



Product Data

WeatherMaster® Single Package Heat Pump Rooftop

3-Stage — 6 to 10 Nominal Tons

ecoblue™  technology



50GEQ*07, 08, 09, 12

Single-Packaged Heat Pump with Optional Electric
Heat and Puron Advance™ Refrigerant (R-454B)

Introducing Carrier's WeatherMaster® packaged heat pump rooftop units (RTUs) with Puron Advance™ and EcoBlue™ Fan Technology.

The WeatherMaster line have always stood for cooling solutions that are innovative, high quality, and easy to use. Carrier's new 50GEQ rooftops continue our legacy of progress with Puron Advance, our low global warming potential refrigerant. With competitive efficiencies, EcoBlue fan technology, locally available stock, and direct fit footprints, new installations and replacements are easier than ever.

New major design features include:

- Puron Advance (R-454B) refrigerant, which delivers a 75% reduction in global warming potential (GWP) compared to the original Puron (R-410A). Puron Advance's GWP of 466 easily exceeds the EPA (Environmental Protection Agency) requirement of <700 GWP.
- A patented, industry-first efficient indoor fan system with an electronically commutated variable speed motor for simplicity and efficiency. When compared to traditional belt-driven forward curve fans, our reliable system has:
 - 75% fewer moving parts
 - Up to 40% greater efficiency
 - No fan belts, pulleys, shaft, or shaft bearings

- Better sound and comfort control due to slow ramp-up capability
- Internal protection from phase reversal and phase loss situations
- High external static capability
- Slide out blower assembly design
- Reliable 3 stage cooling with tandem scroll compressors technology, fully active evaporator coil, and mixed air temperature protection on all models
- Reliable copper tube/aluminum fin condenser coil with 5/16 in. tubing to help reduce refrigerant charge and weight versus prior designs

Designed to fit on existing roof curbs, Carrier 50GEQ 6 to 10 ton models make replacements even easier.

Staged air volume (SAV) indoor fan speed control helps deliver IEERs up to 21.0 and 3.7 COP. All models are field convertible and capable of either vertical or horizontal airflow. The 10 ton models require a field-installed supply air kit.

With "no-strip" screw collars, handled access panels, and more, the unit is easy to install, easy to maintain, and easy to use. Your new 6 to 10 ton Carrier WeatherMaster RTU provides optimum comfort and control from a packaged rooftop.

Value-added features include:

- Puron Advance refrigerant (R-454B)
- SystemVu™ intuitive, intelligent controls that provides:
 - Large, full text, multi-line display
 - USB flash port for data transfer

- Built-in i-Vu®, CCN, and BACnet®¹.
- Easy to read refrigerant pressures shown via the display — no checking gauges
- Quick LED Status for Run, Alert, and Fault
- Conventional thermostat or sensor capabilities
- Historical component runtime and starts
- Supply air tempering
- Network Service Tool compatible
- Single point electrical connections
- TXV refrigerant metering system
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

Installation ease

All 6 to 10 ton WeatherMaster units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications. The 10 ton models require a simple supply duct cover kit to field convert from factory vertical to horizontal. All units have SystemVu controls standard for easy, tool free commissioning. Clearly labeled connection points reduce installation time, and a large control box provides room to work and mount Carrier accessories.

1. Third-party trademarks and logos are the property of their respective owners.

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Easy to maintain

With the EcoBlue vane axial fan system and direct drive ECM motor, belts and pulleys are a thing of the past. This frees up maintenance, installation and commissioning time. Should an adjustment be necessary, it can easily be made via the SystemVu controller in the control box. For regular service activities, our easy-access handles provide a quick solution to all commonly accessed service panels, and our sloped, corrosion-resistant composite drain pan sheds water and will not rust. Service gauge connections are included on compressor suction/discharge lines and before and after the filter drier to monitor system operation during maintenance.

Easy to use

The SystemVu controller's MBB (main base board) puts all connections and troubleshooting points in one convenient place. Most low voltage connections use the same board and are easy to access. Setting up the fan is simple using an intuitive switch and rotary dial arrangement. Our rooftops have high and low pressure switches, a filter drier, and 2 in. filters standard.

Heat pump flexibility

50GEQ Three-Stage models offer onboard electromechanical heating standard. Our robust systems are rigorously tested to ensure reliable reverse cycle heating operation. The result is a clean, environmentally responsible

heat source to keep occupants comfortable year-round. Should an adjustment be necessary, it can easily be made via the SystemVu controller in the control box. Should you need supplemental heat, we offer a full line of single point powered electric heaters that can easily be installed at site.

Puron Advance™ features

In 2018, Carrier announced Puron Advance (R-454B) as our next generation refrigerant for light commercial rooftops. With a GWP of 466 and similar working pressure and performance to R-410A, Puron Advance easily exceeds the EPA's new, stringent <700 GWP refrigerant requirement while minimizing unit redesign. Like other next generation refrigerants (R-32, etc.), R-454B is classified as an "A2L" refrigerant by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers). This designation means that R-454B is "mildly flammable" under certain conditions. While this is a change from legacy "A1 — No Flame Propagation" refrigerants like Puron (R-410A), A2Ls are still very low on the flammability scale and quite safe for use. A2L refrigerants are difficult to ignite and have an extremely low flame speed — much less so than natural gas, propane, or even rubbing alcohol. At Carrier, we are committed to safety. As such, all of our Puron Advance rooftop units include a factory-installed dissipation control board and leak sensor designed

to last the lifetime of the unit. This system is certified to UL 60335-2-40 and designed to work right away, without any field configuration or wiring. In the event of a leak, these systems are designed to automatically identify and resolve the issue by dissipating the refrigerant to minimize risk to equipment, buildings, or occupants

EcoBlue™ Technology

Our direct drive EcoBlue indoor fan system uses vane axial fan design and electronically commutated motor. The benefit is clear: when compared to legacy belt drive systems, this vane axial design has 75% fewer moving parts, uses up to 40% less energy, and has no belts, blower bearings, or shaft.

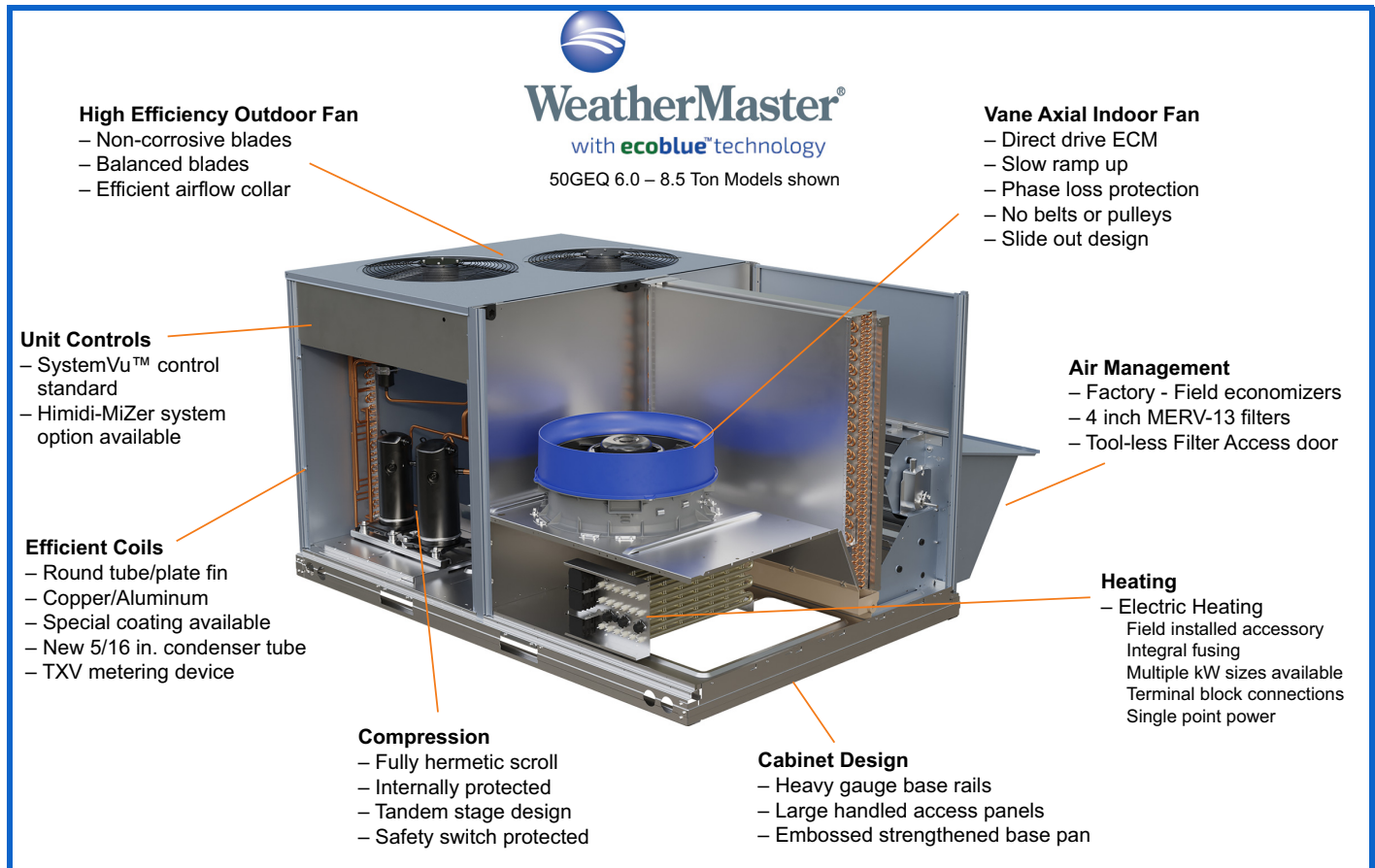
Streamlined control and integration

The 50GEQ Three-Stage units standard SystemVu controls make connecting into existing building automation systems easy.

Operating efficiency and flexibility

The 50GEQ Three-Stage Heat Pumps exceed ASHRAE 90.1 and IECC¹ (International Energy Conservation Code) minimum IEER efficiency requirements.

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Model number nomenclature



50GEQ 07-12 Model Number Nomenclature

Position:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Example:	5	0	G	E	Q	T	0	7	A	2	A	5	-	3	A	0	A	0

Unit Type

50 – Cooling Packaged Rooftop

Model Series

GE – Mid Tier Puron Advance™

Heat Size

Q = Heat Pump
(Field-Installed Electric Heat)

Refrigerant Systems Options

R = Three Stage Cooling, Single Circuit with Chicago Code Relief Valve^a
S = Three Stage Cooling, Single Circuit with Humidi-MiZer® System and Chicago Code Relief Valve^a
T = Three Stage Cooling, Single Circuit
U = Three Stage Cooling, Single Circuit with Humidi-MiZer® System

Tonnage

07 = 6.0 tons
08 = 7.5 tons
09 = 8.5 tons
12 = 10 tons

Sensor Options

A = None
B = Return Air Smoke Detector (RA)^b
C = Supply Air Smoke Detector (SA)
D = RA + SA Smoke Detector^b
J = Condensate Overflow Switch (COFS)
K = Condensate Overflow Switch + RA Smoke Detector^b
L = Condensate Overflow Switch + RA and SA Smoke Detectors^b
M = Condensate Overflow Switch + SA Smoke Detector

Fan Options

2 = Standard/Medium Static – EcoBlue Vane Axial Fan
3 = High Static – EcoBlue Vane Axial Fan
5 = Standard/Medium Static – EcoBlue Vane Axial Fan and Filter Status Switch
6 = High Static – EcoBlue Vane Axial Fan and Filter Status Switch

RTPF Coil Options – (Outdoor - Indoor - Hail Guard)

A = Al/Cu - Al/Cu
B = Precoat Al/Cu - Al/Cu
C = E-coat Al/Cu - Al/Cu
D = E-coat Al/Cu - E-coat Al/Cu
M = Al/Cu - Al/Cu — Louvered Hail Guard
N = Precoat Al/Cu - Al/Cu — Louvered Hail Guard
P = E-coat Al/Cu - Al/Cu — Louvered Hail Guard
Q = E-coat Al/Cu - E-coat Al/Cu — Louvered Hail Guard
R = Cu/Cu - Al/Cu — Louvered Hail Guard
S = Cu/Cu - Cu/Cu — Louvered Hail Guard

Voltage

1 = 575/3/60
5 = 208-230/3/60
6 = 460/3/60

Design Revision

- = Factory Assigned

Packaging & Seismic Compliance

0 = Standard

Electrical Options

A = None
B = HACR Breaker
C = Non-Fused Disconnect (NFDC)
D = Thru-The-Base Connections (TTB)
E = HACR + TTB
F = NFDC + TTB
N = Phase Monitor Protection (PMR)
P = PMR + HACR
Q = PMR + NFDC
R = PMR + TTB
S = PMR + HACR + TTB
T = PMR + NFDC + TTB
1 = HSCCR^c (High Short Circuit Current Rating)
2 = HSCCR^c + TTB

Service Options

0 = None
1 = Unpowered Convenience Outlet (NPCO)
2 = Powered Convenience Outlet (PCO)
3 = Hinged Panels (HP)
4 = Hinged Panels + NPCO
5 = Hinged Access Panels + PCO
6 = MERV-13 Filters (M13)
7 = NPCO + MERV-13 Filters
8 = PCO + MERV-13 Filters
9 = Hinged Panels + MERV-13 Filters
A = HP + NPCO + MERV-13 Filters
B = HP + PCO + MERV-13 Filters
C = Foil Faced Insulation (FF)
D = Foil Faced Insulation + NPCO
E = Foil Faced Insulation + PCO
F = Foil Faced Insulation + Hinged Panels
G = FF + HP + NPCO
H = FF + HP + PCO
J = Foil Faced Insulation + MERV-13 Filters
K = FF + NPCO + MERV-13 Filters
L = FF + PCO + MERV-13 Filters
M = FF + HP + MERV-13 Filters
N = FF + HP + NPCO + MERV-13 Filters
P = FF + HP + PCO + MERV-13 Filters

Intake / Exhaust Options

A = None
B = Standard Leak Economizer with Barometric Relief
F = Standard Leak Enthalpy Economizer with Barometric Relief
L = ULL (Ultra Low Leak) Temperature Economizer with Barometric Relief and CO₂ Sensor
M = ULL Enthalpy Economizer with Barometric Relief and CO₂ Sensor
U = ULL Temperature Economizer with Barometric Relief
W = ULL Enthalpy Economizer with Barometric Relief

Base Unit Controls

3 = SystemVu™ Controller

NOTE(S):

- Size 12 units only.
- Vertical airflow installaton only.
- Not available on the following models/options:
50GEQ*09 (8.5 ton units), Phase Loss Monitor, Non-Fused Disconnect, HACR, Powered Convenience Outlet

50GEQ*07-12 AHRI Ratings^{a,b,c}

COOLING MODE								
UNIT	COOLING STAGES	NOMINAL CAPACITY (tons)	NET COOLING CAPACITY (Btuh)	TOTAL POWER (kW)	EER	IEER WITH 3-SPEED INDOOR FAN MOTOR	AHRI RATING cfm	AHRI PART LOAD cfm
50GEQT07	3	6.0	72,000	5.3	13.70	21.0	2600	1560
50GEQT08	3	7.5	90,000	7.4	12.20	19.6	3000	1800
50GEQT09	3	8.5	102,000	8.4	12.10	19.2	3200	1920
50GEQT12	3	10.0	118,000	9.8	12.10	18.5	4400	2640
HEATING MODE								
UNIT	HEATING, LOW 17°F (−8°C) AMBIENT			HEATING, HIGH 47°F (8°C) AMBIENT		AHRI RATING cfm		
	NET CAPACITY (Btuh)		COP	NET CAPACITY (Btuh)			COP	
50GEQT07	36,000		2.30	67,000		3.70	2600	
50GEQT08	45,000		2.30	87,000		3.60	3000	
50GEQT09	52,000		2.35	94,000		3.50	3400	
50GEQT12	60,000		2.35	108,000		3.50	4400	

NOTE(S):

a. Rated in accordance with AHRI Standards 340/360.

b. Rating are based on:

Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.

