

# GeoComfort<sup>®</sup>

## Geothermal Systems

### GSE, GSC/GTC Series Split Unit Features:

- Appliance White Powder Coated Steel Construction
- Cabinet Bolted Together
- All Panels Removable for Easy Service
- Bi-directional Expansion Valve
- Optional Electric Backup Heater
- Corrosion-Proof, Stainless Steel, Drain Pan
- ETL Certified to UL & CSA Standards
- Rated To ARI-ISO Standards
- Copper Coaxial Water Heat Exchanger
- High Efficiency Scroll Compressor
- Flow Switch Protected
- Fault Retry To Eliminate Nuisance Service Calls
- 10 Year Warranty

### One & Two Stage Upflow, Downflow & Horizontal Split System Units 1.5 Thru 6 Tons

#### G Series "C" Compressor Unit



#### GSE G Series "E" Fan-Coil Unit



## Specification Manual

# GSC/GTC Serenity Series Split Systems

## 410A Ozone-Safe

The G Series Split System Product Line is highly efficient, reliable and quiet operating, year-round in your home or business. The product line is available in eight single speed sizes, and four dual capacity (step) sizes. The line will provide exceptional operating efficiency throughout wide range of water temperatures between 25°F to 110°F.

Manufactured in the heart of America. Pride in workmanship has been deeply embedded in this culture. The marketing and tech support team place a high value on integrity and customer satisfaction. “World Class Service – Hometown Values” is far more than a slogan

G Series Split Systems have an appliance grade powder coated cabinet designed for long life and extraordinary beauty. It is bolted together, rather than using screws. Insulated with 3/8" insulation (foil faced). Rubber mounted Scroll compressors, rubber mounted blowers, are all designed to reduce noise. Coaxial Heat Exchangers are insulated to reduce corrosion and condensation problems in low temperatures. Coated air coils add durable and longer life. Oversized air to refrigerant heat exchanger providing high efficiencies at low face velocity. Bi-directional Expansion Valve that delivers optimum refrigerant flow over a wide range of conditions and provides bi-directional operation without troublesome check valves.

ECM2 Blower Motors Technology.

Ultratech Scroll Compressor Technology



**G Series Product Line is the best choice for your customer**

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# Ground Loop Heat Pump Application.



## Forced Air Models (ECM Fan Motor) 1-Stage Single Compressor

Model No.	GPM	Heating@32°F EWT		Cooling@77°F EWT	
		BTU/Hr	COP	BTU/Hr	EER
GS018C/E	5.0	13,300	3.5	16,700	18.0
GS024C/E	6.0	20,000	3.5	25,000	17.1
GS030C/E	7.0	25,800	3.5	32,300	17.6
GS036C/E	9.0	30,000	3.4	37,600	17.1
GS042C/E	11.0	35,000	3.4	43,800	17.1
GS048C/E	13.0	42,200	3.3	53,200	16.9
GS060C/E	15.0	47,600	3.3	59,500	15.4
GS072C/E	18.0	57,900	3.2	72,000	15.2

## Forced Air Models (ECM Fan Motor) Dual Capacity/Single Compressor

Model No.	GPM	Heating 32°F EWT		Cooling 77°F EWT		Part Load Heating 41°F EWT		Part Load Cooling 68°F EWT	
		Btu/hr	COP	Btu/hr	EER	Btu/hr	COP	Btu/hr	EER
GTC024	7.0	-	-	-	-	-	-	-	-
GSE024	4.0	-	-	-	-	-	-	-	-
GTC036	9.0	29,800	3.4	37,400	17.1	-	-	-	-
GSE036	5.0	-	-	-	-	19,800	4.3	24,900	22.8
GTC048	12.0	43,300	3.3	54,300	16.7	-	-	-	-
GSE048	7.0	-	-	-	-	28,700	4.1	36,000	22.6
GTC060	15.0	49,500	3.3	62,100	16.5	-	-	-	-
GSE060	10.0	-	-	-	-	34,600	4.1	43,400	22.4

Rated in accordance with ISO Standard 13256-1 which includes Pump Penalties.

Heating capacities based on 68°F DB, 59°F WB entering air temperature.

Cooling capacities based on 80.6°F DB, 66.2°F WB entering air temperature.

## Ground Water Heat Pump Application.

### Forced Air Models (ECM Fan Motor) 1-Stage Single Compressor

Model No.	GPM	Heating@50°F EWT		Cooling@59°F EWT	
		BTU/Hr	COP	BTU/Hr	EER
GS018C/E	5.0	15,300	4.0	17,400	20.6
GS024C/E	6.0	22,900	4.0	26,300	19.7
GS030C/E	7.0	29,600	4.0	34,000	20.2
GS036C/E	9.0	34,400	3.9	39,400	19.7
GS042C/E	11.0	40,200	3.9	46,000	19.7
GS048C/E	13.0	48,500	3.8	55,900	19.4
GS060C/E	15.0	54,800	3.8	62,500	17.7
GS072C/E	18.0	66,500	3.7	75,500	17.5

### Forced Air Models (ECM Fan Motor) Dual Capacity/Single Compressor

Model No.	GPM	Heating 50°F EWT		Cooling 59°F EWT		Part Load Heating 50°F EWT		Part Load Cooling 59°F EWT	
		Btu/hr	COP	Btu/hr	EER	Btu/hr	COP	Btu/hr	EER
GTC024	7.0	-	-	-	-	-	-	-	-
GSE024	4.0	-	-	-	-	-	-	-	-
GTC036	9.0	34,200	3.9	39,200	19.7	-	-	-	-
GSE036	5.0	-	-	-	-	22,800	4.9	36,200	26.2
GTC048	12.0	49,700	3.8	57,000	19.2	-	-	-	-
GSE048	7.0	-	-	-	-	33,000	4.7	37,700	26.0
GTC060	15.0	57,000	3.8	65,100	19.0	-	-	-	-
GSE048	10.0	-	-	-	-	39,800	4.7	45,500	25.8

Rated in accordance with ISO Standard 13256-1 which includes Pump Penalties.

Heating capacities based on 68°F DB, 59°F WB entering air temperature.

Cooling capacities based on 80.6°F DB, 66.2°F WB entering air temperature.

# Model Nomenclature

## GSC & GTC Series – 410A Refrigerant Condensing Unit



**G T C 048 A 1 1 C A \*** Manufacturer Revision

- Brand** ————— G — GeoComfort
- Stage / Type** ————— T — Single Stage  
T — Two Stage
- Unit** ————— C — Compressor Section
- Unit Capacity** ————— 048 — Nominal MBTUH
- Series** ————— A 1 1 —
- Voltage** ————— A — 0 = 208/230 Volts, 60Hz, 1 Ph - Commercial  
1 — 208/230 Volts, 60Hz, 1Ph - Residential  
2 — 208/230 Volts, 60Hz, 3Ph - Commercial  
3 — 460 Volts, 60Hz, 3Ph - Commercial
- Cabinet / Chassis** (Nominal Capacity)  
A = 18”H x 22”W x 22 1/2” D (18-24K)  
B = 20”H x 26”W x 30 1/2” D (30K-36K)  
C = 22”H x 27”W x 30 1/2” D (40K-48K)  
D = 22”H x 28”W x 30 1/2” D (60K)
- Coax Options**  
C = Copper - Standard Configuration  
N = Cupronickel
- Hot Water Configuration**  
0 = No Hot Water Option  
1 = Desuperheater with FACTORY INSTALLED PUMP

## GSE Series – 410A Refrigerant Evaporator Unit / Air Handler Units



**G S E 048 A 1 L T 1 A \*** Manufacturer Revision

- Brand** ————— G — GeoComfort
- Stage / Type** ————— S — Split System
- Unit** ————— E — Evaporator Section
- Unit Capacity** ————— 048 — Nominal MBTUH
- Series** ————— A 1 L T 1 —
- Voltage** ————— A — 0 = 208/230 Volts, 60Hz, 1 Ph - Commercial  
1 — 208/230 Volts, 60Hz, 1Ph - Residential  
2 — 208/230 Volts, 60Hz, 3Ph - Commercial  
3 — 460 Volts, 60Hz, 3Ph - Commercial
- Cabinet / Chassis** (Nominal Capacity)  
A = 32”H x 22”W x 25 1/2” D (18-24K)  
B = 34”H x 26”W x 30 1/2” D (30-36K)  
C = 38”H x 26”W x 30 1/2” D (42-48K)  
D = 38”H x 27”W x 30 1/2” D (60-72K)
- Blower Options**  
0 = PSC  
1 = ECM
- Discharge Air Configuration**  
S = Side Discharge Vertical  
T = Top Discharge Vertical
- Return Options**  
L = Left Return  
R = Right Return

## Legend (Abbreviations & Definition)

<b>CFM</b> = Airflow, Cubic Feet/Minute	<b>HR</b> = Total Heat Of Rejection, Btu/hr
<b>COP</b> = Coefficient of Performance = BTU Output / BTU Input	<b>KW</b> = Total Power Unit Input, Kilowatts
<b>DH</b> = Desuperheater Capacity, Btu/hr	<b>LAT</b> = Leaving Air Temperature, Fahrenheit
<b>EAT</b> = Entering Air Temperature, Fahrenheit (Dry Bulb/Wet Bulb)	<b>LC</b> = Latent Cooling Capacity, Btu/hr
<b>EER</b> = Energy Efficiency Ratio = BTU output/Watts input	<b>LWT</b> = Leaving Water Temperature, Fahrenheit
<b>EWT</b> = Entering Water Temperature, Fahrenheit	<b>SC</b> = Sensible Cooling Capacity, Btu/hr
<b>GPM</b> = Water Flow, Gallons Per Minute	<b>TC</b> = Total Cooling Capacity, Btu/hr
<b>HC</b> = Air Heating Capacity, Btu/hr	<b>TH</b> = Total Heating Capacity, Btu/hr
<b>HE</b> = Total Heat Of Extraction, Btu/hr	<b>WPD</b> = Water Pressure Drop, PSI & Feet of Water

**Notes:**

1. Capacity data on page 13 through 28 includes water pumping watts and are base on 15% (by volume) propylene glycol antifreeze solution.
2. Desuperheater Capacity is based on 0.4 GPM Flow per nominal ton at 90°F entering hot water temperature.
3. The manufacturer reserves the right to make changes in design and construction at any time without notice.
4. Extrapolation data down to 25°F for heating and interpolation between CFM, EWT & GPM data is permissible.

### Heating & Cooling Calculations

Heating	Cooling
$LAT = EAT + \frac{HC}{CFM \times 1.08}$	$LAT (DB) = EAT (DB) - \frac{SC}{CFM \times 1.08}$
$LWT = EWT - \frac{HE}{CFM \times 500}$	$LWT = EWT + \frac{HR}{GPM \times 500}$
$TH = HC + HW$	$LC = TC - SC$

## Physical Data

### Model GS 1-Stage Single Compressor with GSE Fan-Coil

Model No.	018	024	030	036	042	048	060	072	
<b>Fan Wheel</b>	<b>ECM</b>	9 x 7	9 x 7	9 x 7	9 x 7	11x10	11x10	11x10	11x10
	<b>PSC</b>	9 x 7	9 x 7	9 x 7	9 x 7	10x10	10x10	11x10	11x10
<b>Fan Motor HP</b>	<b>ECM</b>	1/2	1/2	1/2	1/2	1.0	1.0	1.0	1.0
	<b>PSC</b>	1/4	1/4	1/2	1/2	1/2	1/2	1.0	1.0
<b>Refrigerant Charge R-410A (oz.)</b>	60.0	60.0	74.0	75.0	82.0	84.0	110.0	112.0	
<b>Air Coil</b>									
<b>Face Area (Sq.Ft.)</b>	4.2	4.2	5.6	5.6	6.3	6.3	6.3	6.3	
<b>Dimensions (in.)</b>	20x30	20x30	25x32	25x32	25x36	25x36	25x36	25x36	
<b>Number Of Rows</b>	3	3	3	3	3	3	4	4	
<b>Filter 1" Thick</b>	30x24		32x28		36x28		36x28		
<b>Unit Weight (nominal)</b>	230	240	280	310	320	350	400	450	

NOTE: All dimensions are in inches; weight is in pounds

### Model GT Dual Capacity Single Compressor with GSE Fan-Coil

Model No.	024	036	048	060
<b>Fan Wheel</b>	9 x 7	9 x 7	11x10	11x10
<b>Fan Motor (HP)</b>	<b>ECM</b>	1/2	1/2	1.0
	<b>PSC</b>	-	-	-
<b>Refrigerant Charge</b>	60.0	78.0	85.0	110.0
<b>Air Coil</b>				
<b>Face Area (Sq.Ft.)</b>	4.2	5.6	6.3	6.3
<b>Dimensions (in.)</b>	20x30	25x32	25x36	25x36
<b>Number Of Rows</b>	3	3	3	4
<b>Filter 1" Thick</b>	30x24	32x28	36x28	36x28
<b>Unit Weight (nominal)</b>	230	310	350	400

## Electrical Data Single Compressor 1-Stage

Model No.	60 HZ Power		Compressor		Fan Motor		Total Unit	Minimum Circuit	Maximum Fuse
	Volts	Phase	RLA	LRA	FLA	LRA	FLA	Ampacity	Size
<b>GSC018</b>	208-230	1	7.2	48.0	1.7	2.5	8.9	15.0	15.0
<b>GSC024</b>	208-230	1	10.6	64.0	1.7	4.5	12.3	20.0	25.0
	208-230	3	7.4	63.0	1.7	4.5	9.1	15.0	20.0
	460	3	3.6	28.0	.75	2.3	4.4	5.5	8.8
<b>GSC030</b>	208-230	1	13.5	79.0	3.1	8.0	16.6	25.0	35.0
	208-230	3	9.4	77.0	3.1	8.0	12.5	15.0	25.0
	460	3	4.6	38.0	1.4	4.2	6.0	10.0	10.0
<b>GSC036</b>	208-230	1	16.3	112.0	3.1	8.0	19.4	25.0	40.0
	208-230	3	10.9	88.0	3.1	8.0	14.0	20.0	30.0
	460	3	5.4	44.0	1.4	4.2	6.8	10.0	10.0
	575	3	4.1	34.0	0.7	3.9	4.8	10.0	10.0
<b>GSC042</b>	208-230	1	18.6	117.0	1.7	4.5	20.3	25.0	40.0
	208-230	3	12.0	91.0	1.7	4.5	13.7	20.0	25.0
	460	3	5.6	41.0	1.4	4.2	7.0	10.0	10.0
	575	3	4.6	33.0	0.8	3.9	5.4	10.0	10.0
<b>GSC048</b>	208-230	1	21.8	134.0	1.7	4.5	26.1	30.0	50.0
	208-230	3	14.4	123.0	1.7	4.5	18.7	20.0	30.0
	460	3	6.2	46.0	1.4	4.2	7.6	10.0	15.0
	575	3	5.0	37.0	0.9	3.9	5.9	10.0	10.0
<b>GSC060</b>	208-230	1	24.7	158.0	5.0	38.3	29.7	40.0	60.0
	208-230	3	16.3	155.0	5.0	38.3	21.3	30.0	40.0
	460	3	8.0	75.0	1.5	4.8	9.5	15.0	15.0
	575	3	6.5	54.0	1.4	3.9	7.9	10.0	15.0
<b>GSC072</b>	208-230	1	25.7	148.0	5.4	40.0	31.1	40.0	60.0
	208-230	3	18.2	149.0	5.4	40.0	23.6	30.0	45.0
	460	3	9.1	75.0	1.6	4.8	10.7	15.0	20.0
	575	3	7.3	54.0	1.5	4.0	8.8	15.0	15.0

## Electrical Data Single Compressor Dual Capacity

<b>GTC024</b>	<b>208-230</b>	<b>1</b>	<b>6.2</b>	<b>52.0</b>	<b>1.1</b>	<b>2.5</b>	<b>7.3</b>	<b>10.0</b>	<b>15.0</b>
<b>GTC036</b>	<b>208-230</b>	<b>1</b>	<b>13.3</b>	<b>82.0</b>	<b>1.7</b>	<b>4.5</b>	<b>15.0</b>	<b>20.0</b>	<b>30.0</b>
	<b>208-230</b>	<b>3</b>	<b>8.1</b>	<b>58.0</b>	<b>1.7</b>	<b>4.5</b>	<b>9.8</b>	<b>15.0</b>	<b>20.0</b>
<b>GTC048</b>	<b>208-230</b>	<b>1</b>	<b>17.3</b>	<b>96.0</b>	<b>3.1</b>	<b>8.0</b>	<b>20.4</b>	<b>30.0</b>	<b>45.0</b>
	<b>208-230</b>	<b>3</b>	<b>11.5</b>	<b>88.0</b>	<b>3.4</b>	<b>8.0</b>	<b>14.6</b>	<b>20.0</b>	<b>30.0</b>
<b>GTC060</b>	<b>208-230</b>	<b>1</b>	<b>22.2</b>	<b>118.0</b>	<b>4.3</b>	<b>10.4</b>	<b>26.5</b>	<b>35.0</b>	<b>55.0</b>
	<b>208-230</b>	<b>3</b>	<b>14.9</b>	<b>135.0</b>	<b>4.3</b>	<b>10.4</b>	<b>19.2</b>	<b>25.0</b>	<b>40.0</b>

**Note: ECM Motors are not available in 460 or 575 Volts.**

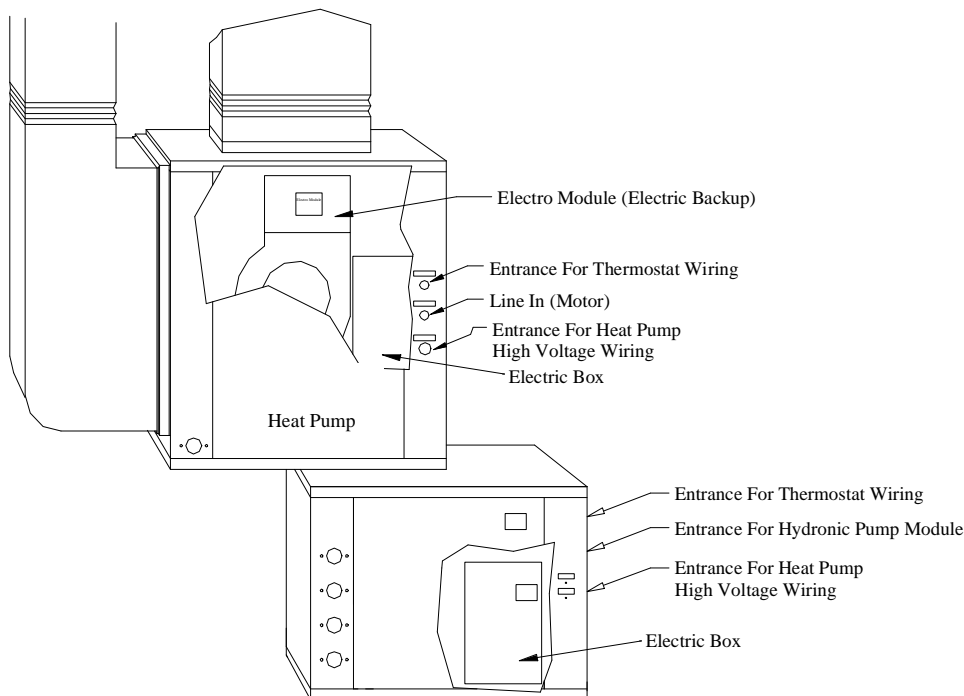


## Electric Heaters Electrical Data.

Model No.	KW	Volts	Amps	Min Circuit	Max Circuit	Fuse Size Amps	Min CFM
AHTR101A	10	240	40.0	50.0	90.0	None	600
AHTR151A	15	240	60.0	75.0	135.0	2=30 & 2=50	900
AHTR201A	20	240	80.0	100.0	180.0	4=50	1200
<b>3 Phase Heaters</b>							
AHTR103A	10	208	29.2	36.5	65.0	3=30	600
AHTR153A	15	208	40.0	50.0	90.0	3=50	900

Note: 15 & 20 KW Heaters are not recommended in Models GSE018, GSE024 & GSE030.

## Wiring Installation Guide



### Installing Electro Module High Voltage Wires:

**A:** The Electro Module Series Heaters can be built into the unit at the factory. It is mounted inside the blower compartment and inserted between the blower and blower mounts.

**B:** Wires should enter the unit at the entrance of Electro Module wiring entrance. Wire should be run through a conduit up to the cabinet and wired to the Electro Module terminal strip (See wiring diagram located inside electric box cover).

**C:** A separate circuit/breaker must be installed for the Electro Module. It is **not recommended** to operate the Electro Module on the same Line or Fuse (breaker) that the unit is powered with.

**All wiring MUST be done in strict compliance with local, state, national or any other applicable codes.**

**Note: If Electric Auxiliary is used, never disconnect power to the heat unit as it may be required to properly heat the home. Major damage may result.**

**Fan Speed:** All units have three speed blower motors. To change the speed of the motor to a higher or lower speed, remove the electric box cover that is mounted on the blower. Locate the label on the motor to identify wire color for each speed. Remove wire nut of existing speed and replace with wire of selected speed.

**Installing Wires High Voltage:** Main Electric Supply for GSC or GTC (compressor compartment) should enter the unit at the heat pump high voltage wiring entrance. Wire should be run through a conduit pipe up to the cabinet and wired to the heat pump main electric box located in the compressor compartment. Wires should be connected to the master contactor in the electric box. See electric wiring diagram located on the inside of the electric box cover.

All line voltage knockouts are 1-1/8".  
All low voltage knockouts are 7/8".

## Blower Performance Data

### PSC

Model No.	Blower Speed	CFM Nominal	Static Pressure (inches w.c.)										
			0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.50	0.60	0.70	0.80
GSE018	High	600	908	892	872	852	824	800	766	700	633	-	-
	Med*		771	758	741	724	700	680	651	595	-	-	-
	Low		635	624	610	596	576	560	536	-	-	-	-
GSE024	High*	800	908	892	872	852	824	800	766	700	633	-	-
	Med		771	758	741	724	700	680	651	595	-	-	-
	Low		635	624	610	596	576	560	536	-	-	-	-
GSE030	High	1000	1350	1362	1338	1308	1278	1236	1200	1149	1050	950	-
	Med*		1147	1157	1137	1111	1086	1050	1020	977	895	-	-
	Low		945	953	936	915	894	865	840	804	804	-	-
GSE036	High*	1200	1350	1362	1338	1308	1278	1236	1200	1149	1050	950	-
	Med		1147	1157	1137	1111	1086	1050	1020	977	895	-	-
	Low		945	953	936	915	894	865	840	804	804	-	-
GSE042	High	1400	-	1800	1816	1784	1774	1704	1648	1600	1532	1400	-
	Med*		1516	1530	1543	1516	1482	1448	1400	1360	1302	-	-
	Low		1248	1260	1271	1248	1220	1192	1153	1120	-	-	-
GSE048	High*	1650	-	1800	1816	1784	1774	1704	1648	1600	1532	1400	-
	Med		1516	1530	1543	1516	1482	1448	1400	1360	1302	-	-
	Low		1248	1260	1271	1248	1220	1192	1153	1120	-	-	-
GSE060	High	2050	-	-	-	-	2616	2556	2472	2400	2229	2124	1920
	Med*		-	-	-	2274	2223	2172	2101	2040	1954	1781	-
	Low		1873	1890	1906	1873	1831	1789	1730	1680	1584	-	-
GSE072	High*	2450	-	-	-	-	2616	2556	2472	2400	2229	2124	1920
	Med		-	-	-	2274	2223	2172	2101	2040	1954	1781	-
	Low		1873	1890	1906	1873	1831	1789	1730	1680	1584	-	-

### ECM

Model No.	Blower Speed	CFM Nominal	0.10	0.80
GSE024	High Low	900	900	900
GSE036	High Low	1300	1300	1300
GSE048	High Low	1700	1700	1700
GSE060	High Low	2100	2100	2100

**Note:** ECM Motors will maintain a nominal CFM (approximately 400 CFM Per Ton) between .10 and .80 Static Pressure.

**ECM Blower Motors:** GSE018 through GSE072 Models come standard with ECM Blower Motors.

**PSC Blower Motors:** are optional and come with 3 speed taps. To change the speed of the motor to a higher or lower speed, remove the electric box cover that is mounted on the blower. Locate the label on the motor to identify the wire color for each speed. Remove wire nut of existing speed and replace with wire of selected speed.

