4	1.8	4.2
				80	37.6	3.35	26.2	88.4	3.3	1.7	3.9
				100	38.2	4.45	23.0	108.5	2.5	1.6	3.7
				120	39.5	5.96	19.1	128.8	1.9	1.5	3.5
	18	16.4	7.1	60	37.5	2.50	29.0	68.3	4.4	1.8	4.2
				80	37.9	3.35	26.4	88.4	3.3	1.7	3.9
				100	38.4	4.45	23.2	108.5	2.5	1.6	3.7
				120	39.6	5.95	19.3	128.8	1.9	1.5	3.5
50	9	4.4	1.9	60	47.7	2.41	39.5	70.6	5.8	1.8	4.2
				80	47.2	3.22	36.2	90.5	4.3	1.7	3.9
				100	46.8	4.26	32.3	110.4	3.2	1.6	3.7
				120	46.9	5.69	27.5	130.4	2.4	1.5	3.5
	13.5	9.2	4.0	60	48.6	2.40	40.4	70.8	5.9	1.8	4.1
				80	48.0	3.21	37.0	90.7	4.4	1.7	3.9
				100	47.4	4.25	32.9	110.5	3.3	1.6	3.7
				120	47.4	5.68	28.0	130.5	2.4	1.5	3.5
	18	15.3	6.6	60	49.1	2.40	40.9	70.9	6.0	1.8	4.1
				80	48.4	3.20	37.4	90.7	4.4	1.7	3.9
				100	47.7	4.24	33.3	110.6	3.3	1.6	3.7
				120	47.6	5.67	28.3	130.6	2.5	1.5	3.5
70	9	4.2	1.8	60	61.5	2.32	53.6	73.7	7.8	1.8	4.1
				80	59.8	3.08	49.3	93.3	5.7	1.7	3.9
				100	58.2	4.06	44.3	112.9	4.2	1.6	3.6
				120	56.9	5.42	38.4	132.6	3.1	1.5	3.5
	13.5	8.6	3.7	60	63.0	2.31	55.2	74.0	8.0	1.8	4.1
				80	61.2	3.07	50.7	93.6	5.8	1.7	3.9
				100	59.2	4.05	45.4	113.2	4.3	1.6	3.6
				120	57.7	5.40	39.3	132.8	3.1	1.5	3.5
	18	14.4	6.2	60	63.9	2.31	56.0	74.2	8.1	1.8	4.1
				80	61.9	3.06	51.4	93.7	5.9	1.7	3.9
				100	59.8	4.04	46.0	113.3	4.3	1.6	3.6
				120	58.1	5.39	39.8	132.9	3.2	1.5	3.5
90	9	3.9	1.7	60	78.4	2.26	70.7	77.4	10.2	1.8	4.1
				80	75.4	2.97	65.3	96.8	7.4	1.7	3.9
				100	72.3	3.89	59.0	116.1	5.5	1.6	3.6
				120							
	13.5	8.1	3.5	60	80.9	2.25	73.2	78.0	10.5	1.8	4.1
				80	77.6	2.96	67.5	97.2	7.7	1.7	3.8
				100							
				120							
	18	13.5	5.8	60	82.3	2.25	74.6	78.3	10.7	1.8	4.1
				80							
				100							
				120							

GW072 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	13.5 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	9	4.7	2.0	60							
				80	37.2	3.26	26.0	84.1	3.3	5.9	13.7
				100	37.8	4.33	23.0	104.2	2.6	5.6	12.9
				120	39.0	5.8	19.32	124.3	2.0	5.3	12.2
	13.5	9.8	4.2	60							
				80	37.6	3.25	26.5	84.2	3.4	5.9	13.7
				100	38.1	4.32	23.4	104.2	2.6	5.6	12.9
				120	39.3	5.77	19.6	124.4	2.0	5.3	12.2
	18	16.4	7.1	60							
				80	37.8	3.25	26.7	84.2	3.4	5.9	13.7
				100	38.3	4.31	23.6	104.3	2.6	5.6	12.9
				120	39.4	5.76	19.7	124.4	2.0	5.3	12.2
50	9	4.4	1.9	60	47.7	2.31	39.8	65.3	6.1	6.3	14.6
				80	47.2	3.10	36.7	85.2	4.5	5.9	13.7
				100	46.8	4.11	32.8	105.2	3.3	5.6	12.8
				120	46.9	5.48	28.2	125.2	2.5	5.3	12.2
	13.5	9.2	4.0	60	48.7	2.30	40.8	65.4	6.2	6.3	14.6
				80	48.0	3.09	37.5	85.3	4.6	5.9	13.7
				100	47.5	4.09	33.5	105.3	3.4	5.6	12.8
				120	47.3	5.46	28.7	125.3	2.5	5.3	12.2
	18	15.3	6.6	60	49.2	2.30	41.3	65.5	6.3	6.3	14.6
				80	48.5	3.08	37.9	85.4	4.6	5.9	13.7
				100	47.8	4.08	33.9	105.3	3.4	5.6	12.8
				120	47.6	5.45	29.0	125.3	2.6	5.3	12.2
70	9	4.2	1.8	60	61.7	2.20	54.2	66.9	8.2	6.3	14.5
				80	60.1	2.94	50.1	86.7	6.0	5.9	13.6
				100	58.4	3.88	45.2	106.5	4.4	5.6	12.8
				120	57.0	5.17	39.4	126.3	3.2	5.3	12.1
	13.5	8.6	3.7	60	63.3	2.19	55.9	67.0	8.5	6.3	14.5
				80	61.5	2.93	51.5	86.8	6.2	5.9	13.6
				100	59.5	3.86	46.4	106.6	4.5	5.6	12.8
				120	57.9	5.15	40.3	126.4	3.3	5.3	12.1
	18	14.4	6.2	60	64.2	2.18	56.8	67.1	8.6	6.3	14.5
				80	62.2	2.92	52.3	86.9	6.2	5.9	13.6
				100	60.1	3.85	47.0	106.7	4.6	5.6	12.8
				120	58.4	5.14	40.8	126.5	3.3	5.3	12.1
90	9	3.9	1.7	60							
				80	76.0	2.80	66.5	88.4	7.9	5.9	13.6
				100	72.9	3.68	60.4	108.1	5.8	5.5	12.8
				120							
	13.5	8.1	3.5	60							
				80	78.3	2.79	68.8	88.7	8.2	5.9	13.6
				100							
				120							
	18	13.5	5.8	60							
				80							
				100							
				120							

GW072 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	18 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg ater Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	9	4.7	2.0	60							
				80	37.2	3.26	26.0	84.1	3.3	5.9	13.7
				100	37.8	4.33	23.0	104.2	2.6	5.6	12.9
				120	39.0	5.8	19.32	124.3	2.0	5.3	12.2
	13.5	9.8	4.2	60							
				80	37.6	3.25	26.5	84.2	3.4	5.9	13.7
				100	38.1	4.32	23.4	104.2	2.6	5.6	12.9
				120	39.3	5.77	19.6	124.4	2.0	5.3	12.2
	18	16.4	7.1	60							
				80	37.8	3.25	26.7	84.2	3.4	5.9	13.7
				100	38.3	4.31	23.6	104.3	2.6	5.6	12.9
				120	39.4	5.76	19.7	124.4	2.0	5.3	12.2
50	9	4.4	1.9	60	47.7	2.31	39.8	65.3	6.1	6.3	14.6
				80	47.2	3.10	36.7	85.2	4.5	5.9	13.7
				100	46.8	4.11	32.8	105.2	3.3	5.6	12.8
				120	46.9	5.48	28.2	125.2	2.5	5.3	12.2
	13.5	9.2	4.0	60	48.7	2.30	40.8	65.4	6.2	6.3	14.6
				80	48.0	3.09	37.5	85.3	4.6	5.9	13.7
				100	47.5	4.09	33.5	105.3	3.4	5.6	12.8
				120	47.3	5.46	28.7	125.3	2.5	5.3	12.2
	18	15.3	6.6	60	49.2	2.30	41.3	65.5	6.3	6.3	14.6
				80	48.5	3.08	37.9	85.4	4.6	5.9	13.7
				100	47.8	4.08	33.9	105.3	3.4	5.6	12.8
				120	47.6	5.45	29.0	125.3	2.6	5.3	12.2
70	9	4.2	1.8	60	61.7	2.20	54.2	66.9	8.2	6.3	14.5
				80	60.1	2.94	50.1	86.7	6.0	5.9	13.6
				100	58.4	3.88	45.2	106.5	4.4	5.6	12.8
				120	57.0	5.17	39.4	126.3	3.2	5.3	12.1
	13.5	8.6	3.7	60	63.3	2.19	55.9	67.0	8.5	6.3	14.5
				80	61.5	2.93	51.5	86.8	6.2	5.9	13.6
				100	59.5	3.86	46.4	106.6	4.5	5.6	12.8
				120	57.9	5.15	40.3	126.4	3.3	5.3	12.1
	18	14.4	6.2	60	64.2	2.18	56.8	67.1	8.6	6.3	14.5
				80	62.2	2.92	52.3	86.9	6.2	5.9	13.6
				100	60.1	3.85	47.0	106.7	4.6	5.6	12.8
				120	58.4	5.14	40.8	126.5	3.3	5.3	12.1
90	9	3.9	1.7	60							
				80	76.0	2.80	66.5	88.4	7.9	5.9	13.6
				100	72.9	3.68	60.4	108.1	5.8	5.5	12.8
				120	70.0	4.88	53.3	127.8	4.2	5.2	12.1
	13.5	8.1	3.5	60							
				80	78.3	2.79	68.8	88.7	8.2	5.9	13.6
				100							
				120							
	18	13.5	5.8	60							
				80							
				100							
				120							