IEER Standard: A measure that expresses cooling part-load EER efficiency for commercial unitary air-conditioning and heat pump equipment on the basis of weighted operation at various load capacities.

c. All 50GEQ units comply with ASHRAE 90.1-2019 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2023 (Department of Energy) Energy Standard for minimum IEER requirements.

LEGEND

AHRI — Air-Conditioning, Heating and Refrigeration Institute
COP — Coefficient of Performance
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio



Sound Rating Tables ^a

UNIT	COOLING STATES	OUTDOOR SOUND (dB) AT 60 Hz ^b								
		A-WEIGHTED ^c	63	125	250	500	1000	2000	4000	8000
50GEQT07	3	81	86.7	82.7	79.1	78.4	75.4	71.2	67.8	62.9
50GEQT08	3	83	87.3	81.6	79.7	80.6	79.0	73.5	69.2	66.1
50GEQT09	3	87	61.7	74.7	77.4	82.6	84.9	81.9	78.8	75.9
50GEQT12	3	83	61.0	67.3	75.1	77.7	78.1	75.5	71.2	66.7

NOTE(S):

- Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
- Outdoor sound data is measured in accordance with AHRI.
- A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of "average" human ear. A-weighted measurements for Carrier units are taken in accordance with AHRI.

LEGEND

dB — Decibel

Minimum - Maximum Airflow Ratings (cfm) — Cooling Units and Accessory Electric Heat

UNIT	COOLING				ELECTRIC HEAT ^a	
	MINIMUM 2-SPEED AIRFLOW (LOW SPEED)	MINIMUM 2-SPEED AIRFLOW (MEDIUM SPEED)	MINIMUM 2-SPEED AIRFLOW (HIGH SPEED)	MAXIMUM AIRFLOW CFM	MINIMUM AIRFLOW CFM	MAXIMUM AIRFLOW CFM
50GEQ*07	720	1080	1800	3000	1800	3000
50GEQ*08	900	1350	2250	3750	2250	3750
50GEQ*09	1020	1530	2550	4250	2550	4250
50GEQ*12	1200	1800	3000	5000	3000	5000

NOTE(S):

- Electric heat modules and single point kits are available as field-installed accessories for 50GEQ units.

50GEQ 6 to 7.5 Ton Physical Data

50GEQ UNIT	50GEQT07	50GEQU07	50GEQT08	50GEQU08
NOMINAL TONS	6.0	6.0	7.5	7.5
BASE UNIT OPERATING WT (lb) ^a	776	776	812	812
REFRIGERATION SYSTEM				
No. Circuits/No. Compressors/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Puron Advance™ (R-454B) Charge (lb-oz)	15-0	15-14	16-11	23-13
Cooling Metering Device	TXV	TXV	TXV	TXV
Heating Metering Device	TXV	TXV	TXV	TXV
High-press. Trip / Reset (psig)	630/505	630/505	630/505	630/505
Loss of Charge Trip / Reset (psig)	27/44	27/44	27/44	27/44
EVAPORATOR COIL				
Material	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF
Rows / FPI	3/15	3/15	4/15	4/15
Total Face Area (ft²)	11.1	11.1	11.1	11.1
Condensate Drain Conn. Size	3/4"	3/4"	3/4"	3/4"
CONDENSER COIL				
Material	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil type	5/16" RTPF	5/16" RTPF	5/16" RTPF	5/16" RTPF
Rows / FPI	2/18	2/18	2/18	2/18
Total Face Area (ft²)	25.1	25.1	25.1	25.1
HUMIDI-MIZER COIL				
Material	—	Cu/Al	—	Cu/Al
Coil Type	—	5/16" RTPF	—	5/16" RTPF
Rows / FPI	—	2/18	—	2/18
Total Face Area (ft²)	—	8	—	8
EVAPORATOR FAN AND MOTOR				
Standard/Medium Static 3 Phase				
Motor Qty / Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Max Cont BHP	2.4	2.4	2.4	2.4
Rpm Range	250 - 2000	250 - 2000	250 - 2000	250 - 2000
Fan Qty / Type	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial
Fan Diameter (in.)	22"	22"	22"	22"
High Static 3 Phase				
Motor Qty / Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Max Cont BHP	3	3	3	3
RPM Range	250 - 2200	250 - 2200	250 - 2200	250 - 2200
Fan Qty / Type	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial
Fan Diameter (in.)	22"	22"	22"	22"
CONDENSER FAN AND MOTOR				
Qty / Motor Drive Type	2 / direct	2 / direct	2 / direct	2 / direct
Motor HP / RPM	1/3 / 1050/770/450/350/265	1/3 / 1050/770/450/350/265	1/3 / 1050/770/450/350/265	1/3 / 1050/770/450/350/265
Fan Diameter (in.)	22	22	22	22
FILTERS				
RA Filter Qty / Size (in.)	4 / 20 x 20 x 2	4 / 20 x 20 x 2	4 / 20 x 20 x 2	4 / 20 x 20 x 2
OA Inlet Screen Qty / Size (in.)	1 / 20 x 24 x 1	1 / 20 x 24 x 1	1 / 20 x 24 x 1	1 / 20 x 24 x 1

NOTE(S):

a. Base unit operating weight does not include weight of options.

LEGEND

bhp — Brake Horsepower
FPI — Fins Per Inch
OA — Outdoor Air
RA — Return Air

50GEQ 8.5 to 10 Ton Physical Data

50GEQ UNIT	50GEQT09	50GEQU09	50GEQT12	50GEQU12
NOMINAL TONS	8.5	8.5	10.0	10.0
BASE UNIT OPERATING WT (lb) ^a	947	947	1219	1219
REFRIGERATION SYSTEM				
No. Circuits/No. Compressors/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Puron Advance™ (R-454B) Charge (lb-oz)	21-0	28-0	20-8	34-8
Cooling Metering Device	TXV	TXV	TXV	TXV
Heating Metering Device	TXV	TXV	TXV	TXV
High-press. Trip / Reset (psig)	630/505	630/505	630/505	630/505
Loss of Charge Trip / Reset (psig)	27/44	27/44	27/44	27/44
EVAPORATOR COIL				
Material	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF
Rows / FPI	4/15	4/15	3/15	3/15
Total Face Area (ft²)	11.1	11.1	17.5	17.5
Condensate Drain Conn. Size	3/4"	3/4"	3/4"	3/4"
CONDENSER COIL				
Material	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type	5/16" RTPF	5/16" RTPF	5/16" RTPF	5/16" RTPF
Rows / FPI	3/18	3/18	2/18	2/18
Total Face Area (ft²)	25.1	25.1	36.1	36.1
HUMIDIFIER COIL				
Material	—	Cu/Al	—	Cu/Al
Coil Type	—	5/16" RTPF	—	5/16" RTPF
Rows / FPI	—	2/18	—	2/18
Total Face Area (ft²)	—	8	—	8
EVAPORATOR FAN AND MOTOR				
Standard/Medium Static 3 Phase				
Motor Qty / Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Max Cont BHP	2.4	2.4	2.4	2.4
RPM Range	250 - 2000	250 - 2000	250 - 2000	250 - 2000
Fan Qty / Type	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial
Fan Diameter (in.)	22"	22"	22"	22"
High Static 3 Phase				
Motor Qty / Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Max Cont BHP	3	3	5	5
RPM Range	250 - 2200	250 - 2200	250 - 2200	250 - 2200
Fan Qty / Type	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial
Fan Diameter (in.)	22"	22"	22"	22"
CONDENSER FAN AND MOTOR				
Qty / Motor Drive Type	1 / direct	1 / direct	3 / Direct	3 / Direct
Motor HP / RPM	1 / 1050/770/450/350/265	1 / 1050/770/450/350/265	1/3 / 1050/770/450/350/265	1/3 / 1050/770/450/350/265
Fan Diameter (in.)	30	30	22	22
FILTERS				
RA Filter Qty / SIZE (in.)	4 / 20 x 20 x 2	4 / 20 x 20 x 2	6 / 18 x 24 x 2	6 / 18 x 24 x 2
OA Inlet Screen Qty / Size (in.)	1 / 20 x 24 x 1	1 / 20 x 24 x 1	V 2 / 24 x 27 x 1 H 1 / 30 x 39 x 1	V 2 / 24 x 27 x 1 H 1 / 30 x 39 x 1

NOTE(S):

a. Base unit operating weight does not include weight of options.

LEGEND

bhp — Brake Horsepower
FPI — Fins Per Inch
OA — Outdoor Air
RA — Return Air

Options and accessories



ITEM	FACTORY- INSTALLED OPTION	FIELD- INSTALLED ACCESSORY
ELECTRIC HEAT		
Electric Resistance Heaters	X	X
Single Point Kits	X	X
CABINET		
Thru-the-Base Electrical Connections	X	X
Hinged Access Panels	X	
MERV-8, 2 in. Filters		X
MERV-13, 2 in. Filters		X
MERV-13, 4 in. Filters	X	X
4 in. Filter Rack (filters not included)		X
Disconnect Switch Bracket ^a		X
Supply Duct Cover ^a		X
COIL OPTIONS		
Cu/Cu Outdoor and/or Indoor Coils ^b	X	
Pre-coated Outdoor Coils	X	
Premium, E-Coated Outdoor and Indoor Coils	X	
HUMIDITY CONTROL		
Humidi-MiZer [®] Adaptive Dehumidification System	X	
CONDENSER PROTECTION		
Condenser Coil Hail Guard (louvered design)	X	X
CONTROLS		
Thermostats, Temperature Sensors, And Subbases		X
Smoke Detector (supply and/or return air)	X	X
Horn Strobe Annunciator ^c		X
Phase Monitor	X	X
ECONOMIZERS AND OUTDOOR AIR DAMPERS		
EconoMiSer [®] 2 for DDC controls (Low and Ultra Low Leak air damper models) ^d	X	X
Motorized Two-Position Outdoor-Air Damper		X
Manual Outdoor-Air Damper (25% and 50%)		X
Barometric Relief ^e	X	X
Power Exhaust, Prop Design		X
Condensate Overflow Switch	X	X
ECONOMIZER SENSORS AND IAQ DEVICES		
Single Dry Bulb Temperature Sensors ^f	X	X
Differential Dry Bulb Temperature Sensors ^f		X
Differential Enthalpy Sensors ^f		X
CO ₂ Sensor (wall, duct, or unit mounted) ^f	X	X

ITEM	FACTORY- INSTALLED OPTION	FIELD- INSTALLED ACCESSORY
INDOOR MOTOR AND DRIVE		
Multiple Motor and Drive Packages	X	
Fan Filter Status Switch	X	X
POWER OPTIONS		
Convenience Outlet (powered)	X	
Convenience Outlet (unpowered)	X	
Convenience Outlet, 20 amp (unpowered)		X
Non-fused Disconnect ^g	X	
HACR breaker ^{h,i}	X	
High SCCR Protection ^j	X	
ROOF CURBS		
Roof Curb 14 in. (356 mm)		X
Roof Curb 24 in. (610 mm)		X

NOTE(S):

- For Size 12 units only.
- Cu/Cu coils are only available with louvered hail guards.
- Requires a field-supplied 24V transformer for each application. See price pages for details.
- Models with SystemVu controls comply with California Title 24 Fault Detection and Diagnostic (FDD).
- Included with economizer.
- Sensors used to optimize economizer performance.
- Non-fused disconnect switch cannot be used when unit FLA electrical rating exceeds —
 50GEQ 07-09 without factory installed electric heat:
 208/230/3/60, 460/3/60 and 575/3/60 = 80 amps.
 50GEQ 07-09 with factory installed electric heat:
 208/230/3/60 = 100 amps, 460/3/60 and 575/3/60 = 80 amps.
 50GEQ 12 — Non-fused disconnect switch cannot be used when electrical rating exceeds: 208/230/3/60 = 200 amps, 460/3/60 and 575/3/60 = 100 amps.
 Carrier RTUBuilder automatically selects the amp limitations.
- HACR circuit breaker cannot be used on 48GE 07-14 sizes when unit MOCP rating exceeds:
 Carrier RTUBuilder automatically selects the amps limitations.
- HACR circuit breaker cannot be used on 50GE 07-14 sizes when unit MOCP rating exceeds:
 50GEQ 07-09 without factory installed electric heat:
 208/230/3/60 = 80 amps
 460/3/60 = 40 amps
 575/3/60 = 35 amps
 50GEQ 07-09 with factory installed electric heat:
 208/230/3/60 = 100 amps
 460/3/60 = 80 amps
 575/3/60 = 60 amps
 50GEQ 12 without factory installed electric heat:
 208/230/3/60 = 80 amps
 460/3/60 = 45 amps
 575/3/60 = 30 amps
 50GEQ 12 with factory installed electric heat:
 208/230/3/60 = 175 amps
 460/3/60 = 80 amps
 575/3/60 = 60 amps
 Carrier RTUBuilder automatically selects the amps limitations.
- High SCCR (Short Circuit Current Rating) is not available on the following:
 HACR breaker, powered convenience outlet, phase loss monitor, non-fused disconnect, or 575-v. Not available on size 09 units due to control box constraints.