## Dimensional Data Sheet GSC/GTC Series Model Split Systems

### Recommended Liquid & Suction Line Size

Model No.	20 Feet		50 Feet	
	Liquid Line (OD)	Suction Line (OD)	Liquid Line (OD)	Suction Line (OD)
GSC018	3/8	5/8	3/8	3/4
GSC024	3/8	5/8	3/8	3/4
GSC030	3/8	3/4	1/2	7/8
GSC036	3/8	3/4	1/2	7/8
GSC042	1/2	7/8	1/2	1-1/8
GSC048	1/2	7/8	1/2	1-1/8
GSC060	1/2	7/8	1/2	1-1/8
GSC072	1/2	7/8	1/2	1-1/8

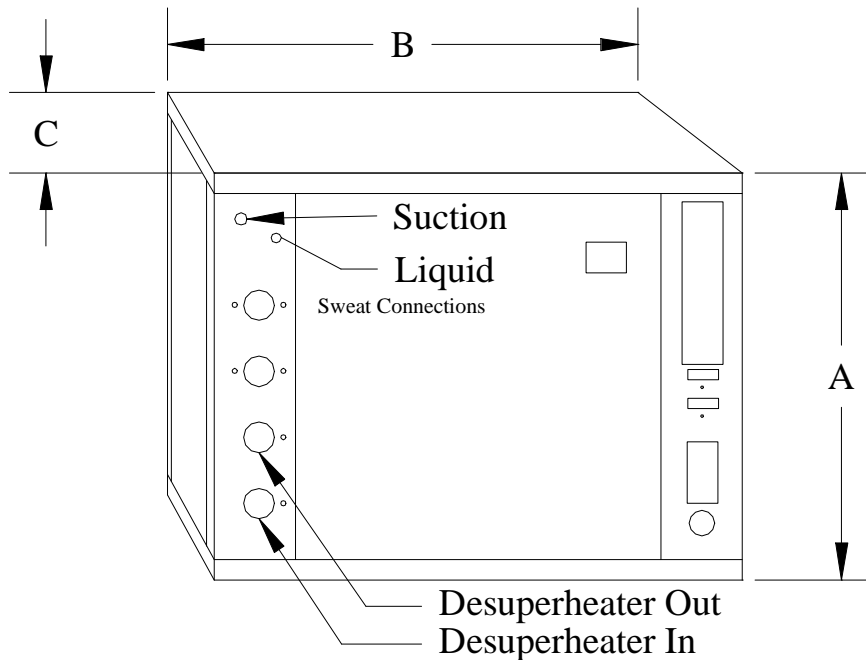
Weight of refrigerant in copper lines per foot	
Liquid Line Size (OD)	Oz. Per Foot
1/4"	0.26
3/8"	0.54
1/2"	1.04

40° F. Evaporating Temperature

### Dimensions Data GSC/GTC Compressor Section

Model No.	Dimensions			Water Loop		Desuperheater Conn.		Refrigerant Conn.	
	A	B	C	IN	Out	In	Out	Liquid	Suction
G-C018-024	18.0	22.0	25.5	3/4	3/4	3/4	3/4	3/8	5/8
G-C030-036	20.0	26.0	30.5	3/4	3/4	3/4	3/4	3/8	3/4
G-C042-048	22.0	26.0	30.5	1.0	1.0	3/4	3/4	3/8	3/4
G-C060	22.0	28.0	30.5	1.0	1.0	3/4	3/4	1/2	7/8
GSC072	22.0	28.0	30.5	1.0	1.0	3/4	3/4	1/2	7/8

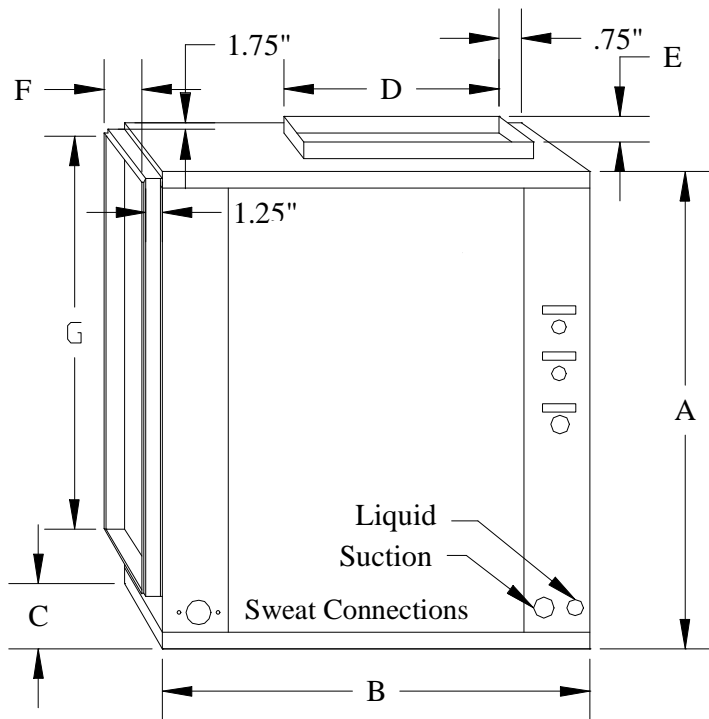
NOTE: All dimensions are in inches; weight is in pounds



## Dimensional Data Sheet GSE Split Systems Fan-Coil

Model No.	Dimension			Supply Air		Return Air		Coil Specification		
	A	B	C	D	E	F	G	Rows	Fins/In	Square Ft
<b>GSE018-024</b>	32.00	22.00	25.50	14.00	12.00	20.75	28.25	3	14	4.2
<b>GSE030-036</b>	34.00	26.00	30.50	14.00	16.00	25.75	30.25	3	14	5.6
<b>GSE042-048</b>	38.00	26.00	30.50	14.00	16.00	25.75	34.25	3	14	6.3
<b>GSE060E</b>	38.00	28.00	30.50	16.00	16.00	25.75	34.25	4	14	6.3
<b>GSE072E</b>	38.00	28.00	30.50	16.00	16.00	25.75	34.25	4	14	6.3

Note: All Models are shipped with expansion valve and check valve assemblies



Model	Refrigerant Conn.	
	Liquid	Suction
<b>GSE018-024</b>	3/8	5/8
<b>GSE030-036</b>	3/8	3/4
<b>GSE042-048</b>	3/8	3/4
<b>GSE060</b>	1/2	7/8
<b>GSE072</b>	1/2	7/8

Model No.	1" Filters
<b>GSE018</b>	30x24
<b>GSE024</b>	30x24
<b>GSE030</b>	32x28
<b>GSE036</b>	32x28
<b>GSE042</b>	36x28
<b>GSE048</b>	36x28
<b>GSE060</b>	36x28
<b>GSE072</b>	36x28

NOTE: All dimensions are in inches

## **Installing The Line Set:**

A reversible heat pump filter drier must be installed on the liquid line near the cabinet (compressor section). The line set consists of installing a brazed copper line set between the compressor section and the air coil section. On installations with a long line set, copper adapters may be needed to connect the larger diameter tubing to the service studs. Line sets over 50 feet are not recommended on the GS/T Series heat pumps because of oil transfer and pressure drop problems. If a longer line set than 50 feet is required, contact Tech Support. The line set, especially suction line, must always be insulated. Handle and route the line set carefully to avoid kinking or bending of the tube. If the line set is accidentally kinked, bent, or flattened, and it cannot be formed back, the bad portion should be replaced.

**Note: Heat Pump A-Coil to be installed with expansion valve and check valve assembly.**

## **Connecting Compressor Section:**

Braze the line set to the compressor section valve studs by using a low silver phos-copper braze alloy on all connections. Nitrogen should always be bled through the system at 2-3 psi to prevent oxidation inside the refrigerant tubing. Units are shipped partially charged with refrigerant. Service valves should not be open until line set is leak tested, purged and evacuated. (See Evacuating & Charging the System).

## **Connecting the Air Coil:**

Braze the line set to the air coil section by using a low silver phos-copper braze alloy on all connections. Nitrogen should always be bled through the system at 2-3 psi to prevent oxidation inside the refrigerant tubing. If you are using a different coil than specified by EnerTech Manufacturing, LLC, see Air Coil Location & Selection or call Technical Support.

## **Air Coil Selection:**

Install Fan-Coil or A-Coil Units as specified by its manufacturer. It's recommended that you use a GeoComfort Fan-Coil or A-Coil, however if that's not possible, select a unit with coil to match capacity/face area/fin count/and rows as well as airflow as closely as possible to the size of the G Series Split Unit. See "Coil Specification" section on Page 12. For example a GTC048 is a 4.0 Ton split system and you need a fan-coil or A-coil to match the GSE048 Fan-Coil (3 rows, 14 fin/inch and 6.3 square feet of face area) with approximately 1700 CFM. Adhering to these specs will normally result in a minimum of 95% of the GS/GT Split Series system rated capacity.

Always verify that the coil you select is suitable for a high-efficiency heat pump application and the housing is designed for the particular application. Horizontal or Down Flow application may need special additional accessories to properly remove condensate from the coil. If the fan coil is to be installed in a living area or ceiling, a secondary condensation pan should be installed under the entire unit.

## **Leak Testing:**

The line set must be pressurized and leak checked before opening service valves or purging and charging system. To check and pressure test the line set, attach refrigerant gauges to both service ports, and add an inert gas (nitrogen or dry carbon dioxide) until pressure reaches 60-90 psig. Use a good quality bubble solution for the inert gas. If line set is tested and a leak is found, repair leak and repeat above step. The system is now ready for evacuating.

## **Evacuating & Charging The System:**

Attach a gauge set to both service ports to prevent false reading and to assure good evacuation. After initial purging, the line set must be evacuated to at least 200 microns to remove air and moisture that may still be in the line set and coil. System is now ready for charging. When line set is purged and evacuated to 200 microns or less and no leaks are found, system is ready to be charged. Charging the system is best by measuring subcooling. Open service valves and start unit in cooling mode. Check subcooling and if desired subcooling is not achieved, add vaporized (gas) refrigerant slowly into the suction side until the desired subcooling is achieved. Never add liquid refrigerant to the suction line of the compressor. Always add gas to the suction port at a rate not to exceed five pounds per minute. After system is charged properly, check performance and superheat (Superheat to be 8 to 12 in Heating and 8 to 25 in cooling). Shut off unit. Restart unit in the heating mode and check performance and superheat after unit has run for a couple minutes. If unit performs to specifications and superheat is normal, system is charged properly. If unit does not perform to specifications, adjustments may be necessary or contact Tech Support.

## **Before Startup:**

Make sure voltage, wire size and breakers match nameplate recommendations.

Make sure low voltage wiring is complete and loops are purged correctly. Ambient air temperature should be between 50-80°F for heating and 50-95°F for cooling.

## **Normal Running Conditions:**

In Heating Mode normal temperature rise across the coil is between 20°F to 35°F. In cooling mode 15°F to 20°F.

**Note: Refrigerant charge may vary due to different configurations on units. (See nameplate refrigerant charge when servicing units).**

## **Operation Pressure: (Extrapolation Is Permissible)**

Heating - Without Desuperheater							
EWT	GPM Per Ton	Discharge Pressure (PSIG)	Suction Pressure (PSIG)	Sub Cooling	Super Heat	Air Temperature Rise (°F-DB)	Water Temperature Drop (°F)
30	1.5	285-310	68-76	4-10	8-12	14-20	5-8
	3	290-315	70-80	4-10	8-12	16-22	3-6
50	1.5	315-345	100-110	6-12	9-14	22-28	7-10
	3	320-350	105-115	6-12	9-14	24-30	5-8
70	1.5	355-395	135-145	7-12	10-15	30-36	9-12
	3	360-390	140-150	7-12	10-15	32-38	7-10

Cooling - Without Desuperheater							
EWT	GPM Per Ton	Discharge Pressure (PSIG)	Suction Pressure (PSIG)	Sub Cooling	Super Heat	Air Temperature Drop (°F-DB)	Water Temperature Rise (°F)
50	1.5	220-235	120-130	10-16	12-20	20-26	19-23
	3	190-210	120-130	10-16	12-20	20-26	9-12
70	1.5	280-300	125-135	8-14	10-16	19-24	18-22
	3	250-270	125-135	8-14	10-16	19-24	9-12
90	1.5	360-380	130-145	8-14	10-14	18-22	17-21
	3	330-350	130-140	8-14	10-14	18-22	8-11

# GSC018 with GSE018

## 1.5 Ton CFM 600

### Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	2.8	1.2	2.8	60	13.4	9.6	80.7	1.07	3.68	11.8	9.7	78.1	1.06	1.7	3.72
				70	13.0	9.1	90.1	1.13	3.39	11.3	9.1	87.5	1.11	1.7	3.45
				80	12.6	8.5	99.5	1.18	3.13	10.9	8.6	96.8	1.16	1.8	3.20
	3.9	2.2	5.2	60	13.8	10.0	81.4	1.08	3.75	12.1	10.1	78.7	1.06	1.7	3.84
				70	13.5	9.4	90.8	1.14	3.46	11.7	9.5	88.0	1.12	1.8	3.54
				80	13.1	8.9	100.2	1.20	3.21	11.3	8.9	97.4	1.17	1.8	3.28
	5.0	3.6	8.3	60	14.0	10.2	81.6	1.08	3.80	12.3	10.3	78.9	1.06	1.7	3.89
				70	13.6	9.7	91.1	1.14	3.52	11.8	8.3	88.3	1.12	1.8	3.59
				80	13.3	9.1	100.5	1.19	3.26	11.4	9.1	97.6	1.17	1.9	3.32
50	2.8	1.1	2.6	60	17.4	13.5	86.8	1.12	4.54	15.2	13.6	83.5	1.08	2.2	4.70
				70	16.9	12.7	96.0	1.18	4.18	14.6	12.8	92.6	1.14	2.2	4.32
				80	16.3	11.9	105.1	1.24	3.85	14.0	12.0	101.6	1.20	2.3	3.97
	3.9	2.1	4.8	60	18.1	14.1	87.9	1.14	4.65	15.9	14.3	84.5	1.11	2.3	4.80
				70	17.5	13.3	97.0	1.20	4.27	15.2	13.4	93.5	1.16	2.3	4.41
				80	16.9	12.5	106.2	1.27	3.93	14.6	12.6	102.5	1.22	2.4	4.06
	5.0	3.4	7.8	60	18.5	14.5	88.5	1.15	4.72	16.2	14.6	85.0	1.11	2.3	4.89
				70	17.9	13.6	97.6	1.21	4.34	15.5	13.8	94.0	1.17	2.4	4.48
				80	17.3	12.8	106.7	1.27	3.99	14.9	13.0	102.9	1.23	2.4	4.12
70	2.8	1.1	2.6	60	21.1	17.0	92.6	1.19	5.20	18.5	17.2	88.6	1.14	2.6	5.45
				70	20.4	16.0	101.5	1.25	4.77	17.7	16.2	97.3	1.20	2.7	4.99
				80	19.6	15.0	110.3	1.31	4.38	16.9	15.3	106.1	1.26	2.8	4.58
	3.9	2.0	4.6	60	22.2	17.9	94.3	1.23	5.30	19.4	18.2	90.0	1.17	2.8	5.56
				70	21.4	16.9	103.0	1.29	4.86	18.6	17.1	98.7	1.23	2.8	5.09
				80	20.6	15.9	111.8	1.36	4.45	17.7	16.1	107.4	1.29	2.9	4.67
	5.0	3.2	7.4	60	22.8	18.4	95.2	1.24	5.39	20.0	18.7	90.8	1.18	2.8	5.67
				70	22.0	17.4	103.9	1.31	4.93	19.1	17.7	99.4	1.24	2.9	5.18
				80	21.1	16.3	112.6	1.37	4.52	18.2	16.6	108.1	1.30	3.0	4.75
90	2.8	1.0	2.4	60	24.4	20.0	97.6	1.18	6.04	21.3	20.4	92.9	1.18	3.0	6.08
				70	23.5	18.9	106.2	1.34	5.15	20.4	19.2	101.4	1.24	3.1	5.55
				80	22.6	17.7	114.8	1.38	4.81	19.4	18.1	109.9	1.30	3.2	5.08
	3.9	1.8	4.3	60	25.8	21.2	99.8	1.30	5.82	22.6	21.7	94.8	1.22	3.2	6.19
				70	24.8	20.0	108.3	1.37	5.32	21.5	20.4	103.2	1.29	3.3	5.66
				80	23.8	18.8	116.8	1.43	4.87	20.5	19.2	111.6	1.35	3.3	5.17
	5.0	3.0	6.8	60	26.6	22.0	101.1	1.32	5.92	23.3	22.4	96.0	1.24	3.3	6.31
				70	25.6	20.7	109.5	1.39	5.42	22.2	21.2	104.3	1.30	3.4	5.76
				80	24.6	19.5	118.0	1.46	4.95	21.1	19.9	112.6	1.37	3.5	5.26

# GSC018 with GSE018

## 1.5 Ton CFM 600

### Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	2.8	1.2	2.7	75/63	17.4	12.1	20.5	0.85	20.5	17.4	12.2	20.5	0.83	1.5	20.9
				80/67	18.9	12.6	21.8	0.87	21.7	18.9	12.7	21.7	0.85	1.5	22.2
				85/71	20.4	13.1	23.1	0.89	23.0	20.4	13.2	23.1	0.87	1.5	23.5
	3.9	2.1	4.8	75/63	17.6	12.2	20.5	0.81	21.6	17.6	12.3	20.5	0.80	1.4	21.9
				80/67	19.1	12.8	21.8	0.83	23.0	19.1	12.8	21.9	0.82	1.4	23.3
				85/71	20.6	13.3	23.1	0.84	24.4	20.6	13.3	23.1	0.83	1.5	24.7
	5.0	3.4	7.8	75/63	17.7	12.2	20.6	0.79	22.5	17.7	12.3	20.6	0.78	1.3	22.6
				80/67	19.3	12.8	22.0	0.80	24.0	19.3	12.8	22.0	0.80	1.4	24.1
				85/71	20.8	13.3	23.2	0.82	25.4	20.8	13.4	23.3	0.81	1.4	25.6
70	2.8	1.1	2.6	75/63	16.3	11.9	19.9	1.02	16.0	16.4	11.9	20.0	1.00	2.1	16.5
				80/67	17.7	12.4	21.2	1.04	16.9	17.8	12.5	21.2	1.02	2.2	17.5
				85/71	19.1	12.9	22.5	1.06	18.0	19.2	13.0	22.5	1.04	2.2	18.5
	3.9	2.0	4.6	75/63	16.5	12.0	20.0	0.97	17.0	16.6	12.1	20.1	0.95	2.0	17.4
				80/67	18.0	12.5	21.3	0.99	18.1	18.1	12.6	21.4	0.98	2.1	18.5
				85/71	19.4	13.0	22.6	1.01	19.2	19.5	13.1	22.6	0.99	2.1	19.7
	5.0	3.2	7.4	75/63	16.7	12.0	20.1	0.94	17.7	16.8	12.1	20.2	0.94	1.9	17.9
				80/67	18.2	12.5	21.4	0.96	18.9	18.3	12.6	21.5	0.96	2.0	19.1
				85/71	19.6	13.0	22.6	0.98	20.0	19.7	13.1	22.7	0.97	2.1	20.3
90	2.8	1.0	2.4	75/63	14.8	11.4	19.2	1.26	11.8	15.0	11.5	19.2	1.22	2.8	12.2
				80/67	16.1	11.9	20.4	1.29	12.5	16.3	12.0	20.5	1.25	2.9	13.0
				85/71	17.4	12.4	21.6	1.31	13.3	17.6	12.5	21.7	1.27	2.9	13.8
	3.9	1.9	4.3	75/63	15.1	11.5	19.3	1.19	12.7	15.3	11.6	19.4	1.16	2.7	13.1
				80/67	16.4	12.0	20.5	1.22	13.5	16.6	12.1	20.6	1.19	2.7	14.0
				85/71	17.8	12.5	21.7	1.23	14.4	17.9	12.6	21.9	1.21	2.8	14.8
	5.0	3.0	6.9	75/63	15.3	11.5	19.3	1.16	13.2	15.4	11.6	19.4	1.14	2.6	13.5
				80/67	16.6	12.0	20.5	1.18	14.1	16.8	12.1	20.7	1.17	2.6	14.4
				85/71	17.9	12.5	21.8	1.21	14.9	18.1	12.6	22.0	1.19	2.7	15.3
110	2.8	1.0	2.3	75/63	12.9	10.7	18.2	1.57	8.2	13.1	10.8	18.3	1.53	3.4	8.6
				80/67	14.0	11.1	19.4	1.59	8.8	14.3	11.2	19.5	1.55	3.5	9.2
				85/71	15.2	11.6	20.6	1.63	9.3	15.4	11.7	20.6	1.58	3.6	9.8
	3.9	1.8	4.3	75/63	13.3	10.8	18.3	1.47	9.0	13.5	10.9	18.4	1.45	3.3	9.3
				80/67	14.4	11.2	19.4	1.50	9.6	14.7	11.3	19.6	1.47	3.4	10.0
				85/71	15.6	11.7	20.6	1.54	10.1	15.8	11.8	20.8	1.50	3.5	10.6
	5.0	2.9	6.7	75/63	13.4	10.8	18.3	1.44	9.3	13.6	10.9	18.5	1.42	3.2	9.6
				80/67	14.6	10.2	19.4	1.46	10.0	14.8	11.3	19.7	1.46	3.3	10.2
				85/71	15.7	11.7	20.6	1.49	10.6	16.0	11.8	20.8	1.47	3.4	10.9



# GSC024 with GSE024

## 2.0 Ton CFM 800

### Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	3.3	1.4	3.1	60	20.1	14.5	83.3	1.60	3.68	17.6	14.5	80.4	1.59	2.5	3.72
				70	19.6	13.6	92.7	1.69	3.39	17.0	13.7	89.7	1.66	2.6	3.45
				80	19.0	12.8	101.9	1.77	3.13	16.3	12.8	98.9	1.74	2.7	3.20
	4.7	2.5	5.8	60	20.8	15.1	84.0	1.62	3.75	18.2	15.1	81.9	1.59	2.6	3.84
				70	20.2	14.2	93.4	1.71	3.46	17.5	14.3	90.3	1.67	2.7	3.54
				80	19.6	13.3	102.7	1.79	3.21	16.9	13.4	99.5	1.75	2.8	3.28
	6.0	4.1	9.4	60	21.0	15.4	84.3	1.62	3.80	18.4	15.4	81.3	1.59	2.6	3.89
				70	20.5	14.5	93.7	1.71	3.52	17.8	12.5	90.6	1.67	2.7	3.59
				80	19.9	13.6	103.1	1.79	3.26	17.1	13.7	99.8	1.76	2.8	3.32
50	3.3	1.3	2.9	60	26.1	20.2	90.2	1.68	4.54	22.8	20.4	86.4	1.63	3.2	4.70
				70	25.3	19.0	99.3	1.77	4.18	21.9	19.2	95.4	1.72	3.3	4.32
				80	24.4	17.9	108.3	1.86	3.85	21.0	18.1	104.3	1.80	3.4	3.97
	4.7	2.3	5.4	60	27.2	21.1	91.4	1.71	4.65	23.8	21.4	87.5	1.66	3.4	4.80
				70	26.3	20.0	100.4	1.80	4.27	22.8	20.1	96.4	1.75	3.5	4.41
				80	25.4	18.7	109.4	1.90	3.93	21.9	19.0	105.3	1.83	3.6	4.06
	6.0	3.8	8.7	60	27.7	21.7	92.1	1.72	4.72	24.3	21.9	88.1	1.66	3.5	4.89
				70	26.8	20.5	101.1	1.81	4.34	23.3	20.7	96.9	1.75	3.5	4.48
				80	25.9	19.2	110.0	1.90	3.99	22.3	19.5	105.8	1.84	3.6	4.12
70	3.3	1.3	2.9	60	31.7	25.5	96.7	1.79	5.20	27.8	25.8	92.1	1.71	3.9	5.45
				70	30.6	24.0	105.4	1.88	4.77	26.5	24.3	100.7	1.80	4.0	4.99
				80	29.5	22.6	114.1	1.97	4.38	25.3	22.9	109.3	1.89	4.1	4.58
	4.7	2.3	5.2	60	33.3	26.8	98.5	1.84	5.30	29.2	27.3	93.7	1.75	4.1	5.56
				70	32.1	25.3	107.2	1.94	4.86	27.9	25.7	102.3	1.85	4.2	5.09
				80	30.9	23.8	115.8	2.04	4.45	26.6	24.2	110.8	1.94	4.3	4.67
	6.0	3.6	8.3	60	34.2	27.7	99.6	1.86	5.39	29.9	28.1	94.7	1.77	4.3	5.67
				70	33.0	26.1	108.1	1.96	4.93	28.6	26.5	103.1	1.86	4.4	5.18
				80	31.7	24.5	116.7	2.06	4.52	27.3	25.0	111.6	1.96	4.5	4.75
90	3.3	1.2	2.7	60	36.6	30.0	102.3	1.77	6.04	32.0	30.6	97.0	1.76	4.6	6.08
				70	32.5	28.3	110.8	2.01	5.15	30.6	28.9	105.4	1.86	4.7	5.55
				80	33.9	26.6	119.2	2.06	4.81	29.1	27.1	113.7	1.95	4.8	5.08
	4.7	2.1	4.8	60	38.6	31.8	104.7	1.95	5.82	33.8	32.5	99.2	1.83	4.8	6.19
				70	37.2	30.0	113.1	2.05	5.32	32.3	30.7	107.4	1.93	4.9	5.66
				80	35.8	28.2	121.4	2.15	4.87	30.8	28.8	115.6	2.03	5.0	5.17
	6.0	3.3	7.7	60	39.9	33.0	106.2	1.98	5.92	35.0	33.7	100.5	1.85	5.0	6.31
				70	38.4	31.1	114.5	2.08	5.42	33.3	31.8	108.6	1.96	5.1	5.76
				80	36.9	29.2	122.7	2.18	4.95	31.7	29.9	116.7	2.05	5.2	5.26