GW072 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	9 GPM						
					Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	9	4.8	2.1	60							
				80							
				100							
				120							
	13.5	9.8	4.3	60							
				80							
				100							
				120							
	18	16.4	7.1	60	49.3	5.10	31.9	110.9	2.8	1.6	3.7
				80	47.9	6.30	26.4	130.6	2.2	1.5	3.5
				100	51.8	3.32	40.5	71.5	4.6	1.8	4.1
				120	50.9	4.14	36.8	91.3	3.6	1.7	3.9
50	9	4.5	1.9	60	49.6	5.11	32.2	111.0	2.8	1.6	3.7
				80	48.2	6.30	26.7	130.7	2.2	1.5	3.5
				100	65.5	3.43	53.9	74.6	5.6	1.8	4.1
				120	63.8	4.28	49.3	94.2	4.4	1.7	3.9
	13.5	9.2	4.0	60	61.8	5.28	43.8	113.7	3.4	1.6	3.6
				80	59.5	6.53	37.3	133.2	2.7	1.5	3.5
				100	67.3	3.44	55.6	75.0	5.7	1.8	4.1
				120	65.4	4.29	50.7	94.5	4.5	1.7	3.9
	18	15.4	6.7	60	63.0	5.30	45.0	114.0	3.5	1.6	3.6
				80	60.5	6.55	38.2	133.4	2.7	1.5	3.5
				100	68.3	3.45	56.5	75.2	5.8	1.8	4.1
				120	66.2	4.30	51.5	94.7	4.5	1.7	3.9
70	9	4.2	1.8	60	63.7	5.30	45.6	114.2	3.5	1.6	3.6
				80	61.0	6.56	38.6	133.6	2.7	1.5	3.5
				100	84.4	3.56	72.3	78.8	7.0	1.8	4.1
				120	81.4	4.43	66.3	98.1	5.4	1.7	3.8
	13.5	8.6	3.7	60	78.1	5.46	59.4	117.3	4.2	1.6	3.6
				80							
				100	87.3	3.58	75.1	79.4	7.2	1.8	4.1
				120	83.9	4.45	68.7	98.6	5.5	1.7	3.8
	18	14.4	6.2	60	80.1	5.49	61.4	117.8	4.3	1.6	3.6
				80							
				100	88.9	3.59	76.7	79.8	7.3	1.8	4.1
				120	85.3	4.46	70.1	98.9	5.6	1.7	3.8
90	9	3.9	1.7	60	81.2	5.50	62.5	118.0	4.3	1.6	3.6
				80							
				100	107.1	3.73	94.3	83.8	8.4	1.8	4.1
				120	102.5	4.61	86.8	102.8	6.5	1.7	3.8
	13.5	8.1	3.5	60	97.6	5.67	78.3	121.7	5.0	1.6	3.6
				80							
				100	111.6	3.77	98.8	84.8	8.7	1.8	4.1
				120	106.4	4.64	90.6	103.7	6.7	1.6	3.8
	18	13.5	5.9	60	100.9	5.71	81.4	122.4	5.2	1.6	3.6
				80							
				100	114.1	3.79	101.2	85.4	8.8	1.8	4.1
				120	108.6	4.66	92.7	104.1	6.8	1.6	3.8

GW072 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		13.5 GPM						
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	9	4.8	2.1	60							
				80							
				100							
				120							
	13.5	9.8	4.3	60							
				80							
				100							
				120							
	18	16.4	7.1	60	49.4	4.96	32.5	105.5	2.9	5.6	12.8
				80	48.1	6.12	27.2	125.3	2.3	5.3	12.1
				100	51.9	3.20	41.0	65.8	4.7	6.3	14.6
				120	51.0	4.02	37.3	85.7	3.7	5.9	13.6
50	9	4.5	1.9	60	49.8	4.96	32.9	105.5	2.9	5.6	12.8
				80	48.4	6.12	27.5	125.4	2.3	5.3	12.1
				100	65.8	3.28	54.6	67.3	5.9	6.3	14.5
				120	64.2	4.12	50.1	87.1	4.6	5.9	13.6
	13.5	9.2	4.0	60	62.2	5.09	44.8	106.9	3.6	5.5	12.8
				80	59.9	6.30	38.4	126.7	2.8	5.3	12.1
				100	67.6	3.29	56.4	67.5	6.0	6.3	14.5
				120	65.7	4.13	51.7	87.3	4.7	5.9	13.6
	18	15.4	6.7	60	63.5	5.10	46.0	107.1	3.6	5.5	12.8
				80	60.9	6.32	39.4	126.8	2.8	5.2	12.1
				100	68.6	3.29	57.4	67.6	6.1	6.3	14.5
				120	66.6	4.13	52.5	87.4	4.7	5.9	13.6
70	9	4.2	1.8	60	64.1	5.11	46.7	107.1	3.7	5.5	12.8
				80	61.5	6.32	39.9	126.8	2.9	5.2	12.1
				100	85.1	3.37	73.6	69.5	7.4	6.3	14.5
				120	82.2	4.22	67.8	89.1	5.7	5.9	13.6
	13.5	8.6	3.7	60	78.8	5.22	61.0	108.8	4.4	5.5	12.8
				80	75.2	6.47	53.2	128.4	3.4	5.2	12.1
				100	88.1	3.38	76.6	69.8	7.6	6.3	14.5
				120	84.8	4.23	70.3	89.4	5.9	5.9	13.6
	18	14.4	6.2	60	81.0	5.23	63.1	109.0	4.5	5.5	12.8
				80	77.0	6.48	54.8	128.6	3.5	5.2	12.1
				100	89.8	3.39	78.2	70.0	7.8	6.3	14.5
				120	86.2	4.24	71.7	89.6	6.0	5.9	13.6
90	9	3.9	1.7	60	82.2	5.24	64.3	109.1	4.6	5.5	12.8
				80	77.9	6.49	55.7	128.7	3.5	5.2	12.1
				100	108.3	3.49	96.4	72.0	9.1	6.2	14.4
				120	103.9	4.34	89.1	91.5	7.0	5.9	13.5
	13.5	8.1	3.5	60	99.0	5.36	80.7	111.0	5.4	5.5	12.7
				80	93.8	6.63	71.2	130.4	4.1	5.2	12.1
				100	113.1	3.52	101.1	72.6	9.4	6.2	14.4
				120	108.0	4.36	93.2	92.0	7.3	5.8	13.5
	18	13.5	5.9	60	102.5	5.38	84.1	111.4	5.6	5.5	12.7
				80	96.6	6.66	73.9	130.7	4.3	5.2	12.1
				100	115.8	3.53	103.7	72.9	9.6	6.2	14.4
				120	110.3	4.38	95.4	92.3	7.4	5.8	13.5
	18	13.5	5.9	60	104.4	5.39	86.0	111.6	5.7	5.5	12.7
				120							

GW072 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		18 GPM						
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	9	4.8	2.1	60							
				80							
				100							
				120							
	13.5	9.8	4.3	60							
				80							
				100							
				120							
	18	16.4	7.1	60	49.4	4.96	32.5	105.5	2.9	5.6	12.8
				80	48.1	6.12	27.2	125.3	2.3	5.3	12.1
				100	51.9	3.20	41.0	65.8	4.7	6.3	14.6
				120	51.0	4.02	37.3	85.7	3.7	5.9	13.6
50	9	4.5	1.9	60	49.8	4.96	32.9	105.5	2.9	5.6	12.8
				80	48.4	6.12	27.5	125.4	2.3	5.3	12.1
				100	65.8	3.28	54.6	67.3	5.9	6.3	14.5
				120	64.2	4.12	50.1	87.1	4.6	5.9	13.6
	13.5	9.2	4.0	60	62.2	5.09	44.8	106.9	3.6	5.5	12.8
				80	59.9	6.30	38.4	126.7	2.8	5.3	12.1
				100	67.6	3.29	56.4	67.5	6.0	6.3	14.5
				120	65.7	4.13	51.7	87.3	4.7	5.9	13.6
	18	15.4	6.7	60	63.5	5.10	46.0	107.1	3.6	5.5	12.8
				80	60.9	6.32	39.4	126.8	2.8	5.2	12.1
				100	68.6	3.29	57.4	67.6	6.1	6.3	14.5
				120	66.6	4.13	52.5	87.4	4.7	5.9	13.6
70	9	4.2	1.8	60	64.1	5.11	46.7	107.1	3.7	5.5	12.8
				80	61.5	6.32	39.9	126.8	2.9	5.2	12.1
				100	85.1	3.37	73.6	69.5	7.4	6.3	14.5
				120	82.2	4.22	67.8	89.1	5.7	5.9	13.6
	13.5	8.6	3.7	60	78.8	5.22	61.0	108.8	4.4	5.5	12.8
				80	75.2	6.47	53.2	128.4	3.4	5.2	12.1
				100	88.1	3.38	76.6	69.8	7.6	6.3	14.5
				120	84.8	4.23	70.3	89.4	5.9	5.9	13.6
	18	14.4	6.2	60	81.0	5.23	63.1	109.0	4.5	5.5	12.8
				80	77.0	6.48	54.8	128.6	3.5	5.2	12.1
				100	89.8	3.39	78.2	70.0	7.8	6.3	14.5
				120	86.2	4.24	71.7	89.6	6.0	5.9	13.6
90	9	3.9	1.7	60	82.2	5.24	64.3	109.1	4.6	5.5	12.8
				80	77.9	6.49	55.7	128.7	3.5	5.2	12.1
				100	108.3	3.49	96.4	72.0	9.1	6.2	14.4
				120	103.9	4.34	89.1	91.5	7.0	5.9	13.5
	13.5	8.1	3.5	60	99.0	5.36	80.7	111.0	5.4	5.5	12.7
				80	93.8	6.63	71.2	130.4	4.1	5.2	12.1
				100	113.1	3.52	101.1	72.6	9.4	6.2	14.4
				120	108.0	4.36	93.2	92.0	7.3	5.8	13.5
	18	13.5	5.9	60	102.5	5.38	84.1	111.4	5.6	5.5	12.7
				80	96.6	6.66	73.9	130.7	4.3	5.2	12.1
				100	115.8	3.53	103.7	72.9	9.6	6.2	14.4
				120	110.3	4.38	95.4	92.3	7.4	5.8	13.5
				60	104.4	5.39	86.0	111.6	5.7	5.5	12.7
				120							