Factory-installed options

Economizer (dry-bulb or enthalpy)

Economizers save money. They bring in fresh, outside air for ventilation and provide outside air to cool your building. This is the preferred method of low-ambient cooling. When used with CO₂ sensors, economizers can provide even more savings by adjusting the ventilation air intake to just the correct amount.

Economizers are available, installed and tested by the factory, with either enthalpy or dry-bulb temperature inputs. Additional sensors are available as accessories to optimize the economizers.

Economizers include a gravity-controlled barometric relief damper to help equalize building pressure. This can be a cost effective solution to prevent building pressurization. Economizers are available in ultra low leak and standard low leak versions. They can be factory installed or easily field installed.

Unit mounted CO₂ sensor

The CO₂ sensor works with the economizer to intake only the correct amount of outside air for ventilation. As occupants fill your building, the CO₂ sensor detects their presence through increasing CO₂ levels and opens the economizer appropriately. When the occupants leave, the CO₂ levels decrease, and the sensor appropriately closes the economizer. This intelligent control of the ventilation air, called demand controlled ventilation (DCV), reduces the overall load on the rooftop, saving money. It is also available as a field-installed accessory.

Smoke detector (supply and/or return air)

Our smoke detectors make your application safer and your job easier. Carrier smoke detectors immediately shut down the rooftop unit when smoke is detected. They are available, installed by the factory, for supply air, return air, or both.

Optional Humidi-MiZer® adaptive dehumidification system

Carrier's Humidi-MiZer adaptive dehumidification system is an all-inclusive factory-installed option that can be ordered with any WeatherMaster® 50GEQ 07-12 rooftop unit.

This system expands the envelope of operation of Carrier's WeatherMaster rooftop products to provide unprecedented flexibility to meet year-round comfort conditions.

The Humidi-MiZer adaptive dehumidification system has a unique dual operational mode setting. It provides greater dehumidification of the occupied space through 2 modes of dehumidification operations in addition to its normal design cooling mode.

When coupled with the Humidi-MiZer system, the 50GEQ 07-12 rooftop is capable of operating in normal design cooling mode, sub-cooling mode, and hot gas reheat mode. Normal design cooling mode is when the unit will

operate under its normal sequence of operation by cycling compressors to maintain comfort conditions.

Sub-cooling mode will operate to satisfy part load type conditions when the space requires combined sensible and a higher proportion of latent load control. Hot gas reheat mode operates when outdoor temperatures fall and latent capacity is required for humidity control. Hot gas reheat mode provides neutral air for maximum dehumidification operation.

NOTE: Humidi-MiZer system includes Low Ambient controls.

Thru-the-base connections

Thru-the-base connections, available as a factory option, are necessary to ensure proper connection and seal when routing wire and piping through the rooftop's basepan and curb. These couplings eliminate roof penetration and should be considered for gas lines, main power lines, and control power.

Hinged access panels

These specially designed hinged access panels allow access to unit's major components. Panels allow access to filters, the control box, and the indoor fan motor.

MERV-13 return air filters

This factory option upgrades the return air filters from standard unit filters to high efficiency 4 in. MERV-13 filters. This option uses non-woven MERV-13 filter media with a high strength, moisture-resistant frame. Filter media is securely fastened inside the filter frame on all 4 sides.

Cu/Cu (indoor and outdoor) coils

Copper fins and copper tubes are mechanically bonded to copper tubes and copper tube sheets. A polymer strip prevents coil assembly from contacting the sheet metal coil pan to minimize the potential for galvanic corrosion between coil and pan. Only available with louvered hail guards.

E-coated (outdoor and indoor) coils

These coils feature a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. The coating process ensures complete coil encapsulation of tubes, fins, and headers.

Pre-coated outdoor coils

These coils feature a durable epoxy-phenolic coating that provides protection in mildly corrosive coastal environments. The coating minimizes galvanic action between dissimilar metals. The coating is applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube.

Condenser coil hail guard

These sleek, louvered panels protect the condenser coil from hail damage, foreign objects, and incidental contact. This can be purchased as a factory-installed option or as a field-installed accessory.

Convenience outlet (powered or un-powered)

Reduce service and/or installation costs by including a convenience outlet in your specification. Carrier will install this service feature at our factory. It provides a convenient, 15 amp, 115-v GFCI receptacle with “Wet in Use” cover.

The “powered” option allows the installer to power the outlet from the line side of the disconnect or load side as required by code. The “unpowered” option is to be powered from a separate 115/120-v power source. This outlet is available as a 15 amp factory-installed option or a 20 amp field-installed accessory.

HACR Breaker

These manual reset devices provide overload and short circuit protection for the unit. Breakers are factory wired and mounted on the units, with an access cover to provide protection from the environment.

Non-fused disconnect

This OSHA-compliant, factory-installed safety switch allows a service technician to locally secure power to the rooftop. When selecting a factory-installed non-fused disconnect, note that they are sized for the unit as ordered from the factory. The sizing does not accommodate field-installed items such as power exhaust devices, etc. If field installing electric heat with factory-installed non-fused disconnect switch, a single point kit may or may not be required.

Condensate overflow switch

This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. This option:

- Includes an indicator light showing when the sensor is disconnected (blinking red) and when there has been more than 10 seconds of water contact (solid red — compressors disabled)
- Includes a 10-second delay to break, which eliminates nuisance trips from splashing or waves in the pan (sensor needs 10 seconds of constant water contact before tripping)
- Disables the compressor(s) operation when a condensate plug is detected but still allows fans to run for the economizer

Fan filter status switch and maintenance indicator

When the optional factory-installed filter maintenance indicator is used, a factory-installed differential pressure switch measures pressure drop across the outside air filter and activates a field-supplied dry contact indicator when the pressure differential exceeds the adjustable switch setpoint.

High Short Circuit Current Rating (SCCR) protection

This factory-installed option provides high short circuit current protection of 10 kA against high potential fault current situations for the compress and all indoor and outdoor fan motors. (A standard unit comes with a 5 kA rating.)

This option is not available on 575-v models or models with a factory-installed powered convenience outlet, phase loss monitor, HACR breaker, or non-fused disconnect. Not available on size 09 units due to control box constraints.

Field-installed accessories

Condenser coil hail guard

These sleek, louvered panels protect the condenser coil from hail damage, foreign objects, and incidental contact.

This can be purchased as a factory-installed option or as a field-installed accessory.

Differential enthalpy sensor

The differential enthalpy sensor is comprised of an outdoor and a return air enthalpy sensor to provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.

Wall or duct mounted CO₂ sensor

The IAQ sensor shall be available in duct or wall mount. The sensor provides demand ventilation indoor air quality (IAQ) control.

Filter rack kit (4 in.)

The 4 in. filter rack accessory kit is designed to hold 4 in. MERV-8 or MERV-13 filters. Filters not included in kit.

MERV-13 2 in. return air filters

This kit includes MERV-13 2 in. filters (quantity: 4) to accommodate unit filter rack size.

MERV-8 2 in. return air filters

This kit includes MERV-8 2 in. filters (quantity: 4) to accommodate unit filter rack size.

Phase monitor protection

The phase monitor control monitors the sequence of the 3-phase electrical system to provide a phase reversal protection and monitors the 3-phase voltage inputs to provide phase loss protection for the 3-phase device. It will work on either a Delta or Wye power connection.

Roof curb (14 in./356 mm or 24 in./610 mm)

This full perimeter roof curb with exhaust capability provides separate air streams for energy recovery from the exhaust air without supply air contamination.

Fan filter status switch and maintenance indicator

When a field-installed filter maintenance indicator is used, a field-installed differential pressure switch measures pressure drop across the outside air filter and activates a field-supplied dry contact indicator when the pressure differential exceeds the adjustable switch setpoint.

Power exhaust

This accessory provides superior internal building pressure control and may eliminate the need for costly external pressure control fans.

Manual OA damper

Manual outdoor air dampers are an economical way to bring in ventilation air. The dampers are available in 25% and 50% versions.

Motorized two-position damper

The Carrier two-position, motorized outdoor air damper admits up to 100% outside air. Using reliable, gear-driven technology, the two-position damper opens to allow ventilation air and closes when the rooftop stops, stopping unwanted infiltration.

Electric heaters

Carrier offers a full line of accessory heaters. The heaters are very easy to use and install, and they are all pre-engineered and certified. Electric heaters are available as either factory-installed options or field-installed accessories.

Options and accessories (cont)



Disconnect switch bracket

The accessory provides a pre-engineered and sized mounting bracket for applications requiring a unit-mounted fused and non-fused disconnect of greater than 100 amps. The bracket assures that no damage occurs to coils when mounting with screws and other fasteners (size 12 only).

Supply duct cover

This supply duct cover is required when field converting the factory standard vertical duct supply to the horizontal duct supply configuration. One required per unit (12 size only).

Options and Accessory Weights^a

OPTION / ACCESSORY NAME	50GEQ UNIT WEIGHT							
	07		08		09		12	
	lb	kg	lb	kg	lb	kg	lb	kg
Power Exhaust — Vertical	55	25	55	25	55	25	85	39
EconomizerONE and EconoMiSer® 2	75	34	75	34	75	34	75	34
Two-Position Damper	58	26	58	26	58	26	58	26
Manual Damper	18	8	18	8	18	8	18	8
Hail Guard (louvered)	17	8	17	8	17	8	44	20
Cu/Cu Condenser Coil	100	45	100	45	150	68	120	54
Cu/Cu Evaporator Coil	80	36	100	45	100	45	120	54
Roof Curb (14 in. curb)	143	65	143	65	143	65	180	82
Roof Curb (24 in. curb)	245	112	245	112	245	112	255	116
CO ₂ Sensor	2	1	2	1	2	1	2	1
Optional Indoor Motor ^b	30	14	30	14	30	14	30	14
Return Air Smoke Detector	7	3	7	3	7	3	7	3
Supply Air Smoke Detector	7	3	7	3	7	3	7	3
Fan Filter Switch	2	1	2	1	2	1	2	1
Non-Fused Disconnect	15	7	15	7	15	7	15	7
Economizer	55	25	55	25	55	25	85	39
Powered Convenience Outlet ^c	36	16	36	16	36	16	36	16
Unpowered Convenience Outlet	4	2	4	2	4	2	4	2
Enthalpy Sensor	2	1	2	1	2	1	2	1
Differential Enthalpy Sensor	3	1	3	1	3	1	3	1
Humidi-MiZer System	25	11	34	15	34	15	55	25

NOTE(S):

- Where multiple variations are available, the heaviest combination is listed.
- Add the optional indoor motor weight to the weight of the base unit.
- Weight includes convenience outlet and convenience outlet transformer.

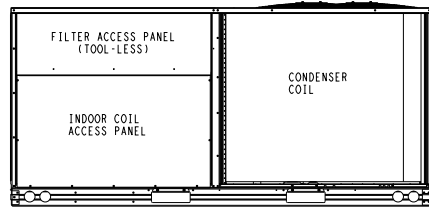
50GEQ 07-08 Base Unit Dimensions

NOTES:

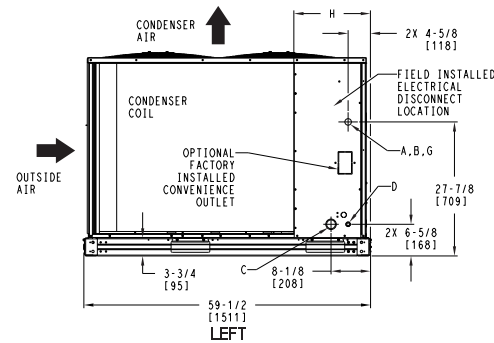
1. DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE IN MILLIMETERS.
2.  CENTER OF GRAVITY
3.  DIRECTION OF AIR FLOW
4.  ALL VIEW DRAWN USING 3RD ANGLE

UNIT	OUTDOOR COIL TYPE	J	K	H
50GEQ-07	RTPF	49 3/8 [1253]	36 3/8 [925]	15 7/8 [403]
50GEQ-08	RTPF	49 3/8 [1253]	36 3/8 [925]	15 7/8 [403]

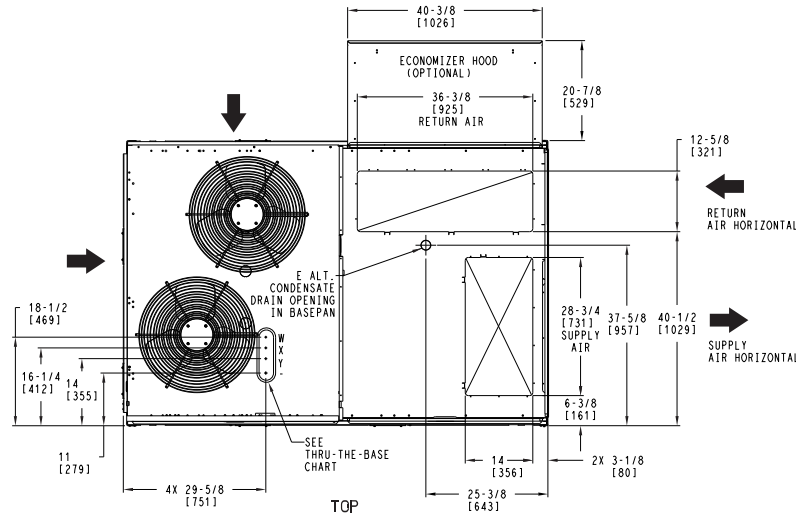
RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)