# GSC024 with GSE024

## 2.0 Ton CFM 800

### Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	3.3	1.3	3.0	75/63	26.1	18.2	30.7	1.34	19.5	26.1	18.2	30.7	1.31	2.2	19.9
				80/67	28.3	19.0	32.7	1.37	20.7	28.3	19.0	32.6	1.34	2.2	21.2
				85/71	30.6	19.7	34.6	1.39	21.9	30.6	19.8	34.6	1.37	2.3	22.4
	4.7	2.3	5.4	75/63	26.3	18.4	30.6	1.28	20.6	26.3	18.4	30.8	1.26	2.1	20.9
				80/67	28.6	19.1	32.7	1.30	21.9	28.6	19.2	32.8	1.29	2.1	22.2
				85/71	30.9	19.9	34.7	1.33	23.2	30.9	19.9	34.7	1.31	2.2	23.5
	6.0	3.8	8.7	75/63	26.6	18.4	30.9	1.24	21.5	26.6	18.4	30.9	1.23	2.0	21.5
				80/67	28.9	19.1	32.9	1.27	22.8	28.9	19.2	32.9	1.26	2.0	22.9
				85/71	31.2	19.9	34.9	1.29	24.2	31.2	19.9	34.9	1.28	2.1	24.3
70	3.3	1.3	2.9	75/63	24.4	17.9	29.9	1.61	15.2	24.6	17.9	29.9	1.57	3.2	15.7
				80/67	26.5	18.6	31.8	1.64	16.1	26.7	18.7	31.8	1.60	3.3	16.7
				85/71	28.7	19.3	33.7	1.67	17.2	28.9	19.4	33.7	1.64	3.4	17.6
	4.7	2.3	5.2	75/63	24.8	18.1	30.0	1.53	16.2	25.0	18.1	30.1	1.50	3.1	16.6
				80/67	27.0	18.8	31.9	1.56	17.3	27.1	18.9	32.0	1.54	3.2	17.6
				85/71	29.1	19.6	33.8	1.59	18.3	29.3	19.6	34.0	1.56	3.2	18.7
	6.0	3.6	8.3	75/63	25.0	18.1	30.1	1.48	16.9	25.2	18.1	30.2	1.48	2.9	17.1
				80/67	27.2	18.8	32.1	1.51	18.0	27.4	18.9	32.2	1.51	3.0	18.2
				85/71	29.4	19.6	34.0	1.54	19.0	29.6	19.6	34.1	1.53	3.1	19.3
90	3.3	1.2	2.7	75/63	22.2	17.1	28.7	1.99	11.2	22.5	17.3	28.8	1.93	4.2	11.7
				80/67	24.2	17.8	30.6	2.03	11.9	24.4	18.0	30.7	1.97	4.3	12.4
				85/71	26.1	18.6	32.5	2.06	12.7	26.4	18.7	32.6	2.00	4.4	13.2
	4.7	2.1	4.8	75/63	22.7	17.3	28.9	1.87	12.1	22.9	17.4	29.1	1.83	4.0	12.5
				80/67	24.7	18.1	30.7	1.92	12.9	24.9	18.1	30.9	1.87	4.1	13.3
				85/71	26.6	18.8	32.6	1.94	13.7	26.9	18.9	32.8	1.91	4.2	14.1
	6.0	3.4	7.7	75/63	22.9	17.3	29.0	1.82	12.6	23.2	17.4	29.2	1.80	3.9	12.9
				80/67	24.9	18.1	30.8	1.86	13.4	25.2	18.1	31.1	1.84	4.0	13.7
				85/71	26.9	18.8	32.7	1.90	14.2	27.2	18.9	32.9	1.87	4.1	14.5
110	3.3	1.1	2.6	75/63	19.4	16.1	27.3	2.48	7.8	19.7	16.2	27.5	2.40	5.1	8.2
				80/67	21.1	16.7	29.1	2.51	8.4	21.4	16.8	29.2	2.44	5.3	8.8
				85/71	22.8	17.4	30.8	2.57	8.9	23.2	17.5	30.9	2.48	5.5	9.3
	4.7	2.1	4.8	75/63	19.9	16.2	27.5	2.32	8.6	20.2	16.4	27.6	2.28	5.0	8.9
				80/67	21.7	16.9	29.2	2.37	9.1	22.0	17.0	29.4	2.31	5.1	9.5
				85/71	23.4	17.6	30.9	2.43	9.6	23.8	17.7	31.2	2.36	5.2	10.1
	6.0	3.3	7.6	75/63	20.1	16.2	27.5	2.27	8.9	20.4	16.4	27.7	2.24	4.8	9.1
				80/67	21.9	16.9	29.2	2.30	9.5	22.2	17.0	29.5	2.29	4.9	9.7
				85/71	23.6	17.6	30.9	2.34	10.1	24.0	17.7	31.3	2.32	5.1	10.4

# GTC024 with GSE024

## 2.0 Ton CFM 900

### High Capacity/Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	3.9	1.4	3.2	60	21.7	15.5	82.3	1.77	3.58	19.0	15.6	79.5	1.75	2.7	3.62
				70	21.0	14.6	91.6	1.87	3.30	18.3	14.7	88.8	1.83	2.8	3.36
				80	20.4	13.8	101.0	1.96	3.05	17.5	13.8	98.0	1.92	2.9	3.11
	5.4	2.6	6.0	60	22.3	16.2	83.0	1.79	3.65	19.5	16.2	80.1	1.75	2.8	3.73
				70	21.7	15.2	92.3	1.89	3.37	18.8	15.3	89.1	1.85	2.9	3.44
				80	21.1	14.3	101.7	1.98	3.12	18.1	14.4	98.7	1.94	3.0	3.19
	7.0	4.1	9.6	60	22.6	16.5	83.3	1.79	3.70	19.8	16.6	80.4	1.75	2.8	3.78
				70	22.0	15.6	92.6	1.89	3.42	19.1	13.4	89.6	1.85	2.9	3.49
				80	21.4	14.6	102.0	1.98	3.17	18.4	14.7	98.9	1.94	3.0	3.23
50	3.9	1.3	3.0	60	28.0	21.7	88.8	1.86	4.42	24.5	21.9	85.2	1.80	3.5	4.57
				70	27.2	20.4	98.0	1.96	4.07	23.6	20.6	94.3	1.90	3.6	4.20
				80	26.3	19.2	107.0	2.05	3.75	22.6	19.4	103.2	1.99	3.7	3.86
	5.4	2.4	5.5	60	29.2	22.7	90.0	1.89	4.52	25.6	23.0	86.3	1.83	3.6	4.67
				70	28.2	21.5	99.1	1.99	4.15	24.5	21.7	95.2	1.93	3.7	4.29
				80	27.3	20.1	108.1	2.10	3.82	23.5	20.4	104.2	2.03	3.8	3.95
	7.0	3.9	8.9	60	29.8	23.3	90.7	1.90	4.59	26.1	23.5	86.8	1.83	3.7	4.76
				70	28.8	22.0	99.7	2.00	4.22	25.0	22.3	95.7	1.94	3.8	4.36
				80	27.9	20.7	108.7	2.10	3.88	23.9	20.9	104.6	2.04	3.9	4.01
70	3.9	1.3	3.0	60	34.1	27.4	95.1	1.97	5.06	29.8	27.7	90.7	1.88	4.2	5.30
				70	32.9	25.8	103.8	2.08	4.64	28.5	26.2	99.4	1.99	4.3	4.85
				80	31.7	24.2	112.6	2.18	4.26	27.2	24.6	108.0	2.08	4.4	4.45
	5.4	2.3	5.3	60	35.8	28.8	96.8	2.03	5.16	31.3	29.3	92.2	1.94	4.5	5.41
				70	34.5	27.2	105.5	2.14	4.73	30.0	27.6	100.8	2.04	4.6	4.95
				80	33.3	25.6	114.2	2.25	4.33	28.6	26.0	109.4	2.15	4.7	4.54
	7.0	3.7	8.5	60	36.8	29.7	97.8	2.06	5.24	32.2	30.2	93.1	1.95	4.6	5.51
				70	35.4	28.1	106.5	2.16	4.80	30.7	28.5	101.6	2.06	4.7	5.04
				80	34.1	26.4	115.1	2.27	4.40	29.3	26.8	110.2	2.16	4.8	4.62
90	3.9	1.2	2.8	60	39.3	32.3	100.4	1.96	5.88	34.4	32.9	95.4	1.95	4.9	5.91
				70	37.9	30.4	108.9	2.22	5.01	32.8	31.0	103.8	2.05	5.0	5.40
				80	36.4	28.6	117.4	2.28	4.68	31.3	29.1	112.2	2.16	5.1	4.94
	5.4	2.1	4.9	60	41.5	34.2	102.7	2.15	5.66	36.4	34.9	97.4	2.02	5.2	6.02
				70	40.0	32.3	111.2	2.26	5.18	34.7	33.0	105.7	2.13	5.3	5.50
				80	38.5	30.4	119.6	2.38	4.74	33.1	31.0	114.0	2.24	5.4	5.03
	7.0	3.4	7.9	60	42.9	35.4	104.2	2.18	5.76	37.6	36.2	98.7	2.05	5.3	6.14
				70	41.3	33.4	112.5	2.30	5.27	35.8	34.2	106.9	2.16	5.5	5.60
				80	39.7	31.4	120.8	2.41	4.82	34.1	32.1	115.1	2.27	5.6	5.12

# GTC024 with GSE024

## 2.0 Ton CFM 500

### Low Capacity/Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	2.2	0.9	2.1	60	14.9	10.7	87.7	0.98	4.47	13.1	10.7	84.2	0.97	1.9	4.53
				70	14.5	10.1	96.9	1.03	4.12	12.6	10.2	93.3	1.01	1.9	4.20
				80	14.1	9.5	106.0	1.08	3.81	12.1	9.5	102.4	1.06	2.0	3.89
	3.1	1.7	3.9	60	15.4	10.5	88.5	0.99	4.56	13.5	11.2	85.0	0.97	1.9	4.66
				70	15.0	10.5	97.7	1.04	4.21	13.0	10.6	94.1	1.02	2.0	4.30
				80	14.6	9.9	107.0	1.09	3.90	12.5	9.9	103.2	1.07	2.0	3.99
	4.0	2.7	6.2	60	15.6	11.4	88.9	0.99	4.62	13.7	11.5	85.3	0.97	1.9	4.73
				70	15.2	10.8	98.1	1.04	4.28	13.2	9.3	94.4	1.02	2.0	4.36
				80	14.8	10.1	107.4	1.09	3.96	12.7	10.2	103.5	1.07	2.1	4.04
50	2.2	0.8	1.9	60	19.3	15.0	95.8	1.03	5.53	16.9	15.1	91.3	0.99	2.4	5.72
				70	18.8	14.1	104.7	1.08	5.09	16.3	14.2	100.1	1.05	2.5	5.25
				80	18.1	13.3	113.5	1.13	4.69	15.6	13.4	108.8	1.10	2.5	4.83
	3.1	1.6	3.6	60	20.1	15.7	97.3	1.05	5.65	17.6	15.9	92.7	1.01	2.5	5.84
				70	19.5	14.8	106.1	1.10	5.19	16.9	14.9	101.3	1.06	2.6	5.36
				80	18.9	13.9	114.9	1.16	4.78	16.2	14.1	110.0	1.12	2.6	4.94
	4.0	2.5	5.8	60	20.6	16.1	98.1	1.05	5.74	18.0	16.2	93.3	1.01	2.6	5.95
				70	19.9	15.2	106.8	1.11	5.28	17.3	15.4	102.0	1.07	2.6	5.45
				80	19.2	14.3	115.6	1.16	4.85	16.5	14.4	110.6	1.12	2.7	5.01
70	2.2	0.8	1.9	60	23.5	18.9	103.6	1.09	6.32	20.6	19.1	98.1	1.04	2.9	6.63
				70	22.7	17.8	112.0	1.15	5.80	19.7	18.0	106.5	1.10	3.0	6.07
				80	21.8	16.7	120.5	1.20	5.32	18.8	17.0	114.8	1.15	3.1	5.57
	3.1	1.5	3.5	60	24.7	19.9	105.7	1.12	6.45	21.6	20.2	100.0	1.07	3.1	6.77
				70	23.8	18.8	114.1	1.18	5.91	20.7	19.1	108.3	1.13	3.1	6.19
				80	22.9	17.6	122.5	1.24	5.41	19.7	17.9	116.5	1.18	3.2	5.68
	4.0	2.4	5.5	60	25.4	20.5	107.0	1.13	6.55	22.2	20.9	101.1	1.08	3.2	6.89
				70	24.4	19.4	115.3	1.19	6.00	21.2	19.7	109.3	1.14	3.2	6.30
				80	23.5	18.2	123.6	1.25	5.50	20.2	18.5	117.5	1.19	3.3	5.78
90	2.2	0.8	1.8	60	27.1	22.3	110.2	1.08	7.35	23.7	22.7	104.0	1.08	3.4	7.39
				70	26.1	21.0	118.4	1.22	6.26	22.7	21.4	112.0	1.13	3.5	6.75
				80	25.1	19.7	126.5	1.26	5.85	21.6	20.1	120.0	1.19	3.5	6.18
	3.1	1.4	3.2	60	28.7	23.6	113.1	1.19	7.07	25.1	24.1	106.5	1.12	3.6	7.53
				70	27.6	22.3	121.1	1.25	6.48	24.0	22.7	114.4	1.18	3.7	6.88
				80	26.5	20.9	129.1	1.31	5.92	22.8	21.4	122.2	1.24	3.7	6.29
	4.0	2.2	5.1	60	29.6	24.4	114.8	1.21	7.20	25.9	25.0	108.0	1.13	3.7	7.68
				70	28.5	23.1	122.8	1.27	6.59	24.7	23.6	115.8	1.19	3.8	7.00
				80	27.4	21.7	130.7	1.33	6.03	23.5	22.2	123.6	1.25	3.8	6.40

# GTC024 with GSE024

## 2.0 Ton CFM 900

### High Capacity/Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	3.9	1.3	3.1	75/63	28.0	19.6	33.0	1.44	19.5	28.0	19.6	33.0	1.41	2.4	19.9
				80/67	30.4	20.4	35.1	1.47	20.7	30.4	20.4	35.1	1.44	2.4	21.2
				85/71	32.9	21.2	37.2	1.50	21.9	32.9	21.2	37.2	1.47	2.5	22.4
	5.4	2.4	5.5	75/63	28.3	19.8	33.1	1.37	20.6	28.3	19.8	33.1	1.35	2.2	20.9
				80/67	30.7	20.6	35.2	1.40	21.9	30.7	20.6	35.2	1.38	2.3	22.2
				85/71	33.2	21.4	37.3	1.43	23.2	33.2	21.4	37.3	1.41	2.4	23.5
	7.0	3.9	8.9	75/63	28.6	19.8	33.3	1.33	21.5	28.6	19.8	33.3	1.33	2.1	21.5
				80/67	31.1	20.6	35.4	1.36	22.8	31.1	20.8	35.4	1.35	2.2	22.9
				85/71	33.6	21.4	37.5	1.39	24.2	33.6	21.4	37.6	1.38	2.2	24.3
70	3.9	1.3	3.0	75/63	26.3	19.2	32.1	1.73	15.2	26.4	19.3	32.2	1.69	3.4	15.7
				80/67	28.5	20.0	34.1	1.77	16.1	28.7	20.1	34.2	1.72	3.5	16.7
				85/71	30.8	20.8	36.2	1.80	17.2	31.0	20.9	36.3	1.76	3.6	17.6
	5.4	2.3	5.3	75/63	26.7	19.4	32.2	1.64	16.2	26.8	19.5	32.3	1.62	3.3	16.6
				80/67	29.0	20.2	34.3	1.68	17.3	29.2	20.3	34.4	1.65	3.4	17.6
				85/71	31.3	21.0	36.4	1.71	18.3	31.5	21.1	36.5	1.68	3.5	18.7
	7.0	3.7	8.5	75/63	26.9	19.4	32.4	1.59	16.9	27.1	19.5	32.5	1.59	3.1	17.1
				80/67	29.3	20.2	34.5	1.63	18.0	29.5	20.3	34.6	1.62	3.2	18.2
				85/71	31.6	21.0	36.5	1.66	19.0	31.8	21.1	36.7	1.65	3.3	19.3
90	3.9	1.2	2.8	75/63	23.9	18.4	30.9	2.14	11.2	24.1	18.6	31.0	2.07	4.5	11.7
				80/67	26.0	19.2	32.9	2.18	11.9	26.2	19.3	33.0	2.12	4.6	12.4
				85/71	28.1	20.0	34.9	2.21	12.7	28.3	20.1	35.0	2.15	4.7	13.2
	5.4	2.1	4.9	75/63	24.4	18.6	31.1	2.01	12.1	24.6	18.7	31.2	1.97	4.3	12.5
				80/67	26.5	19.4	33.0	2.06	12.9	26.8	19.5	33.2	2.01	4.4	13.3
				85/71	28.6	20.2	35.0	2.09	13.7	28.9	20.3	35.2	2.05	4.5	14.1
	7.0	3.4	7.9	75/63	24.7	18.6	31.1	1.96	12.6	24.9	18.7	31.4	1.93	4.1	12.9
				80/67	26.8	19.4	33.1	2.00	13.4	27.1	19.5	33.4	1.97	4.3	13.7
				85/71	28.9	20.2	35.1	2.04	14.2	29.2	20.3	35.4	2.01	4.4	14.5
110	3.9	1.2	2.7	75/63	20.9	17.3	29.4	2.66	7.8	21.2	17.4	29.5	2.58	5.5	8.2
				80/67	22.6	18.0	31.3	2.70	8.4	23.0	18.1	31.4	2.63	5.7	8.8
				85/71	24.5	18.7	33.2	2.76	8.9	24.9	18.9	33.3	2.67	5.9	9.3
	5.4	2.1	4.9	75/63	21.4	17.4	29.5	2.49	8.6	21.7	17.6	29.7	2.45	5.4	8.9
				80/67	23.3	18.1	31.4	2.55	9.1	23.7	18.3	31.6	2.49	5.5	9.5
				85/71	25.1	18.9	33.3	2.62	9.6	25.5	19.0	33.5	2.54	5.6	10.1
	7.0	3.4	7.8	75/63	21.6	17.4	29.5	2.44	8.9	22.0	17.6	29.8	2.40	5.1	9.1
				80/67	23.5	18.1	31.4	2.47	9.5	23.9	18.3	31.7	2.46	5.3	9.7
				85/71	25.4	18.9	33.3	2.52	10.1	25.8	19.0	33.6	2.49	5.5	10.4

# GTC024 with GSE024

## 2.0 Ton CFM 500

### Low Capacity/Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	2.2	0.9	2.0	75/63	19.3	13.5	22.8	0.74	26.0	19.3	13.5	22.8	0.73	1.6	26.5
				80/67	21.0	14.1	24.2	0.76	27.6	21.0	14.1	24.2	0.74	1.7	28.2
				85/71	22.7	14.6	25.7	0.78	29.2	22.7	14.7	25.7	0.76	1.7	29.8
	3.1	1.6	3.6	75/63	19.5	13.6	22.8	0.71	27.5	19.5	13.7	22.8	0.70	1.5	27.9
				80/67	21.2	14.2	24.3	0.73	29.2	21.2	14.2	24.3	0.72	1.6	29.6
				85/71	22.9	14.7	25.7	0.74	31.0	22.9	14.8	25.7	0.73	1.6	31.3
	4.0	2.5	5.8	75/63	19.7	13.6	23.0	0.69	28.6	19.7	13.7	23.0	0.69	1.5	28.7
				80/67	21.4	14.2	24.4	0.70	30.5	21.4	14.2	24.4	0.70	1.5	30.6
				85/71	23.2	14.7	25.9	0.72	32.2	23.2	14.8	25.9	0.71	1.5	32.5
70	2.2	0.8	1.9	75/63	18.1	13.3	22.2	0.89	20.3	18.2	13.3	22.2	0.87	2.3	20.9
				80/67	19.7	13.8	23.6	0.92	21.5	19.8	13.9	22.3	0.89	2.4	22.3
				85/71	21.3	14.3	25.0	0.93	22.9	21.4	14.4	25.0	0.91	2.5	23.5
	3.1	1.5	3.5	75/63	18.4	13.4	22.2	0.85	21.6	18.5	13.5	22.3	0.84	2.3	22.1
				80/67	20.0	13.9	23.7	0.87	23.0	20.1	14.0	23.8	0.86	2.3	23.5
				85/71	21.6	14.5	25.1	0.89	24.4	21.7	14.6	25.2	0.87	2.4	25.0
	4.0	2.4	5.5	75/63	18.6	13.4	22.4	0.83	22.5	18.7	13.5	22.4	0.82	2.1	22.8
				80/67	20.2	13.9	23.8	0.84	24.0	20.3	14.0	23.9	0.84	2.2	24.2
				85/71	21.8	14.5	25.2	0.86	25.4	21.9	14.6	25.3	0.85	2.3	25.7
90	2.2	0.8	1.8	75/63	16.5	12.7	21.3	1.11	14.9	16.7	12.8	21.4	1.07	3.1	15.5
				80/67	17.9	13.2	22.7	1.13	15.9	18.1	13.3	22.8	1.09	3.2	16.5
				85/71	19.4	13.8	24.1	1.15	16.9	19.6	13.9	24.2	1.12	3.3	17.5
	3.1	1.4	3.2	75/63	16.8	12.8	21.4	1.04	16.2	17.0	12.9	21.6	1.02	3.0	16.7
				80/67	18.3	13.4	22.8	1.07	17.2	18.5	13.5	22.9	1.04	3.1	17.8
				85/71	19.8	13.9	24.1	1.08	18.3	20.0	14.0	24.3	1.06	3.1	18.8
	4.0	2.2	5.2	75/63	17.0	12.8	21.5	0.01	16.8	17.2	12.9	21.6	1.00	2.9	17.2
				80/67	18.5	13.4	22.8	0.03	17.9	18.7	13.5	23.0	1.02	2.9	18.3
				85/71	20.0	13.9	24.2	0.06	18.9	20.2	14.0	24.4	1.04	3.0	19.4
110	2.2	0.8	1.7	75/63	14.4	11.9	20.3	1.38	10.4	14.6	12.0	10.4	1.34	3.8	10.9
				80/67	15.6	12.4	21.6	1.40	11.2	15.9	12.5	21.7	1.36	3.9	11.7
				85/71	16.9	12.9	22.9	1.43	11.8	17.2	13.0	23.0	1.38	4.0	12.4
	3.1	1.4	3.2	75/63	14.7	12.0	20.4	1.29	11.4	15.0	12.1	20.5	1.27	3.7	11.8
				80/67	16.1	12.5	21.6	1.32	12.2	16.3	12.6	21.8	1.29	3.8	12.7
				85/71	17.3	13.0	23.0	1.35	12.8	17.6	13.1	23.1	1.31	3.9	13.4
	4.0	2.2	5.1	75/63	14.9	12.0	20.4	1.26	11.8	15.2	12.1	20.6	1.24	3.5	12.2
				80/67	16.2	12.5	21.6	1.28	12.7	16.5	12.6	21.9	1.28	3.7	12.9
				85/71	17.5	13.0	23.0	1.30	13.4	17.8	13.1	23.2	1.29	3.8	13.8

# GSC030 with GSE030

## 2.5 Ton CFM 1000

### Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	3.9	1.4	3.1	60	26.0	18.7	84.1	2.07	3.68	22.8	18.7	81.1	2.05	3.2	3.72
				70	25.3	17.6	93.4	2.18	3.39	21.9	17.7	90.3	2.14	3.3	3.45
				80	24.5	16.6	102.7	2.29	3.13	21.0	16.6	99.5	2.24	3.4	3.20
	5.4	2.5	5.8	60	26.8	19.5	84.8	2.09	3.75	23.5	19.5	81.7	2.05	3.3	3.84
				70	26.1	18.3	94.1	2.21	3.46	22.6	18.4	90.9	2.16	3.4	3.54
				80	25.4	17.2	103.5	2.32	3.21	21.8	17.3	100.2	2.27	3.6	3.28
	7.0	4.1	9.4	60	27.2	19.8	85.1	2.09	3.80	23.8	20.0	82.0	2.05	3.4	3.89
				70	26.4	18.7	94.5	2.20	3.52	22.9	16.1	91.2	2.16	3.5	3.59
				80	25.7	17.6	103.8	2.31	3.26	22.1	17.7	100.5	2.27	3.6	3.32
50	3.9	1.3	2.9	60	33.7	26.1	91.2	2.17	4.54	39.5	26.3	87.3	2.10	4.2	4.70
				70	32.7	24.6	100.2	2.29	4.18	38.3	24.8	96.2	2.22	4.3	4.32
				80	31.5	23.1	109.2	2.40	3.85	27.1	23.3	105.1	2.33	4.4	3.97
	5.4	2.3	5.4	60	25.1	27.3	92.5	2.21	4.65	30.7	27.6	88.4	2.14	4.4	4.80
				70	33.9	25.8	101.4	2.33	4.27	29.4	26.0	97.3	2.25	4.5	4.41
				80	32.8	24.2	110.4	2.45	3.93	28.2	24.5	106.1	2.37	4.6	4.06
	7.0	3.8	8.7	60	35.8	28.0	93.2	2.22	4.72	31.3	28.3	89.0	2.14	4.5	4.89
				70	34.7	26.4	102.1	2.34	4.34	30.1	26.8	97.8	2.27	4.6	4.48
				80	33.5	24.8	111.0	2.46	3.99	28.2	25.1	106.6	2.38	4.7	4.12
70	3.9	1.3	2.9	60	41.0	32.9	97.9	2.31	5.20	35.9	33.3	93.2	2.20	5.1	5.45
				70	39.5	31.0	106.6	2.43	4.77	34.3	31.4	101.7	2.32	5.2	4.99
				80	38.1	29.1	115.2	2.55	4.38	32.7	29.6	110.3	2.44	5.3	4.58
	5.4	2.3	5.2	60	43.0	34.7	99.8	2.38	5.30	37.7	35.2	94.9	2.27	5.4	5.56
				70	41.5	32.7	108.4	2.50	4.86	36.0	33.2	103.3	2.39	5.5	5.09
				80	40.0	30.7	117.0	2.63	4.45	34.3	31.2	111.8	2.51	5.6	4.67
	7.0	3.6	8.3	60	44.2	35.7	100.9	2.40	5.39	38.7	36.3	95.8	2.29	5.5	5.67
				70	42.6	33.7	109.4	2.53	4.93	36.9	34.3	104.2	2.41	5.6	5.18
				80	41.0	31.7	117.9	2.66	4.52	35.2	32.2	112.6	2.53	5.8	4.75
90	3.9	1.2	2.7	60	47.2	38.8	103.7	2.29	6.04	41.3	39.5	98.3	2.28	5.9	6.08
				70	45.5	36.5	112.1	2.59	5.15	39.5	37.3	106.5	2.40	6.0	5.55
				80	43.7	34.4	120.5	2.66	4.81	37.6	35.0	114.8	2.52	6.1	5.08
	5.4	2.1	4.8	60	49.9	41.1	160.2	2.51	5.82	43.7	42.0	100.5	2.36	6.2	6.19
				70	48.1	38.8	114.5	2.65	5.32	41.7	39.6	108.6	2.49	6.4	5.66
				80	46.2	36.5	122.8	2.78	4.87	39.7	37.2	116.8	2.62	6.5	5.17
	7.0	3.3	7.7	60	51.6	42.6	107.8	2.55	5.92	45.2	43.5	101.8	2.39	6.4	6.31
				70	49.6	40.2	115.9	2.69	5.42	43.1	41.1	109.9	2.53	6.6	5.76
				80	47.7	37.8	124.1	2.82	4.95	41.0	38.6	117.9	2.65	6.7	5.26