GW072 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	9 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	9	1.9	4.3	50	40.8	2.0	47.8	36.4	20.0	4.4	1.9
				60	47.7	2.00	54.6	49.4	23.8	4.3	1.9
				70	55.4	1.97	62.1	57.7	28.1	4.2	1.8
				80	63.9	1.95	70.5	65.8	32.7	4.0	1.8
				90							
	13.5	3.4	7.8	50	41.1	1.98	47.8	40.9	20.8	4.4	1.9
				60	48.1	1.93	54.7	49.3	24.9	4.3	1.9
				70	55.8	1.89	62.3	57.6	29.5	4.2	1.8
				80	64.4	1.86	70.7	65.7	34.6	4.0	1.8
				90							
	18	5.2	12.0	50	41.2	1.95	47.8	40.8	21.2	4.4	1.9
				60	48.2	1.90	54.7	49.3	25.4	4.3	1.9
				70	56.0	1.85	62.4	57.6	30.2	4.2	1.8
				80	64.6	1.82	70.9	65.6	35.5	4.0	1.8
				90							
70	9	5.3	12.3	50	37.9	2.79	47.4	41.6	13.6	4.4	1.9
				60	44.4	2.73	53.7	50.1	16.2	4.3	1.9
				70	51.5	2.68	60.7	58.6	19.2	4.2	1.8
				80	59.4	2.63	68.4	66.8	22.6	4.0	1.7
				90	68.1	2.60	76.9	74.9	26.2	3.9	1.7
	13.5	1.7	4.0	50	38.2	2.72	47.5	41.5	14.0	4.4	1.9
				60	44.7	2.66	53.8	50.1	16.8	4.3	1.9
				70	52.0	2.60	60.9	58.4	20.0	4.2	1.8
				80	60.0	2.54	68.7	66.7	23.6	4.0	1.7
				90	68.8	2.50	77.3	74.7	27.6	3.9	1.7
	18	3.6	8.4	50	38.3	2.69	47.5	41.5	14.3	4.4	1.9
				60	44.9	2.62	53.8	50.0	17.1	4.3	1.9
				70	52.2	2.55	60.9	58.4	20.4	4.2	1.8
				80	60.3	2.50	68.8	66.6	24.2	4.0	1.7
				90	69.2	2.45	77.6	74.6	28.3	3.9	1.7
90	9	5.5	12.6	50	34.3	3.70	46.9	42.4	9.3	4.4	1.9
				60	40.3	3.62	52.6	51.0	11.1	4.3	1.9
				70	46.9	3.53	59.0	59.6	13.3	4.2	1.8
				80	54.2	3.46	66.0	67.9	15.7	4.0	1.7
				90	62.3	3.39	73.8	76.2	18.4	3.9	1.7
	13.5	3.9	8.9	50	34.7	3.61	47.0	42.3	9.6	4.4	1.9
				60	40.7	3.52	52.7	51.0	11.6	4.3	1.9
				70	47.5	3.43	59.2	59.5	13.8	4.2	1.8
				80	54.9	3.35	66.3	67.8	16.4	4.0	1.7
				90	63.1	3.27	74.3	76.0	19.3	3.9	1.7
	18	2.1	4.8	50	34.8	3.57	47.0	42.3	9.8	4.4	1.9
				60	40.9	3.47	52.8	50.9	11.8	4.3	1.9
				70	47.7	3.38	59.2	59.4	14.1	4.2	1.8
				80	55.3	3.29	66.5	67.7	16.8	4.0	1.7
				90	63.5	3.21	74.5	75.9	19.8	3.9	1.7
110	9	3.4	7.8	50	30.0	4.92	46.8	43.3	6.1	4.4	1.9
				60	35.4	4.80	51.8	52.1	7.4	4.3	1.9
				70	41.5	4.68	57.4	60.8	8.9	4.1	1.8
				80	48.2	4.57	63.8	69.3	10.5	4.0	1.7
				90	55.6	4.47	70.8	77.7	12.4	3.9	1.7
	13.5	5.7	13.2	50	30.4	4.79	46.8	43.2	6.3	4.4	1.9
				60	35.9	4.67	51.8	52.0	7.7	4.3	1.9
				70	42.1	4.54	57.6	60.6	9.3	4.1	1.8
				80	48.9	4.42	64.0	69.1	11.1	4.0	1.7
				90	56.5	4.31	71.2	77.4	13.1	3.9	1.7
	18	2.6	6.0	50	30.6	4.74	46.8	43.2	6.5	4.4	1.9
				60	36.2	4.60	51.9	52.0	7.9	4.3	1.9
				70	42.4	4.47	57.7	60.6	9.5	4.2	1.8
				80	49.3	4.35	64.2	69.0	11.3	4.0	1.7
				90	57.0	4.23	71.4	77.3	13.5	3.9	1.7

GW072 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	13.5 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	9	1.9	4.3	50	41.9	2.0	48.8	43.8	20.6	9.2	4.0
				60	49.1	2.00	55.9	52.7	24.6	8.9	3.8
				70	57.1	1.97	63.8	61.5	29.0	8.6	3.7
				80	66.0	1.95	72.7	70.2	33.9	8.3	3.6
				90							
	13.5	3.4	7.8	50	42.1	1.97	48.8	43.8	21.4	9.2	4.0
				60	49.4	1.93	56.0	52.7	25.7	8.9	3.8
				70	57.6	1.89	64.0	61.5	30.5	8.6	3.7
				80	66.6	1.86	73.0	70.1	35.9	8.3	3.6
				90							
	18	5.2	12.0	50	42.2	1.94	48.9	43.7	21.8	9.2	4.0
				60	49.6	1.89	56.0	52.7	26.2	8.9	3.8
				70	57.8	1.85	64.1	61.4	31.3	8.6	3.7
				80	66.9	1.81	73.1	70.1	36.9	8.3	3.6
				90							
70	9	5.3	12.3	50	38.8	2.78	48.3	44.3	13.9	9.2	4.0
				60	45.5	2.72	54.8	53.3	16.7	8.9	3.8
				70	53.0	2.67	62.1	62.1	19.8	8.6	3.7
				80	61.3	2.62	70.3	70.9	23.4	8.3	3.6
				90	70.4	2.59	79.3	79.6	27.2	8.1	3.5
	13.5	1.7	4.0	50	39.1	2.71	48.3	44.2	14.4	9.2	4.0
				60	45.9	2.65	54.9	53.2	17.3	8.9	3.8
				70	53.5	2.59	62.3	62.1	20.7	8.6	3.7
				80	62.0	2.53	70.6	70.8	24.5	8.3	3.6
				90	71.3	2.49	79.8	79.4	28.7	8.1	3.5
	18	3.6	8.4	50	39.2	2.68	48.4	44.2	14.7	9.2	4.0
				60	46.1	2.61	55.0	53.2	17.7	8.9	3.8
				70	53.8	2.54	62.5	62.0	21.2	8.6	3.7
				80	62.3	2.48	70.8	70.8	25.1	8.3	3.6
				90	71.7	2.44	80.0	79.4	29.4	8.1	3.5
90	9	5.5	12.6	50	35.1	3.69	47.6	44.8	9.5	9.2	4.0
				60	41.2	3.60	53.5	53.9	11.5	8.9	3.8
				70	48.2	3.52	60.2	62.9	13.7	8.6	3.7
				80	55.8	3.44	67.6	71.7	16.2	8.3	3.6
				90	64.3	3.38	75.8	80.5	19.0	8.1	3.5
	13.5	3.9	8.9	50	35.4	3.60	47.7	44.8	9.8	9.2	4.0
				60	41.7	3.50	53.7	53.8	11.9	8.9	3.8
				70	48.7	3.41	60.4	62.8	14.3	8.6	3.7
				80	56.6	3.33	67.9	71.6	17.0	8.3	3.6
				90	65.2	3.25	76.3	80.3	20.0	8.1	3.5
	18	2.1	4.8	50	35.6	3.55	47.7	44.7	10.0	9.2	4.0
				60	41.9	3.46	53.7	53.8	12.1	8.9	3.8
				70	49.0	3.36	60.5	62.7	14.6	8.6	3.7
				80	56.9	3.27	68.1	71.6	17.4	8.3	3.6
				90	65.7	3.19	76.5	80.3	20.6	8.1	3.5
110	9	3.4	7.8	50	30.6	4.90	47.3	45.5	6.2	9.1	4.0
				60	36.2	4.78	52.5	54.6	7.6	8.8	3.8
				70	42.5	4.67	58.4	63.7	9.1	8.6	3.7
				80	49.5	4.55	65.0	72.7	10.9	8.3	3.6
				90							
	13.5	5.7	13.2	50	31.0	4.78	47.3	45.4	6.5	9.1	4.0
				60	36.7	4.65	52.6	54.6	7.9	8.8	3.8
				70	43.1	4.52	58.6	63.6	9.5	8.6	3.7
				80	50.3	4.40	65.3	72.5	11.4	8.3	3.6
				90							
	18	2.6	6.0	50	31.2	4.72	47.3	45.4	6.6	9.1	4.0
				60	37.0	4.59	52.6	54.5	8.1	8.8	3.8
				70	43.5	4.45	58.7	63.6	9.8	8.6	3.7
				80	50.7	4.32	65.5	72.5	11.7	8.3	3.6
				90							

GW072 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	18 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	9	1.9	4.3	50	42.4	2.0	49.3	45.3	20.9	15.3	6.6
				60	49.8	2.00	56.6	54.5	25.0	14.9	6.4
				70	58.0	1.96	64.8	63.6	29.5	14.4	6.2
				80	67.2	1.94	73.8	72.5	34.6	13.9	6.0
				90							
	13.5	3.4	7.8	50	42.7	1.97	49.4	45.3	21.7	15.3	6.6
				60	50.1	1.92	56.7	54.4	26.1	14.9	6.4
				70	58.5	1.88	64.9	63.5	31.1	14.4	6.2
				80	67.8	1.85	74.1	72.5	36.6	13.9	6.0
				90							
	18	5.2	12.0	50	42.8	1.93	49.4	45.2	22.1	15.3	6.6
				60	50.3	1.89	56.7	54.4	26.7	14.9	6.4
				70	58.7	1.84	65.0	63.5	31.9	14.4	6.2
				80	68.1	1.81	74.3	72.4	37.7	13.9	6.0
				90							
70	9	5.3	12.3	50	39.3	2.78	48.7	45.6	14.1	15.3	6.6
				60	46.1	2.72	55.4	54.9	17.0	14.8	6.4
				70	53.8	2.67	62.9	64.0	20.2	14.4	6.2
				80	62.3	2.62	71.3	73.1	23.8	13.9	6.0
				90	71.7	2.58	80.5	82.0	27.8	13.5	5.8
	13.5	1.7	4.0	50	39.6	2.71	48.8	45.6	14.6	15.3	6.6
				60	46.5	2.64	55.5	54.8	17.6	14.8	6.4
				70	54.3	2.58	63.1	64.0	21.1	14.4	6.2
				80	63.0	2.52	71.6	73.0	25.0	13.9	6.0
				90	72.6	2.48	81.1	81.9	29.3	13.5	5.9
	18	3.6	8.4	50	39.7	2.67	48.8	45.6	14.9	15.3	6.6
				60	46.7	2.60	55.6	54.8	18.0	14.8	6.4
				70	54.6	2.54	63.3	63.9	21.5	14.4	6.2
				80	63.4	2.48	71.8	73.0	25.6	13.9	6.0
				90	73.0	2.43	81.3	81.9	30.1	13.5	5.9
90	9	5.5	12.6	50	35.4	3.68	48.0	46.1	9.6	15.3	6.6
				60	41.8	3.60	54.0	55.4	11.6	14.8	6.4
				70	48.8	3.51	60.8	64.6	13.9	14.4	6.2
				80	56.7	3.44	68.4	73.7	16.5	13.9	6.0
				90							
	13.5	3.9	8.9	50	35.8	3.59	48.1	46.0	10.0	15.3	6.6
				60	42.2	3.50	54.2	55.3	12.1	14.8	6.4
				70	49.4	3.41	61.0	64.5	14.5	14.4	6.2
				80	57.4	3.32	68.8	73.6	17.3	13.9	6.0
				90							
	18	2.1	4.8	50	36.0	3.55	48.1	46.0	10.1	15.3	6.6
				60	42.5	3.45	54.2	55.3	12.3	14.8	6.4
				70	49.7	3.35	61.2	64.5	14.8	14.4	6.2
				80	57.8	3.26	69.0	73.6	17.7	13.9	6.0
				90							
110	9	3.4	7.8	50	30.9	4.90	47.6	46.6	6.3	15.3	6.6
				60	36.6	4.77	52.9	55.9	7.7	14.8	6.4
				70	43.0	4.66	58.9	65.2	9.2	14.3	6.2
				80	50.2	4.54	65.7	74.4	11.0	13.9	6.0
				90							
	13.5	5.7	13.2	50	31.3	4.77	47.6	46.5	6.6	15.3	6.6
				60	37.1	4.64	53.0	55.9	8.0	14.8	6.4
				70	43.7	4.51	59.1	65.1	9.7	14.3	6.2
				80	51.0	4.39	66.0	74.3	11.6	13.9	6.0
				90							
	18	2.6	6.0	50	31.5	4.71	47.6	46.5	6.7	15.3	6.6
				60	37.4	4.58	53.0	55.8	8.2	14.8	6.4
				70	44.0	4.44	59.2	65.1	9.9	14.3	6.2
				80	51.4	4.31	66.1	74.3	11.9	13.9	6.0
				90							