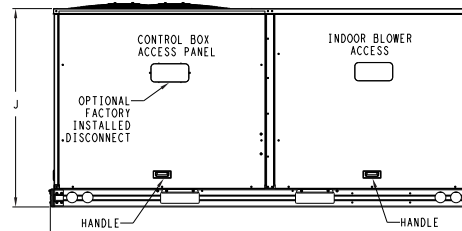
BACK



LEFT



TOP



FRONT



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CONNECTION SIZES		
A	1 3/8" [35]	FIELD POWER SUPPLY HOLE
B	2 1/2" [64]	DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [51]	DIA GAUGE ACCESS PLUG
D	7/8" [22]	DIA FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT	CONDENSATE DRAIN
G	2" [51]	DIA POWER SUPPLY KNOCK-OUT

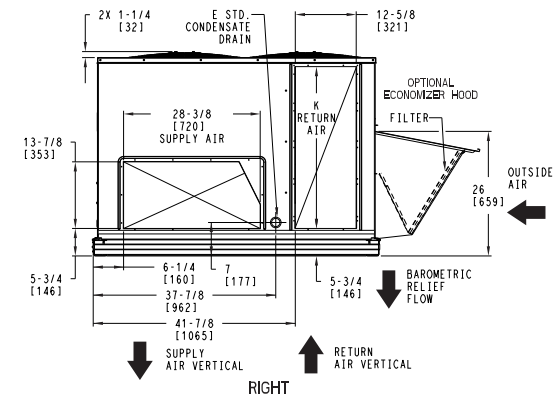
THRU-THE-BASE CHART (FIELD INST)

THESE HOLES REQUIRED FOR USE WITH ACCY KITS: CRBTMPWR002A01

	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
W	1/2"	ACC.	7/8" [22.2]
X	1/2"	24V	7/8" [22.2]
Y	1 1/4" [002]	POWER	1 3/4" [44.4]

THRU-THE-BASE CHART (FIOP)

FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X & Y ARE PROVIDED: (1) 1/2" & (1) 1 1/4" ELECTRICAL FITTINGS.



RIGHT

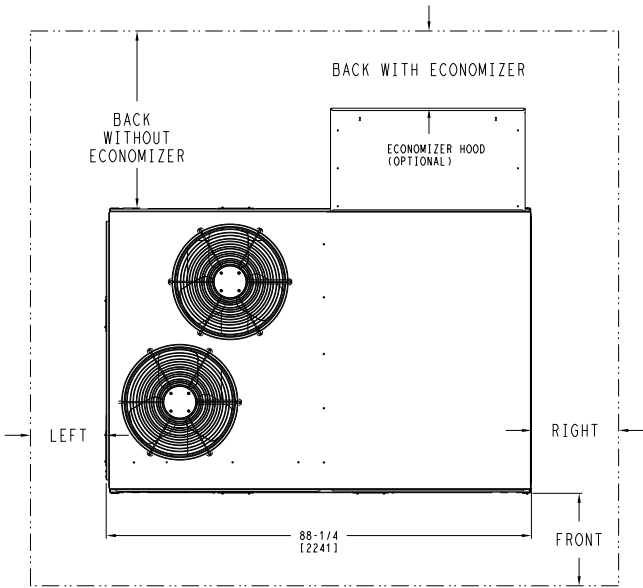
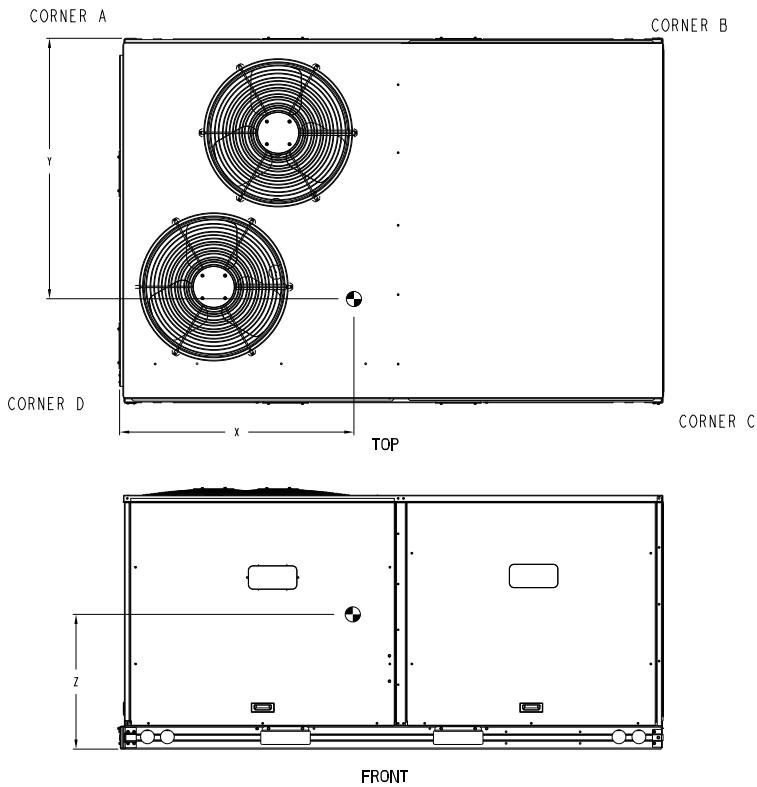
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	50GEQ 07,08 SINGLE ZONE ELECTRICAL HEAT PUMP	48TM009917	REV
U.S. ECCN:NSR	1 OF 3	07/11/25	5/30/24			A



50GEQ 07-08 Base Unit Dimensions (cont)

UNIT	OUTDOOR COIL TYPE	STD. UNIT WEIGHT ***		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
50GEQ-07	RTPF	805	365	163	74	209	95	243	110	190	86	38 5/8 [981]	32 [813]	19 1/8 [486]
50GEQ-08	RTPF	812	368	164	74	211	96	245	111	191	87	38 5/8 [981]	32 [813]	19 1/8 [486]

*** STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



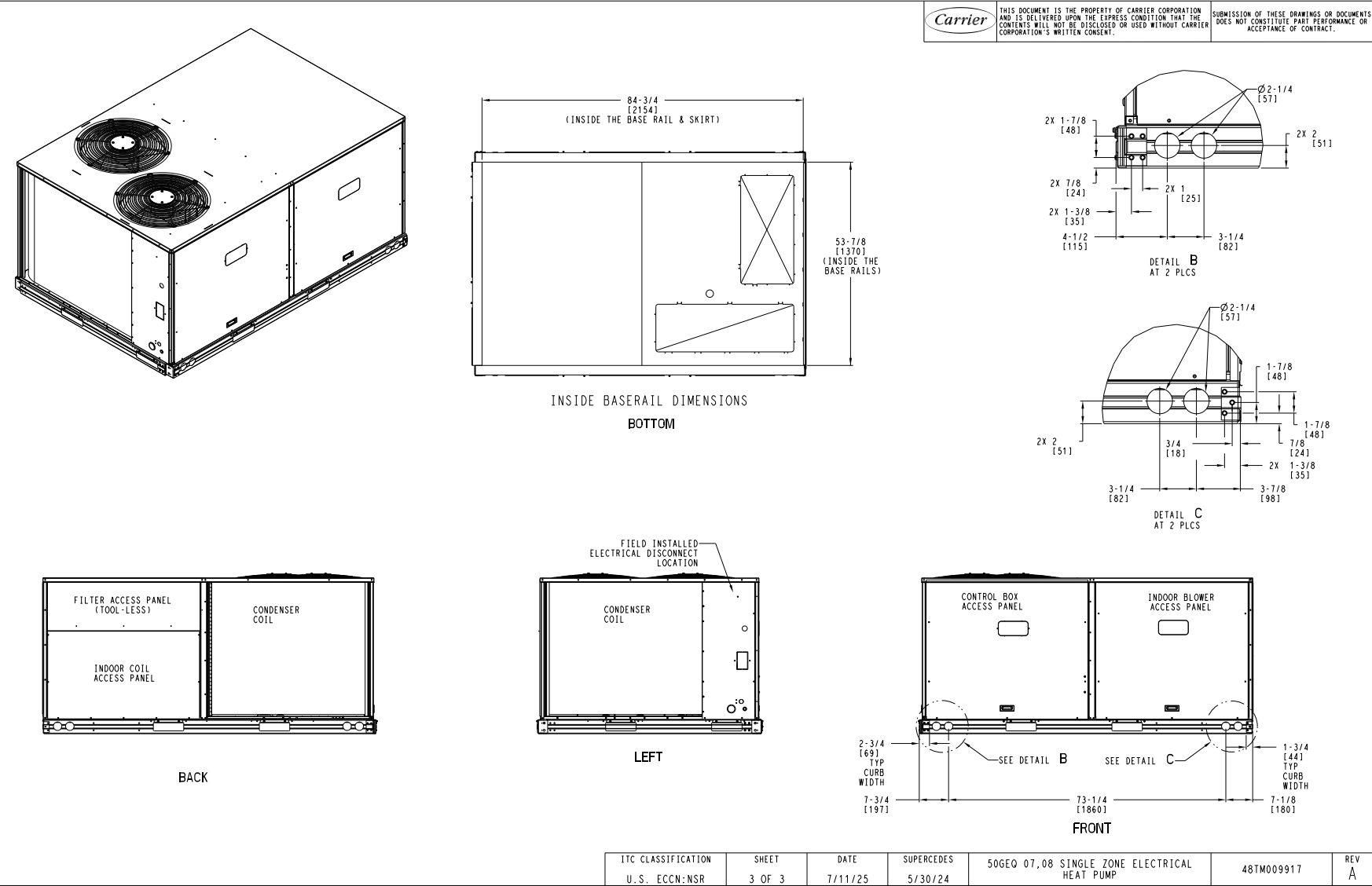
NOTE:
1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

SURFACE	CLEARANCE	
	SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER
FRONT	48 [1219mm]	36 [914mm]
LEFT	48 [1219mm]	42 [1067mm]
BACK W/O ECON	48 [1219mm]	42 [1067mm]
BACK W/ECON	36 [914mm]	36 [914mm]
RIGHT	36 [914mm]	36 [914mm]
TOP	72 [1829mm]	72 [1829mm]

ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 2 OF 3	DATE 7/11/25	SUPERCEDES 5/30/24	50GEQ 07,08 SINGLE ZONE ELECTRICAL HEAT PUMP	48TM009917	REV A
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50GEQ 07-08 Base Unit Dimensions (cont)



50GEQ 09 Base Unit Dimensions

NOTES:

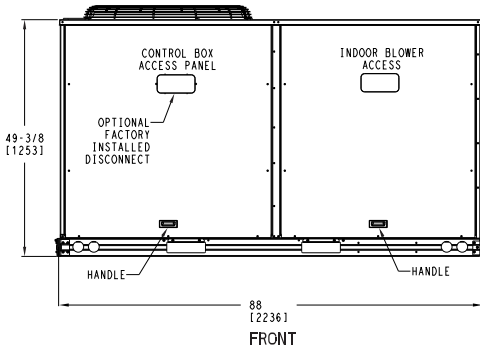
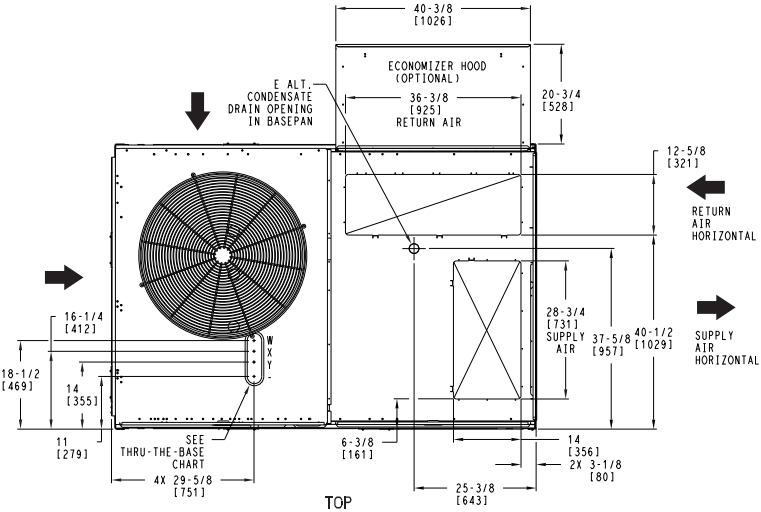
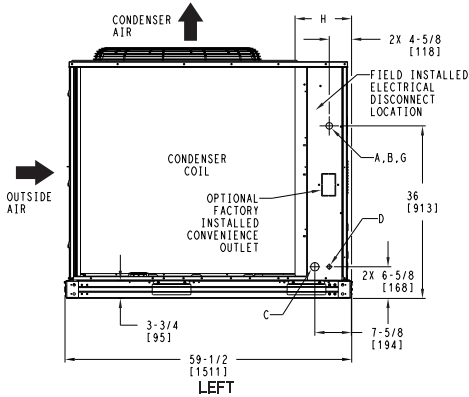
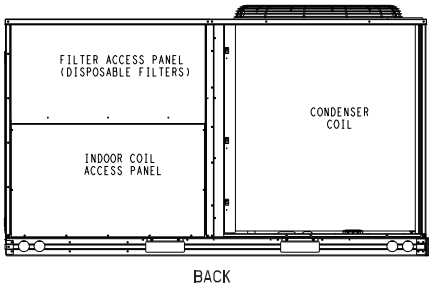
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2. CENTER OF GRAVITY