# GSC030 with GSE030

## 2.5 Ton CFM 1000

### Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	3.9	1.3	3.0	75/63	33.7	23.5	39.6	1.68	20.0	33.7	23.6	39.6	1.65	2.8	20.4
				80/67	36.6	24.5	42.2	1.72	21.3	36.6	24.5	42.1	1.68	2.9	21.8
				85/71	39.5	25.5	44.7	1.75	22.5	39.5	25.5	44.7	1.72	3.0	23.0
	5.4	2.3	5.4	75/63	34.0	23.7	39.8	1.61	21.2	34.0	23.8	39.8	1.58	2.7	21.5
				80/67	36.9	24.7	42.3	1.64	22.5	36.9	24.8	42.3	1.62	2.8	22.8
				85/71	39.9	25.7	44.8	1.67	23.9	39.9	25.7	44.8	1.65	2.8	24.2
	7.0	3.8	8.7	75/63	34.4	23.7	40.0	1.56	22.0	34.4	23.8	40.0	1.55	2.6	22.1
				80/67	37.3	24.7	42.5	1.59	23.5	37.3	24.8	42.5	1.58	2.6	23.6
				85/71	40.3	25.7	45.0	1.62	24.8	40.3	25.7	45.1	1.61	2.7	25.0
70	3.9	1.3	2.9	75/63	31.6	23.1	38.6	2.02	15.6	31.8	23.2	38.7	1.97	4.1	16.1
				80/67	34.3	24.0	41.0	2.07	16.6	34.5	24.1	41.1	2.01	4.2	17.2
				85/71	37.1	25.0	43.5	2.10	17.6	37.3	25.1	43.6	2.06	4.4	18.1
	5.4	2.3	5.2	75/63	32.1	23.3	38.7	1.92	16.7	32.2	23.4	38.9	1.89	3.9	17.1
				80/67	34.8	24.3	41.2	1.96	17.7	35.0	24.4	41.4	1.93	4.1	18.1
				85/71	37.6	25.3	43.7	2.00	18.8	37.8	25.4	43.9	1.96	4.1	19.3
	7.0	3.6	8.3	75/63	32.3	23.3	38.9	1.86	17.3	32.5	23.4	39.1	1.85	3.7	17.5
				80/67	35.2	24.3	41.4	1.90	18.5	35.4	24.4	41.6	1.89	3.9	18.7
				85/71	38.0	25.3	43.9	1.94	19.6	38.2	25.4	44.1	1.92	4.0	19.8
90	3.9	1.2	2.7	75/63	28.7	22.1	37.1	2.50	11.5	29.0	22.3	37.3	2.42	5.4	12.0
				80/67	31.2	23.0	39.5	2.55	12.3	31.5	23.2	39.6	2.47	5.5	12.7
				85/71	33.7	24.0	41.9	2.59	13.0	34.1	24.1	42.1	2.52	5.7	13.5
	5.4	2.1	4.8	75/63	29.3	22.3	37.3	2.35	12.5	29.6	22.5	37.5	2.30	5.2	12.8
				80/67	31.9	23.3	39.7	2.41	13.2	32.2	23.4	39.9	2.35	5.3	13.7
				85/71	34.4	24.2	42.1	2.44	14.1	34.8	24.4	42.3	2.40	5.5	14.5
	7.0	3.4	7.7	75/63	29.6	22.3	37.4	2.29	12.9	29.9	22.5	37.7	2.26	5.0	13.2
				80/67	32.2	23.3	39.8	2.33	13.8	32.5	23.4	40.1	2.31	5.1	14.1
				85/71	34.8	24.2	42.2	2.39	14.6	35.1	24.4	42.5	2.35	5.3	15.0
110	3.9	1.1	2.6	75/63	25.1	20.8	35.3	3.11	8.1	25.5	20.9	33.5	3.02	6.6	8.4
				80/67	27.2	21.6	37.6	3.15	8.6	27.7	21.8	37.8	3.07	6.8	9.0
				85/71	29.4	22.4	39.8	3.23	9.1	29.9	22.7	40.0	3.12	7.1	9.6
	5.4	2.1	4.8	75/63	25.7	21.0	35.5	2.91	8.8	26.1	21.1	35.7	2.87	6.4	9.1
				80/67	28.0	21.8	37.7	2.98	9.4	28.4	22.0	38.0	2.91	6.6	9.8
				85/71	30.2	22.7	40.0	3.06	9.9	30.7	22.9	40.3	2.97	6.8	10.4
	7.0	3.3	7.6	75/63	26.0	21.0	35.5	2.85	9.1	26.4	21.1	35.8	2.81	6.2	9.4
				80/67	28.2	21.8	37.7	2.89	9.8	28.7	22.0	38.1	2.88	6.4	10.0
				85/71	30.5	22.7	40.0	2.94	10.4	31.0	22.9	40.4	2.91	6.6	10.6



# GSC036 with GSE036

## 3.0 Ton CFM 1200

### Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	5.0	1.8	4.2	60	30.2	21.7	83.3	2.47	3.58	26.5	21.7	80.4	2.45	3.8	3.62
				70	29.4	20.4	92.7	2.61	3.30	25.5	20.5	89.7	2.56	3.9	3.36
				80	28.4	19.2	101.9	2.73	3.05	24.4	19.3	98.9	2.68	4.0	3.11
	7.0	3.4	7.8	60	31.1	22.6	84.0	2.50	3.65	27.3	22.7	81.0	2.45	3.9	3.73
				70	30.3	21.3	93.4	2.63	3.37	26.3	21.4	90.3	2.58	4.0	3.44
				80	29.4	20.0	102.7	2.77	3.12	25.3	20.1	99.5	2.70	4.1	3.19
	9.0	5.4	12.5	60	31.5	23.0	84.3	2.50	3.70	27.6	23.2	81.3	2.44	3.9	3.78
				70	30.7	21.8	93.7	2.63	3.42	26.6	18.7	90.6	2.58	4.1	3.49
				80	29.9	20.4	103.1	2.76	3.17	25.7	20.5	99.8	2.71	4.2	3.23
50	5.0	1.7	3.9	60	39.1	30.3	90.2	2.59	4.42	34.2	30.6	86.4	2.51	4.9	4.57
				70	37.9	28.5	99.3	2.73	4.07	32.9	28.8	95.4	2.65	5.0	4.20
				80	36.6	26.8	108.3	2.86	3.75	31.5	27.1	104.3	2.78	5.1	3.86
	7.0	3.1	7.2	60	40.7	31.7	91.4	2.64	4.52	35.7	32.1	87.5	2.56	5.1	4.67
				70	39.4	30.0	100.4	2.78	4.15	34.2	30.2	96.4	2.69	5.2	4.29
				80	38.1	28.1	109.4	2.93	3.82	32.8	28.4	105.3	2.83	5.4	3.95
	9.0	5.0	11.6	60	41.6	32.6	92.1	2.65	4.59	36.4	32.8	88.1	2.56	5.2	4.76
				70	40.2	30.7	101.1	2.79	4.22	34.9	31.1	96.9	2.70	5.3	4.36
				80	38.9	28.9	110.0	2.94	3.88	33.4	29.2	105.8	2.84	5.5	4.01
70	5.0	1.7	3.9	60	47.6	38.2	96.7	2.76	5.06	41.6	38.7	92.1	2.63	5.9	5.30
				70	45.9	36.0	105.4	2.90	4.64	39.8	36.5	100.7	2.77	6.1	4.85
				80	44.2	33.8	114.1	3.04	4.26	38.0	34.4	109.3	2.91	6.2	4.45
	7.0	3.0	6.9	60	49.9	40.2	98.5	2.84	5.16	43.7	40.9	93.7	2.70	6.2	5.41
				70	48.2	38.0	107.2	2.99	4.73	41.8	38.5	102.3	2.85	6.4	4.95
				80	46.4	35.7	115.8	3.14	4.33	39.9	36.2	110.8	2.99	6.5	4.54
	9.0	4.8	11.1	60	51.3	41.5	99.6	2.87	5.24	44.9	42.2	94.7	2.73	6.4	5.51
				70	49.4	39.1	108.1	3.02	4.80	42.9	39.8	103.1	2.87	6.5	5.04
				80	47.6	36.8	116.7	3.17	4.40	40.9	37.4	111.6	3.02	6.7	4.62
90	5.0	1.6	3.6	60	54.8	45.1	102.3	2.73	5.88	48.0	45.9	97.0	2.72	6.8	5.91
				70	52.8	42.4	110.8	3.09	5.01	45.8	43.3	105.4	2.87	7.0	5.40
				80	50.8	39.9	119.2	3.18	4.68	43.7	40.7	113.7	3.01	7.1	4.94
	7.0	2.8	6.4	60	58.0	47.8	104.7	3.00	5.66	50.7	48.7	99.2	2.82	7.2	6.02
				70	55.9	45.1	113.1	3.16	5.18	48.5	46.0	107.4	2.97	7.4	5.50
				80	53.7	42.4	121.4	3.32	4.74	46.1	43.2	115.6	3.13	7.5	5.03
	9.0	4.4	10.3	60	59.9	49.4	106.2	3.05	5.76	52.4	50.5	100.5	2.86	7.5	6.14
				70	57.6	46.7	114.5	3.20	5.27	50.0	47.7	108.6	3.01	7.6	5.60
				80	55.3	43.9	122.7	3.37	4.82	47.6	44.8	116.7	3.17	7.8	5.12

# GSC036 with GSE036

## 3.0 Ton CFM 1200

### Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	5.0	1.7	4.0	75/63	39.1	27.3	46.0	2.01	19.5	39.1	27.4	46.0	1.97	3.3	19.9
				80/67	42.5	28.4	49.0	2.05	20.7	42.5	28.5	48.9	2.01	3.4	21.2
				85/71	45.9	29.6	51.9	2.09	21.9	45.9	29.6	51.9	2.05	3.5	22.4
	7.0	3.1	7.2	75/63	39.5	27.6	46.2	1.92	20.6	39.5	27.6	46.2	1.89	2.1	20.9
				80/67	42.9	28.7	49.1	1.96	21.9	42.9	28.7	49.2	1.93	3.2	22.2
				85/71	46.3	29.8	52.1	2.00	23.2	46.3	29.9	52.1	1.97	3.3	23.5
	9.0	5.0	11.6	75/63	39.9	27.6	46.4	1.86	21.5	39.9	27.6	46.4	1.85	3.0	21.5
				80/67	43.4	28.7	49.4	1.90	22.8	43.4	28.7	49.4	1.89	3.1	22.9
				85/71	46.8	29.8	52.3	1.94	24.2	46.8	29.9	52.4	1.92	3.1	24.3
70	5.0	1.7	3.9	75/63	36.7	26.8	44.8	2.41	15.2	36.9	26.9	44.9	2.35	4.7	15.7
				80/67	39.8	27.9	47.6	2.47	16.1	40.0	28.0	47.7	2.40	4.9	16.7
				85/71	43.0	29.0	50.5	2.51	17.2	43.3	29.1	50.6	2.46	5.1	17.6
	7.0	3.0	6.9	75/63	37.2	27.1	45.0	2.29	16.2	37.4	27.2	45.1	2.26	4.6	16.6
				80/67	40.5	28.2	47.9	2.34	17.3	40.4	28.3	48.0	2.31	4.7	17.6
				85/71	43.7	29.3	50.8	2.39	18.3	43.9	29.5	50.9	2.34	4.8	18.7
	9.0	4.8	11.1	75/63	37.6	27.1	45.2	2.22	16.9	37.8	27.2	45.4	2.21	4.3	17.1
				80/67	40.9	28.2	48.1	2.27	18.0	41.1	28.3	48.3	2.26	4.5	18.2
				85/71	44.1	29.3	50.9	2.32	19.0	44.3	29.5	51.2	2.30	4.7	19.3
90	5.0	1.6	3.6	75/63	33.4	25.7	43.1	2.98	11.2	33.7	25.9	43.3	2.89	6.3	11.7
				80/67	36.3	26.8	45.9	3.04	11.9	36.6	27.0	46.0	2.95	6.4	12.4
				85/71	39.2	27.9	48.7	3.09	12.7	39.5	28.0	48.8	3.01	6.6	13.2
	7.0	2.8	6.4	75/63	34.0	26.0	43.4	2.81	12.1	34.3	26.2	43.6	2.75	6.0	12.5
				80/67	37.0	27.1	46.1	2.87	12.9	37.3	27.2	46.3	2.80	6.2	13.3
				85/71	40.0	28.1	48.8	2.92	13.7	40.4	28.3	49.2	2.87	6.3	14.1
	9.0	4.5	10.3	75/63	34.4	26.0	43.4	2.73	12.6	34.7	26.2	43.8	2.70	5.8	12.9
				80/67	37.4	27.1	46.2	2.78	13.4	37.8	27.2	46.6	2.75	5.9	13.7
				85/71	40.4	28.1	49.0	2.85	14.2	40.8	28.3	49.4	2.80	6.1	14.5
110	5.0	1.5	3.5	75/63	39.1	24.1	41.0	3.71	7.8	29.6	24.3	41.2	3.60	7.7	8.2
				80/67	31.6	25.1	43.7	3.76	8.4	32.1	25.3	43.8	3.66	7.9	8.8
				85/71	34.2	26.0	46.3	3.86	8.9	34.7	26.3	46.4	3.73	8.2	9.3
	7.0	2.8	6.4	75/63	29.8	24.3	41.2	3.48	8.6	30.3	24.5	41.4	3.42	7.5	8.9
				80/67	32.5	25.3	43.8	3.55	9.1	33.0	25.5	44.1	3.47	7.7	9.5
				85/71	35.1	26.4	46.4	3.65	9.6	35.6	26.6	46.7	3.54	7.9	10.1
	9.0	4.4	10.1	75/63	30.1	24.3	41.2	3.40	8.9	30.7	24.5	41.6	3.35	7.1	9.1
				80/67	32.8	25.3	43.8	3.45	9.5	33.4	25.5	44.2	3.44	7.4	9.7
				85/71	35.4	26.4	46.4	3.51	10.1	36.0	26.6	46.9	3.48	7.6	10.4

# GTC036 with GSE036

## 3.0 Ton CFM 1300

### High Capacity/Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	5.0	1.8	4.2	60	30.0	21.6	81.4	2.46	3.58	26.3	21.6	78.7	2.43	3.7	3.62
				70	29.2	20.3	90.8	2.59	3.30	25.3	20.4	88.0	2.55	3.9	3.36
				80	28.3	19.1	100.1	2.72	3.05	24.3	19.2	97.3	2.66	4.0	3.11
	7.0	3.4	7.8	60	31.0	22.5	82.1	2.49	3.65	27.1	22.5	79.3	2.43	3.9	3.73
				70	30.1	21.1	91.4	2.62	3.37	26.1	21.3	88.6	2.56	4.0	3.44
				80	29.3	19.9	100.9	2.75	3.12	25.2	20.0	97.9	2.69	4.1	3.19
	9.0	5.4	12.5	60	31.4	22.9	82.3	2.48	3.70	27.5	23.0	79.6	2.43	3.9	3.78
				70	30.5	21.6	91.8	2.62	3.42	26.5	18.6	88.9	2.56	4.0	3.49
				80	29.7	20.3	101.2	2.75	3.17	25.5	20.4	98.2	2.69	4.2	3.23
50	5.0	1.7	3.9	60	38.9	30.1	87.7	2.58	4.42	34.0	30.4	84.2	2.49	4.8	4.57
				70	37.7	28.4	96.9	2.72	4.07	32.7	28.6	93.3	2.63	5.0	4.20
				80	36.4	26.7	105.9	2.85	3.75	31.3	26.9	102.3	2.76	5.1	3.86
	7.0	3.1	7.2	60	40.5	31.5	88.9	2.63	4.52	35.5	31.9	85.3	2.54	5.0	4.67
				70	39.5	29.8	97.9	2.77	4.15	34.0	30.0	94.2	2.68	5.2	4.29
				80	37.9	27.9	107.0	2.91	3.82	32.6	28.3	103.2	2.81	5.3	3.95
	9.0	5.0	11.6	60	41.3	32.4	89.4	2.64	4.59	36.2	32.7	85.8	2.54	5.1	4.76
				70	40.0	30.5	98.5	2.78	4.22	34.7	30.9	94.7	2.69	5.3	4.36
				80	38.7	28.7	107.5	2.92	3.88	33.2	29.0	103.7	2.82	5.4	4.01
70	5.0	1.7	3.9	60	47.3	38.0	93.7	2.74	5.06	41.4	38.5	89.5	2.61	5.9	5.30
				70	45.6	35.8	102.5	2.88	4.64	39.6	36.3	98.2	2.76	6.0	4.85
				80	43.9	33.6	111.3	3.02	4.26	37.8	34.2	106.9	2.89	6.2	4.45
	7.0	3.0	6.9	60	49.7	40.0	95.4	2.82	5.16	43.5	40.7	91.0	2.69	6.2	5.41
				70	47.9	37.8	104.1	2.97	4.73	41.6	38.3	99.6	2.84	6.3	4.95
				80	46.1	35.5	112.9	3.12	4.33	39.7	36.0	108.3	2.98	6.5	4.54
	9.0	4.8	11.1	60	51.0	41.3	96.3	2.85	5.24	44.7	42.0	91.8	2.71	6.4	5.51
				70	49.2	38.9	105.0	3.00	4.80	42.7	39.6	100.4	2.86	6.5	5.04
				80	47.3	36.6	113.7	3.15	4.40	40.7	37.2	109.0	3.00	6.6	4.62
90	5.0	1.6	3.6	60	54.5	44.8	98.8	2.72	5.88	47.7	45.7	94.0	2.70	6.8	5.91
				70	52.5	42.2	107.4	3.07	5.01	45.6	43.0	102.5	2.85	6.9	5.40
				80	50.5	39.7	116.0	3.16	4.68	43.4	40.4	110.9	3.00	7.1	4.94
	7.0	2.8	6.4	60	57.6	47.5	101.1	2.98	5.66	50.5	48.4	95.9	2.80	7.2	6.02
				70	55.5	44.8	109.6	3.14	5.18	48.2	45.7	104.3	2.96	7.3	5.50
				80	53.4	42.1	118.0	3.30	4.74	45.9	43.0	112.7	3.11	7.5	5.03
	9.0	4.4	10.3	60	59.6	49.2	102.4	3.03	5.76	52.2	50.2	97.1	2.84	7.4	6.14
				70	57.3	46.4	110.8	3.19	5.27	49.7	47.4	105.4	3.00	7.6	5.60
				80	55.0	43.6	119.2	3.35	4.82	47.3	44.6	113.7	3.15	7.7	5.12

# GTC036 with GSE036

## 3.0 Ton CFM 900

### Low Capacity/Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	2.8	1.2	2.7	60	20.1	14.4	80.6	1.31	4.47	17.6	14.4	78.1	1.30	2.5	4.53
				70	19.5	13.6	90.1	1.38	4.12	16.9	13.6	87.4	1.36	2.6	4.20
				80	18.9	12.8	99.4	1.45	3.81	16.2	12.8	96.7	1.42	2.7	3.89
	3.9	2.2	5.0	60	20.7	15.0	81.3	1.33	4.56	18.1	15.0	78.6	1.30	2.6	4.66
				70	20.1	14.1	90.7	1.40	4.21	17.4	14.2	87.9	1.37	2.7	4.30
				80	19.6	13.3	100.1	1.47	3.90	16.8	13.4	97.3	1.44	2.7	3.99
	5.0	3.5	8.1	60	20.9	15.3	81.5	1.33	4.62	18.3	15.4	78.9	1.30	2.6	4.73
				70	20.4	14.5	91.0	1.40	4.28	17.7	12.4	88.2	1.37	2.7	4.36
				80	19.8	13.6	100.4	1.47	3.96	17.1	13.6	97.5	1.44	2.8	4.04
50	2.8	1.1	2.5	60	26.0	20.1	86.7	1.38	5.53	22.7	20.3	83.4	1.33	3.2	5.72
				70	25.2	18.9	95.9	1.45	5.09	21.8	19.1	92.5	1.40	3.3	5.25
				80	24.3	17.8	105.0	1.52	4.69	20.9	18.0	101.5	1.48	3.4	4.83
	3.9	2.0	4.7	60	27.1	21.1	87.8	1.40	5.65	23.7	21.3	84.4	1.36	3.4	5.84
				70	26.2	19.9	96.9	1.48	5.19	22.7	20.1	93.4	1.43	3.5	5.36
				80	25.3	18.7	106.0	1.55	4.78	21.8	18.9	102.4	1.50	3.6	4.94
	5.0	3.3	7.6	60	27.6	21.6	88.4	1.41	5.74	24.2	21.8	84.9	1.36	3.4	5.95
				70	26.7	20.4	97.5	1.48	5.28	23.2	20.6	93.9	1.44	3.5	5.45
				80	25.8	19.2	106.0	1.56	4.85	22.2	19.4	102.8	1.51	3.6	5.01
70	2.8	1.1	2.5	60	31.6	25.4	92.5	1.46	6.32	27.6	25.7	88.4	1.40	3.9	6.63
				70	30.5	23.9	101.3	1.54	5.80	26.4	24.2	97.2	1.47	4.0	6.07
				80	29.3	22.5	110.2	1.61	5.32	25.2	22.8	105.9	1.55	4.1	5.57
	3.9	2.0	4.5	60	33.2	26.7	94.1	1.51	6.45	29.0	27.2	89.9	1.44	4.1	6.77
				70	32.0	25.2	102.9	1.59	5.91	27.8	25.6	98.6	1.51	4.2	6.19
				80	30.8	23.7	111.7	1.67	5.41	26.5	24.1	107.2	1.59	4.3	5.68
	5.0	3.1	7.2	60	34.1	27.6	95.0	1.52	6.55	29.8	28.0	90.7	1.45	4.2	6.89
				70	32.8	26.0	103.8	1.60	6.00	28.5	26.4	99.3	1.53	4.3	6.30
				80	31.6	24.4	112.5	1.68	5.50	27.2	24.9	107.9	1.60	4.4	5.78
90	2.8	1.0	2.3	60	36.4	29.9	97.5	1.45	7.35	31.9	30.5	92.8	1.44	4.5	7.39
				70	35.1	28.2	106.1	1.64	6.26	30.4	28.7	101.3	1.52	4.6	6.75
				80	33.7	26.5	114.7	1.69	5.85	29.0	27.0	109.8	1.60	4.7	6.18
	3.9	1.8	4.1	60	38.5	31.7	99.6	1.59	7.07	33.7	32.3	94.7	1.50	4.8	7.53
				70	37.1	29.9	108.1	1.68	6.48	32.2	30.5	103.1	1.58	4.9	6.88
				80	35.6	28.1	116.6	1.76	5.92	30.6	28.7	111.5	1.66	5.0	6.29
	5.0	2.9	6.7	60	39.8	32.8	100.9	1.62	7.20	34.8	33.5	95.8	1.52	5.0	7.68
				70	38.3	31.0	109.4	1.70	6.59	33.2	31.7	104.2	1.60	5.1	7.00
				80	36.7	29.1	117.8	1.79	6.03	31.6	29.8	112.5	1.68	5.2	6.40