GW072 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	9 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	9	1.8	4.2	50	55.9	3.0	66.2	36.4	18.4	4.5	1.9
				60	64.9	3.09	75.5	45.6	21.0	4.3	1.9
				70	74.9	3.16	85.7	53.3	23.7	4.2	1.8
				80	85.9	3.24	96.9	60.9	26.5	4.1	1.8
				90	97.7	3.33	109.1	68.3	29.3	4.0	1.7
	13.5	3.3	7.7	50	56.3	2.93	66.3	37.5	19.2	4.5	1.9
				60	65.6	2.98	75.7	45.4	22.0	4.3	1.9
				70	75.7	3.04	86.1	53.2	25.0	4.2	1.8
				80	86.9	3.10	97.5	60.7	28.0	4.1	1.8
				90							
	18	5.2	11.9	50	56.6	2.88	66.4	37.4	19.6	4.5	1.9
				60	65.9	2.93	75.8	45.4	22.5	4.3	1.9
				70	76.1	2.97	86.3	53.1	25.6	4.2	1.8
				80	87.4	3.03	97.8	60.6	28.9	4.1	1.8
				90							
70	9	5.3	12.2	50	51.7	3.84	64.8	38.5	13.5	4.5	1.9
				60	60.1	3.90	73.4	46.6	15.4	4.3	1.9
				70	69.4	3.98	83.0	54.6	17.5	4.2	1.8
				80	79.6	4.06	93.5	62.3	19.6	4.1	1.8
				90	90.7	4.15	104.9	69.8	21.9	4.0	1.7
	13.5	1.7	4.0	50	52.2	3.74	65.0	38.4	14.0	4.5	1.9
				60	60.8	3.79	73.7	46.5	16.0	4.3	1.9
				70	70.3	3.85	83.4	54.4	18.3	4.2	1.8
				80	80.8	3.91	94.1	62.1	20.7	4.1	1.8
				90	92.1	3.98	105.7	69.5	23.1	4.0	1.7
	18	3.6	8.3	50	52.5	3.69	65.1	38.3	14.2	4.5	1.9
				60	61.2	3.73	73.9	46.4	16.4	4.3	1.9
				70	70.8	3.78	83.7	54.3	18.7	4.2	1.8
				80	81.3	3.83	94.4	61.9	21.2	4.1	1.8
				90	92.9	3.90	106.2	69.4	23.8	4.0	1.7
90	9	5.5	12.6	50	46.6	4.75	62.9	39.6	9.8	4.5	1.9
				60	54.4	4.83	70.9	47.9	11.3	4.3	1.9
				70	63.0	4.92	79.8	56.0	12.8	4.2	1.8
				80	72.4	5.01	89.5	63.9	14.5	4.1	1.8
				90	82.7	5.11	100.1	71.6	16.2	3.9	1.7
	13.5	3.8	8.9	50	47.3	4.64	63.1	39.5	10.2	4.5	1.9
				60	55.2	4.70	71.3	47.7	11.7	4.3	1.9
				70	64.0	4.77	80.3	55.8	13.4	4.2	1.8
				80	73.7	4.84	90.2	63.6	15.2	4.1	1.8
				90	84.3	4.92	101.0	71.3	17.1	3.9	1.7
	18	2.1	4.7	50	47.6	4.58	63.2	39.4	10.4	4.5	1.9
				60	55.6	4.64	71.4	47.6	12.0	4.3	1.9
				70	64.5	4.69	80.5	55.7	13.8	4.2	1.8
				80	74.3	4.75	90.5	63.5	15.6	4.1	1.8
				90	85.1	4.82	101.5	71.1	17.6	3.9	1.7
110	9	3.4	7.8	50	40.7	5.87	60.7	41.0	6.9	4.4	1.9
				60	47.7	5.97	68.1	49.4	8.0	4.3	1.9
				70	55.5	6.08	76.3	57.7	9.1	4.2	1.8
				80	64.1	6.19	85.3	65.7	10.4	4.0	1.8
				90	73.5	6.30	95.1	73.7	11.7	3.9	1.7
	13.5	5.7	13.2	50	41.4	5.73	60.9	40.8	7.2	4.4	1.9
				60	48.6	5.81	68.5	49.2	8.4	4.3	1.9
				70	56.7	5.89	76.8	57.4	9.6	4.2	1.8
				80	65.5	5.98	85.9	65.4	11.0	4.0	1.8
				90	75.3	6.07	96.0	73.3	12.4	3.9	1.7
	18	2.6	5.9	50	41.7	5.66	61.1	40.7	7.4	4.4	1.9
				60	49.1	5.73	68.6	49.1	8.6	4.3	1.9
				70	57.2	5.81	77.0	57.3	9.9	4.2	1.8
				80	66.2	5.88	86.3	65.3	11.3	4.1	1.8
				90	76.1	5.96	96.4	73.1	12.8	3.9	1.7

GW072 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	13.5 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	9	1.8	4.2	50	57.7	3.0	68.1	41.4	19.0	9.2	4.0
				60	67.3	3.11	78.0	50.0	21.7	8.9	3.9
				70	78.0	3.18	88.9	58.4	24.5	8.6	3.7
				80	89.7	3.27	100.9	66.7	27.4	8.4	3.6
				90							
	13.5	3.3	7.7	50	58.2	2.94	68.3	41.4	19.8	9.2	4.0
				60	68.0	2.99	78.3	49.9	22.7	8.9	3.9
				70	78.9	3.05	89.3	58.3	25.8	8.6	3.7
				80	90.9	3.12	101.6	66.5	29.1	8.4	3.6
				90							
	18	5.2	11.9	50	58.5	2.89	68.4	41.3	20.2	9.2	4.0
				60	68.4	2.94	78.4	49.9	23.3	8.9	3.9
				70	79.4	2.99	89.6	58.2	26.6	8.6	3.7
				80	91.5	3.05	101.9	66.4	30.0	8.4	3.6
				90							
70	9	5.3	12.2	50	53.3	3.85	66.4	42.1	13.8	9.2	4.0
				60	62.2	3.92	75.5	50.8	15.9	8.9	3.9
				70	72.1	4.00	85.7	59.3	18.0	8.6	3.7
				80	82.9	4.09	96.9	67.7	20.3	8.4	3.6
				90	94.8	4.19	109.1	76.0	22.7	8.1	3.5
	13.5	1.7	4.0	50	53.9	3.75	66.6	42.0	14.4	9.2	4.0
				60	62.9	3.80	75.9	50.7	16.6	8.9	3.9
				70	73.1	3.86	86.2	59.2	18.9	8.6	3.7
				80	84.2	3.93	97.6	67.5	21.4	8.4	3.6
				90	96.4	4.01	110.1	75.7	24.0	8.1	3.5
	18	3.6	8.3	50	54.1	3.70	66.8	42.0	14.7	9.2	4.0
				60	63.3	3.74	76.1	50.6	16.9	8.9	3.9
				70	73.6	3.79	86.5	59.1	19.4	8.6	3.7
				80	84.9	3.85	98.0	67.4	22.0	8.4	3.6
				90	97.3	3.92	110.6	75.6	24.8	8.1	3.5
90	9	5.5	12.6	50	48.0	4.77	64.2	42.9	10.1	9.2	4.0
				60	56.1	4.85	72.7	51.7	11.6	8.9	3.8
				70	65.2	4.94	82.1	60.3	13.2	8.6	3.7
				80	75.2	5.04	92.4	68.9	14.9	8.4	3.6
				90	86.1	5.15	103.7	77.2	16.7	8.1	3.5
	13.5	3.8	8.9	50	48.6	4.65	64.5	42.8	10.5	9.2	4.0
				60	57.0	4.72	73.1	51.6	12.1	8.9	3.8
				70	66.3	4.78	82.6	60.2	13.9	8.6	3.7
				80	76.6	4.86	93.2	68.7	15.8	8.4	3.6
				90	87.9	4.94	104.8	77.0	17.8	8.1	3.5
	18	2.1	4.7	50	49.0	4.59	64.6	42.7	10.7	9.2	4.0
				60	57.4	4.65	73.3	51.5	12.4	8.9	3.8
				70	66.9	4.71	82.9	60.1	14.2	8.6	3.7
				80	77.3	4.77	93.6	68.5	16.2	8.4	3.6
				90	88.8	4.84	105.3	76.8	18.3	8.1	3.5
110	9	3.4	7.8	50	41.7	5.89	61.8	43.8	7.1	9.2	4.0
				60	49.1	5.99	69.5	52.7	8.2	8.9	3.8
				70	57.3	6.10	78.1	61.5	9.4	8.6	3.7
				80	66.4	6.21	87.6	70.2	10.7	8.3	3.6
				90	76.4	6.34	98.0	78.7	12.0	8.1	3.5
	13.5	5.7	13.2	50	42.5	5.74	62.1	43.7	7.4	9.2	4.0
				60	50.1	5.83	69.9	52.6	8.6	8.9	3.8
				70	58.5	5.91	78.7	61.3	9.9	8.6	3.7
				80	67.9	6.00	88.4	69.9	11.3	8.3	3.6
				90	78.2	6.10	99.1	78.4	12.8	8.1	3.5
	18	2.6	5.9	50	42.9	5.67	62.2	43.7	7.6	9.2	4.0
				60	50.5	5.75	70.2	52.5	8.8	8.9	3.8
				70	59.1	5.82	79.0	61.2	10.2	8.6	3.7
				80	68.7	5.90	88.8	69.8	11.6	8.3	3.6
				90	79.2	5.98	99.6	78.3	13.2	8.1	3.5