3. DIRECTION OF AIR FLOW

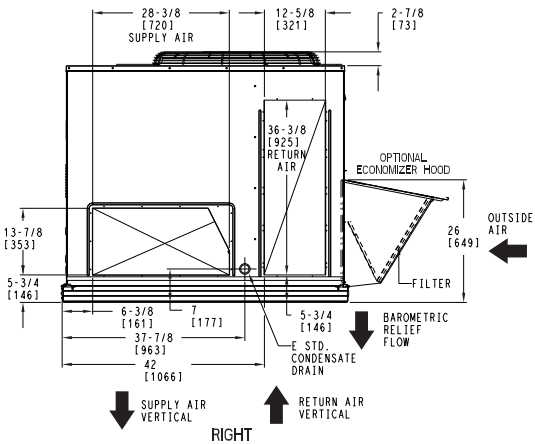
4. ALL VIEW DRAWN USING 3RD ANGLE

UNIT	OUTDOOR COIL TYPE	H
50GEQ 09	RTPF	15 7/8 [403]
RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)		



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ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	50GEQ 09 SINGLE ZONE ELECTRICAL HEAT PUMP	48TM009918	REV
U.S. ECCN:NSR	1 OF 3	7/11/25	5/30/24			A





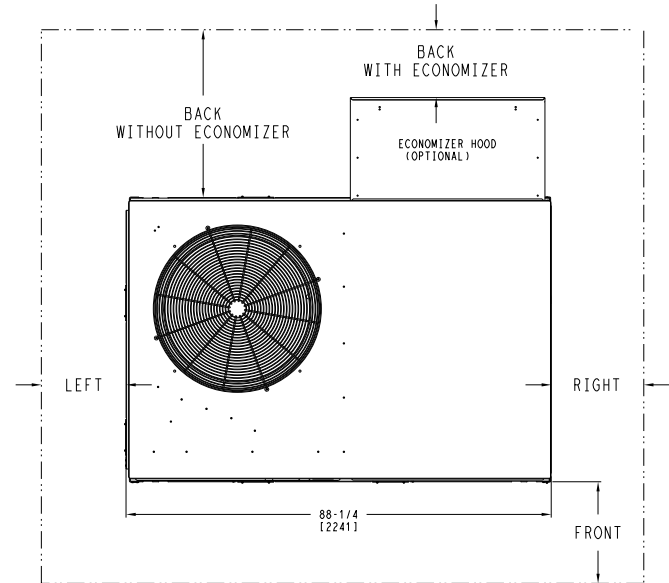
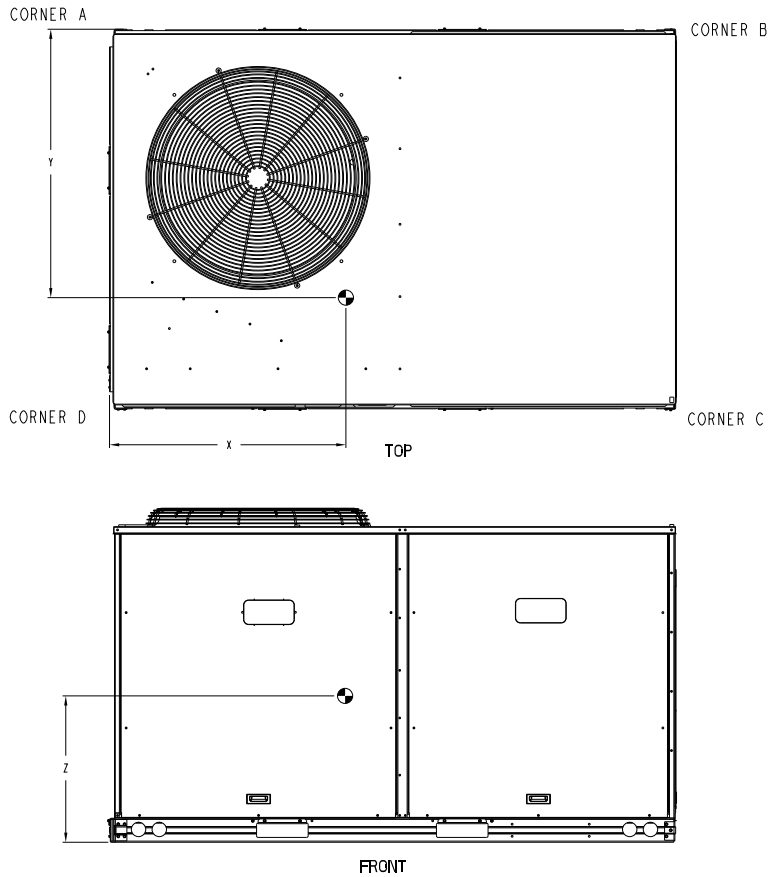
50GEQ 09 Base Unit Dimensions (cont)

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UNIT	OUTDOOR COIL TYPE	STD. UNIT WEIGHT***		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
50GEQ 09	RTPF	955	433	190	86	243	110	293	133	229	104	38 5/8 [981]	32 1/2 [826]	19 1/8 [486]

*** STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.

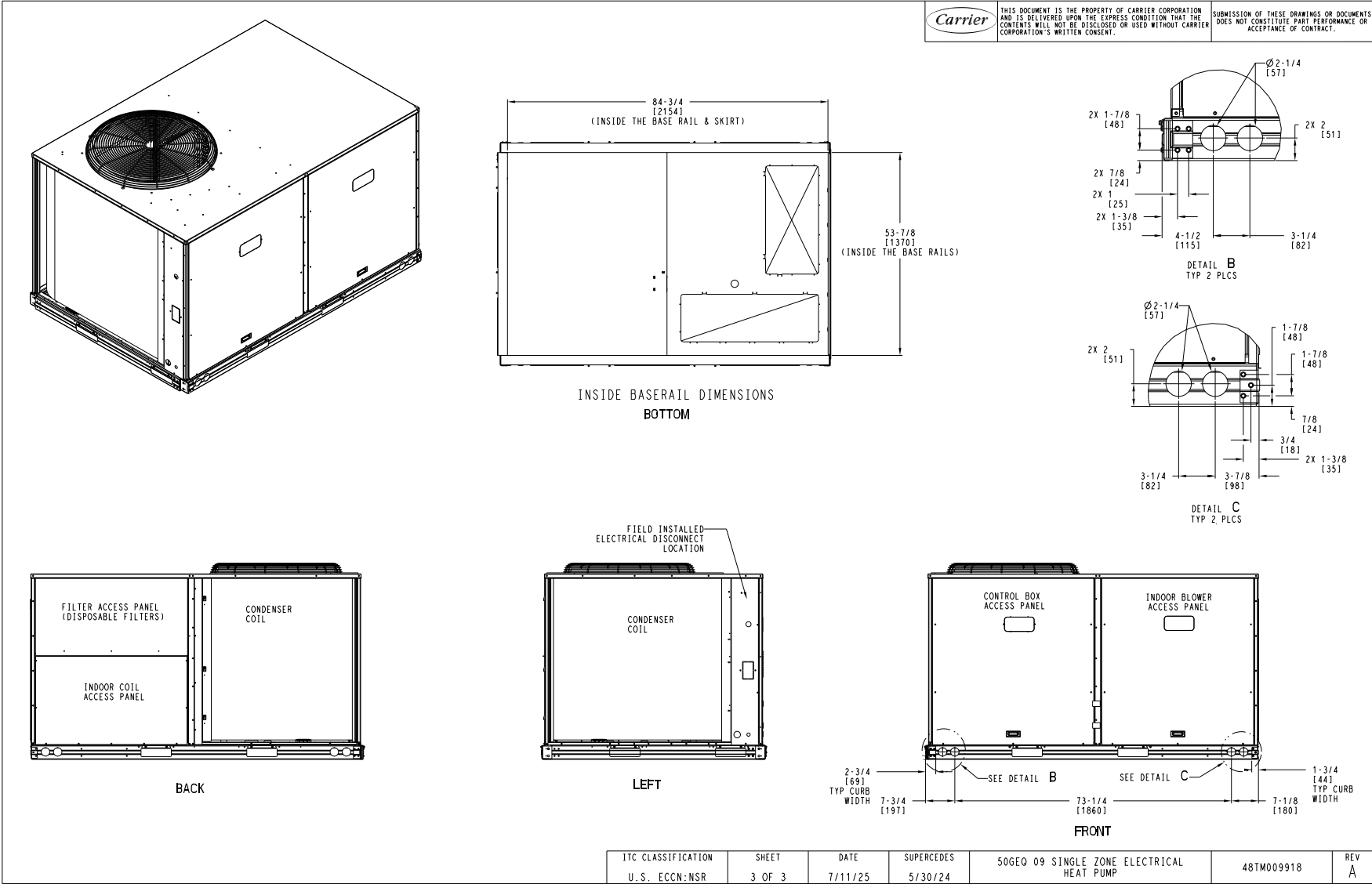


NOTE:
1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

SURFACE	CLEARANCE	
	SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER
FRONT	48 [1219mm]	36 [914mm]
LEFT	48 [1219mm]	42 [1067mm]
BACK W/O ECON	48 [1219mm]	42 [1067mm]
BACK W/ECON	36 [914mm]	36 [914mm]
RIGHT	36 [914mm]	36 [914mm]
TOP	72 [1829mm]	72 [1829mm]

ITC CLASSIFICATION U.S. ECCN: NSR	SHEET 2 OF 3	DATE 7/11/25	SUPERCEDES 5/30/24	50GEQ 09 SINGLE ZONE ELECTRICAL HEAT PUMP	48TM009918	REV A
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50GEQ 09 Base Unit Dimensions (cont)



50GEQ 12 Base Unit Dimensions

NOTES:

1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.
2.  CENTER OF GRAVITY
3.  DIRECTION OF AIR FLOW

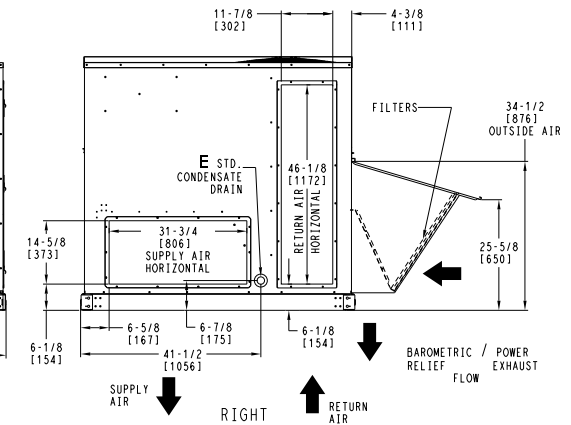
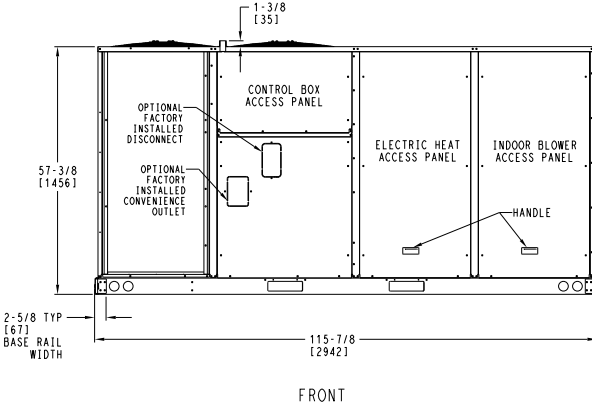
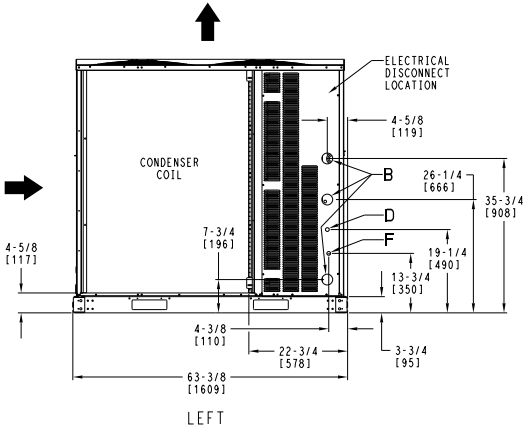
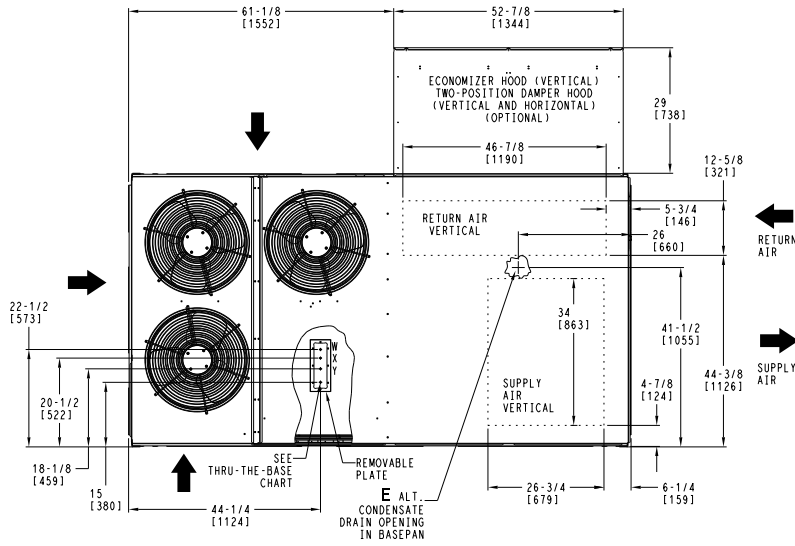
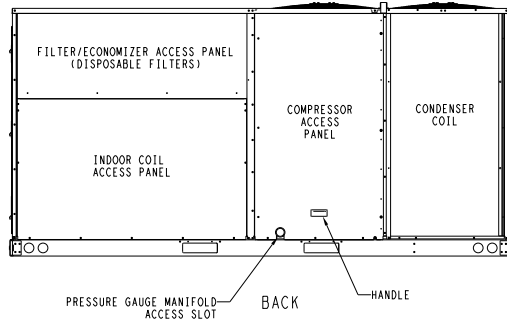


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CONNECTION SIZES	
B	2 1/2" [64] DIA POWER SUPPLY HOLE
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
F	7/8" [22] DIA FIELD CONVENIENCE OUTLET HOLE

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTMPWRO5A00,006A00,007A00				
ACCESSORY NO.		THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
005	W	1/2"	ACC.	7/8" [22.2]
	X	1/2"	24V	7/8" [22.2]
	Y	1 1/4"	POWER	1 1/2" [38.1]
006	W	1/2"	ACC.	7/8" [22.2]
	X	1/2"	24V	7/8" [22.2]
	Y	1 1/2"	POWER	2" [50.8]
007	W	1/2"	ACC.	7/8" [22.2]
	X	1/2"	24V	7/8" [22.2]
	Y	2"	POWER	2 1/2" [63.5]
FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR X & Y ARE PROVIDED AS SPECIFIED ON "006".				