# GTC036 with GSE036

## 3.0 Ton CFM 1300

### High Capacity/Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	5.0	1.7	4.0	75/63	38.9	27.2	45.8	1.99	19.5	38.9	27.2	45.8	1.96	3.3	19.9
				80/67	42.2	28.3	48.7	2.04	20.7	42.2	28.3	48.7	1.99	3.4	21.2
				85/71	45.6	29.4	51.6	2.08	21.9	45.6	29.5	51.6	2.04	3.4	22.4
	7.0	3.1	7.2	75/63	39.3	27.4	45.9	1.91	20.6	39.3	27.5	45.9	1.88	3.1	20.9
				80/67	42.6	28.5	48.8	1.95	21.9	42.6	28.6	48.9	1.92	3.2	22.2
				85/71	46.1	29.7	51.8	1.98	23.2	46.1	29.7	51.8	1.96	3.3	23.5
	9.0	5.0	11.6	75/63	39.7	27.4	46.2	1.85	21.5	39.7	27.5	46.2	1.84	3.0	21.5
				80/67	43.1	28.5	49.1	1.89	22.8	43.1	28.6	49.1	1.88	3.0	22.9
				85/71	46.6	29.7	52.0	1.93	24.2	46.6	29.7	52.1	1.91	3.1	24.3
70	5.0	1.7	3.9	75/63	36.5	26.7	44.6	2.40	15.2	36.7	26.7	44.6	2.34	4.7	15.7
				80/67	39.6	27.7	47.4	2.45	16.1	39.8	27.9	47.5	2.39	4.9	16.7
				85/71	42.8	28.9	50.3	2.49	17.2	43.0	29.0	50.3	2.44	5.0	17.6
	7.0	3.0	6.9	75/63	37.0	26.9	44.7	2.28	16.2	37.2	27.1	44.9	2.24	4.6	16.6
				80/67	40.2	28.1	47.6	2.33	17.3	40.5	28.2	47.8	2.30	4.7	17.6
				85/71	43.4	29.2	50.5	2.38	18.3	43.7	29.3	50.7	2.33	4.8	18.7
	9.0	4.8	11.1	75/63	37.3	26.9	45.0	2.21	16.9	37.6	27.1	45.1	2.20	4.3	17.1
				80/67	40.6	28.1	47.8	2.26	18.0	40.9	28.2	48.0	2.25	4.5	18.2
				85/71	43.8	29.2	50.7	2.30	19.0	44.1	29.3	50.9	2.28	4.6	19.3
90	5.0	1.6	3.6	75/63	33.2	25.6	42.9	2.96	11.2	33.5	25.8	43.0	2.87	6.2	11.7
				80/67	36.1	26.6	45.6	3.02	11.9	36.4	26.8	45.8	2.94	6.4	12.4
				85/71	38.9	27.7	48.4	3.07	12.7	39.3	27.9	48.6	2.99	6.5	13.2
	7.0	2.8	6.4	75/63	33.8	25.8	43.1	2.79	12.1	34.1	26.0	43.4	2.73	6.0	12.5
				80/67	36.8	26.9	45.8	2.86	12.9	37.1	27.1	46.1	2.78	6.1	13.3
				85/71	39.8	28.0	48.6	2.90	13.7	40.1	28.2	48.9	2.85	6.3	14.1
	9.0	4.5	10.3	75/63	34.2	25.8	43.2	2.72	12.6	34.6	26.0	43.5	2.68	5.7	12.9
				80/67	37.2	26.9	45.9	2.77	13.4	37.5	27.1	46.3	2.74	5.9	13.7
				85/71	40.2	28.0	48.7	2.83	14.2	40.5	28.2	49.1	2.79	6.1	14.5
110	5.0	1.5	3.5	75/63	28.9	24.0	40.8	3.69	7.8	29.4	24.2	40.9	3.58	7.7	8.2
				80/67	31.4	24.9	43.4	3.74	8.4	31.9	25.1	43.6	3.64	7.9	8.8
				85/71	34.0	25.9	46.0	3.84	8.9	34.6	26.2	46.2	3.70	8.1	9.3
	7.0	2.8	6.4	75/63	29.7	24.2	41.0	3.46	8.6	30.2	24.4	41.2	3.40	7.4	8.9
				80/67	32.3	25.2	43.5	3.53	9.1	32.8	25.4	43.8	3.45	7.7	9.5
				85/71	34.9	26.2	46.2	3.63	9.6	35.5	26.4	46.5	3.52	7.8	10.1
	9.0	4.4	10.1	75/63	30.0	24.2	41.0	3.38	8.9	30.5	24.4	41.3	3.33	7.1	9.1
				80/67	32.6	25.2	43.5	3.43	9.5	33.2	25.4	44.0	3.42	7.3	9.7
				85/71	35.2	26.2	46.2	3.49	10.1	35.8	26.4	46.6	3.46	7.6	10.4

# GTC036 with GSE036

## 3.0 Ton CFM 900

### Low Capacity/Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	2.8	1.1	2.6	75/63	25.9	18.1	30.6	1.00	26.0	25.9	18.2	30.6	0.98	2.2	26.5
				80/67	28.2	18.9	32.5	1.02	27.6	28.2	18.9	32.5	1.00	2.2	28.2
				85/71	30.4	19.6	34.5	1.04	29.2	30.4	19.7	34.5	1.02	2.3	29.8
	3.9	2.0	4.7	75/63	26.2	18.3	30.7	0.95	27.5	26.2	18.3	30.7	0.94	2.1	27.9
				80/67	28.5	19.0	32.6	0.97	29.2	28.5	19.1	32.6	0.96	2.1	29.6
				85/71	30.8	19.8	34.6	0.99	31.0	30.8	19.8	34.6	0.98	2.2	31.3
	5.0	3.3	7.6	75/63	26.5	18.3	30.8	0.93	28.6	26.5	18.3	30.8	0.92	2.0	28.7
				80/67	28.8	19.0	32.8	0.94	30.5	28.8	19.1	32.8	0.94	2.0	30.6
				85/71	31.1	19.8	34.7	0.97	32.2	31.1	19.8	34.8	0.96	2.1	32.5
70	2.8	1.1	2.5	75/63	24.3	17.8	29.7	1.20	20.3	24.5	17.8	29.8	1.17	3.1	20.5
				80/67	26.4	18.5	31.6	1.23	21.5	26.6	18.6	31.7	1.19	3.3	22.3
				85/71	28.6	19.3	33.5	1.25	22.9	28.7	19.3	33.6	1.22	3.4	23.5
	3.9	2.0	4.5	75/63	24.7	18.0	29.9	1.14	21.6	24.9	18.1	30.0	1.12	3.0	22.1
				80/67	26.9	18.7	31.8	1.17	23.0	27.0	18.8	31.9	1.15	3.1	23.5
				85/71	29.0	19.5	33.7	1.19	24.4	29.2	19.6	33.8	1.17	3.2	25.0
	5.0	3.1	7.2	75/63	24.9	18.0	30.0	1.11	22.5	25.1	18.1	30.1	1.10	2.9	22.8
				80/67	27.1	18.7	31.9	1.13	24.0	27.3	18.8	32.1	1.13	3.0	24.2
				85/71	29.3	19.5	33.8	1.15	25.4	29.4	19.6	34.0	1.14	3.1	25.7
90	2.8	1.0	2.3	75/63	22.2	17.1	28.6	1.48	14.9	22.4	17.2	28.7	1.44	4.2	15.5
				80/67	24.1	17.8	30.4	1.51	15.9	24.3	17.9	30.6	1.47	4.3	16.5
				85/71	26.0	18.5	32.3	1.54	16.9	26.3	18.6	32.4	1.50	4.4	17.5
	3.9	1.8	4.2	75/63	22.6	17.2	28.8	1.40	16.2	22.8	17.4	28.9	1.37	4.0	16.7
				80/67	24.6	18.0	30.6	1.43	17.2	24.8	18.1	30.8	1.39	4.1	17.8
				85/71	26.5	18.7	32.4	1.45	18.3	26.8	18.8	32.6	1.43	4.2	18.8
	5.0	2.9	6.7	75/63	22.8	17.2	28.8	1.36	16.8	23.1	17.4	29.1	1.34	3.8	17.2
				80/67	24.8	18.0	30.7	1.39	17.9	25.1	18.1	30.9	1.37	3.9	18.3
				85/71	26.8	18.7	32.5	1.42	18.9	27.1	18.8	32.8	1.40	4.1	19.4
110	2.8	1.0	2.3	75/63	19.3	16.0	27.2	1.85	10.4	19.6	16.1	27.3	1.79	5.1	10.9
				80/67	21.0	16.6	29.0	1.87	11.2	21.3	16.8	29.1	1.82	5.3	11.7
				85/71	22.7	17.3	30.7	1.92	11.8	23.1	17.5	30.8	1.86	5.4	12.4
	3.9	1.8	4.1	75/63	19.8	16.2	27.3	1.73	11.4	20.1	16.3	27.5	1.70	5.0	11.8
				80/67	21.6	16.8	29.1	1.77	12.2	21.9	16.9	29.3	1.73	5.1	12.7
				85/71	23.3	17.5	30.8	1.82	12.8	23.7	17.6	31.0	1.76	5.2	13.4
	5.0	2.8	6.6	75/63	20.0	16.2	27.3	1.69	11.8	20.3	16.3	27.6	1.67	4.7	12.2
				80/67	21.8	16.8	29.1	1.72	12.7	22.1	16.9	29.4	1.71	4.9	12.9
				85/71	23.5	17.5	30.8	1.75	13.4	23.9	17.6	31.1	1.73	5.1	13.8

# GSC042 with GSE042

## 3.5 Ton CFM 1400

### Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	6.1	1.5	3.5	60	35.3	25.3	83.3	2.89	3.58	30.9	25.4	80.4	2.85	4.4	3.62
				70	34.2	23.8	92.7	3.04	3.30	29.7	24.0	89.7	2.99	4.5	3.36
				80	33.2	22.4	101.9	3.19	3.05	28.5	22.5	98.9	3.12	4.7	3.11
	8.5	2.8	6.5	60	36.3	26.4	84.0	2.92	3.65	31.8	26.4	81.0	2.85	4.5	3.73
				70	35.3	24.8	93.4	3.07	3.37	30.7	25.0	90.3	3.01	4.7	3.44
				80	34.4	23.3	102.7	3.23	3.12	29.5	23.5	99.5	3.16	4.8	3.19
	11.0	4.5	10.4	60	36.8	26.9	84.3	2.91	3.70	32.2	27.0	81.3	2.85	4.6	3.78
				70	35.8	25.4	93.7	3.07	3.42	31.1	21.8	90.6	3.01	4.7	3.49
				80	34.9	23.8	103.1	3.22	3.17	30.0	24.0	99.8	3.16	4.9	3.23
50	6.1	1.4	3.2	60	45.6	35.3	90.2	3.02	4.42	39.9	35.6	86.4	2.92	5.7	4.57
				70	44.2	33.3	99.3	3.19	4.07	38.4	33.6	95.4	3.09	5.8	4.20
				80	42.7	31.3	108.3	3.34	3.75	36.7	31.6	104.3	3.24	6.0	3.86
	8.5	2.6	6.0	60	47.5	37.0	91.4	3.08	4.52	41.6	37.4	87.5	2.98	5.9	4.67
				70	46.0	34.9	100.4	3.25	4.15	39.9	35.3	96.4	3.14	6.1	4.29
				80	44.5	32.8	109.4	3.41	3.82	38.2	33.2	105.3	3.30	6.2	3.95
	11.0	4.2	9.7	60	48.5	38.0	92.1	3.10	4.59	42.5	38.3	88.1	2.99	6.0	4.76
				70	46.9	35.8	101.1	3.26	4.22	40.7	36.2	96.9	3.15	6.2	4.36
				80	45.4	33.7	110.0	3.43	3.88	39.0	34.1	105.8	3.31	6.4	4.01
70	6.1	1.4	3.2	60	55.5	44.6	96.7	3.21	5.06	48.6	45.2	92.1	3.07	6.9	5.30
				70	53.5	42.0	105.4	3.38	4.64	46.4	42.6	100.7	3.23	7.1	4.85
				80	51.6	39.5	114.1	3.55	4.26	44.3	40.1	109.3	3.39	7.2	4.45
	8.5	2.5	5.8	60	58.3	47.0	98.5	3.31	5.16	51.0	47.7	93.7	3.16	7.3	5.41
				70	56.2	44.3	107.2	3.48	4.73	48.8	45.0	102.3	3.33	7.4	4.95
				80	54.1	41.6	115.8	3.66	4.33	46.5	42.3	110.8	3.49	7.6	4.54
	11.0	4.0	9.2	60	59.8	48.4	99.6	3.35	5.24	52.4	49.2	94.7	3.18	7.5	5.51
				70	57.7	45.7	108.1	3.52	4.80	50.1	46.4	103.1	3.35	7.6	5.04
				80	55.5	42.9	116.7	3.70	4.40	47.7	43.7	111.6	3.52	7.8	4.62
90	6.1	1.3	3.0	60	64.0	52.6	102.3	3.19	5.88	56.0	53.6	97.0	3.17	8.0	5.91
				70	61.6	49.5	110.8	3.61	5.01	53.5	50.5	105.4	3.34	8.1	5.40
				80	59.3	46.6	119.2	3.71	4.68	50.9	47.4	113.7	3.51	8.3	4.94
	8.5	2.3	5.3	60	67.6	55.7	104.7	3.50	5.66	59.2	56.8	99.2	3.29	8.4	6.02
				70	65.2	52.6	113.1	3.69	5.18	56.5	53.7	107.4	3.47	8.6	5.50
				80	62.6	49.4	121.4	3.87	4.74	53.8	50.4	115.6	3.65	8.8	5.03
	11.0	3.7	8.5	60	69.9	57.7	106.2	3.56	5.76	61.2	58.9	100.5	3.33	8.7	6.14
				70	67.2	54.4	114.5	3.74	5.27	58.3	55.7	108.6	3.52	8.9	5.60
				80	64.6	51.2	122.7	3.93	4.82	55.5	52.3	116.7	3.69	9.1	5.12

# GSC042 with GSE042

## 3.5 Ton CFM 1400

### Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	6.1	1.5	3.3	75/63	45.6	31.9	53.7	2.34	19.5	45.6	31.9	53.7	2.30	3.8	19.9
				80/67	49.6	33.2	57.2	2.39	20.7	49.6	33.2	57.1	2.34	3.9	21.2
				85/71	53.5	34.5	60.6	2.44	21.9	53.5	34.6	60.6	2.39	4.0	22.4
	8.5	2.6	6.0	75/63	46.1	32.2	53.9	2.24	20.6	46.1	32.2	53.9	2.21	3.7	20.9
				80/67	50.0	33.5	57.3	2.28	21.9	50.0	33.5	57.4	2.25	3.7	22.2
				85/71	54.1	34.8	60.7	2.33	23.2	54.1	34.9	60.8	2.30	3.8	23.5
	11.0	4.2	9.7	75/63	46.5	32.2	54.2	2.17	21.5	46.5	32.2	54.2	2.16	3.5	21.5
				80/67	50.6	33.5	57.6	2.21	22.8	50.6	33.5	57.6	2.20	3.6	22.9
				85/71	54.6	34.8	61.0	2.26	24.2	54.6	34.9	61.1	2.24	3.6	24.3
70	6.1	1.4	3.2	75/63	42.8	31.3	52.3	2.81	15.2	40.3	31.4	52.4	2.75	5.5	15.7
				80/67	46.4	32.5	55.6	2.88	16.1	46.7	32.7	55.7	2.80	5.7	16.7
				85/71	50.2	33.8	59.0	2.93	17.2	50.5	34.0	59.1	2.86	5.9	17.6
	8.5	2.5	5.8	75/63	43.4	31.6	52.5	2.68	16.2	43.7	31.7	52.7	2.63	5.3	16.6
				80/67	47.2	32.9	55.9	2.74	17.3	47.5	33.1	56.0	2.69	5.5	17.6
				85/71	51.0	34.2	59.2	2.79	18.3	51.3	34.4	59.4	2.73	5.6	18.7
	11.0	4.0	9.2	75/63	43.8	31.6	52.7	2.60	16.9	44.1	31.7	52.9	2.58	5.1	17.1
				80/67	47.7	32.9	56.1	2.65	18.0	47.9	33.1	56.3	2.64	5.2	18.2
				85/71	51.4	34.2	59.4	2.70	19.0	51.7	34.4	59.7	2.68	5.4	19.3
90	6.1	1.3	3.0	75/63	38.9	30.0	50.3	3.48	11.2	39.3	30.2	50.5	3.37	7.3	11.7
				80/67	42.3	31.2	53.5	3.54	11.9	42.7	31.5	53.7	3.44	7.5	12.4
				85/71	45.7	32.5	56.8	3.60	12.7	46.1	32.7	57.0	3.51	7.7	13.2
	8.5	2.3	5.4	75/63	39.7	30.3	50.6	3.27	12.1	40.1	30.5	50.9	3.21	7.0	12.5
				80/67	43.2	31.6	53.8	3.35	12.9	43.6	31.7	54.1	3.27	7.2	13.3
				85/71	46.6	32.8	57.0	3.40	13.7	47.1	33.1	57.4	3.34	7.4	14.1
	11.0	3.7	8.6	75/63	40.1	30.3	50.7	3.19	12.6	40.5	30.5	51.1	3.15	6.7	12.9
				80/67	43.6	31.6	53.9	3.25	13.4	44.0	31.7	54.3	3.21	6.9	13.7
				85/71	47.1	32.8	57.2	3.32	14.2	47.6	33.1	57.6	3.27	7.1	14.5
110	6.1	1.3	2.9	75/63	33.9	28.1	47.9	4.33	7.8	34.5	28.4	48.0	4.21	9.0	8.2
				80/67	36.9	29.2	51.0	4.39	8.4	37.5	29.5	51.1	4.28	9.3	8.8
				85/71	39.9	30.4	54.0	4.50	8.9	40.5	30.7	54.2	4.35	9.6	9.3
	8.5	2.3	5.3	75/63	34.8	28.4	48.0	4.05	8.6	35.4	28.6	48.3	3.99	8.7	8.9
				80/67	37.9	29.5	51.1	4.15	9.1	38.5	29.8	51.4	4.05	9.0	9.5
				85/71	40.9	30.7	54.2	4.26	9.6	41.6	31.0	54.5	4.13	9.2	10.1
	11.0	3.7	8.4	75/63	35.2	28.4	48.0	3.97	8.9	35.8	28.6	48.5	3.91	8.3	9.1
				80/67	38.3	29.5	51.1	4.02	9.5	38.9	29.8	51.6	4.01	8.6	9.7
				85/71	41.3	30.7	54.2	4.10	10.1	42.0	31.0	54.7	4.05	8.9	10.4



# GSC048 with GSE048

## 4.0 Ton CFM 1700

### Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	7.2	2.2	5.0	60	42.8	30.7	83.3	3.60	3.48	37.5	30.8	80.4	3.56	5.3	3.52
				70	41.6	28.9	92.7	3.80	3.21	36.1	29.1	89.7	3.73	5.5	3.27
				80	40.3	27.3	101.9	3.98	2.97	34.6	27.3	98.9	3.90	5.7	3.03
	10.1	4.0	9.3	60	44.1	32.0	84.0	3.64	3.55	38.6	32.1	81.0	3.56	5.5	3.63
				70	42.9	30.1	93.4	3.84	3.28	37.2	30.3	90.3	3.76	5.7	3.35
				80	41.7	28.3	102.7	4.03	3.03	35.9	28.5	99.5	3.94	5.9	3.10
	13.0	6.5	15.0	60	44.7	32.6	84.3	3.64	3.60	39.1	32.8	81.3	3.56	5.6	3.68
				70	43.5	30.8	93.7	3.83	3.33	37.8	26.5	90.6	3.76	5.8	3.39
				80	42.3	28.9	103.1	4.03	3.08	36.4	29.1	99.8	3.95	5.9	3.14
50	7.2	2.0	4.7	60	55.4	42.9	90.2	3.78	4.30	48.5	43.3	86.4	3.65	6.9	4.45
				70	53.7	40.4	99.3	3.98	3.96	46.6	40.8	95.4	3.85	7.1	4.09
				80	51.9	38.0	108.3	4.17	3.65	44.6	38.4	104.3	4.05	7.3	3.75
	10.1	3.7	8.6	60	57.7	44.9	91.4	3.85	4.39	50.5	45.5	87.5	3.72	7.2	4.54
				70	55.8	42.4	100.4	4.05	4.03	48.4	42.8	96.4	3.92	7.4	4.17
				80	54.0	39.8	109.4	4.26	3.71	46.4	40.3	105.3	4.12	7.6	3.84
	13.0	6.0	14.0	60	58.9	46.1	92.1	3.87	4.46	51.6	46.5	88.1	3.73	7.3	4.63
				70	57.0	43.5	101.1	4.07	4.10	49.5	44.0	96.9	3.94	7.5	4.24
				80	55.1	40.9	110.0	4.28	3.77	47.3	41.4	105.8	4.14	7.7	3.90
70	7.2	2.0	4.7	60	67.4	54.1	96.7	4.01	4.92	59.0	54.8	92.1	3.83	8.4	5.16
				70	65.0	51.0	105.4	4.22	4.51	56.4	51.7	100.7	4.04	8.6	4.72
				80	62.6	47.9	114.1	4.43	4.14	53.8	48.7	109.3	4.24	8.8	4.33
	10.1	3.6	8.3	60	70.8	57.0	98.5	4.13	5.02	61.9	58.0	93.7	3.94	8.8	5.26
				70	68.2	53.8	107.2	4.35	4.60	59.2	54.6	102.3	4.15	9.0	4.81
				80	65.7	50.5	115.8	4.58	4.21	56.5	51.3	110.8	4.36	9.2	4.42
	13.0	5.8	13.3	60	72.7	58.8	99.6	4.18	5.09	63.6	59.8	94.7	3.97	9.0	5.36
				70	70.0	55.5	108.1	4.40	4.67	60.8	56.4	103.1	4.19	9.3	4.90
				80	67.4	52.1	116.7	4.62	4.28	57.9	53.0	111.6	4.40	9.5	4.49
90	7.2	1.9	4.3	60	77.7	63.8	102.3	3.98	5.72	68.0	65.1	97.0	3.96	9.7	5.75
				70	74.8	60.1	110.8	4.50	4.87	64.9	61.3	105.4	4.18	9.9	5.25
				80	72.0	56.5	119.2	4.63	4.55	61.9	57.6	113.7	4.39	10.1	4.80
	10.1	3.3	7.7	60	82.1	67.7	104.7	4.37	5.50	71.9	69.0	99.2	4.11	10.2	5.86
				70	79.1	63.8	113.1	4.60	5.04	68.7	65.2	107.4	4.33	10.5	5.35
				80	76.0	60.0	121.4	4.83	4.61	65.3	61.2	115.6	4.55	10.7	4.89
	13.0	5.3	12.3	60	84.9	70.0	106.2	4.44	5.60	74.3	71.5	100.5	4.16	10.6	5.97
				70	81.6	66.1	114.5	4.67	5.12	70.8	67.6	108.6	4.39	10.8	5.45
				80	78.4	62.2	122.7	4.90	4.69	67.4	63.5	116.7	4.61	11.0	4.98

# GSC048 with GSE048

## 4.0 Ton CFM 1700

### Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	7.2	2.1	4.8	75/63	55.4	38.7	65.2	2.87	19.3	55.4	38.8	65.2	2.82	4.7	19.6
				80/67	60.2	40.3	69.4	2.94	20.5	60.2	40.4	69.3	2.87	4.8	20.9
				85/71	65.0	41.9	73.5	3.00	21.7	65.0	42.0	73.5	2.93	4.9	22.1
	10.1	3.7	8.6	75/63	55.9	39.0	65.4	2.74	20.4	55.9	39.1	61.2	2.71	4.4	20.7
				80/67	60.7	40.6	69.5	2.80	21.7	60.7	40.7	65.2	2.77	4.5	22.0
				85/71	65.6	42.2	73.8	2.86	23.0	65.6	42.3	69.0	2.82	4.7	23.2
	13.0	6.0	14.0	75/63	56.5	39.0	65.8	2.66	21.2	56.5	39.1	61.5	2.65	4.2	21.3
				80/67	61.4	40.6	70.0	2.72	22.6	61.4	40.7	65.5	2.71	4.3	22.7
				85/71	66.3	42.2	74.1	2.78	23.9	66.3	42.3	69.5	2.76	4.4	24.1
70	7.2	2.0	4.7	75/63	51.9	38.0	63.5	3.46	15.0	52.2	38.1	63.6	3.37	6.7	15.5
				80/67	56.4	39.5	67.5	3.53	16.0	56.7	39.7	67.6	3.44	6.9	16.5
				85/71	61.0	41.1	71.6	3.59	17.0	61.3	41.3	71.7	3.52	7.2	17.4
	10.1	3.6	8.3	75/63	52.7	38.4	63.7	3.29	16.0	53.1	38.5	63.9	3.23	6.5	16.4
				80/67	57.3	40.0	67.8	3.36	17.1	57.6	40.1	68.1	3.31	6.7	17.4
				85/71	61.9	41.6	71.9	3.42	18.1	62.2	41.7	72.2	3.36	6.8	18.5
	13.0	5.8	13.3	75/63	53.2	38.4	64.1	3.19	16.7	53.5	38.5	64.3	3.17	6.1	16.9
				80/67	57.9	40.0	68.2	3.25	17.8	58.2	40.1	68.4	3.24	6.4	18.0
				85/71	62.5	41.6	72.2	3.32	18.8	62.8	41.7	72.5	3.29	6.6	19.1
90	7.2	1.9	4.3	75/63	47.3	36.4	61.1	4.27	11.1	47.7	36.7	61.3	4.14	8.9	11.5
				80/67	51.4	37.9	65.0	4.35	11.8	51.9	38.2	65.2	4.23	9.1	12.3
				85/71	55.5	39.5	69.0	4.42	12.5	56.0	39.7	69.2	4.31	9.3	13.0
	10.1	3.3	7.7	75/63	48.2	36.8	61.4	4.02	12.0	48.6	37.1	61.8	3.94	8.5	12.4
				80/67	52.4	38.4	65.3	4.12	12.7	52.9	38.5	65.7	4.01	8.8	13.2
				85/71	56.6	39.8	69.2	4.18	13.6	57.2	40.1	69.7	4.11	9.0	13.9
	13.0	5.4	12.4	75/63	48.8	36.8	61.5	3.92	12.5	49.2	37.1	62.0	3.87	8.2	12.7
				80/67	53.0	38.4	65.4	3.99	13.3	53.5	38.5	66.0	3.94	8.4	13.6
				85/71	57.2	39.8	69.4	4.08	14.0	57.7	40.1	70.0	4.01	8.6	14.4
110	7.2	1.8	4.2	75/63	41.2	34.1	58.1	5.32	7.7	41.9	34.4	58.3	5.16	10.9	8.1
				80/67	44.8	35.5	61.9	5.39	8.3	45.5	35.8	62.1	5.25	11.3	8.7
				85/71	48.4	36.9	65.5	5.53	8.8	49.2	37.3	65.8	5.34	11.6	9.2
	10.1	3.3	7.7	75/63	42.2	34.5	58.3	4.98	8.5	43.0	34.8	58.7	4.90	10.6	8.8
				80/67	46.0	35.8	62.0	5.09	9.0	46.8	36.1	62.4	4.97	10.9	9.4
				85/71	49.7	37.3	65.8	5.23	9.5	50.5	37.6	66.2	5.07	11.1	10.0
	13.0	5.3	12.1	75/63	42.7	34.5	58.3	4.87	8.8	43.4	34.8	58.9	4.80	10.1	9.0
				80/67	46.5	35.8	62.0	4.94	9.4	47.3	36.1	62.7	4.93	10.5	9.6
				85/71	50.1	37.3	65.8	5.03	10.0	51.0	37.6	66.5	4.98	10.8	10.2