GW072 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	18 GPM							
				EWT	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	9	1.8	4.2	50	58.7	3.0	69.1	43.5	19.3	15.4	6.7
				60	68.6	3.12	79.3	52.4	22.0	14.9	6.5
				70	79.7	3.19	90.6	61.1	24.9	14.4	6.3
				80	91.8	3.29	103.0	69.8	27.9	14.0	6.1
				90							
	13.5	3.3	7.7	50	59.3	2.95	69.3	43.4	20.1	15.4	6.7
				60	69.4	3.00	79.6	52.3	23.1	14.9	6.5
				70	80.6	3.06	91.1	61.0	26.3	14.4	6.3
				80	93.1	3.14	103.8	69.7	29.7	14.0	6.1
				90							
	18	5.2	11.9	50	59.5	2.90	69.4	43.4	20.6	15.4	6.7
				60	69.7	2.94	79.8	52.3	23.7	14.9	6.5
				70	81.1	3.00	91.3	61.0	27.1	14.4	6.3
				80	93.7	3.06	104.1	69.6	30.6	14.0	6.1
				90							
70	9	5.3	12.2	50	54.1	3.86	67.3	44.0	14.0	15.4	6.7
				60	63.3	3.93	76.7	53.0	16.1	14.9	6.4
				70	73.5	4.01	87.2	61.8	18.3	14.4	6.2
				80	84.7	4.10	98.7	70.6	20.7	14.0	6.1
				90	97.0	4.21	111.4	79.2	23.1	13.6	5.9
	13.5	1.7	4.0	50	54.7	3.75	67.5	43.9	14.6	15.4	6.7
				60	64.1	3.81	77.1	52.9	16.8	14.9	6.4
				70	74.5	3.87	87.7	61.7	19.3	14.4	6.2
				80	86.1	3.94	99.5	70.4	21.8	14.0	6.1
				90	98.8	4.03	112.5	79.0	24.5	13.6	5.9
	18	3.6	8.3	50	55.0	3.70	67.7	43.9	14.9	15.4	6.7
				60	64.5	3.75	77.3	52.8	17.2	14.9	6.4
				70	75.1	3.80	88.0	61.7	19.7	14.4	6.2
				80	86.8	3.86	100.0	70.4	22.5	14.0	6.1
				90	99.7	3.94	113.1	78.9	25.3	13.6	5.9
90	9	5.5	12.6	50	48.7	4.77	65.0	44.6	10.2	15.4	6.7
				60	57.0	4.86	73.6	53.7	11.7	14.9	6.4
				70	66.4	4.95	83.3	62.6	13.4	14.4	6.2
				80	76.7	5.05	93.9	71.5	15.2	14.0	6.0
				90	88.0	5.16	105.6	80.2	17.0	13.6	5.9
	13.5	3.8	8.9	50	49.4	4.66	65.3	44.5	10.6	15.4	6.7
				60	58.0	4.72	74.1	53.6	12.3	14.9	6.4
				70	67.5	4.79	83.9	62.5	14.1	14.4	6.2
				80	78.2	4.87	94.8	71.3	16.1	14.0	6.0
				90	89.9	4.96	106.8	80.0	18.1	13.6	5.9
	18	2.1	4.7	50	49.7	4.60	65.4	44.5	10.8	15.4	6.7
				60	58.4	4.65	74.3	53.5	12.6	14.9	6.4
				70	68.1	4.71	84.2	62.4	14.5	14.4	6.2
				80	78.9	4.78	95.2	71.2	16.5	14.0	6.0
				90	90.8	4.86	107.4	79.9	18.7	13.6	5.9
110	9	3.4	7.8	50	42.2	5.89	62.4	45.3	7.2	15.3	6.6
				60	49.8	6.00	70.3	54.5	8.3	14.9	6.4
				70	58.2	6.11	79.1	63.5	9.5	14.4	6.2
				80	67.6	6.23	88.8	72.5	10.9	13.9	6.0
				90							
	13.5	5.7	13.2	50	43.0	5.75	62.7	45.2	7.5	15.4	6.6
				60	50.8	5.84	70.7	54.4	8.7	14.9	6.4
				70	59.5	5.92	79.7	63.4	10.0	14.4	6.2
				80	69.2	6.01	89.7	72.3	11.5	13.9	6.0
				90							
	18	2.6	5.9	50	43.4	5.68	62.8	45.2	7.6	15.4	6.6
				60	51.3	5.75	71.0	54.3	8.9	14.9	6.4
				70	60.2	5.83	80.0	63.3	10.3	14.4	6.2
				80	70.0	5.91	90.1	72.2	11.8	13.9	6.0
				90							

GW120 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	17.5 GPM							
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	17.5	5.5	2.4	60	55.2	3.0	45.0	36.4	5.4	2.1	4.9
				80	54.4	3.88	41.2	86.2	4.1	2.0	4.6
				100	53.1	5.02	36.0	106.1	3.1	1.9	4.3
				120	51.8	6.56	29.4	125.9	2.3	1.8	4.1
	26.25	11.5	5.0	60	55.9	2.98	45.7	66.4	5.5	2.1	4.9
				80	55.0	3.88	41.8	86.3	4.2	2.0	4.6
				100	53.6	5.02	36.5	106.1	3.1	1.9	4.3
				120	52.2	6.56	29.8	126.0	2.3	1.8	4.1
	35	19.2	8.3	60	56.2	2.98	46.0	66.4	5.5	2.1	4.9
				80	55.3	3.88	42.1	86.3	4.2	2.0	4.6
				100	53.9	5.02	36.7	106.2	3.1	1.9	4.3
				120	52.4	6.55	30.0	126.0	2.3	1.8	4.1
50	17.5	5.2	2.2	60	72.3	2.99	62.1	68.3	7.1	2.1	4.9
				80	70.8	3.86	57.6	88.1	5.4	2.0	4.6
				100	68.7	4.98	51.7	107.9	4.0	1.9	4.3
				120	66.5	6.52	44.3	127.6	3.0	1.8	4.1
	26.25	10.7	4.6	60	73.5	2.99	63.3	68.4	7.2	2.1	4.9
				80	71.8	3.86	58.7	88.2	5.5	2.0	4.6
				100	69.6	4.98	52.6	108.0	4.1	1.9	4.3
				120	67.2	6.52	45.0	127.7	3.0	1.8	4.1
	35	17.9	7.8	60	74.1	2.99	63.9	68.5	7.3	2.1	4.9
				80	72.3	3.86	59.2	88.3	5.5	2.0	4.6
				100	70.0	4.98	53.0	108.0	4.1	1.9	4.3
				120	67.6	6.52	45.3	127.7	3.0	1.8	4.1
70	17.5	4.9	2.1	60	93.8	2.99	83.6	70.7	9.2	2.1	4.9
				80	91.0	3.82	78.0	90.4	7.0	2.0	4.6
				100	87.6	4.92	70.8	110.0	5.2	1.9	4.3
				120	84.1	6.46	62.0	129.6	3.8	1.8	4.1
	26.25	10.0	4.3	60	95.8	2.99	85.6	70.9	9.4	2.1	4.9
				80	92.8	3.81	79.8	90.6	7.1	2.0	4.6
				100	89.1	4.92	72.3	110.2	5.3	1.9	4.3
				120	85.2	6.45	63.2	129.7	3.9	1.8	4.1
	35	16.8	7.3	60	96.8	2.99	86.7	71.1	9.5	2.1	4.9
				80	93.7	3.81	80.7	90.7	7.2	2.0	4.6
				100	89.8	4.92	73.1	110.3	5.4	1.9	4.3
				120	85.8	6.45	63.8	129.8	3.9	1.8	4.1

GW120 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	26.25 GPM							
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	17.5	5.5	2.4	60	55.2	2.9	45.3	63.2	5.6	7.4	17.1
				80	54.5	3.80	41.5	83.1	4.2	6.9	16.1
				100	53.2	4.92	36.4	103.0	3.2	6.5	15.1
				120	51.9	6.4	29.96	123.0	2.4	6.2	14.3
	26.25	11.5	5.0	60	55.9	2.92	46.0	63.2	5.6	7.4	17.1
				80	55.1	3.80	42.1	83.1	4.2	6.9	16.1
				100	53.7	4.92	36.9	103.1	3.2	6.5	15.1
				120	52.3	6.42	30.4	123.0	2.4	6.2	14.3
	35	19.2	8.3	60	56.3	2.92	46.3	63.2	5.7	7.4	17.1
				80	55.4	3.80	42.4	83.2	4.3	6.9	16.1
				100	54.0	4.92	37.2	103.1	3.2	6.5	15.1
				120	52.5	6.42	30.6	123.0	2.4	6.2	14.3
50	17.5	5.2	2.2	60	72.4	2.91	62.5	64.1	7.3	7.4	17.1
				80	71.0	3.76	58.2	84.1	5.5	6.9	16.0
				100	68.9	4.86	52.4	103.9	4.2	6.5	15.1
				120	66.7	6.35	45.0	123.8	3.1	6.2	14.3
	26.25	10.7	4.6	60	73.6	2.91	63.7	64.2	7.4	7.4	17.1
				80	72.0	3.76	59.2	84.1	5.6	6.9	16.0
				100	69.8	4.85	53.2	104.0	4.2	6.5	15.1
				120	67.4	6.35	45.8	123.9	3.1	6.2	14.3
	35	17.9	7.8	60	74.2	2.91	64.3	64.2	7.5	7.4	17.1
				80	72.6	3.76	59.7	84.1	5.7	6.9	16.0
				100	70.3	4.85	53.7	104.0	4.2	6.5	15.1
				120	67.8	6.35	46.1	123.9	3.1	6.2	14.3
70	17.5	4.9	2.1	60	94.1	2.89	84.3	65.4	9.6	7.4	17.1
				80	91.5	3.70	78.8	85.2	7.2	6.9	16.0
				100	88.1	4.77	71.8	105.0	5.4	6.5	15.1
				120	84.5	6.24	63.2	124.8	4.0	6.2	14.2
	26.25	10.0	4.3	60	96.2	2.89	86.3	65.5	9.8	7.4	17.1
				80	93.2	3.69	80.6	85.3	7.4	6.9	16.0
				100	89.6	4.76	73.3	105.1	5.5	6.5	15.1
				120	85.7	6.24	64.4	124.9	4.0	6.2	14.2
	35	16.8	7.3	60	97.2	2.88	87.4	65.6	9.9	7.4	17.1
				80	94.1	3.69	81.6	85.4	7.5	6.9	16.0
				100	90.4	4.75	74.1	105.2	5.6	6.5	15.0
				120	86.3	6.23	65.1	124.9	4.1	6.2	14.2