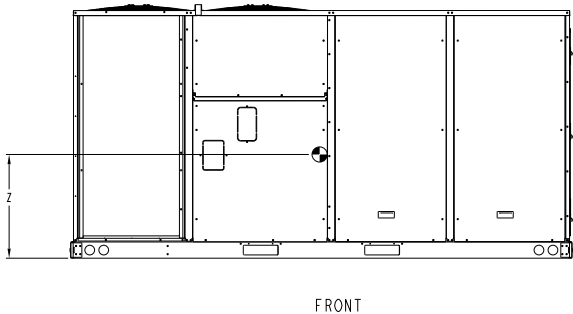
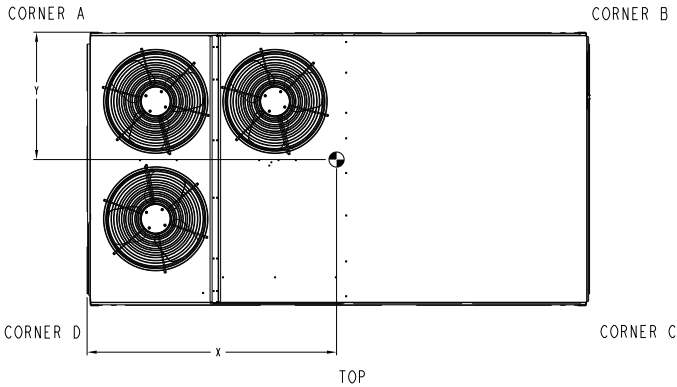
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	50GEQ 12 SINGLE ZONE ELECTRICAL HEAT PUMP	48TM009923	REV
U.S. ECCN:NSR	1 OF 2	7/11/25	5/31/24			A



50GEQ 12 Base Unit Dimensions (cont)

UNIT	STD UNIT WEIGHT		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
50GEQ-12	1250	567	350	159	338	153	277	126	286	130	57 [1448]	28 1/2 [724]	24 [610]

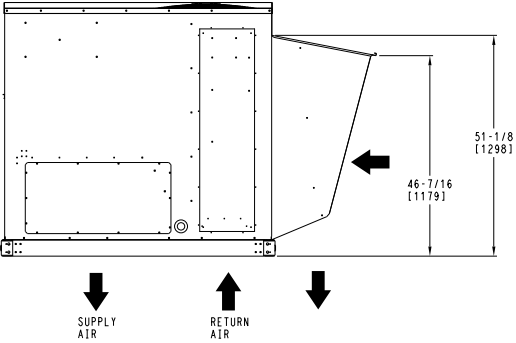
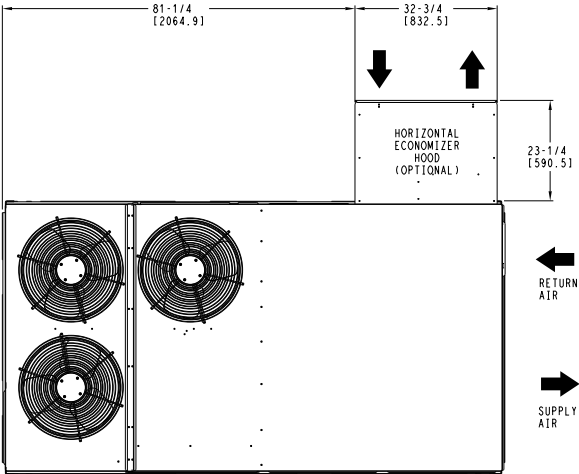
STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT & WITHOUT PACKAGING.
FOR OPTIONS & ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.





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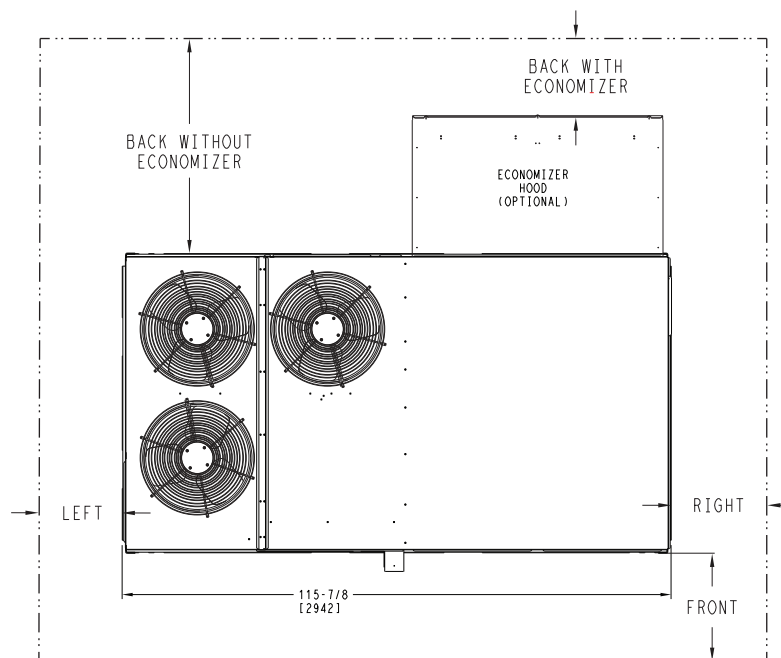


HORIZONTAL ECONOMIZER

ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 2 OF 2	DATE 7/11/25	SUPERCEDES 5/31/24	50GEQ 12 SINGLE ZONE ELECTRICAL HEAT PUMP	48TM009923	REV A
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50GEQ 12 Base Unit Dimensions — Clearances



CLEARANCE^{a,b}

SURFACE	Service with Conductive Barrier	Service with Non-conductive Barrier	Operating Clearance
FRONT	48 in. (1219 mm)	36 in. (914 mm)	18 in. (457 mm)
LEFT	48 in. (1219 mm)	42 in. (1067 mm)	18 in. (457 mm)
BACK WITHOUT ECONOMIZER	48 in. (1219 mm)	42 in. (1067 mm)	18 in. (457 mm)
BACK WITH ECONOMIZER	36 in. (914 mm)	36 in. (914 mm)	18 in. (457 mm)
RIGHT	36 in. (914 mm)	36 in. (914 mm)	18 in. (457 mm)
LEFT	72 in. (1829 mm)	72 in. (1829 mm)	72 in. (1829 mm)

NOTE(S):

- For all minimum clearances local codes or jurisdictions may prevail.
- See page 15 for 50GEQ 07-08 clearances. See page 18 for 50GEQ 09 clearances.

NOTES:

- 1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
- 2. INSULATED PANELS: 25 1/4" [1"] THK. POLYURETHANE FOAM, 44.5 [1-3/4"] DB DENSITY.
- 3. DIMENSIONS IN () ARE IN MILLIMETERS.
- 4. ROOFCURB: 18 GAGE STEEL
- 5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB).
- 6. SERVICE CLEARANCE 4 FEET ON EACH SIDE.
- 7.  DIRECTION OF AIR FLOW.
- 8. CONNECTOR PACKAGE CRBTPMPWR002A01 IS FOR THRU-THE-CURB GAS TYPE PACKAGE CRBTPMPWR004A01 IS FOR THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

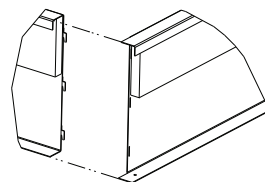
Technical drawing of a supply and return air grille assembly. The drawing shows a side view of the grille with various dimensions and labels.

Dimensions (inches and millimeters):

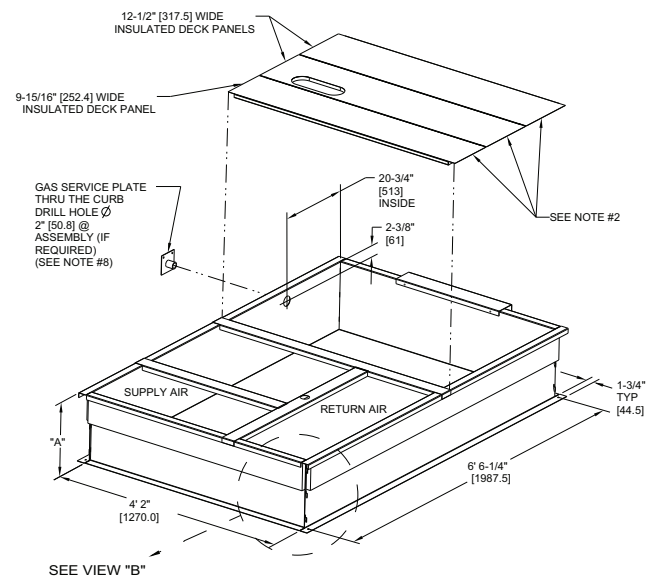
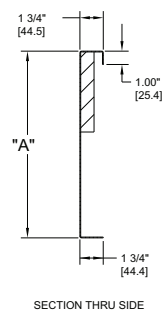
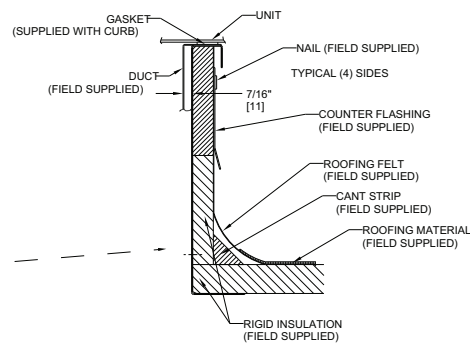
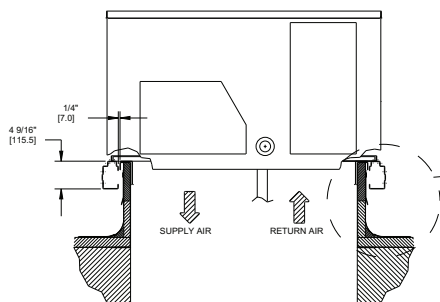
- Top width: 53 1/2" [1358.9]
- Top left offset: 6 3/64" [153.5]
- Top middle offset: 11.42" [290.0]
- Top right offset: 14 3/4" [374.7]
- Top right corner offset: 2 1/4" [57.2]
- Left side offset: 26" [660.4]
- Left side offset: 4 3/16" [106.0]
- Right side offset: Ø 1 3/4" [44.4]
- Right side offset: 81 3/4" [2076.3]
- Right side offset: 40 3/16" [1020.8]
- Right side offset: 23 1/16" [585.8]
- Right side offset: 15 15/32" [392.9]
- Bottom left offset: 1 3/4" [44.5]
- Bottom left offset: 15 13/16" [401.6]
- Bottom left offset: 1 3/4" [44.5]
- Bottom left offset: 3" [76.2]
- Bottom left offset: 32 9/16" [827.1]
- Bottom left offset: 31 17/32" [800.9]

Labels:

- SUPPLY AIR OPENING
- RETURN AIR OPENING



VIEW "B"
CORNER DETAIL



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TITLE	CURB ASY, ROOF
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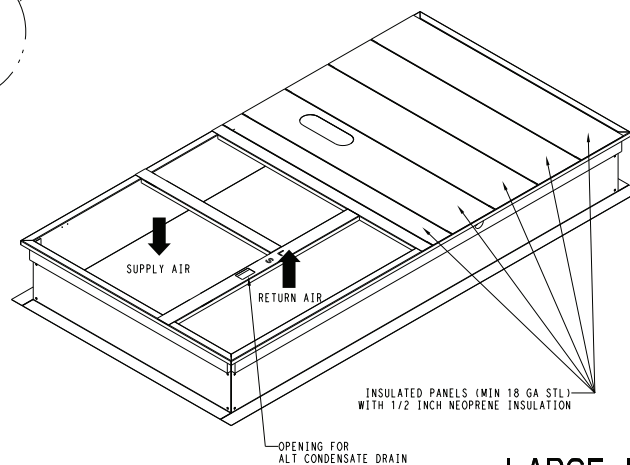
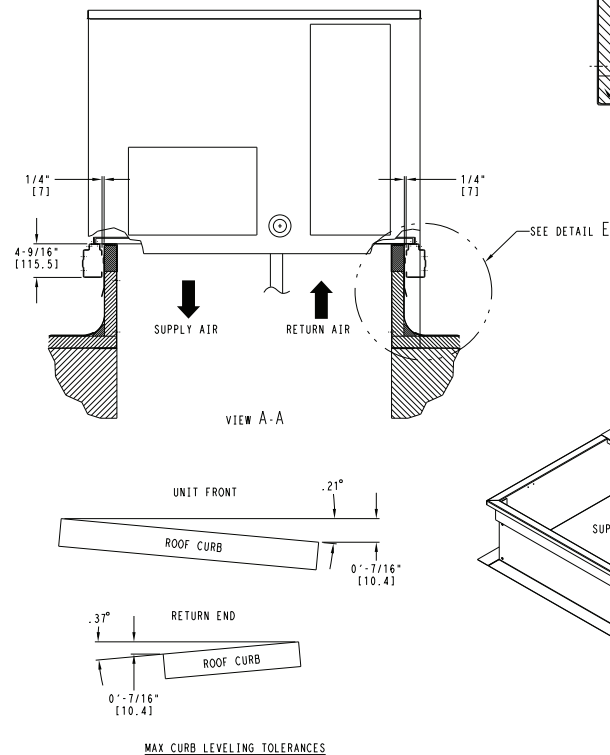
DRAWING NUMBER
50HJ405012

REV
C

Accessory dimensions (cont)

NOTES:

1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
2. INSULATED PANELS: 1/2" THK. NEOPRENE FOAM, 1.0# DENSITY.
3. DIMENSIONS IN [] ARE IN MILLIMETERS.
4. ROOFCURB SIDEWALLS: 16 GAGE STEEL.
5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB).
6. SERVICE CLEARANCE 4 FT ON EACH SIDE.
7.  DIRECTION OF AIR FLOW.
8. "L" & "S" DESIGNATIONS DENOTE LOCATION OF COMMON CROSS RAIL.
(POSITION "L" FOR LARGE DUCT OPENING CURB).