# GTC048 with GSE048

## 4.0 Ton CFM 1700

### High Capacity/Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	6.7	2.2	5.0	60	43.6	31.3	83.8	3.68	3.48	38.2	31.4	80.8	3.63	5.4	3.52
				70	42.4	29.5	93.1	3.87	3.21	36.8	29.7	90.0	3.80	5.6	3.27
				80	41.1	27.8	102.4	4.06	2.97	35.3	27.8	99.2	3.98	5.8	3.03
	9.3	4.0	9.3	60	45.0	32.7	84.5	3.71	3.55	39.4	32.7	81.4	3.63	5.6	3.63
				70	43.7	30.7	93.8	3.91	3.28	38.0	30.9	90.7	3.83	5.8	3.35
				80	42.5	28.9	103.2	4.11	3.03	36.6	29.1	99.9	4.02	6.0	3.10
	12.0	6.5	15.0	60	45.6	33.3	84.8	3.71	3.60	39.9	33.5	81.7	3.63	5.7	3.68
				70	44.4	31.4	94.2	3.91	3.33	38.5	27.0	91.0	3.83	5.7	3.39
				80	43.2	29.5	103.5	4.10	3.08	37.1	29.7	100.2	4.03	6.1	3.14
50	6.7	2.0	4.7	60	56.5	43.8	90.8	3.85	4.30	49.4	44.1	86.9	3.72	7.0	4.45
				70	54.8	41.2	99.8	4.06	3.96	47.5	41.6	95.9	3.93	7.2	4.09
				80	52.9	38.8	108.8	4.25	3.65	45.5	39.1	104.8	4.13	7.4	3.75
	9.3	3.7	8.6	60	58.9	45.8	92.1	3.93	4.39	51.5	46.3	88.1	3.80	7.3	4.54
				70	56.9	43.3	101.0	4.13	4.03	49.4	43.6	96.9	4.00	7.5	4.17
				80	55.1	40.6	110.0	4.35	3.71	47.4	41.1	105.8	4.20	7.7	3.84
	12.0	6.0	14.0	60	60.1	47.0	92.7	3.94	4.46	52.6	47.4	88.6	3.80	7.5	4.63
				70	58.1	44.4	101.7	4.15	4.10	50.4	44.9	97.5	4.02	7.7	4.24
				80	56.2	41.7	110.6	4.36	3.77	48.3	42.2	106.3	4.22	7.9	3.90
70	6.7	2.0	4.7	60	68.7	55.2	97.4	4.09	4.92	60.2	55.9	92.8	3.91	8.6	5.16
				70	66.3	52.0	106.1	4.31	4.51	57.5	52.7	101.3	4.12	8.8	4.72
				80	63.8	48.9	114.8	4.52	4.14	54.9	49.7	109.9	4.32	9.0	4.33
	9.3	3.6	8.3	60	72.1	58.1	99.3	4.21	5.02	63.2	59.1	94.4	4.02	9.0	5.26
				70	69.6	54.8	107.9	4.43	4.60	60.4	55.7	102.9	4.24	9.2	4.81
				80	67.0	51.5	116.5	4.67	4.21	57.6	52.4	111.4	4.45	9.4	4.42
	12.0	5.8	13.3	60	74.1	60.0	100.4	4.26	5.09	64.9	60.9	95.3	4.05	9.2	5.36
				70	71.4	56.5	108.9	4.49	4.67	62.0	57.5	103.8	4.27	9.4	4.90
				80	68.7	53.1	117.4	4.71	4.28	59.1	54.1	112.2	4.48	9.7	4.49
90	6.7	1.9	4.3	60	79.2	65.1	103.1	4.06	5.72	69.4	66.3	97.8	4.04	9.9	5.75
				70	76.3	61.3	111.6	4.59	4.87	66.2	62.5	106.1	4.26	10.1	5.25
				80	73.4	57.6	120.0	4.73	4.55	63.1	58.7	114.3	4.47	10.3	4.80
	9.3	3.3	7.7	60	83.7	69.0	105.6	4.46	5.50	73.3	70.4	99.9	4.19	10.4	5.86
				70	80.7	65.1	113.9	4.70	5.04	70.0	66.5	108.1	4.42	10.7	5.35
				80	77.5	61.2	122.2	4.93	4.61	66.6	62.4	116.3	4.64	10.9	4.89
	12.0	5.3	12.3	60	86.5	71.4	107.1	4.53	5.60	75.8	72.9	101.3	4.25	10.8	5.97
				70	83.2	67.4	115.3	4.76	5.12	72.2	68.9	109.3	4.48	11.0	5.45
				80	79.9	63.4	123.5	5.00	4.69	68.7	64.7	117.4	4.70	11.2	4.98

# GTC048 with GSE048

## 4.0 Ton CFM 1100

### Low Capacity/Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	3.9	1.4	3.2	60	29.0	20.8	84.4	1.98	4.28	25.4	20.8	81.3	1.96	3.6	4.33
				70	28.1	19.6	93.7	2.09	3.94	24.4	19.7	90.6	2.05	3.7	4.02
				80	27.3	18.4	102.9	2.19	3.64	23.4	18.5	99.7	2.15	3.8	3.72
	5.4	2.6	6.0	60	29.8	21.7	85.1	2.01	4.36	26.1	21.7	82.0	1.96	3.7	4.46
				70	29.0	20.4	94.4	2.11	4.03	25.2	20.5	91.2	2.07	3.8	4.11
				80	28.2	19.2	103.8	2.22	3.73	24.3	19.3	100.4	2.17	4.0	3.81
	7.0	4.1	9.6	60	30.2	22.1	85.4	2.00	4.42	26.5	22.2	82.3	1.96	3.8	4.52
				70	29.4	20.9	94.8	2.11	4.09	25.5	17.9	91.5	2.07	3.9	4.17
				80	28.6	19.6	104.1	2.22	3.79	24.6	19.7	100.7	2.17	4.0	3.86
50	3.9	1.3	3.0	60	37.5	29.0	91.5	2.08	5.28	37.5	29.3	87.6	2.01	4.7	5.46
				70	36.3	27.3	100.6	2.19	4.86	36.0	27.6	96.5	2.12	4.8	5.02
				80	35.1	25.7	109.6	2.30	4.48	34.5	25.9	105.4	2.23	4.9	4.61
	5.4	2.4	5.5	60	39.1	30.4	92.9	2.12	5.40	34.2	30.7	88.8	2.05	4.9	5.58
				70	37.8	28.7	101.8	2.23	4.96	32.8	29.0	97.6	2.16	5.0	5.13
				80	36.5	26.9	110.8	2.35	4.56	31.4	27.2	106.4	2.27	5.1	4.72
	7.0	3.9	8.9	60	39.8	31.2	93.5	2.13	5.48	34.9	31.5	89.4	2.05	5.0	5.69
				70	38.6	29.4	102.5	2.24	5.04	33.5	29.8	98.2	2.17	5.1	5.21
				80	37.3	27.7	111.4	2.36	4.63	32.0	28.0	107.0	2.28	5.2	4.79
70	3.9	1.3	3.0	60	45.6	36.6	98.4	2.21	6.04	39.9	37.1	93.6	2.11	5.7	6.33
				70	44.0	34.5	107.0	2.33	5.54	38.2	35.0	102.1	2.22	5.8	5.80
				80	42.3	32.4	115.6	2.44	5.09	36.4	32.9	110.6	2.33	5.9	5.32
	5.4	2.3	5.3	60	47.9	38.6	100.3	2.28	6.16	41.9	39.2	95.3	2.17	6.0	6.46
				70	46.2	36.4	108.9	2.39	5.65	40.1	36.9	103.7	2.29	6.1	5.92
				80	44.5	34.2	117.4	2.52	5.17	38.0	34.7	112.2	2.40	6.2	5.43
	7.0	3.7	8.5	60	49.2	39.8	101.4	2.30	6.26	43.0	40.4	96.2	2.19	6.1	6.58
				70	47.4	37.5	109.9	2.42	5.73	41.1	38.1	104.6	2.31	6.3	6.02
				80	45.6	35.3	118.4	2.54	5.26	39.2	35.9	113.0	2.42	6.4	5.52
90	3.9	1.2	2.8	60	52.6	43.2	104.2	2.19	7.02	46.0	44.0	98.7	2.18	6.5	7.06
				70	50.6	40.7	112.6	2.48	5.98	43.9	41.5	107.0	2.30	6.7	6.45
				80	48.7	38.2	121.0	2.55	5.59	41.8	39.0	115.2	2.42	6.8	5.90
	5.4	2.1	4.9	60	55.5	45.8	106.8	2.41	6.76	48.6	46.7	100.9	2.26	6.9	7.19
				70	53.5	43.2	115.1	2.54	6.19	46.4	44.1	109.1	2.39	7.1	6.57
				80	51.4	40.6	123.3	2.66	5.66	44.2	41.4	117.2	2.51	7.2	6.01
	7.0	3.4	7.9	60	57.4	47.4	108.3	2.45	6.88	50.3	48.4	102.3	2.29	7.1	7.34
				70	55.2	44.7	116.5	2.57	6.29	47.9	45.7	110.3	2.42	7.3	6.69
				80	53.0	42.0	124.6	2.70	5.76	45.6	42.9	118.4	2.54	7.4	6.12

# GTC048 with GSE048

## 4.0 Ton CFM 1700

### High Capacity/Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	6.7	2.1	4.8	75/63	56.5	39.5	66.5	2.96	19.1	56.5	39.5	66.5	2.91	4.5	19.4
				80/67	61.3	41.1	70.8	3.03	20.2	61.3	41.2	70.7	2.96	4.6	20.7
				85/71	66.2	42.7	75.0	3.09	21.4	66.2	42.8	75.0	3.03	4.7	21.9
	9.3	3.7	8.6	75/63	57.0	39.8	66.7	2.83	20.2	57.0	39.9	66.7	2.79	4.5	20.4
				80/67	61.9	41.4	70.9	2.89	21.4	61.9	41.5	71.0	2.85	4.6	21.7
				85/71	66.9	43.1	75.2	2.95	22.7	66.9	43.1	75.2	2.91	4.8	23.0
	12.0	6.0	14.0	75/63	57.6	39.8	67.1	2.75	21.0	57.6	39.9	67.1	2.74	4.3	21.1
				80/67	62.6	41.4	71.4	2.80	22.3	62.6	41.5	71.4	2.79	4.4	22.4
				85/71	67.6	43.1	75.6	2.86	23.6	67.6	43.1	75.7	2.84	4.5	23.8
70	6.7	2.0	4.7	75/63	53.0	38.3	64.7	3.56	14.9	53.3	38.8	64.8	3.48	6.8	15.3
				80/67	57.5	40.3	68.8	3.65	15.8	57.8	40.5	68.9	3.54	7.1	16.3
				85/71	62.2	41.9	73.0	3.70	16.8	62.5	42.1	73.1	3.63	7.3	17.2
	9.3	3.6	8.3	75/63	53.8	39.1	65.0	3.39	15.9	54.1	39.3	65.2	3.33	6.6	16.2
				80/67	58.4	40.7	69.1	3.46	16.9	58.8	40.9	69.4	3.41	6.8	17.2
				85/71	63.1	42.4	73.3	3.53	17.9	63.5	42.6	73.6	3.46	7.0	18.3
	12.0	5.8	13.3	75/63	54.2	39.1	65.3	3.29	16.5	54.6	39.3	65.5	3.27	6.3	16.7
				80/67	59.0	40.7	69.5	3.35	17.6	59.4	40.9	69.7	3.34	6.5	17.8
				85/71	63.7	42.4	73.6	3.42	18.6	64.0	42.6	73.9	3.39	6.7	18.9
90	6.7	1.9	4.3	75/63	48.2	37.1	62.3	4.40	10.9	48.7	37.4	62.5	4.27	9.0	11.4
				80/67	52.4	38.6	66.2	4.49	11.7	52.9	39.0	66.5	4.36	9.3	12.1
				85/71	56.6	40.3	70.3	4.56	12.4	57.1	40.5	70.6	4.44	9.5	12.9
	9.3	3.3	7.7	75/63	49.1	37.5	62.6	4.14	11.9	49.6	37.8	63.0	4.06	8.7	12.2
				80/67	53.4	39.1	66.6	4.25	12.6	53.9	39.3	66.9	4.14	8.9	13.0
				85/71	57.7	40.6	70.5	4.31	13.4	58.3	40.9	71.0	4.23	9.2	13.8
	12.0	5.4	12.4	75/63	49.7	37.5	62.7	4.04	12.3	50.2	37.8	63.2	3.99	8.3	12.6
				80/67	54.0	39.1	66.7	4.11	13.1	54.5	39.3	67.3	4.07	8.6	13.4
				85/71	58.3	40.6	70.8	4.21	13.9	58.9	40.9	71.4	4.14	8.8	14.2
110	6.7	1.8	4.2	75/63	42.0	34.8	59.3	5.49	7.7	42.7	35.1	59.5	5.33	11.1	8.0
				80/67	45.6	36.2	63.1	5.56	8.2	46.4	36.5	63.3	5.41	11.5	8.6
				85/71	49.4	37.6	66.8	5.70	8.7	50.2	38.0	67.1	5.50	11.8	9.1
	9.3	3.3	7.7	75/63	43.1	35.2	59.5	5.13	8.4	43.8	35.5	59.8	5.06	10.8	8.7
				80/67	46.9	36.6	63.2	5.25	8.9	47.7	36.9	63.7	5.13	11.1	9.3
				85/71	50.6	38.1	67.1	5.39	9.4	41.5	38.4	67.5	5.23	11.4	9.8
	12.0	5.3	12.1	75/63	43.5	35.2	59.5	5.03	8.7	44.3	35.5	60.1	4.95	10.3	8.9
				80/67	47.4	36.6	63.2	5.09	9.3	48.2	36.9	63.9	5.08	10.7	9.5
				85/71	51.1	38.1	67.1	5.19	9.8	52.0	38.4	67.8	5.13	11.0	10.1

# GTC048 with GSE048

## 4.0 Ton CFM 1100

### Low Capacity/Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	3.9	1.3	3.1	75/63	37.5	26.2	44.1	1.45	25.8	37.5	26.2	44.1	1.43	3.2	26.3
				80/67	40.7	27.3	47.0	1.49	27.4	40.7	27.3	46.9	1.45	3.2	28.0
				85/71	43.9	28.3	49.7	1.52	29.0	43.9	28.4	49.8	1.48	3.3	29.6
	5.4	2.4	5.5	75/63	37.8	26.4	44.3	1.39	27.3	37.8	26.5	44.3	1.37	3.0	27.6
				80/67	41.1	27.5	47.0	1.42	29.0	41.1	27.5	47.1	1.40	3.1	29.4
				85/71	44.4	28.6	49.9	1.45	30.7	44.4	28.6	49.9	1.43	3.2	31.1
	7.0	3.9	8.9	75/63	38.2	26.4	44.5	1.35	28.4	38.2	26.5	44.5	1.34	2.8	28.5
				80/67	41.6	27.5	47.3	1.38	30.2	41.6	27.5	47.4	1.37	2.9	30.3
				85/71	44.9	28.6	50.1	1.40	31.9	44.9	28.6	50.2	1.39	3.0	32.2
70	3.9	1.3	3.0	75/63	35.1	25.7	42.9	1.75	20.1	35.3	25.8	43.0	1.71	4.5	20.7
				80/67	38.2	26.7	45.6	1.79	21.3	38.4	26.8	45.7	1.74	4.7	22.1
				85/71	41.2	27.8	48.4	1.82	22.7	41.5	27.9	48.5	1.78	4.8	23.3
	5.4	2.3	5.3	75/63	35.7	26.0	43.1	1.66	21.5	35.9	26.1	43.3	1.63	4.4	22.0
				80/67	38.8	27.0	45.9	1.70	22.8	39.0	27.2	46.0	1.67	4.5	23.3
				85/71	41.9	28.1	48.7	1.73	24.2	42.1	28.2	48.8	1.70	4.6	24.8
	7.0	3.7	8.5	75/63	36.0	26.0	43.3	1.61	22.3	36.2	26.1	43.5	1.60	4.2	22.6
				80/67	39.2	27.0	46.1	1.65	23.8	39.4	27.2	46.3	1.64	4.3	24.0
				85/71	42.2	28.1	48.8	1.68	25.2	42.5	28.2	49.1	1.66	4.5	25.5
90	3.9	1.2	2.8	75/63	32.0	24.6	41.3	2.16	14.8	32.3	24.8	41.5	2.09	6.0	15.4
				80/67	34.8	25.6	43.9	2.20	15.8	35.1	25.8	44.1	2.14	6.2	16.4
				85/71	37.5	26.7	46.6	2.24	16.8	37.9	26.8	46.8	2.18	6.3	17.4
	5.4	2.1	4.9	75/63	32.6	24.9	41.6	2.03	16.0	32.9	25.1	41.8	1.99	5.8	16.5
				80/67	35.5	26.0	44.2	2.08	17.0	35.8	26.1	44.4	2.03	5.9	17.6
				85/71	38.3	27.0	46.8	2.11	17.1	38.7	27.2	47.1	2.08	6.1	18.6
	7.0	3.4	7.9	75/63	33.0	24.9	41.6	1.98	16.6	33.3	25.1	41.9	1.96	5.5	17.0
				80/67	35.8	26.0	44.3	2.02	17.8	36.2	26.1	44.6	2.00	5.7	18.1
				85/71	38.7	27.0	47.0	2.06	18.7	39.1	27.2	47.4	2.03	5.8	19.2
110	3.9	1.2	2.7	75/63	27.9	23.1	39.3	2.69	10.4	28.4	23.3	39.5	2.61	7.4	10.9
				80/67	30.3	24.0	41.9	2.73	11.1	30.8	24.2	42.0	2.66	7.6	11.6
				85/71	32.7	24.9	44.3	2.80	11.7	33.3	25.2	44.5	2.70	7.8	12.3
	5.4	2.1	4.9	75/63	28.6	23.3	39.5	2.52	11.3	29.1	23.5	39.7	2.48	7.2	11.7
				80/67	31.3	24.3	41.9	2.58	12.1	31.7	24.4	42.2	2.52	7.4	12.6
				85/71	33.6	25.3	44.5	2.65	12.7	34.2	25.5	44.8	2.57	7.5	13.3
	7.0	3.4	7.8	75/63	28.9	23.3	39.5	2.47	11.7	29.4	23.5	39.8	2.43	6.8	12.1
				80/67	31.4	24.3	41.9	2.50	12.6	32.0	24.4	42.4	2.49	7.1	12.8
				85/71	33.9	25.3	44.5	2.55	13.3	34.5	25.5	45.0	2.52	7.3	13.7

# GSC060 with GSE060

## 5.0 Ton CFM 2000

### Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	8.3	2.2	5.1	60	47.8	34.3	82.1	4.03	3.48	41.9	34.4	79.4	3.98	6.0	3.52
				70	46.5	32.3	91.5	4.25	3.21	40.3	32.5	88.7	4.17	6.1	3.27
				80	45.0	30.5	100.8	4.45	2.97	38.7	30.5	97.9	4.36	6.3	3.03
	11.7	4.1	9.6	60	49.3	35.8	82.8	4.07	3.55	43.2	35.9	80.0	3.98	6.1	3.63
				70	47.9	33.7	92.2	4.29	3.28	41.6	33.9	89.3	4.20	6.3	3.35
				80	46.6	31.7	101.6	4.51	3.03	40.1	31.9	98.6	4.40	6.5	3.10
	15.0	6.7	15.4	60	49.9	36.5	83.1	4.07	3.60	43.7	36.7	80.2	3.98	6.2	3.68
				70	48.6	34.5	92.5	4.29	3.33	42.2	29.6	89.5	4.20	6.4	3.39
				80	47.3	32.3	101.9	4.50	3.08	40.7	32.5	98.8	4.41	6.6	3.14
50	8.3	2.1	4.8	60	61.9	48.0	88.7	4.22	4.30	54.2	48.4	85.1	4.08	7.7	4.45
				70	60.0	45.2	97.8	4.45	3.96	52.1	45.6	94.1	4.31	7.9	4.09
				80	58.0	42.5	106.9	4.66	3.65	49.9	42.9	103.1	4.53	8.1	3.75
	11.7	3.8	8.9	60	64.5	50.2	89.9	4.30	4.39	56.5	50.8	86.2	4.16	8.0	4.54
				70	62.4	47.4	98.9	4.53	4.03	54.1	47.8	95.1	4.38	8.2	4.17
				80	60.4	44.5	108.0	4.76	3.71	51.9	45.0	104.0	4.61	8.5	3.84
	15.0	6.2	14.4	60	65.8	51.6	90.5	4.32	4.46	57.6	52.0	86.7	4.17	8.2	4.63
				70	63.7	48.6	99.5	4.55	4.10	55.3	49.2	95.6	4.40	8.4	4.24
				80	61.6	45.7	108.5	4.78	3.77	52.9	46.2	104.5	4.63	8.6	3.90
70	8.3	2.1	4.8	60	75.3	60.5	94.9	4.49	4.92	65.9	61.3	90.5	4.28	9.4	5.16
				70	72.6	57.0	103.6	4.72	4.51	63.0	57.8	99.2	4.51	9.6	4.72
				80	70.0	53.6	112.4	4.95	4.14	60.1	54.4	107.8	4.74	9.8	4.33
	11.7	3.7	8.5	60	79.1	63.7	96.6	4.62	5.02	69.2	64.8	92.1	4.40	9.8	5.26
				70	46.3	60.1	105.3	4.86	4.60	66.2	61.0	100.6	4.64	10.1	4.81
				80	73.5	56.5	114.0	5.12	4.21	63.2	57.4	109.2	4.88	10.3	4.42
	15.0	5.9	13.7	60	81.2	65.7	97.6	4.67	5.09	71.1	66.8	92.9	4.44	10.1	5.36
				70	78.3	62.0	106.2	4.92	4.67	67.9	63.0	101.5	4.68	10.3	4.90
				80	75.3	58.2	114.9	5.16	4.28	64.8	59.3	110.0	4.91	10.6	4.49
90	8.3	1.9	4.4	60	86.8	71.3	100.2	4.45	5.72	76.0	72.7	95.2	4.43	10.8	5.75
				70	83.6	67.2	108.7	5.03	4.87	72.6	68.5	103.6	4.67	11.1	5.25
				80	80.4	63.2	117.2	5.18	4.55	69.1	64.4	112.0	4.91	11.3	4.80
	11.7	3.4	7.9	60	91.8	75.6	102.5	4.89	5.50	83.3	77.1	97.2	4.59	11.4	5.86
				70	88.4	71.3	110.9	5.15	5.04	76.7	72.8	105.5	4.84	11.7	5.35
				80	85.0	67.1	119.3	5.40	4.61	73.0	68.4	113.8	5.09	11.9	4.89
	15.0	5.5	12.6	60	94.8	78.3	103.9	4.96	5.60	83.0	80.0	98.4	4.65	11.8	5.97
				70	91.2	73.9	112.2	5.22	5.12	79.2	75.5	106.7	4.91	12.1	5.45
				80	87.6	69.5	120.6	5.48	4.69	75.3	71.0	114.9	5.16	12.3	4.98