GW120 HEATING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	35 GPM							
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	17.5	5.5	2.4	60	55.2	2.9	45.3	63.2	5.6	7.4	17.1
				80	54.5	3.80	41.5	83.1	4.2	6.9	16.1
				100	53.2	4.92	36.4	103.0	3.2	6.5	15.1
				120	51.9	6.4	29.96	123.0	2.4	6.2	14.3
	26.25	11.5	5.0	60	55.9	2.92	46.0	63.2	5.6	7.4	17.1
				80	55.1	3.80	42.1	83.1	4.2	6.9	16.1
				100	53.7	4.92	36.9	103.1	3.2	6.5	15.1
				120	52.3	6.42	30.4	123.0	2.4	6.2	14.3
	35	19.2	8.3	60	56.3	2.92	46.3	63.2	5.7	7.4	17.1
				80	55.4	3.80	42.4	83.2	4.3	6.9	16.1
				100	54.0	4.92	37.2	103.1	3.2	6.5	15.1
				120	52.5	6.42	30.6	123.0	2.4	6.2	14.3
50	17.5	5.2	2.2	60	72.4	2.91	62.5	64.1	7.3	7.4	17.1
				80	71.0	3.76	58.2	84.1	5.5	6.9	16.0
				100	68.9	4.86	52.4	103.9	4.2	6.5	15.1
				120	66.7	6.35	45.0	123.8	3.1	6.2	14.3
	26.25	10.7	4.6	60	73.6	2.91	63.7	64.2	7.4	7.4	17.1
				80	72.0	3.76	59.2	84.1	5.6	6.9	16.0
				100	69.8	4.85	53.2	104.0	4.2	6.5	15.1
				120	67.4	6.35	45.8	123.9	3.1	6.2	14.3
	35	17.9	7.8	60	74.2	2.91	64.3	64.2	7.5	7.4	17.1
				80	72.6	3.76	59.7	84.1	5.7	6.9	16.0
				100	70.3	4.85	53.7	104.0	4.2	6.5	15.1
				120	67.8	6.35	46.1	123.9	3.1	6.2	14.3
70	17.5	4.9	2.1	60	94.1	2.89	84.3	65.4	9.6	7.4	17.1
				80	91.5	3.70	78.8	85.2	7.2	6.9	16.0
				100	88.1	4.77	71.8	105.0	5.4	6.5	15.1
				120	84.5	6.24	63.2	124.8	4.0	6.2	14.2
	26.25	10.0	4.3	60	96.2	2.89	86.3	65.5	9.8	7.4	17.1
				80	93.2	3.69	80.6	85.3	7.4	6.9	16.0
				100	89.6	4.76	73.3	105.1	5.5	6.5	15.1
				120	85.7	6.24	64.4	124.9	4.0	6.2	14.2
	35	16.8	7.3	60	97.2	2.88	87.4	65.6	9.9	7.4	17.1
				80	94.1	3.69	81.6	85.4	7.5	6.9	16.0
				100	90.4	4.75	74.1	105.2	5.6	6.5	15.0
				120	86.3	6.23	65.1	124.9	4.1	6.2	14.2

GW120 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	17.5 GPM							
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	17.5	5.6	2.4	60	106.6	6.2	85.4	36.4	5.0	2.1	4.8
				80	105.2	8.06	77.7	92.0	3.8	2.0	4.5
				100	103.1	10.43	67.5	111.8	2.9	1.9	4.3
				120	101.1	13.64	54.6	131.6	2.2	1.8	4.1
	26.25	11.5	5.0	60	109.0	6.22	87.8	72.5	5.1	2.1	4.8
				80	107.3	8.07	79.8	92.3	3.9	2.0	4.5
				100	104.9	10.44	69.2	112.0	2.9	1.9	4.3
				120	102.5	13.65	56.0	131.7	2.2	1.8	4.1
	35	19.3	8.3	60	110.3	6.23	89.0	72.6	5.2	2.1	4.8
				80	108.4	8.07	80.9	92.4	3.9	2.0	4.5
				100	105.8	10.44	70.2	112.1	3.0	1.9	4.3
				120	103.3	13.65	56.7	131.8	2.2	1.8	4.1
50	17.5	5.2	2.3	60	138.0	6.30	116.5	75.8	6.4	2.1	4.8
				80	135.4	8.11	107.7	95.5	4.9	2.0	4.5
				100	132.0	10.49	96.2	115.1	3.7	1.8	4.3
				120	128.6	13.74	81.8	134.7	2.7	1.7	4.0
	26.25	10.8	4.7	60	142.0	6.31	120.5	76.2	6.6	2.1	4.8
				80	138.9	8.12	111.2	95.9	5.0	2.0	4.5
				100	135.0	10.49	99.2	115.4	3.8	1.8	4.3
				120	131.0	13.74	84.1	135.0	2.8	1.7	4.0
	35	18.0	7.8	60	144.2	6.31	122.6	76.5	6.7	2.1	4.8
				80	140.8	8.12	113.1	96.1	5.1	2.0	4.5
				100	136.6	10.50	100.7	115.6	3.8	1.8	4.3
				120	132.3	13.75	85.4	135.1	2.8	1.7	4.0
70	17.5	4.9	2.1	60	176.3	6.37	154.5	80.1	8.1	2.1	4.8
				80	171.6	8.14	143.8	99.6	6.2	1.9	4.5
				100	166.1	10.52	130.2	119.0	4.6	1.8	4.2
				120							
	26.25	10.1	4.4	60	182.8	6.38	161.0	80.9	8.4	2.1	4.8
				80	177.3	8.14	149.5	100.3	6.4	1.9	4.5
				100	170.9	10.52	135.0	119.5	4.8	1.8	4.2
				120							
	35	16.9	7.3	60	186.4	6.38	164.6	81.3	8.6	2.1	4.8
				80	180.4	8.14	152.6	100.6	6.5	1.9	4.5
				100	173.5	10.52	137.6	119.8	4.8	1.8	4.2
				120							

GW120 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)		26.25 GPM						
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	17.5	5.6	2.4	60	106.7	6.0	86.4	66.1	5.2	7.4	17.1
				80	105.5	7.76	79.0	86.0	4.0	6.9	16.0
				100	103.4	10.04	69.2	105.9	3.0	6.5	15.0
				120	101.4	13.1	56.64	125.8	2.3	6.2	14.2
	26.25	11.5	5.0	60	109.2	5.96	88.8	66.2	5.4	7.4	17.1
				80	107.7	7.76	81.2	86.2	4.1	6.9	16.0
				100	105.2	10.04	71.0	106.0	3.1	6.5	15.0
				120	102.8	13.11	58.1	125.9	2.3	6.2	14.2
	35	19.3	8.3	60	110.4	5.96	90.1	66.3	5.4	7.4	17.0
				80	108.8	7.76	82.3	86.2	4.1	6.9	16.0
				100	106.2	10.04	72.0	106.1	3.1	6.5	15.0
				120	103.6	13.11	58.9	125.9	2.3	6.2	14.2
50	17.5	5.2	2.3	60	138.3	5.98	117.9	67.9	6.8	7.4	17.0
				80	136.0	7.72	109.6	87.8	5.2	6.9	15.9
				100	132.7	9.98	98.6	107.6	3.9	6.5	15.0
				120	129.2	13.06	84.7	127.4	2.9	6.1	14.2
	26.25	10.8	4.7	60	142.4	5.98	122.0	68.1	7.0	7.4	17.0
				80	139.6	7.72	113.3	88.0	5.3	6.9	15.9
				100	135.8	9.97	101.7	107.8	4.0	6.5	15.0
				120	131.7	13.05	87.2	127.5	3.0	6.1	14.2
	35	18.0	7.8	60	144.7	5.98	124.2	68.3	7.1	7.4	17.0
				80	141.6	7.72	115.3	88.1	5.4	6.9	15.9
				100	137.4	9.97	103.4	107.9	4.0	6.5	15.0
				120	133.0	13.05	88.5	127.6	3.0	6.1	14.2
70	17.5	4.9	2.1	60	177.2	5.98	156.8	70.1	8.7	7.3	16.9
				80	172.9	7.66	146.7	89.9	6.6	6.9	15.9
				100	167.4	9.88	133.7	109.6	5.0	6.5	15.0
				120	161.7	12.94	117.6	129.2	3.7	6.1	14.2
	26.25	10.1	4.4	60	184.0	5.98	163.6	70.5	9.0	7.3	16.9
				80	178.8	7.64	152.8	90.2	6.9	6.9	15.9
				100	172.5	9.86	138.9	109.9	5.1	6.5	14.9
				120	165.9	12.92	121.8	129.5	3.8	6.1	14.2
	35	16.9	7.3	60	187.7	5.97	167.3	70.7	9.2	7.3	16.9
				80	182.1	7.64	156.0	90.4	7.0	6.9	15.9
				100	175.3	9.85	141.7	110.0	5.2	6.5	14.9
				120	168.1	12.91	124.0	129.6	3.8	6.1	14.2

GW120 HEATING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	35 GPM							
				EWT	Heating Capacity, MBH	Power, KW	Heat Absorb, MBH	Lvg Water Temp	COP	Pressure Drop (ft of water)	Pressure Drop (psi)
30	17.5	5.6	2.4	60	106.7	6.0	86.4	66.1	5.2	7.4	17.1
				80	105.5	7.76	79.0	86.0	4.0	6.9	16.0
				100	103.4	10.04	69.2	105.9	3.0	6.5	15.0
				120	101.4	13.1	56.64	125.8	2.3	6.2	14.2
	26.25	11.5	5.0	60	109.2	5.96	88.8	66.2	5.4	7.4	17.1
				80	107.7	7.76	81.2	86.2	4.1	6.9	16.0
				100	105.2	10.04	71.0	106.0	3.1	6.5	15.0
				120	102.8	13.11	58.1	125.9	2.3	6.2	14.2
	35	19.3	8.3	60	110.4	5.96	90.1	66.3	5.4	7.4	17.0
				80	108.8	7.76	82.3	86.2	4.1	6.9	16.0
				100	106.2	10.04	72.0	106.1	3.1	6.5	15.0
				120	103.6	13.11	58.9	125.9	2.3	6.2	14.2
50	17.5	5.2	2.3	60	138.3	5.98	117.9	67.9	6.8	7.4	17.0
				80	136.0	7.72	109.6	87.8	5.2	6.9	15.9
				100	132.7	9.98	98.6	107.6	3.9	6.5	15.0
				120	129.2	13.06	84.7	127.4	2.9	6.1	14.2
	26.25	10.8	4.7	60	142.4	5.98	122.0	68.1	7.0	7.4	17.0
				80	139.6	7.72	113.3	88.0	5.3	6.9	15.9
				100	135.8	9.97	101.7	107.8	4.0	6.5	15.0
				120	131.7	13.05	87.2	127.5	3.0	6.1	14.2
	35	18.0	7.8	60	144.7	5.98	124.2	68.3	7.1	7.4	17.0
				80	141.6	7.72	115.3	88.1	5.4	6.9	15.9
				100	137.4	9.97	103.4	107.9	4.0	6.5	15.0
				120	133.0	13.05	88.5	127.6	3.0	6.1	14.2
70	17.5	4.9	2.1	60	177.2	5.98	156.8	70.1	8.7	7.3	16.9
				80	172.9	7.66	146.7	89.9	6.6	6.9	15.9
				100	167.4	9.88	133.7	109.6	5.0	6.5	15.0
				120	161.7	12.94	117.6	129.2	3.7	6.1	14.2
	26.25	10.1	4.4	60	184.0	5.98	163.6	70.5	9.0	7.3	16.9
				80	178.8	7.64	152.8	90.2	6.9	6.9	15.9
				100	172.5	9.86	138.9	109.9	5.1	6.5	14.9
				120	165.9	12.92	121.8	129.5	3.8	6.1	14.2
	35	16.9	7.3	60	187.7	5.97	167.3	70.7	9.2	7.3	16.9
				80	182.1	7.64	156.0	90.4	7.0	6.9	15.9
				100	175.3	9.85	141.7	110.0	5.2	6.5	14.9
				120	168.1	12.91	124.0	129.6	3.8	6.1	14.2