LARGE DUCT OPENINGS

50TM500780

50GEQ*07 Three Stage Cooling Capacities

50GEQ*07				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1800 cfm	EA (wb)	58	TC	66	66	74.4	64.1	64.1	72.3	61.6	61.6	69.4	58.9	58.9	66.3	55.8	55.8	62.9
			SHC	57.6	66	74.4	56	64.1	72.3	53.8	61.6	69.4	51.4	58.9	66.3	48.7	55.8	62.9
		62	TC	69	69	71.3	66.6	66.6	70.1	63.4	63.4	68.5	59.9	59.9	66.8	56.2	56.2	64.7
			SHC	52.4	61.9	71.3	51.2	60.6	70.1	49.6	59.1	68.5	48	57.4	66.8	46.1	55.4	64.7
		67	TC	75.6	75.6	75.6	73.2	73.2	73.2	69.7	69.7	69.7	65.9	65.9	65.9	61.8	61.8	61.8
			SHC	43.1	52.7	62.2	41.9	51.4	60.9	40.4	49.9	59.4	38.8	48.3	57.8	37.1	46.6	56.1
		72	TC	82.9	82.9	82.9	80.4	80.4	80.4	76.6	76.6	76.6	72.6	72.6	72.6	68.2	68.2	68.2
			SHC	33.7	43.2	52.8	32.3	41.9	51.5	30.9	40.5	50	29.4	38.9	48.5	27.7	37.3	46.8
		76	TC	—	89.2	89.2	—	86.6	86.6	—	82.6	82.6	—	78.3	78.3	—	73.6	73.6
			SHC	—	35.6	45.5	—	34.2	44.1	—	32.8	42.6	—	31.3	41	—	29.6	39.4
2100 cfm	EA (wb)	58	TC	69.5	69.5	78.4	67.6	67.6	76.2	64.9	64.9	73.1	61.9	61.9	69.8	58.6	58.6	66.1
			SHC	60.7	69.5	78.4	59	67.6	76.2	56.6	64.9	73.1	54	61.9	69.8	51.2	58.6	66.1
		62	TC	71.1	71.1	78.2	68.7	68.7	76.9	65.4	65.4	75	62	62	72.5	58.7	58.7	68.7
			SHC	56.4	67.3	78.2	55.2	66	76.9	53.5	64.3	75	51.5	62	72.5	48.7	58.7	68.7
		67	TC	77.7	77.7	77.7	75.2	75.2	75.2	71.5	71.5	71.5	67.6	67.6	67.6	63.2	63.2	63.2
			SHC	45.8	56.8	67.8	44.5	55.5	66.5	43	54	65	41.4	52.4	63.4	39.7	50.7	61.6
		72	TC	85.2	85.2	85.2	82.6	82.6	82.6	78.6	78.6	78.6	74.3	74.3	74.3	69.7	69.7	69.7
			SHC	34.8	45.9	57	33.5	44.5	55.6	32	43	54.1	30.4	41.5	52.5	28.8	39.8	50.8
		76	TC	—	91.6	91.6	—	88.9	88.9	—	84.7	84.7	—	80.1	80.1	—	75.2	75.2
			SHC	—	37.1	48.4	—	35.6	46.9	—	34.2	45.4	—	32.6	43.8	—	30.9	42.1
2400 cfm	EA (wb)	58	TC	72.5	72.5	81.7	70.5	70.5	79.4	67.6	67.6	76.2	64.4	64.4	72.6	61	61	68.7
			SHC	63.3	72.5	81.7	61.5	70.5	79.4	59	67.6	76.2	56.2	64.4	72.6	53.2	61	68.7
		62	TC	73.5	73.5	81.9	71.3	71.3	79.4	67.6	67.6	79.1	64.5	64.5	75.4	61	61	71.4
			SHC	58.9	70.4	81.9	57.1	68.3	79.4	56.2	67.6	79.1	53.6	64.5	75.4	50.7	61	71.4
		67	TC	79.4	79.4	79.4	76.8	76.8	76.8	72.9	72.9	72.9	68.8	68.8	68.8	64.4	64.4	66.9
			SHC	48.3	60.8	73.3	47	59.5	71.9	45.5	58	70.4	43.9	56.3	68.7	42.1	54.5	66.9
		72	TC	86.9	86.9	86.9	84.2	84.2	84.2	80.1	80.1	80.1	75.7	75.7	75.7	70.9	70.9	70.9
			SHC	35.9	48.5	61	34.5	47	59.5	33	45.5	58	31.4	43.9	56.4	29.7	42.2	54.7
		76	TC	—	93.4	93.4	—	90.6	90.6	—	86.3	86.3	—	81.5	81.5	—	76.5	76.5
			SHC	—	38.4	51.2	—	36.9	49.6	—	35.4	48.1	—	33.8	46.5	—	32.2	44.8
2700 cfm	EA (wb)	58	TC	75	75	84.6	72.9	72.9	82.2	69.9	69.9	78.8	66.6	66.6	75	63	63	71
			SHC	65.5	75	84.6	63.7	72.9	82.2	61	69.9	78.8	58.1	66.6	75	55	63	71
		62	TC	76	76	84	73	73	85.3	70	70	81.8	66.6	66.6	77.9	63	63	73.7
			SHC	60.5	72.3	84	60.6	73	85.3	58.1	70	81.8	55.3	66.6	77.9	52.3	63	73.7
		67	TC	80.7	80.7	80.7	78	78	78	74.1	74.1	75.6	69.9	69.9	73.9	65.3	65.3	72
			SHC	50.8	64.7	78.6	49.5	63.4	77.2	47.9	61.8	75.6	46.3	60.1	73.9	44.5	58.2	72
		72	TC	88.3	88.3	88.3	85.5	85.5	85.5	81.2	81.2	81.2	76.7	76.7	76.7	71.8	71.8	71.8
			SHC	37	50.9	64.9	35.4	49.4	63.3	33.9	47.8	61.8	32.3	46.2	60.2	30.6	44.5	58.4
		76	TC	—	94.7	94.7	—	91.9	91.9	—	87.5	87.5	—	82.7	82.7	—	77.5	77.5
			SHC	—	39.7	53.9	—	38	52.2	—	36.6	50.7	—	35	49	—	33.3	47.3
3000 cfm	EA (wb)	58	TC	77.2	77.2	87	75	75	84.6	71.9	71.9	81	68.4	68.4	77.1	64.7	64.7	72.9
			SHC	67.4	77.2	87	65.5	75	84.6	62.7	71.9	81	59.7	68.4	77.1	56.4	64.7	72.9
		62	TC	77.3	77.3	90.4	75.1	75.1	87.8	71.9	71.9	84.1	68.5	68.5	80.1	64.7	64.7	75.7
			SHC	64.2	77.3	90.4	62.3	75.1	87.8	59.7	71.9	84.1	56.9	68.5	80.1	53.7	64.7	75.7
		67	TC	81.7	81.7	83.6	79	79	82.3	75	75	80.6	70.7	70.7	78.8	66.1	66.1	76.7
			SHC	53.1	68.3	83.6	51.8	67	82.3	50.2	65.4	80.6	48.5	63.6	78.8	46.6	61.7	76.7
		72	TC	89.3	89.3	89.3	86.6	86.6	86.6	82.1	82.1	82.1	77.6	77.6	77.6	72.6	72.6	72.6
			SHC	37.9	53.3	68.6	36.3	51.7	67	34.8	50.1	65.5	33.2	48.5	63.8	31.5	46.8	62.1
		76	TC	—	95.9	95.9	—	93	93	—	88.5	88.5	—	83.6	83.6	—	78.3	78.3
			SHC	—	41	56.5	—	39.1	54.7	—	37.7	53.1	—	36.1	51.5	—	34.4	49.7

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQ*07 Two Stage Cooling Capacities

50GEQ*07				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1080 cfm	EA (wb)	58	TC	39.7	39.7	44.7	38.3	38.3	43.2	36.9	36.9	41.6	35.3	35.3	39.7	33.5	33.5	37.7
			SHC	34.6	39.7	44.7	33.5	38.3	43.2	32.2	36.9	41.6	30.8	35.3	39.7	29.2	33.5	37.7
		62	TC	41.8	41.8	42.4	40.1	40.1	41.6	38.2	38.2	40.6	36.1	36.1	39.6	33.9	33.9	38.4
			SHC	31.3	36.9	42.4	30.5	36.0	41.6	29.6	35.1	40.6	28.6	34.1	39.6	27.5	33.0	38.4
		67	TC	46.0	46.0	46.0	44.2	44.2	44.2	42.1	42.1	42.1	39.9	39.9	39.9	37.5	37.5	37.5
			SHC	26.0	31.6	37.1	25.2	30.8	36.3	24.3	29.9	35.4	23.4	28.9	34.5	22.4	27.9	33.5
		72	TC	50.7	50.7	50.7	48.7	48.7	48.7	46.5	46.5	46.5	44.1	44.1	44.1	41.5	41.5	41.5
			SHC	20.5	26.1	31.8	19.7	25.4	31.0	18.9	24.5	30.1	18.0	23.6	29.2	17.0	22.6	28.2
		76	TC	—	54.7	54.7	—	52.5	52.5	—	50.2	50.2	—	47.7	47.7	—	44.9	44.9
			SHC	—	21.7	27.6	—	20.9	26.8	—	20.1	25.9	—	19.2	24.9	—	18.2	24.0
1260 cfm	EA (wb)	58	TC	41.9	41.9	47.2	40.4	40.4	45.6	38.9	38.9	43.8	37.1	37.1	41.8	35.2	35.2	39.7
			SHC	36.6	41.9	47.2	35.3	40.4	45.6	33.9	38.9	43.8	32.4	37.1	41.8	30.7	35.2	39.7
		62	TC	43.2	43.2	46.4	41.4	41.4	45.5	39.4	39.4	44.5	37.2	37.2	43.3	35.3	35.3	41.2
			SHC	33.7	40.1	46.4	32.8	39.2	45.5	31.9	38.2	44.5	30.8	37.0	43.3	29.3	35.3	41.2
		67	TC	47.4	47.4	47.4	45.5	45.5	45.5	43.3	43.3	43.3	41.0	41.0	41.0	38.4	38.4	38.4
			SHC	27.6	34.0	40.4	26.8	33.2	39.6	25.9	32.3	38.7	24.9	31.3	37.7	23.9	30.3	36.7
		72	TC	52.2	52.2	52.2	50.0	50.0	50.0	47.7	47.7	47.7	45.2	45.2	45.2	42.5	42.5	42.5
			SHC	21.3	27.7	34.2	20.5	26.9	33.4	19.6	26.0	32.5	18.7	25.1	31.5	17.7	24.1	30.5
		76	TC	—	56.2	56.2	—	54.0	54.0	—	51.5	51.5	—	48.9	48.9	—	46.0	46.0
			SHC	—	22.6	29.3	—	21.8	28.4	—	21.0	27.6	—	20.0	26.6	—	19.1	25.6
1440 cfm	EA (wb)	58	TC	43.7	43.7	49.3	42.2	42.2	47.6	40.5	40.5	45.7	38.7	38.7	43.6	36.7	36.7	41.3
			SHC	38.2	43.7	49.3	36.9	42.2	47.6	35.4	40.5	45.7	33.8	38.7	43.6	32.0	36.7	41.3
		62	TC	44.3	44.3	50.0	42.5	42.5	49.0	40.6	40.6	47.5	38.7	38.7	45.3	36.3	36.3	42.8
			SHC	35.9	43.0	50.0	34.9	42.0	49.0	33.7	40.6	47.5	32.2	38.7	45.3	29.9	36.3	42.8
		67	TC	48.5	48.5	48.5	46.5	46.5	46.5	44.2	44.2	44.2	41.8	41.8	41.8	39.1	39.1	39.7
			SHC	29.1	36.3	43.5	28.2	35.5	42.7	27.3	34.5	41.8	26.3	33.6	40.8	25.3	32.5	39.7
		72	TC	53.3	53.3	53.3	51.1	51.1	51.1	48.7	48.7	48.7	46.1	46.1	46.1	43.3	43.3	43.3
			SHC	21.9	29.2	36.5	21.1	28.4	35.7	20.2	27.5	34.8	19.3	26.5	33.8	18.3	25.5	32.8
		76	TC	—	57.4	57.4	—	55.1	55.1	—	52.5	52.5	—	49.8	49.8	—	46.8	46.8
			SHC	—	23.4	30.9	—	22.6	30.1	—	21.8	29.2	—	20.8	28.2	—	19.8	27.2
1620 cfm	EA (wb)	58	TC	45.3	45.3	51.1	43.7	43.7	49.3	42.0	42.0	47.3	40.0	40.0	45.1	37.9	37.9	42.7
			SHC	39.6	45.3	51.1	38.2	43.7	49.3	36.6	42.0	47.3	34.9	40.0	45.1	33.1	37.9	42.7
		62	TC	45.4	45.4	53.1	43.8	43.8	51.2	42.0	42.0	49.1	40.1	40.1	46.9	38.0	38.0	44.4
			SHC	37.7	45.4	53.1	36.3	43.8	51.2	34.9	42.0	49.1	33.3	40.1	46.9	31.5	38.0	44.4
		67	TC	49.4	49.4	49.4	47.3	47.3	47.3	44.9	44.9	44.9	42.4	42.4	43.8	39.7	39.7	42.6
			SHC	30.5	38.5	46.6	29.6	37.7	45.7	28.7	36.7	44.8	27.7	35.7	43.8	26.6	34.6	42.6
		72	TC	54.2	54.2	54.2	52.0	52.0	52.0	49.5	49.5	49.5	46.8	46.8	46.8	43.9	43.9	43.9
			SHC	22.5	30.6	38.7	21.7	29.8	37.9	20.8	28.9	37.0	19.8	27.9	36.0	18.8	26.9	35.0
		76	TC	—	58.4	58.4	—	56.0	56.0	—	53.4	53.4	—	50.5	50.5	—	47.5	47.5
			SHC	—	24.2	32.4	—	23.4	31.6	—	22.5	30.7	—	21.6	29.8	—	20.5	28.7
1800 cfm	EA (wb)	58	TC	46.7	46.7	52.6	45.0	45.0	50.7	43.2	43.2	48.7	41.2	41.2	46.4	39.0	39.0	43.9
			SHC	40.8	46.7	52.6	39.3	45.0	50.7	37.7	43.2	48.7	36.0	41.2	46.4	34.0	39.0	43.9
		62	TC	46.7	46.7	54.7	45.1	45.1	52.7	43.2	43.2	50.6	41.2	41.2	48.2	39.0	39.0	45.6
			SHC	38.8	46.7	54.7	37.4	45.1	52.7	35.9	43.2	50.6	34.2	41.2	48.2	32.4	39.0	45.6
		67	TC	50.1	50.1	50.1	47.9	47.9	48.7	45.5	45.5	47.7	43.0	43.0	46.6	40.2	40.2	45.4
			SHC	31.8	40.7	49.6	31.0	39.8	48.7	30.0	38.8	47.7	29.0	37.8	46.6	27.9	36.6	45.4
		72	TC	55.0	55.0	55.0	52.6	52.6	52.6	50.1	50.1	50.1	47.4	47.4	47.4	44.4	44.4	44.4
			SHC	23.1	32.0	40.9	22.3	31.2	40.0	21.4	30.2	39.1	20.4	29.3	38.1	19.4	28.2	37.1
		76	TC	—	59.2	59.2	—	56.7	56.7	—	54.0	54.0	—	51.1	51.1	—	48.0	48.0
			SHC	—	24.9	33.9	—	24.1	33.1	—	23.2	32.2	—	22.3	31.2	—	21.3	30.2