# GSC060 with GSE060

## 5.0 Ton CFM 2000

### Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	8.3	2.1	5.0	75/63	61.9	43.3	72.9	3.53	17.5	61.9	43.3	72.9	3.46	5.2	17.9
				80/67	67.2	45.0	77.6	3.61	18.6	67.2	45.1	77.5	3.53	5.3	19.1
				85/71	72.6	46.8	82.2	3.68	19.7	72.6	46.9	82.2	3.60	5.5	20.1
	11.7	3.8	8.9	75/63	62.5	43.6	73.1	3.37	18.6	62.5	43.7	73.1	3.33	5.0	18.8
				80/67	67.9	45.4	77.7	3.44	19.7	67.9	45.5	77.8	3.40	5.1	20.0
				85/71	73.4	47.2	82.4	3.51	20.9	73.4	47.3	82.5	3.47	5.2	21.2
	15.0	6.2	14.4	75/63	63.2	43.6	73.5	3.27	19.3	63.2	43.7	73.5	3.26	4.7	19.4
				80/67	68.7	45.4	78.2	3.34	20.6	68.7	45.5	78.2	3.32	4.8	20.6
				85/71	74.1	47.2	82.8	3.41	21.7	74.1	47.3	83.0	3.38	5.0	21.9
70	8.3	2.1	4.8	75/63	58.1	42.5	70.9	4.24	13.7	58.4	42.6	71.1	4.14	7.5	14.1
				80/67	63.0	44.2	75.4	4.34	14.5	63.4	44.4	75.5	4.22	7.8	15.0
				85/71	68.1	45.9	80.0	4.41	15.4	68.5	46.1	80.2	4.32	8.0	15.9
	11.7	3.7	8.5	75/63	59.0	42.9	71.2	4.04	14.6	59.3	43.1	71.5	3.97	7.2	14.9
				80/67	64.1	44.7	75.8	4.13	15.5	64.4	44.9	76.1	4.06	7.5	15.9
				85/71	69.2	46.4	80.4	4.20	16.5	69.6	46.7	80.7	4.12	7.6	16.9
	15.0	5.9	13.7	75/63	59.5	42.9	71.6	3.91	15.2	59.8	43.1	71.8	3.89	6.9	15.4
				80/67	64.7	44.7	76.2	3.99	16.2	65.1	44.9	76.5	3.98	7.1	16.4
				85/71	69.8	46.4	80.6	4.08	17.1	70.2	46.7	81.0	4.04	7.4	17.4
90	8.3	1.9	4.4	75/63	52.8	40.7	68.3	5.24	10.1	53.3	41.0	68.5	5.08	9.9	10.5
				80/67	57.4	42.4	72.6	5.34	10.7	58.0	42.7	72.9	5.19	10.2	11.2
				85/71	62.0	44.2	77.1	5.43	11.4	62.6	44.4	77.3	5.29	10.4	11.8
	11.7	3.4	7.9	75/63	53.8	41.1	68.7	4.93	10.9	54.4	41.4	69.0	4.83	9.5	11.2
				80/67	58.6	42.9	73.0	5.06	11.6	59.1	43.1	73.4	4.93	9.8	12.0
				85/71	63.3	44.5	77.3	5.13	12.3	63.9	44.9	77.8	5.04	10.0	12.7
	15.0	5.5	12.7	75/63	54.5	41.1	68.8	4.81	11.3	55.0	41.4	69.3	4.75	9.2	11.6
				80/67	59.2	42.9	73.1	4.90	12.1	59.8	43.1	73.8	4.84	9.4	12.3
				85/71	63.9	44.5	77.6	5.01	12.8	64.5	44.9	78.2	4.93	9.7	13.1
110	8.3	1.9	4.3	75/63	46.1	38.2	65.0	6.53	7.1	46.8	38.5	65.2	6.34	12.2	7.4
				80/67	50.0	39.7	69.2	6.62	7.6	50.9	40.0	69.4	6.45	12.6	7.9
				85/71	54.1	41.2	73.2	6.78	8.0	55.0	41.7	73.5	6.55	13.0	8.4
	11.7	3.4	7.9	75/63	47.2	38.5	65.2	6.11	7.7	48.0	38.9	65.6	6.02	11.8	8.0
				80/67	51.4	40.1	69.3	6.25	8.2	52.3	40.4	69.8	6.11	12.2	8.6
				85/71	55.5	41.7	73.5	6.42	8.6	56.4	42.1	74.0	6.23	12.5	9.1
	15.0	5.4	12.5	75/63	47.7	38.5	65.2	5.98	8.0	48.5	38.9	65.8	5.90	11.3	8.2
				80/67	51.9	40.1	69.3	6.07	8.6	52.8	40.4	70.1	6.05	11.7	8.7
				85/71	59.0	41.7	73.5	6.18	9.1	57.0	42.1	74.3	6.11	12.1	9.3



# GTC060 with GSE060

## 5.0 Ton CFM 2100

### High Capacity/Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	8.3	2.2	5.1	60	49.9	35.8	82.0	4.21	3.48	43.7	35.9	79.3	4.16	6.2	3.52
				70	48.5	33.7	91.4	4.43	3.21	42.1	33.9	88.6	4.35	6.4	3.27
				80	47.0	31.8	100.7	4.65	2.97	40.4	31.8	97.8	4.55	6.6	3.03
	11.7	4.1	9.6	60	51.5	37.4	82.7	4.25	3.55	45.1	37.5	79.9	4.16	6.4	3.63
				70	50.0	35.1	92.1	4.48	3.28	43.4	35.4	89.1	4.38	6.6	3.35
				80	48.7	33.0	101.5	4.70	3.03	41.8	33.2	98.4	4.60	6.8	3.10
	15.0	6.7	15.4	60	52.1	38.1	83.0	4.25	3.60	45.6	38.3	80.1	4.16	6.5	3.68
				70	50.8	36.0	92.4	4.47	3.33	44.0	30.9	89.4	4.38	6.7	3.39
				80	49.4	33.7	101.8	4.70	3.08	42.4	33.9	98.7	4.61	6.9	3.14
50	8.3	2.1	4.8	60	64.6	50.1	88.5	4.41	4.30	56.6	50.5	84.9	4.26	8.0	4.45
				70	62.7	47.1	97.6	4.64	3.96	54.4	47.6	94.0	4.50	8.3	4.09
				80	60.5	44.3	106.7	4.87	3.65	52.0	44.8	102.9	4.73	8.5	3.75
	11.7	3.8	8.9	60	67.3	52.4	89.7	4.49	4.39	59.0	53.0	86.0	4.35	8.4	4.54
				70	65.1	49.5	98.7	4.73	4.03	56.5	49.9	94.9	4.57	8.6	4.17
				80	63.0	46.4	107.8	4.97	3.71	54.2	47.0	103.9	4.81	8.8	3.84
	15.0	6.2	14.4	60	68.7	53.8	90.3	4.51	4.46	60.2	54.3	86.5	4.35	8.6	4.63
				70	66.5	50.8	99.3	4.75	4.10	57.7	51.3	95.4	4.60	8.8	4.24
				80	64.3	47.7	108.3	4.99	3.77	55.2	48.3	104.4	4.83	9.0	3.90
70	8.3	2.1	4.8	60	78.6	63.2	94.7	4.68	4.92	68.8	64.0	90.3	4.47	9.8	5.16
				70	75.8	59.5	103.4	4.93	4.51	65.8	60.3	99.0	4.71	10.0	4.72
				80	73.0	55.9	112.2	5.17	4.14	62.8	56.8	107.7	4.95	10.3	4.33
	11.7	3.7	8.5	60	82.6	66.5	96.4	4.82	5.02	72.3	67.6	91.9	4.60	10.3	5.26
				70	79.6	62.8	105.1	5.07	4.60	69.1	63.7	100.5	4.85	10.5	4.81
				80	76.7	58.9	113.8	5.34	4.21	65.9	59.9	109.1	5.09	10.8	4.42
	15.0	5.9	13.7	60	84.8	68.6	97.4	4.88	5.09	74.2	69.7	92.7	4.64	10.6	5.36
				70	81.7	64.7	106.0	5.13	4.67	70.9	65.8	101.3	4.89	10.8	4.90
				80	78.6	60.8	114.7	5.39	4.28	67.6	61.9	109.8	5.13	11.0	4.49
90	8.3	1.9	4.4	60	90.6	74.5	100.0	4.65	5.72	79.4	75.9	95.0	4.62	11.3	5.75
				70	87.3	70.1	108.5	5.26	4.87	75.8	71.5	103.4	4.87	11.5	5.25
				80	83.9	66.0	117.0	5.41	4.55	72.2	67.2	111.8	5.12	11.8	4.80
	11.7	3.4	7.9	60	95.8	78.9	102.2	5.10	5.50	83.9	80.5	97.0	4.80	11.9	5.86
				70	92.3	74.5	110.7	5.37	5.04	80.1	76.0	105.3	5.06	12.2	5.35
				80	88.7	70.0	119.1	5.64	4.61	76.2	71.4	113.6	5.31	12.5	4.89
	15.0	5.5	12.6	60	99.0	81.7	103.7	5.18	5.60	86.7	83.5	98.2	4.86	12.3	5.97
				70	95.2	77.1	112.0	5.45	5.12	82.7	78.8	106.4	5.12	12.6	5.45
				80	91.5	72.5	120.3	5.72	4.69	78.6	74.1	114.7	5.38	12.8	4.98

# GTC060 with GSE060

## 5.0 Ton    CFM 1300

### Low Capacity/Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	5.6	1.4	3.3	60	34.9	25.1	84.9	2.39	4.28	30.6	25.1	81.8	2.37	4.3	4.33
				70	33.9	23.6	94.2	2.52	3.94	29.4	23.7	91.0	2.48	4.5	4.02
				80	32.9	22.2	103.4	2.64	3.64	28.2	22.3	100.1	2.59	4.6	3.72
	7.8	2.7	6.2	60	36.0	26.1	85.6	2.42	4.36	31.5	26.2	82.4	2.37	4.5	4.46
				70	35.0	24.6	94.9	2.55	4.03	30.4	24.7	91.6	2.49	4.6	4.11
				80	34.0	23.1	104.2	2.68	3.73	29.3	23.2	100.8	2.62	4.8	3.81
	10.0	4.3	10.0	60	36.4	26.6	86.0	2.42	4.42	31.9	26.8	82.7	2.36	4.5	4.52
				70	35.5	25.2	95.3	2.55	4.09	30.8	21.6	91.9	2.49	4.7	4.17
				80	34.5	23.6	104.6	2.67	3.79	29.7	23.7	101.1	2.62	4.8	3.86
50	5.6	1.3	3.1	60	45.2	35.0	92.2	2.51	5.28	39.5	35.3	88.2	2.42	5.6	5.46
				70	43.8	33.0	101.2	2.64	4.86	38.0	33.2	97.1	2.56	5.8	5.02
				80	42.3	31.0	110.2	2.77	4.48	36.4	31.3	105.9	2.69	5.9	4.61
	7.8	2.5	5.8	60	47.1	36.7	93.5	2.56	5.40	41.2	37.1	89.4	2.47	5.9	5.58
				70	45.5	34.6	102.4	2.69	4.96	39.5	34.9	98.1	2.60	6.0	5.13
				80	44.1	32.5	111.4	2.83	4.56	37.9	32.9	107.0	2.74	6.2	4.72
	10.0	4.0	9.3	60	48.0	37.6	94.2	2.57	5.48	42.1	38.0	90.0	2.48	6.0	5.69
				70	46.5	35.5	103.1	2.70	5.04	40.4	35.9	98.7	2.62	6.1	5.21
				80	44.9	33.3	112.0	2.84	4.63	38.6	33.7	107.5	2.75	6.3	4.79
70	5.6	1.3	3.1	60	55.0	44.2	99.1	2.67	6.04	48.1	44.7	94.3	2.54	6.8	6.33
				70	53.0	41.6	107.8	2.80	5.54	46.0	42.2	102.8	2.68	7.0	5.80
				80	51.1	39.1	116.4	2.94	5.09	43.9	39.7	111.3	2.81	7.2	5.32
	7.8	2.4	5.5	60	57.7	46.5	101.1	2.74	6.16	50.5	47.3	96.0	2.62	7.2	6.46
				70	55.7	43.9	109.7	2.89	5.65	48.34	44.5	104.4	2.76	7.4	5.92
				80	53.6	41.2	118.2	3.04	5.17	46.1	41.9	112.8	2.90	7.5	5.43
	10.0	3.8	8.9	60	59.3	48.0	102.2	2.78	6.26	51.9	48.7	97.0	2.64	7.4	6.58
				70	57.1	45.2	110.7	2.92	5.73	49.6	46.0	105.3	2.78	7.6	6.02
				80	55.0	42.5	119.2	3.07	5.26	47.3	43.3	113.7	2.92	7.7	5.52
90	5.6	1.2	2.9	60	63.4	52.1	105.1	2.64	7.02	55.5	53.1	99.5	2.63	7.9	7.06
				70	61.0	49.0	113.5	2.99	5.98	53.0	50.0	107.7	2.77	8.1	6.45
				80	58.7	46.1	121.8	3.08	5.59	50.5	47.0	115.9	2.91	8.2	5.90
	7.8	2.2	5.1	60	67.0	55.2	107.7	2.90	6.76	58.6	56.3	101.8	2.73	8.3	7.19
				70	64.5	52.1	116.0	3.06	6.19	56.0	53.2	109.9	2.88	8.5	6.57
				80	62.0	48.9	124.2	3.21	5.66	53.3	49.9	118.0	3.02	8.7	6.01
	10.0	3.6	8.2	60	69.2	57.1	109.3	2.95	6.88	60.6	58.4	103.2	2.76	8.6	7.34
				70	66.6	53.9	117.4	3.10	6.29	57.8	55.1	111.2	2.92	8.8	6.69
				80	64.0	50.7	125.6	3.26	5.76	55.0	51.8	119.2	3.06	9.0	6.12

# GTC060 with GSE060

## 5.0 Ton CFM 2100

### High Capacity/Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	8.3	2.1	5.0	75/63	64.6	45.2	76.1	3.43	18.8	64.6	45.2	76.1	3.36	5.4	19.2
				80/67	70.2	47.0	81.0	3.51	20.2	70.2	47.1	80.9	3.43	5.6	20.5
				85/71	75.8	48.9	85.8	3.58	21.2	75.8	49.0	85.8	3.50	5.7	21.6
	11.7	3.8	8.9	75/63	65.3	45.6	76.3	3.28	19.9	65.3	45.6	76.3	3.23	5.2	20.2
				80/67	70.9	47.4	81.1	3.34	21.2	70.9	47.5	81.3	3.30	5.3	21.5
				85/71	76.6	49.3	86.0	3.41	22.4	76.6	49.4	86.1	3.37	5.4	22.7
	15.0	6.2	14.4	75/63	65.9	45.6	76.7	3.18	20.7	65.9	45.6	76.7	3.17	4.9	20.8
				80/67	71.7	47.4	81.7	3.24	22.1	71.7	47.5	81.7	3.23	5.0	22.2
				85/71	77.4	49.3	86.4	3.31	23.4	77.4	49.4	86.6	3.29	5.2	23.5
70	8.3	2.1	4.8	75/63	60.6	44.4	74.1	4.12	14.7	61.0	44.4	74.2	4.02	7.8	15.1
				80/67	65.8	46.1	78.7	4.22	15.6	66.2	46.3	78.9	4.10	8.1	16.1
				85/71	71.1	48.0	83.5	4.29	16.6	71.5	48.2	83.7	4.20	8.4	17.0
	11.7	3.7	8.5	75/63	61.5	44.8	74.3	3.92	15.7	61.9	45.0	74.6	3.86	7.6	16.0
				80/67	66.9	46.6	79.1	4.01	16.7	67.3	46.8	79.4	3.95	7.8	17.0
				85/71	72.2	48.5	83.9	4.09	17.7	72.6	48.7	84.2	4.01	8.0	18.1
	15.0	5.9	13.7	75/63	62.1	44.8	74.7	3.80	16.3	62.4	45.0	75.0	3.78	7.2	16.5
				80/67	67.5	46.6	79.5	3.88	17.4	67.9	46.8	79.8	3.86	7.4	17.6
				85/71	72.9	48.5	84.2	3.96	18.4	73.3	48.7	84.6	3.93	7.7	18.7
90	8.3	1.9	4.4	75/63	55.1	42.5	71.3	5.10	10.8	55.7	42.8	71.5	4.94	10.3	11.3
				80/67	59.9	44.2	75.8	5.19	11.5	60.5	44.6	76.1	5.05	10.6	12.0
				85/71	64.7	46.1	80.5	5.28	12.3	65.4	46.3	80.7	5.14	10.9	12.7
	11.7	3.4	7.9	75/63	56.2	42.9	71.7	4.80	11.7	56.8	43.2	72.1	4.70	10.0	12.1
				80/67	61.1	44.8	76.2	4.91	12.4	61.7	45.0	76.6	4.79	10.2	12.9
				85/71	66.1	46.5	80.7	4.99	13.3	66.7	46.8	81.3	4.90	10.5	13.6
	15.0	5.5	12.7	75/63	56.9	42.9	71.8	4.67	12.2	57.4	43.2	72.3	4.62	9.6	12.4
				80/67	61.8	44.8	76.3	4.76	13.0	62.4	45.0	77.0	4.71	9.8	13.3
				85/71	66.7	46.5	81.0	4.87	13.7	67.4	46.8	81.7	4.79	10.1	14.1
110	8.3	1.9	4.3	75/63	48.1	39.8	67.8	6.35	7.6	48.9	40.2	68.1	6.16	12.7	7.9
				80/67	52.2	41.4	72.2	6.44	8.1	53.1	41.8	72.5	6.27	13.1	8.5
				85/71	56.5	43.0	76.5	6.59	8.6	57.4	43.5	76.7	6.37	13.5	9.0
	11.7	3.4	7.9	75/63	49.3	40.2	68.1	5.94	8.3	50.1	40.6	68.5	5.85	12.3	8.6
				80/67	53.7	41.8	72.3	6.08	8.8	54.6	42.2	72.9	5.94	12.7	9.2
				85/71	57.9	43.6	76.7	6.24	9.3	58.9	43.9	77.3	6.05	13.0	9.7
	15.0	5.4	12.5	75/63	49.8	40.2	68.1	5.82	8.6	50.7	40.6	68.7	5.73	11.8	8.8
				80/67	54.2	41.8	72.3	5.90	9.2	55.1	42.2	73.1	5.88	12.2	9.4
				85/71	58.5	43.6	76.7	6.01	9.7	59.5	43.9	77.5	5.94	12.6	10.0

# GTC060 with GSE060

## 5.0 Ton CFM 1300

### Low Capacity/Cooling Capacity Data

EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	5.6	1.4	3.2	75/63	45.2	31.6	53.2	1.77	25.6	45.2	31.6	53.2	1.73	3.8	26.0
				80/67	49.1	32.9	56.6	1.81	27.1	49.1	32.9	56.5	1.77	3.9	27.8
				85/71	53.0	34.2	60.0	1.84	28.7	53.0	34.2	60.0	1.81	4.0	29.3
	7.8	2.5	5.8	75/63	45.6	31.8	53.4	1.69	27.0	45.6	31.9	53.4	1.67	3.6	27.4
				80/67	49.5	33.2	56.7	1.72	28.7	49.5	33.2	56.8	1.70	3.7	29.1
				85/71	53.5	34.5	60.2	1.76	30.4	53.5	34.5	60.2	1.74	3.8	30.8
	10.0	4.0	9.3	75/63	46.1	31.8	53.6	1.64	28.1	46.1	31.9	53.6	1.63	3.4	28.2
				80/67	50.1	33.2	57.1	1.67	30.0	50.1	33.2	57.1	1.67	3.5	30.1
				85/71	54.1	34.5	60.4	1.71	31.7	54.1	34.5	60.5	1.70	3.6	31.9
70	5.6	1.3	3.1	75/63	42.4	31.0	51.8	2.13	19.9	42.6	31.1	51.9	2.07	5.5	20.5
				80/67	46.0	32.2	55.0	2.17	21.2	46.3	32.4	55.1	2.11	5.7	21.9
				85/71	49.7	33.5	58.4	2.21	22.5	50.0	33.7	58.5	2.16	5.8	23.1
	7.8	2.4	5.5	75/63	43.0	31.3	52.0	2.02	21.3	43.3	31.4	52.2	1.99	5.3	21.8
				80/67	46.8	32.6	55.3	2.07	22.6	47.0	32.7	55.5	2.03	5.5	23.1
				85/71	50.5	33.9	58.7	2.11	24.0	50.8	34.1	58.9	2.07	5.6	24.6
	10.0	3.8	8.9	75/63	43.4	31.3	52.2	1.96	22.1	43.6	31.4	52.4	1.95	5.0	22.4
				80/67	47.2	32.6	55.6	2.00	23.6	47.5	32.7	55.8	1.99	5.2	23.8
				85/71	50.9	33.9	58.9	2.04	24.9	51.2	34.1	59.1	2.02	5.4	25.3
90	5.6	1.2	2.9	75/63	38.6	29.7	49.8	2.63	14.7	38.9	29.9	50.0	2.55	7.2	15.3
				80/67	41.9	30.9	53.0	2.68	15.7	42.3	31.2	53.2	2.60	7.4	16.3
				85/71	45.3	32.2	56.2	2.72	16.6	45.7	32.4	56.4	2.65	7.6	17.2
	7.8	2.2	5.2	75/63	39.3	30.0	50.1	2.47	15.9	39.7	30.2	50.4	2.42	7.0	16.4
				80/67	42.7	31.3	53.3	2.53	16.9	43.2	31.4	53.6	2.47	7.1	17.5
				85/71	46.2	32.5	56.4	2.57	18.0	46.6	32.7	56.8	2.53	7.3	18.5
	10.0	3.6	8.3	75/63	39.8	30.0	50.2	2.41	16.5	40.1	30.2	50.6	2.38	6.7	16.9
				80/67	43.2	31.3	53.4	2.45	17.6	43.6	31.4	53.8	2.43	6.9	18.0
				85/71	46.7	32.5	56.6	2.51	18.6	47.1	32.7	57.1	2.47	7.0	19.1
110	5.6	1.2	2.8	75/63	33.6	27.8	47.4	3.27	10.3	34.2	28.1	47.6	3.18	8.9	10.8
				80/67	36.5	29.0	50.5	3.32	11.0	37.1	29.2	50.7	3.23	9.2	11.5
				85/71	39.5	30.1	53.5	3.40	11.6	40.2	30.4	53.6	3.28	9.5	12.2
	7.8	2.2	5.1	75/63	34.5	28.1	47.6	3.06	11.2	35.0	28.4	47.9	3.02	8.6	11.6
				80/67	37.5	29.2	50.6	3.13	12.0	38.2	29.5	50.9	3.06	8.9	12.5
				85/71	40.5	30.5	53.6	3.22	12.6	41.2	30.7	54.0	3.12	9.1	13.2
	10.0	3.5	8.1	75/63	34.8	28.1	47.6	3.00	11.6	35.4	28.4	48.0	2.96	8.3	12.0
				80/67	37.9	29.2	50.6	3.04	12.5	38.5	29.5	51.1	3.03	8.5	12.7
				85/71	40.9	30.5	53.6	3.10	13.2	41.6	30.7	54.2	3.06	8.8	13.6

# GSC072 with GSE072

## 6.0 Ton CFM 2400

### Heating Capacity Data

EWT	GPM	WPD		Heating						Heating with Desuperheater					
		PSI	FT	EAT	HC	HE	LAT	KW	COP	HC	HE	LAT	KW	DH	COP
30	10.0	2.3	5.4	60	58.8	42.2	82.7	5.09	3.38	51.4	42.3	79.8	5.03	7.3	3.42
				70	57.1	39.7	92.0	5.37	3.12	49.5	39.9	89.1	5.27	7.5	3.17
				80	55.3	37.4	101.3	5.63	2.88	47.5	37.5	98.3	5.51	7.8	2.94
	14.0	4.4	10.1	60	60.5	44.0	83.4	5.15	3.45	53.0	44.1	80.5	5.03	7.5	3.52
				70	58.9	41.3	92.7	5.42	3.18	51.1	41.6	89.7	5.31	7.8	3.25
				80	57.3	38.9	102.1	5.70	2.95	49.2	39.1	99.0	5.57	8.0	3.01
	18.0	7.0	16.2	60	61.3	44.8	83.7	5.14	3.49	53.7	45.1	80.7	5.03	7.6	3.57
				70	59.7	42.3	93.0	5.42	3.23	51.8	36.4	90.0	5.31	7.9	3.30
				80	58.1	39.7	102.4	5.69	2.99	49.9	39.9	99.3	5.58	8.2	3.05
50	10.0	2.2	5.0	60	76.0	58.9	89.3	5.34	4.17	66.5	59.4	85.7	5.16	9.5	4.32
				70	73.7	55.4	98.4	5.62	3.84	64.0	55.9	94.7	5.45	9.7	3.97
				80	71.2	52.2	107.5	5.89	3.54	61.2	52.6	103.6	5.72	10.0	3.65
	14.0	4.1	9.4	60	79.2	61.7	90.6	5.44	4.27	69.4	62.4	86.8	5.26	9.9	4.41
				70	76.6	58.2	99.6	5.73	3.92	66.5	58.8	95.6	5.54	10.1	4.05
				80	74.2	54.6	108.6	6.02	3.61	63.7	55.3	104.6	5.82	10.4	3.73
	18.0	6.6	15.1	60	80.8	63.3	91.2	5.47	4.34	70.8	63.9	87.3	5.27	10.1	4.50
				70	78.2	59.7	100.2	5.75	3.99	67.9	60.4	96.2	5.57	10.3	4.12
				80	75.6	56.1	109.2	6.05	3.66	65.0	56.8	105.1	5.85	10.6	3.79
70	10.0	2.2	5.0	60	92.5	74.3	95.7	5.67	4.78	81.0	75.3	91.2	5.41	11.5	5.01
				70	89.2	70.1	104.4	5.97	4.38	77.4	71.0	99.9	5.71	11.8	4.58
				80	85.9	65.8	113.1	6.26	4.02	73.9	66.8	108.5	5.99	12.1	4.20
	14.0	3.9	9.0	60	97.1	78.3	97.5	5.84	4.87	85.0	79.5	92.8	5.57	12.1	5.11
				70	93.7	73.4	106.1	6.15	4.47	81.3	74.9	101.4	5.87	12.4	4.68
				80	90.2	69.4	114.8	6.47	4.09	77.6	70.5	109.9	6.16	12.7	4.29
	18.0	6.2	14.4	60	99.7	80.7	98.5	5.91	4.95	87.3	82.0	93.7	5.62	12.4	5.21
				70	96.1	76.1	107.1	6.22	4.53	83.4	77.4	102.2	5.92	12.7	4.76
				80	92.5	71.5	115.7	6.53	4.16	79.5	72.8	110.7	6.21	13.0	4.37
90	10.0	2.0	4.7	60	106.6	87.6	101.1	5.63	5.55	93.4	89.3	96.0	5.60	13.3	5.58
				70	102.7	82.5	109.6	6.36	4.73	89.1	84.2	104.4	5.90	13.6	5.10
				80	98.8	77.6	118.1	6.55	4.42	84.9	79.1	112.8	6.20	13.9	4.67
	14.0	3.6	8.3	60	112.7	92.9	103.5	6.18	5.35	98.7	94.7	98.1	5.81	14.0	5.69
				70	108.6	87.6	111.9	6.51	4.89	94.2	89.5	106.4	6.12	14.4	5.20
				80	104.3	82.4	120.3	6.83	4.48	89.7	84.0	114.6	6.43	14.6	4.75
	18.0	5.8	13.3	60	116.5	96.1	104.9	6.28	5.44	102.0	98.2	99.3	5.88	14.5	5.80
				70	112.0	90.7	113.2	6.60	4.98	97.2	92.8	107.5	6.21	14.8	5.29
				80	107.6	85.3	121.5	6.93	4.55	92.5	87.1	115.7	6.52	15.1	4.84