GW120 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	17.5 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	17.5	2.2	5.0	50	63.9	2.6	72.7	36.4	24.5	5.2	2.2
				60	74.2	2.62	83.2	51.5	28.3	5.0	2.2
				70	85.9	2.63	94.9	60.2	32.7	4.9	2.1
				80							
	26.25	4.0	9.1	50	64.1	2.55	72.8	42.7	25.1	5.2	2.2
				60	74.5	2.56	83.2	51.5	29.1	5.0	2.2
				70	86.3	2.56	95.0	60.1	33.6	4.9	2.1
				80							
	35	6.1	14.1	50	64.2	2.53	72.8	42.7	25.4	5.2	2.2
				60	74.6	2.53	83.3	51.5	29.5	5.0	2.2
				70	86.4	2.53	95.1	60.1	34.1	4.9	2.1
				80							
70	17.5	6.2	14.4	50	60.1	3.40	71.7	43.1	17.7	5.2	2.2
				60	70.0	3.39	81.5	52.0	20.6	5.0	2.2
				70	81.0	3.38	92.5	60.7	24.0	4.9	2.1
				80	93.3	3.36	104.8	69.3	27.8	4.7	2.0
	26.25	2.0	4.7	50	60.4	3.34	71.8	43.1	18.1	5.2	2.2
				60	70.3	3.33	81.7	52.0	21.1	5.0	2.2
				70	81.5	3.31	92.8	60.7	24.7	4.9	2.1
				80	94.0	3.28	105.2	69.3	28.7	4.7	2.0
	35	4.3	9.8	50	60.5	3.31	71.8	43.1	18.3	5.2	2.2
				60	70.5	3.29	81.8	51.9	21.4	5.0	2.2
				70	81.8	3.27	92.9	60.7	25.0	4.9	2.1
				80	94.3	3.24	105.3	69.2	29.1	4.7	2.0
90	17.5	6.4	14.8	50	54.9	4.38	69.8	43.7	12.5	5.2	2.2
				60	64.2	4.36	79.1	52.7	14.7	5.0	2.2
				70	74.6	4.33	89.4	61.5	17.2	4.9	2.1
				80	86.2	4.29	100.8	70.2	20.1	4.7	2.0
	26.25	4.5	10.5	50	55.2	4.31	69.9	43.7	12.8	5.2	2.2
				60	64.7	4.27	79.3	52.6	15.1	5.0	2.2
				70	75.2	4.24	89.7	61.4	17.8	4.9	2.1
				80	86.9	4.19	101.2	70.1	20.8	4.7	2.0
	35	2.4	5.6	50	55.4	4.27	70.0	43.7	13.0	5.2	2.2
				60	64.9	4.23	79.4	52.6	15.3	5.0	2.2
				70	75.5	4.19	89.8	61.4	18.0	4.9	2.1
				80	87.3	4.14	101.4	70.0	21.1	4.7	2.0
110	17.5	4.0	9.2	50	48.2	5.69	67.6	44.5	8.5	5.2	2.2
				60	56.9	5.66	76.3	53.5	10.1	5.0	2.2
				70	66.6	5.63	85.8	62.4	11.8	4.8	2.1
				80							
	26.25	6.7	15.5	50	48.7	5.60	67.7	44.4	8.7	5.2	2.2
				60	57.5	5.55	76.5	53.4	10.4	5.0	2.2
				70	67.4	5.50	86.1	62.3	12.2	4.8	2.1
				80							
	35	3.0	7.0	50	48.9	5.55	67.8	44.4	8.8	5.2	2.2
				60	57.8	5.50	76.6	53.4	10.5	5.0	2.2
				70	67.7	5.44	86.3	62.3	12.4	4.8	2.1
				80							

GW120 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	26.25 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	17.5	2.2	5.0	50	65.1	2.6	74.0	45.0	24.9	10.7	4.6
				60	75.8	2.62	84.8	54.2	28.9	10.4	4.5
				70	88.0	2.63	97.0	63.3	33.5	10.0	4.3
				80							
	26.25	4.0	9.1	50	65.3	2.56	74.0	45.0	25.6	10.7	4.6
				60	76.1	2.56	84.9	54.2	29.7	10.4	4.5
				70	88.4	2.56	97.1	63.3	34.5	10.0	4.3
				80							
	35	6.1	14.1	50	65.4	2.53	74.0	45.0	25.9	10.7	4.6
				60	76.3	2.53	84.9	54.2	30.1	10.4	4.5
				70	88.6	2.53	97.2	63.3	35.0	10.0	4.3
				80							
70	17.5	6.2	14.4	50	61.2	3.40	72.8	45.3	18.0	10.7	4.6
				60	71.4	3.39	83.0	54.6	21.1	10.4	4.5
				70	82.9	3.38	94.4	63.7	24.6	10.0	4.3
				80	95.7	3.35	107.2	72.7	28.5	9.7	4.2
	26.25	2.0	4.7	50	61.5	3.34	72.9	45.3	18.4	10.7	4.6
				60	71.8	3.32	83.1	54.5	21.6	10.4	4.5
				70	83.4	3.30	94.7	63.6	25.3	10.0	4.3
				80	96.4	3.27	107.6	72.7	29.5	9.7	4.2
	35	4.3	9.8	50	61.6	3.31	72.9	45.3	18.6	10.7	4.6
				60	72.0	3.29	83.2	54.5	21.9	10.4	4.5
				70	83.7	3.27	94.8	63.6	25.6	10.0	4.3
				80	96.8	3.23	107.8	72.6	29.9	9.7	4.2
90	17.5	6.4	14.8	50	55.8	4.38	70.7	45.7	12.7	10.7	4.6
				60	65.5	4.35	80.3	55.0	15.0	10.4	4.5
				70	76.2	4.32	91.0	64.2	17.6	10.0	4.3
				80							
	26.25	4.5	10.5	50	56.2	4.30	70.9	45.7	13.1	10.7	4.6
				60	66.0	4.27	80.5	55.0	15.5	10.4	4.5
				70	76.9	4.23	91.3	64.1	18.2	10.0	4.3
				80							
	35	2.4	5.6	50	56.4	4.27	71.0	45.7	13.2	10.7	4.6
				60	66.2	4.23	80.6	55.0	15.7	10.4	4.5
				70	77.2	4.18	91.5	64.1	18.5	10.0	4.3
				80							
110	17.5	4.0	9.2	50	49.0	5.69	68.4	46.3	8.6	10.7	4.6
				60	58.0	5.66	77.3	55.6	10.2	10.3	4.5
				70	68.0	5.62	87.2	64.8	12.1	10.0	4.3
				80							
	26.25	6.7	15.5	50	49.5	5.59	68.5	46.2	8.8	10.7	4.6
				60	58.6	5.55	77.5	55.5	10.6	10.3	4.5
				70	68.7	5.50	87.5	64.8	12.5	10.0	4.3
				80							
	35	3.0	7.0	50	49.7	5.54	68.6	46.2	9.0	10.7	4.6
				60	58.9	5.49	77.6	55.5	10.7	10.3	4.5
				70	69.1	5.44	87.6	64.7	12.7	10.0	4.3
				80							

GW120 COOLING PERFORMANCE - PART LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	35 GPM							
				EWT	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	17.5	2.2	5.0	50	65.7	2.6	74.6	46.2	25.2	17.9	7.8
				60	76.7	2.62	85.6	55.6	29.3	17.4	7.5
				70	89.1	2.63	98.1	64.9	33.9	16.8	7.3
				80							
	26.25	4.0	9.1	50	65.9	2.56	74.7	46.2	25.8	17.9	7.8
				60	77.0	2.56	85.7	55.6	30.0	17.4	7.5
				70	89.5	2.56	98.2	64.9	34.9	16.8	7.3
				80							
	35	6.1	14.1	50	66.0	2.53	74.7	46.2	26.1	17.9	7.8
				60	77.1	2.53	85.8	55.6	30.5	17.4	7.5
				70	89.7	2.53	98.3	64.9	35.4	16.8	7.3
				80							
70	17.5	6.2	14.4	50	61.7	3.40	73.3	46.5	18.2	17.9	7.8
				60	72.1	3.39	83.7	55.9	21.3	17.4	7.5
				70	83.9	3.37	95.4	65.2	24.9	16.8	7.3
				80							
	26.25	2.0	4.7	50	62.0	3.34	73.4	46.5	18.6	17.9	7.8
				60	72.6	3.32	83.9	55.9	21.8	17.4	7.5
				70	84.4	3.30	95.7	65.2	25.6	16.8	7.3
				80							
	35	4.3	9.8	50	62.2	3.31	73.5	46.4	18.8	17.9	7.8
				60	72.8	3.29	84.0	55.8	22.1	17.4	7.5
				70	84.7	3.26	95.8	65.2	25.9	16.8	7.3
				80							
90	17.5	6.4	14.8	50	56.3	4.38	71.2	46.8	12.9	17.9	7.8
				60	66.1	4.35	80.9	56.2	15.2	17.3	7.5
				70	77.1	4.32	91.8	65.6	17.8	16.8	7.3
				80							
	26.25	4.5	10.5	50	56.7	4.30	71.4	46.8	13.2	17.9	7.8
				60	66.6	4.27	81.2	56.2	15.6	17.3	7.5
				70	77.7	4.23	92.1	65.6	18.4	16.8	7.3
				80							
	35	2.4	5.6	50	56.9	4.26	71.5	46.7	13.3	17.9	7.8
				60	66.9	4.23	81.3	56.2	15.8	17.3	7.5
				70	78.1	4.18	92.3	65.5	18.7	16.8	7.3
				80							
110	17.5	4.0	9.2	50	49.4	5.69	68.8	47.2	8.7	17.9	7.8
				60	58.5	5.66	77.8	56.7	10.3	17.3	7.5
				70	68.7	5.62	87.8	66.1	12.2	16.8	7.3
				80							
	26.25	6.7	15.5	50	49.9	5.59	68.9	47.2	8.9	17.9	7.8
				60	59.1	5.55	78.0	56.6	10.7	17.3	7.5
				70	69.4	5.49	88.2	66.0	12.6	16.8	7.3
				80							
	35	3.0	7.0	50	50.1	5.54	69.0	47.1	9.0	17.9	7.8
				60	59.4	5.49	78.2	56.6	10.8	17.3	7.5
				70	69.8	5.43	88.3	66.0	12.9	16.8	7.3
				80							

GW120 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	17.5 GPM							
				EWT	Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	17.5	2.1	5.0	50	119.9	5.5	138.7	36.4	21.8	5.2	2.3
				60	138.4	5.56	157.4	44.2	24.9	5.1	2.2
				70	158.8	5.61	178.0	51.8	28.3	4.9	2.1
				80	181.3	5.66	200.7	59.3	32.0	4.8	2.1
	26.25	3.9	9.0	50	120.7	5.30	138.8	36.2	22.8	5.2	2.3
				60	139.4	5.34	157.6	44.1	26.1	5.1	2.2
				70	160.1	5.37	178.4	51.7	29.8	4.9	2.1
				80							
	35	6.0	14.0	50	121.1	5.20	138.8	36.2	23.3	5.2	2.3
				60	139.9	5.23	157.7	44.0	26.8	5.1	2.2
				70	160.7	5.25	178.7	51.6	30.6	4.9	2.1
				80							
70	17.5	6.2	14.3	50	112.4	7.15	136.9	37.1	15.7	5.2	2.3
				60	130.1	7.18	154.6	45.1	18.1	5.1	2.2
				70	149.5	7.20	174.1	52.9	20.8	4.9	2.1
				80	170.9	7.21	195.5	60.5	23.7	4.8	2.1
	26.25	2.0	4.6	50	113.6	6.92	137.2	37.0	16.4	5.2	2.3
				60	131.5	6.92	155.1	45.0	19.0	5.1	2.2
				70	151.3	6.91	174.9	52.7	21.9	4.9	2.1
				80	173.1	6.89	196.6	60.2	25.1	4.8	2.1
	35	4.2	9.7	50	114.1	6.81	137.3	37.0	16.8	5.2	2.3
				60	132.2	6.79	155.3	44.9	19.5	5.1	2.2
				70	152.1	6.77	175.2	52.6	22.5	4.9	2.1
				80	174.1	6.74	197.1	60.1	25.8	4.8	2.1
90	17.5	6.4	14.7	50	102.3	9.21	133.7	38.3	11.1	5.2	2.3
				60	119.1	9.23	150.5	46.4	12.9	5.1	2.2
				70	137.4	9.23	168.9	54.3	14.9	4.9	2.1
				80	157.5	9.24	189.0	62.0	17.1	4.8	2.1
	26.25	4.5	10.4	50	103.8	8.91	134.2	38.1	11.6	5.2	2.3
				60	120.8	8.89	151.2	46.2	13.6	5.1	2.2
				70	139.6	8.86	169.8	54.0	15.8	4.9	2.1
				80	160.1	8.82	190.2	61.7	18.2	4.8	2.1
	35	2.4	5.6	50	104.5	8.77	134.4	38.1	11.9	5.2	2.3
				60	121.7	8.73	151.5	46.1	13.9	5.1	2.2
				70	140.6	8.68	170.2	53.9	16.2	4.9	2.1
				80	161.4	8.62	190.8	61.6	18.7	4.8	2.1
110	17.5	3.9	9.1	50	89.4	11.99	130.3	39.8	7.5	5.2	2.3
				60	105.1	12.01	146.1	48.0	8.8	5.1	2.2
				70	122.2	12.02	163.2	56.0	10.2	4.9	2.1
				80	140.9	12.03	181.9	63.9	11.7	4.8	2.1
	26.25	6.7	15.4	50	91.1	11.59	130.7	39.6	7.9	5.2	2.3
				60	107.2	11.56	146.7	47.7	9.3	5.1	2.2
				70	124.8	11.53	164.1	55.7	10.8	4.9	2.1
				80	144.0	11.48	183.2	63.5	12.5	4.8	2.1
	35	3.0	6.9	50	92.0	11.40	130.9	39.5	8.1	5.2	2.3
				60	108.3	11.35	147.0	47.6	9.5	5.1	2.2
				70	126.1	11.28	164.6	55.6	11.2	4.9	2.1
				80	145.6	11.21	183.8	63.4	13.0	4.8	2.1

GW120 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	26.25 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	17.5	2.1	5.0	50	124.1	5.5	142.9	40.5	22.5	10.8	4.7
				60	143.8	5.58	162.8	49.0	25.8	10.5	4.5
				70	165.7	5.63	184.9	57.4	29.4	10.1	4.4
				80							
	26.25	3.9	9.0	50	125.0	5.31	143.1	40.5	23.5	10.8	4.7
				60	144.9	5.35	163.1	49.0	27.1	10.5	4.5
				70	167.2	5.38	185.5	57.3	31.1	10.1	4.4
				80							
	35	6.0	14.0	50	125.4	5.21	143.2	40.4	24.1	10.8	4.7
				60	145.4	5.23	163.3	48.9	27.8	10.5	4.5
				70	167.9	5.25	185.8	57.2	32.0	10.1	4.4
				80							
70	17.5	6.2	14.3	50	116.2	7.16	140.6	41.1	16.2	10.8	4.7
				60	134.9	7.18	159.4	49.7	18.8	10.4	4.5
				70	155.7	7.20	180.2	58.1	21.6	10.1	4.4
				80	178.6	7.21	203.2	66.4	24.8	9.8	4.3
	26.25	2.0	4.6	50	117.4	6.92	141.0	41.1	17.0	10.8	4.7
				60	136.5	6.92	160.1	49.6	19.7	10.5	4.5
				70	157.6	6.90	181.2	58.0	22.8	10.1	4.4
				80	181.0	6.88	204.5	66.2	26.3	9.8	4.3
	35	4.2	9.7	50	118.0	6.80	141.2	41.0	17.3	10.8	4.7
				60	137.2	6.79	160.4	49.5	20.2	10.5	4.5
				70	158.5	6.76	181.6	57.9	23.5	10.1	4.4
				80	182.2	6.72	205.2	66.1	27.1	9.8	4.3
90	17.5	6.4	14.7	50	105.6	9.21	137.0	42.0	11.5	10.8	4.7
				60	123.2	9.23	154.7	50.6	13.4	10.4	4.5
				70	142.7	9.24	174.2	59.1	15.4	10.1	4.4
				80							
	26.25	4.5	10.4	50	107.1	8.91	137.5	41.8	12.0	10.8	4.7
				60	125.1	8.89	155.5	50.5	14.1	10.4	4.5
				70	145.1	8.85	175.3	58.9	16.4	10.1	4.4
				80							
	35	2.4	5.6	50	107.9	8.76	137.8	41.8	12.3	10.8	4.7
				60	126.1	8.72	155.8	50.4	14.5	10.4	4.5
				70	146.2	8.66	175.8	58.9	16.9	10.1	4.4
				80	168.5	8.60	197.8	67.2	19.6	9.8	4.2
110	17.5	3.9	9.1	50	92.0	11.99	132.9	43.0	7.7	10.8	4.7
				60	108.5	12.01	149.5	51.7	9.0	10.4	4.5
				70	126.6	12.03	167.6	60.4	10.5	10.1	4.4
				80							
	26.25	6.7	15.4	50	93.9	11.59	133.5	42.8	8.1	10.8	4.7
				60	110.8	11.56	150.2	51.6	9.6	10.4	4.5
				70	129.4	11.51	168.7	60.1	11.2	10.1	4.4
				80							
	35	3.0	6.9	50	94.9	11.39	133.7	42.8	8.3	10.8	4.7
				60	111.9	11.34	150.6	51.5	9.9	10.4	4.5
				70	130.8	11.27	169.2	60.0	11.6	10.1	4.4
				80							

GW120 COOLING PERFORMANCE - FULL LOAD

SOURCE				LOAD							
EWT	GPM	Pressure Drop (ft of water)	Pressure Drop (psi)	EWT	35 GPM						
					Cooling Capacity, MBH	Power, KW	Loop Rej/ Add, MBH	Lvg Water Temp	EER	Pressure Drop (ft of water)	Pressure Drop (psi)
50	17.5	2.1	5.0	50	126.4	5.5	145.2	42.8	22.9	18.1	7.8
				60	146.7	5.58	165.7	51.6	26.3	17.5	7.6
				70	169.5	5.64	188.7	60.3	30.1	16.9	7.3
				80							
	26.25	3.9	9.0	50	127.3	5.32	145.4	42.7	23.9	18.1	7.8
				60	147.9	5.35	166.2	51.5	27.6	17.5	7.6
				70	171.0	5.38	189.4	60.2	31.8	16.9	7.3
				80							
	35	6.0	14.0	50	127.7	5.21	145.5	42.7	24.5	18.1	7.8
				60	148.5	5.24	166.3	51.5	28.3	17.5	7.6
				70	171.8	5.26	189.7	60.2	32.7	16.9	7.3
				80							
70	17.5	6.2	14.3	50	118.2	7.16	142.7	43.2	16.5	18.0	7.8
				60	137.5	7.19	162.0	52.1	19.1	17.5	7.6
				70	159.0	7.20	183.6	60.9	22.1	16.9	7.3
				80							
	26.25	2.0	4.6	50	119.5	6.92	143.1	43.2	17.3	18.0	7.8
				60	139.1	6.92	162.7	52.0	20.1	17.5	7.6
				70	161.0	6.90	184.6	60.8	23.3	16.9	7.3
				80							
	35	4.2	9.7	50	120.1	6.80	143.3	43.1	17.7	18.0	7.8
				60	139.9	6.78	163.1	52.0	20.6	17.5	7.6
				70	162.0	6.76	185.1	60.7	24.0	16.9	7.3
				80							
90	17.5	6.4	14.7	50	107.3	9.22	138.7	43.9	11.6	18.0	7.8
				60	125.4	9.23	156.9	52.8	13.6	17.4	7.6
				70	145.5	9.24	177.0	61.7	15.8	16.9	7.3
				80							
	26.25	4.5	10.4	50	108.9	8.91	139.3	43.8	12.2	18.0	7.8
				60	127.5	8.88	157.8	52.7	14.3	17.4	7.6
				70	148.0	8.85	178.2	61.5	16.7	16.9	7.3
				80							
	35	2.4	5.6	50	109.7	8.76	139.6	43.7	12.5	18.0	7.8
				60	128.4	8.71	158.2	52.7	14.7	17.4	7.6
				70	149.3	8.66	178.8	61.5	17.2	16.9	7.3
				80							
110	17.5	3.9	9.1	50	93.4	11.99	134.4	44.7	7.8	18.0	7.8
				60	110.3	12.01	151.3	53.7	9.2	17.4	7.5
				70	128.9	12.03	169.9	62.6	10.7	16.9	7.3
				80							
	26.25	6.7	15.4	50	95.4	11.58	134.9	44.5	8.2	18.0	7.8
				60	112.7	11.55	152.1	53.6	9.8	17.4	7.5
				70	131.8	11.51	171.1	62.5	11.5	16.9	7.3
				80							
	35	3.0	6.9	50	96.4	11.39	135.2	44.5	8.5	18.0	7.8
				60	113.9	11.33	152.5	53.5	10.1	17.4	7.5
				70	133.3	11.26	171.7	62.4	11.8	16.9	7.3
				80							

Notes

- Antifreeze required on Load side for this operation
- Interpolation is permissible. Not extrapolation
- Operation not recommended

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