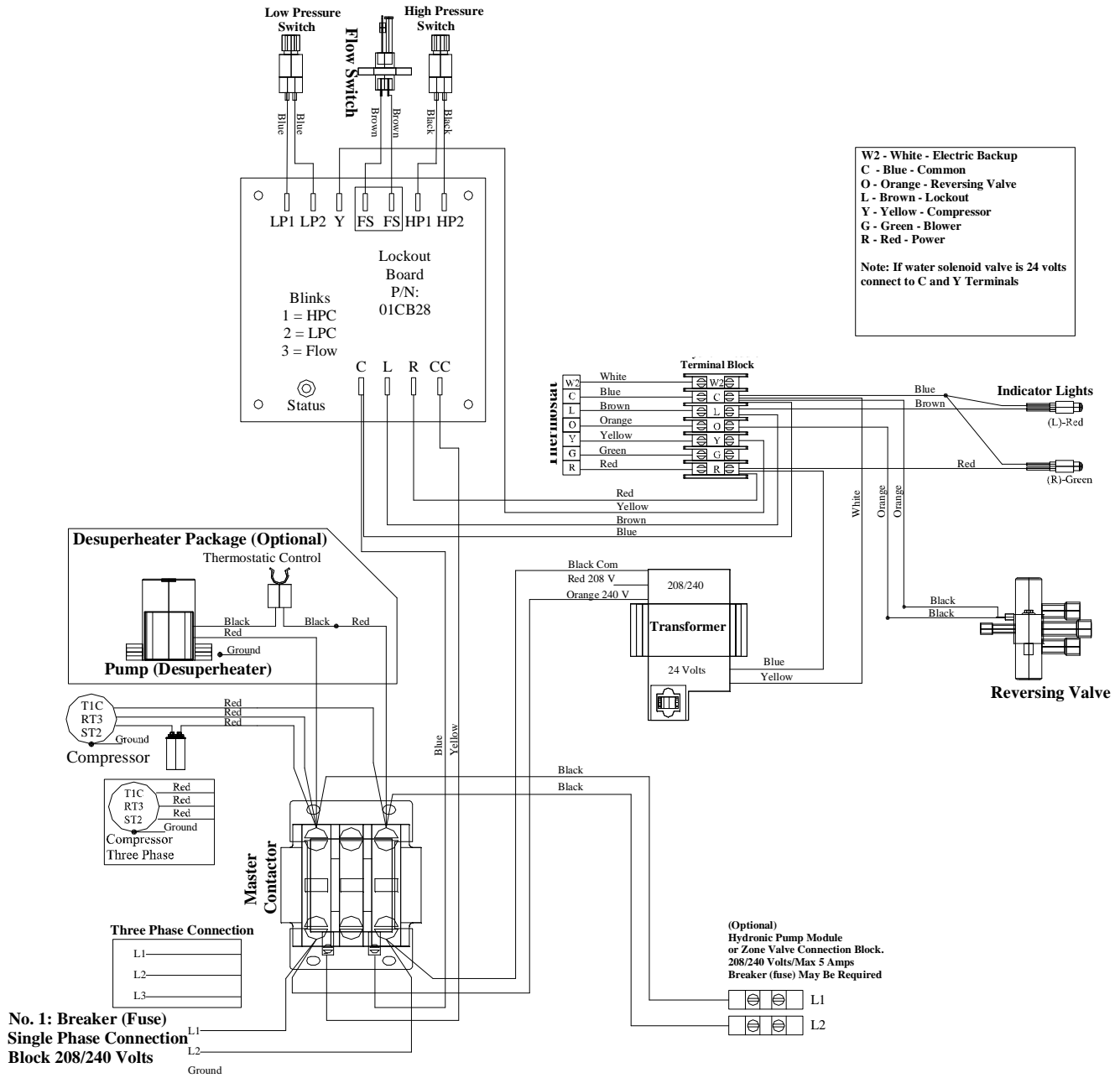
# GSC072 with GSE072

## 6.0 Ton CFM 2400

### Cooling Capacity Data

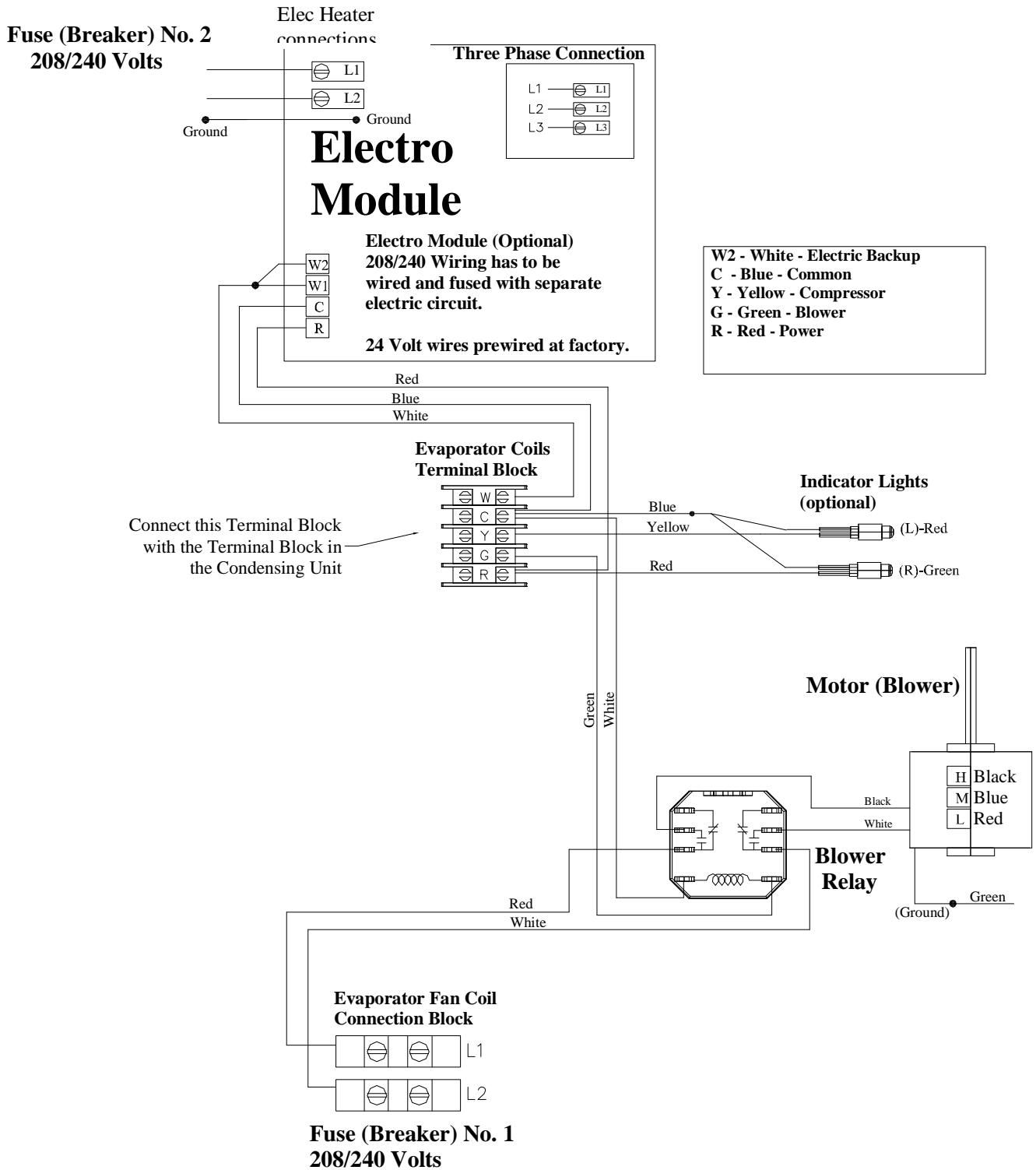
EWT	GPM	WPD		EAT DB/WB	Cooling					Cooling with Desuperheater					
		PSI	FT		TC	SC	HR	KW	EER	TC	SC	HR	KW	DH	EER
50	10.0	2.3	5.2	75/63	76.0	53.1	89.5	4.39	17.3	76.0	53.2	89.5	4.30	6.4	17.7
				80/67	82.6	55.3	95.3	4.49	18.4	82.6	55.4	95.1	4.39	6.6	18.8
				85/71	89.2	57.5	100.9	4.58	19.5	89.2	57.6	100.9	4.48	6.7	19.9
	14.0	4.1	9.4	75/63	76.8	53.6	89.8	4.19	18.3	76.8	53.7	89.8	4.13	6.1	18.6
				80/67	83.4	55.8	95.4	4.28	19.5	83.4	55.9	95.6	4.23	6.2	19.7
				85/71	90.1	58.0	101.2	4.37	20.6	90.1	58.1	101.3	4.31	6.4	20.9
	18.0	6.6	15.1	75/63	77.6	53.6	90.3	4.07	19.1	77.6	53.7	90.3	4.05	5.8	19.2
				80/67	84.3	55.8	96.1	4.15	20.3	84.3	55.9	96.1	4.13	5.9	20.4
				85/71	91.0	58.0	101.7	4.24	21.5	91.0	58.1	101.9	4.21	6.1	21.6
70	10.0	2.2	5.0	75/63	71.3	52.2	87.1	5.28	13.5	71.7	52.3	87.3	5.15	9.2	13.9
				80/67	77.4	54.2	92.6	5.40	14.3	77.9	54.5	92.8	5.25	9.5	14.8
				85/71	83.7	56.4	98.3	5.49	15.3	84.2	56.7	98.4	5.37	9.8	15.7
	14.0	3.9	9.0	75/63	72.4	52.7	87.4	5.02	14.4	72.8	52.9	87.8	4.93	8.9	14.8
				80/67	78.7	54.8	93.1	5.13	15.3	79.1	55.1	93.4	5.05	9.2	15.7
				85/71	84.9	57.0	98.7	5.13	16.2	85.4	57.3	99.1	5.13	9.4	16.7
	18.0	6.2	14.4	75/63	73.0	52.7	87.9	4.87	15.0	73.4	52.9	88.2	4.84	8.4	15.2
				80/67	79.5	54.9	93.6	4.97	16.0	79.9	55.1	93.9	4.94	8.7	16.2
				85/71	85.7	57.0	99.0	5.07	16.9	86.2	57.3	99.5	5.02	9.1	17.2
90	10.0	2.0	4.7	75/63	64.9	50.0	83.8	6.52	9.9	65.5	50.4	84.1	6.32	12.2	10.4
				80/67	70.5	52.0	89.2	6.65	10.6	71.2	52.4	89.5	6.46	12.5	11.0
				85/71	76.2	54.2	94.7	6.75	11.3	76.9	54.5	95.0	6.58	12.8	11.7
	14.0	3.6	8.4	75/63	66.1	50.5	84.3	6.14	10.8	66.8	50.9	84.8	6.01	11.7	11.1
				80/67	71.9	52.7	89.6	6.29	11.4	72.6	52.9	90.1	6.13	12.0	11.9
				85/71	77.7	54.7	95.0	6.38	12.2	78.5	55.1	95.6	6.27	12.3	12.5
	18.0	5.8	13.4	75/63	66.9	50.5	84.5	5.98	11.2	67.6	50.9	85.1	5.90	11.2	11.4
				80/67	72.7	52.7	89.8	6.09	11.9	73.4	52.9	90.6	6.02	11.6	12.2
				85/71	78.5	54.7	95.3	6.23	12.6	79.3	55.1	96.1	6.13	11.9	12.9
110	10.0	2.0	4.5	75/63	56.6	46.9	79.8	8.12	7.0	57.5	47.3	80.1	7.89	15.0	7.3
				80/67	61.4	48.7	84.9	8.23	7.5	62.5	49.1	85.2	8.02	15.5	7.8
				85/71	66.4	50.6	89.9	8.44	7.9	67.6	51.2	90.3	8.15	15.9	8.3
	14.0	3.6	8.3	75/63	58.0	47.3	80.1	7.60	7.6	59.0	47.7	80.5	7.49	14.5	7.9
				80/67	63.2	49.2	85.1	7.77	8.1	64.2	49.6	85.7	7.59	15.0	8.5
				85/71	68.2	51.2	90.3	7.98	8.5	69.3	51.6	90.9	7.74	15.3	9.0
	18.0	5.7	13.2	75/63	58.6	47.3	80.1	7.44	7.9	59.6	47.7	80.8	7.34	13.9	8.1
				80/67	63.8	49.2	85.1	7.54	8.5	64.9	49.6	86.0	7.52	14.4	8.6
				85/71	68.8	51.2	90.3	7.68	9.0	70.0	51.6	91.2	7.60	14.8	9.2

# GSC Series Condensing Unit Split System Wiring Diagram



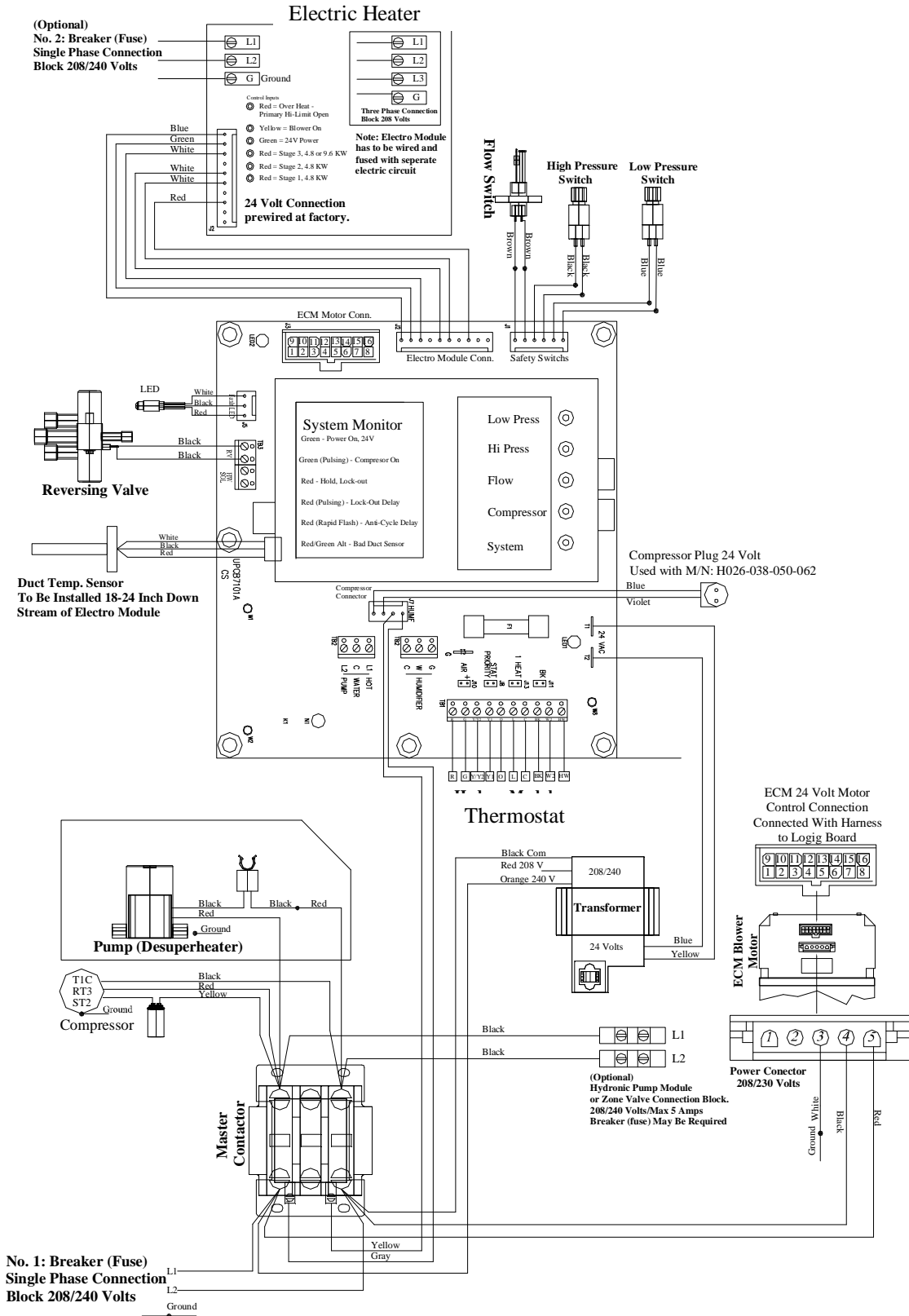
**Note:** Smaller units come with a two pole contactor instead of a three pole.

# GSE Series Evaporator Unit Split System Wiring Diagram with PSC Fan Motor





**GTC & GSE Series 024, 036, 048 & 060 2-Stage Compressor Wiring Diagram with ECM Motor**



# 01CB28 Board Control Feature and Operation, For Single & Dual Speed Units.

## The G Series Logic Controlled System

(01CB28) is a microprocessor-based printed circuit board. It is located in the unit control box for convenient accessibility. This control board is specially design for the G series units. The Board provides control of the unit as well as outputs for status modes, faults and diagnostics.

### Startup

The unit will not operate until all inputs and safety controls are checked for normal conditions.

### Fault Retry & Diagnostics

All faults are retried three times, with 5 minute delay between each attempt, before finally locking the unit out.

- 1 Blink for high pressure switch
- 2 Blinks for low pressure switch
- 3 Blinks for flow switch

### Safety Controls

The G Series control receives separate signals for a high pressure switch for safety, a low pressure switch to prevent loss/low refrigerant charge damage & a flow switch for freeze protection.

### Testing

The G Series control allows service personal to shorten timing delays for fast diagnostics. If jumper is set to **no** positions, timing is set to standard, If jumper is set to **yes** position; timing is reduced for service and startup.

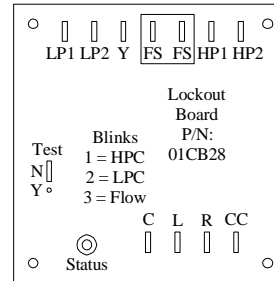
### Flow Switch (Freeze Protection) Operation

When the 24vac is applied to the y terminal, the control is monitoring the flow switch input. If the flow switch opens (no water flow), the control board will energize the compressor contractor, and start the compressor, after the random start is over. If the flow switch is still open after the 30 seconds, the control will de-energize the compressor contractor. The control board won't start the sequence unless the flow switch closes. If the flow switch opens while the compressor is energizes, the control board will energize the compressor contractor for a minimum time period of 30 seconds, after 30 seconds, the control board will de-energize the compressor contractor and go into a soft lockout. The control board will not energize the compressor contractor unless the flow switch closes and the anti-short cycle time has expired. If the flow switch opens three times with-in 1 hour, the control board will go into manual lockout and the fault indicator will energize. When the flow switch is open , or if in lockout mode, the status led on the control board will blink, three times.

### Condensation Overflow Protection

The G Series units come standard with a condensation sensor. If sensor is sensing condensation liquid the compressor will shut down and the flow status light will blink, three times.

## G Series Logic Control Board



<b>LP1</b>	<b>Low Pressure</b>	<b>HP1</b>	<b>High Pressure</b>
<b>LP2</b>	<b>Low Pressure</b>	<b>HP2</b>	<b>High Pressure</b>
<b>Y</b>	<b>H/C Call</b>	<b>C</b>	<b>Common</b>
<b>FS</b>	<b>Flow Switch</b>	<b>L</b>	<b>Fault</b>
<b>FS</b>	<b>Flow Switch</b>	<b>R</b>	<b>Power</b>
		<b>SS</b>	<b>Contactor</b>

### Anti-Short Cycle Operation

If all safety controls are satisfactory, the compressor contractor will energize when the control board receives 24VAC on the thermostat input “y” terminal. If the 24VAC on the “y” terminal is removed, the control board will de-energize the compressor contractor and go into a 300 second lockout. If the 24VAC is reapplied to the “y” terminal again, the control board will not energize the compressor contractor until after the 300 second lockout is over.

### High & Low Pressure Safety Operation

When the 24vac is applied to the “y” terminal, the control board is monitoring the high & low pressure switch input to make sure that they are closed. The control board won't start the sequence unless the high & Low pressure switch are closed. If the high & low pressure switch opens while the compressor contractor is energized, the control will de-energize the compressor contractor and go into a soft lockout. the control board will not energize the compressor contractor unless the high or low pressure switch closes and the anti-short cycle time has expired. if the high or low pressure switch opens three times with in 1 hour, the control board will go into manual lockout and the fault contact will energize. When the high or low pressure switch opens or if in lockout mode, the status led on the control board will blink, one for high & two for low pressure switch.

## Engineering Guide Specifications

**General:** The Geothermal Heat Pump system and the earth loop system shall be one system and include all interconnecting piping and controls to provide an efficient, harmoniously balanced package. All units shall be tested and rated by ETL in accordance with UL and CSA test laboratory safety and performance standards. Each unit shall be computer run-tested at the factory. Each unit shall be mounted on a pallet and shipped in a corrugated box. Units shall be designed to operate with entering liquid temperature between 25°F and 110°F.

**Refrigerant Circuit:** Compressor shall be hermetically sealed high efficient scroll, mounted on vibration isolators. The air heat exchanger (coated) coil shall use high-density technology, low-face velocity and incorporate enhanced aluminum fins bonded to copper tubing not less than three rows deep. The coaxial water heat exchanger shall be designed for low water pressure drop and constructed of a cupro-nickel or copper inner tube and a steel outer tube with enhanced heat exchanger surface. An optional domestic water desuperheater coil of vented double wall copper construction for potable water with high limit control shall be employed. The thermostatic expansion device shall be a bi-directional mechanical controlled and shall provide proper superheat over the entire liquid temperature range with minimal hunting. The reversing valve shall be of copper construction with a 24 V AC solenoid valve with fail-to-heating position.

**Cabinet.** The cabinet shall be of heavy gauge steel. It shall be bolted together and incorporate a condensate pan and be installed with high-density insulation, with smoke and flame spread of class 1 type and acoustic value of NRC .45. It shall be oriented to allow complete component service access from all sides. Electrical box shall be of heavy gauge stainless steel located on the access panel side of the cabinet. A duct collar shall be provided on the supply air opening and a return air filter, rack & duct collar shall be provided on the return air opening. Standard size 1-inch pleated filters shall be provided with each.

**Controls and Blower Motor.** Units shall incorporate a microprocessor based control board. All equipment shall incorporate both high and low pressure switches and freeze protection with total refrigerant circuit lockout with manual reset. The board shall provide detachable terminal block, LED status, fault indicators, fault memory and accessory output. All units shall have knockouts for entrance of line & low voltage wiring.

**Fan Motor & Assembly.** The fan shall be a direct driven type. The motor shall be a variable-speed ECM2 or optional high efficiency PSC motor with direct driven or belt driven blowers that can be easily removed from the heat pump without duct disconnection. The ECM2 fan motor shall be soft starting and maintain constant CFM over its operating static pressure range. The fan motor shall be isolated from the housing by rubber grommets. The ECM2 motors shall be long life ball bearing type The PSC motor shall be thermostatic overload protection and to be permanently lubricated.

**Piping & Connections.** Loop water connections (supply/Return) shall be 1-inch FPT brass swivel connection, which provide a union for easy connection. Larger fitting shall be female copper (1¼ to 1½) connection. All water piping shall be insulated to prevent condensation at low water temperatures. The condensation connection shall be ¾“ female brass connection. Vertical upflow units the condensation drain shall be internal-trapped hose that can be routed to either sides.

**Hanger Kit. (for field installed horizontal units)**

The hanger kit shall consist of galvanized steel brackets, isolators, bolts & lock washers. Bracket shall be designed to fasten to the unit’s bottom cabinet and be connected to ceiling with 3/8” threaded rod. Units shall include four brackets

**Secondary Drain Pan.** A secondary drain pan should be installed under the unit, on horizontal unit or any other unit that are mounted overhead in an attic, second floor or where accidental water spills can damage the structure.

## Option & Accessories

<p><b>Desuperheater.</b> The optional desuperheater package or vented double wall copper constructed heat exchanger coil suitable for potable water shall be provided. The heat exchanger and hot water circulating pump shall be factory installed inside the cabinet.</p> <p><b>Hydronic Pump Module (Pump Pak).</b> Pump module shall be self contained and provide all liquid flow, liquid fill and connection required for earth loop system. The pumps shall be wired to the pump terminal strip inside unit electric box.</p> <p><b>Thermostat.</b> A multiple-stage auto-changeover electronic/digital thermostat shall be provided with the unit. The thermostat shall provide two or three stage heating and one or two stage cooling with comfort temperature control. An AUTO-OFF fan switch, an EMERG-HEAT-OFF-COOL-AUTO system switch, and indicating LEDs. The thermostat shall provide display in °F or °C. An option remote outdoor sensor shall be available.</p>	<p><b>Electric Auxiliary Heater.</b> An Electric resistance heater shall provide emergency and/or supplemental heating. Vertical unit shall have the control console and element (coils) assembly mounted internally. Horizontal units shall have the control board and elements (coils) assembly mounted inside on end discharge units and on side discharge the control board shall be mounted inside while the elements (coils) assembly should be mounted outside the cabinet. The heater shall provide sequenced stage operation control by the logic board’s microprocessor. A Low Voltage wiring harness shall be provided each with electric package for quick connection.</p> <p><b>Zone Control System.</b> Call the Factory or you Factory representative for information on Zoning.</p>
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