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQ*07 One Stage Cooling Capacities

50GEQ*07				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
720 cfm	EA (wb)	58	TC	27.0	27.0	30.4	26.1	26.1	29.4	25.2	25.2	28.4	24.1	24.1	27.2	22.9	22.9	25.8
			SHC	23.5	27.0	30.4	22.8	26.1	29.4	22.0	25.2	28.4	21.0	24.1	27.2	20.0	22.9	25.8
		62	TC	28.4	28.4	28.9	27.2	27.2	28.3	26.0	26.0	27.7	24.7	24.7	27.1	23.2	23.2	26.3
			SHC	21.3	25.1	28.9	20.8	24.6	28.3	20.2	24.0	27.7	19.5	23.3	27.1	18.8	22.6	26.3
		67	TC	31.4	31.4	31.4	30.1	30.1	30.1	28.8	28.8	28.8	27.3	27.3	27.3	25.6	25.6	25.6
			SHC	17.7	21.5	25.3	17.2	21.0	24.8	16.6	20.4	24.2	16.0	19.8	23.6	15.3	19.1	22.9
	EA (wb)	72	TC	34.7	34.7	34.7	33.3	33.3	33.3	31.8	31.8	31.8	30.2	30.2	30.2	28.4	28.4	28.4
			SHC	14.0	17.9	21.7	13.5	17.3	21.1	12.9	16.7	20.6	12.3	16.1	19.9	11.6	15.4	19.3
		76	TC	—	37.6	37.6	—	36.1	36.1	—	34.5	34.5	—	32.8	32.8	—	30.8	30.8
			SHC	—	14.9	18.9	—	14.3	18.3	—	13.8	17.7	—	13.2	17.1	—	12.5	16.4
840 cfm	EA (wb)	58	TC	28.5	28.5	32.2	27.6	27.6	31.1	26.6	26.6	29.9	25.4	25.4	28.6	24.1	24.1	27.2
			SHC	24.9	28.5	32.2	24.1	27.6	31.1	23.2	26.6	29.9	22.2	25.4	28.6	21.1	24.1	27.2
		62	TC	29.4	29.4	31.7	28.2	28.2	31.1	26.9	26.9	30.5	25.5	25.5	29.6	24.2	24.2	28.3
			SHC	23.0	27.4	31.7	22.4	26.8	31.1	21.8	26.1	30.5	21.0	25.3	29.6	20.1	24.2	28.3
		67	TC	32.4	32.4	32.4	31.0	31.0	31.0	29.6	29.6	29.6	28.0	28.0	28.0	26.3	26.3	26.3
			SHC	18.8	23.2	27.6	18.3	22.7	27.1	17.7	22.1	26.5	17.0	21.4	25.8	16.3	20.7	25.1
	EA (wb)	72	TC	35.8	35.8	35.8	34.3	34.3	34.3	32.7	32.7	32.7	31.0	31.0	31.0	29.2	29.2	29.2
			SHC	14.6	19.0	23.4	14.0	18.4	22.8	13.4	17.8	22.2	12.8	17.2	21.6	12.1	16.5	20.9
		76	TC	—	38.7	38.7	—	37.1	37.1	—	35.4	35.4	—	33.6	33.6	—	31.6	31.6
			SHC	—	15.6	20.1	—	15.0	19.6	—	14.4	18.9	—	13.8	18.2	—	13.1	17.5
960 cfm	EA (wb)	58	TC	29.9	29.9	33.7	28.8	28.8	32.5	27.7	27.7	31.3	26.5	26.5	29.9	25.2	25.2	28.4
			SHC	26.1	29.9	33.7	25.2	28.8	32.5	24.2	27.7	31.3	23.2	26.5	29.9	22.0	25.2	28.4
		62	TC	30.1	30.1	34.3	29.4	29.4	31.7	27.8	27.8	32.5	26.6	26.6	31.1	25.2	25.2	29.5
			SHC	24.5	29.4	34.3	23.0	27.4	31.7	23.1	27.8	32.5	22.0	26.6	31.1	20.9	25.2	29.5
		67	TC	33.2	33.2	33.2	31.7	31.7	31.7	30.3	30.3	30.3	28.6	28.6	28.6	26.8	26.8	27.3
			SHC	19.9	24.9	29.8	19.3	24.3	29.3	18.7	23.7	28.6	18.0	23.0	28.0	17.3	22.3	27.3
	EA (wb)	72	TC	36.6	36.6	36.6	35.1	35.1	35.1	33.4	33.4	33.4	31.7	31.7	31.7	29.7	29.7	29.7
			SHC	15.0	20.1	25.1	14.5	19.5	24.5	13.9	18.9	23.9	13.2	18.2	23.2	12.5	17.5	22.5
		76	TC	—	39.6	39.6	—	38.0	38.0	—	36.2	36.2	—	34.3	34.3	—	32.2	32.2
			SHC	—	16.1	21.3	—	15.6	20.7	—	15.0	20.0	—	14.3	19.4	—	13.6	18.7
1080 cfm	EA (wb)	58	TC	31.0	31.0	34.9	29.9	29.9	33.7	28.8	28.8	32.4	27.5	27.5	31.0	26.0	26.0	29.4
			SHC	27.1	31.0	34.9	26.1	29.9	33.7	25.1	28.8	32.4	24.0	27.5	31.0	22.7	26.0	29.4
		62	TC	31.0	31.0	36.3	29.9	29.9	35.0	28.8	28.8	33.7	27.5	27.5	32.2	26.1	26.1	30.5
			SHC	25.8	31.0	36.3	24.9	29.9	35.0	23.9	28.8	33.7	22.8	27.5	32.2	21.6	26.1	30.5
		67	TC	33.8	33.8	33.8	32.3	32.3	32.3	30.8	30.8	30.8	29.1	29.1	30.1	27.2	27.2	29.3
			SHC	20.9	26.4	32.0	20.3	25.9	31.4	19.7	25.2	30.8	19.0	24.5	30.1	18.3	23.8	29.3
	EA (wb)	72	TC	37.3	37.3	37.3	35.7	35.7	35.7	34.0	34.0	34.0	32.2	32.2	32.2	30.2	30.2	30.2
			SHC	15.5	21.1	26.6	14.9	20.5	26.0	14.3	19.9	25.4	13.6	19.2	24.8	12.9	18.5	24.0
		76	TC	—	40.4	40.4	—	38.6	38.6	—	36.8	36.8	—	34.9	34.9	—	32.7	32.7
			SHC	—	16.7	22.4	—	16.1	21.8	—	15.5	21.1	—	14.8	20.5	—	14.1	19.7
1200 cfm	EA (wb)	58	TC	32.0	32.0	36.1	30.9	30.9	34.8	29.6	29.6	33.4	28.3	28.3	31.9	26.8	26.8	30.2
			SHC	27.9	32.0	36.1	26.9	30.9	34.8	25.9	29.6	33.4	24.7	28.3	31.9	23.4	26.8	30.2
		62	TC	32.0	32.0	37.5	30.9	30.9	36.1	29.7	29.7	34.7	28.3	28.3	33.1	26.8	26.8	31.4
			SHC	26.6	32.0	37.5	25.6	30.9	36.1	24.6	29.7	34.7	23.5	28.3	33.1	22.3	26.8	31.4
		67	TC	34.3	34.3	34.3	32.8	32.8	33.5	31.2	31.2	32.8	29.5	29.5	32.1	27.6	27.6	31.3
			SHC	21.9	28.0	34.1	21.3	27.4	33.5	20.6	26.7	32.8	19.9	26.0	32.1	19.2	25.2	31.3
	EA (wb)	72	TC	37.9	37.9	37.9	36.2	36.2	36.2	34.5	34.5	34.5	32.6	32.6	32.6	30.5	30.5	30.5
			SHC	15.9	22.0	28.2	15.3	21.4	27.6	14.7	20.8	26.9	14.0	20.2	26.3	13.3	19.4	25.5
		76	TC	—	41.0	41.0	—	39.2	39.2	—	37.3	37.3	—	35.3	35.3	—	33.1	33.1
			SHC	—	17.2	23.5	—	16.6	22.8	—	16.0	22.2	—	15.4	21.5	—	14.6	20.8

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQU07 — Unit with Humidi-MiZer® System in Subcooling Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR - (°F)								
		80 Dry Bulb 62 Wet Bulb (36% Relative)			80 Dry Bulb 67 Wet Bulb (51% Relative)			80 Dry Bulb 72 Wet Bulb (68% Relative)		
		AIR ENTERING EVAPORATOR - SCFM / STATIC								
		1800	2400	3000	1800	2400	3000	1800	2400	3000
75	TC	69.7	75.3	80.0	78.8	84.4	89.8	89.4	93.1	101.3
	SHC	59.4	71.8	82.5	47.0	56.9	65.6	34.9	44.2	46.6
	kW	4.3	4.5	4.5	4.4	4.5	4.5	4.4	4.5	4.5
85	TC	64.5	69.7	74.1	73.0	78.5	83.1	82.8	86.2	93.8
	SHC	54.0	65.3	75.0	42.8	52.1	59.6	31.8	40.2	42.4
	kW	4.8	5.0	5.0	4.8	5.0	5.0	4.8	5.0	5.0
95	TC	59.8	64.5	68.6	67.6	72.2	77.0	76.6	79.8	86.8
	SHC	49.1	59.4	68.2	38.9	46.6	54.2	28.9	36.6	38.5
	kW	5.4	5.6	5.5	5.4	5.6	5.6	5.4	5.6	5.6
105	TC	55.0	59.4	63.1	62.2	66.7	70.8	70.5	73.5	79.9
	SHC	44.2	53.4	61.4	35.0	42.5	48.8	26.0	32.9	34.7
	kW	4.8	5.0	5.0	4.8	6.1	5.0	4.8	5.0	5.0
115	TC	50.6	54.6	58.1	57.2	60.8	65.1	64.9	67.6	73.5
	SHC	39.8	48.1	55.2	31.5	37.7	43.9	23.4	29.6	31.2
	kW	4.3	4.5	4.5	4.4	6.7	4.5	4.4	4.5	4.5

50GEQU07 — Unit with Humidi-MiZer System in Hot Gas Reheat Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR - (°F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		AIR ENTERING EVAPORATOR - SCFM								
		1800	2400	3000	1800	2400	3000	1800	2400	3000
80	TC	20.2	23.8	26.7	19.3	22.7	25.3	18.5	21.7	24.1
	SHC	2.2	2.2	2.1	1.5	1.5	1.5	1.0	1.0	0.9
	kW	4.5	4.4	4.3	4.6	4.5	4.4	4.7	4.5	4.4
75	TC	18.8	22.1	24.8	18.0	21.1	23.5	17.3	20.1	22.4
	SHC	1.5	1.5	1.5	0.9	0.9	0.8	0.3	0.3	0.3
	kW	4.6	4.4	4.4	4.6	4.5	4.4	4.7	4.6	4.5
70	TC	17.5	20.5	22.9	16.7	19.5	21.7	16.0	18.6	20.6
	SHC	0.8	0.8	0.8	0.2	0.2	0.2	-0.3	-0.3	-0.3
	kW	4.6	4.5	4.4	4.7	4.6	4.5	4.8	4.7	4.6
60	TC	14.8	17.1	19.0	14.1	16.3	18.0	13.5	15.5	17.1
	SHC	-0.6	-0.6	-0.6	-1.1	-1.1	-1.1	-1.6	-1.6	-1.6
	kW	4.7	4.6	4.5	4.8	4.7	4.6	4.9	4.8	4.7
50	TC	12.0	13.8	15.2	11.5	13.1	14.4	11.0	12.5	13.6
	SHC	-2.0	-2.0	-2.0	-2.4	-2.5	-2.5	-2.9	-2.9	-2.9
	kW	4.8	4.7	4.7	4.9	4.8	4.8	5.0	4.9	4.8
40	TC	9.3	10.5	11.4	8.9	9.9	10.7	8.5	9.4	10.1
	SHC	-3.3	-3.3	-3.3	-3.8	-3.8	-3.8	-4.1	-4.1	-4.1
	kW	4.9	4.8	4.8	5.0	4.9	4.9	5.1	5.0	5.0

LEGEND

Edb	—	Entering Dry Bulb
Ewb	—	Entering Wet Bulb
kW	—	Compressor Power Input
SCFM/BF	—	Standard Cubic Feet per Minute/Bypass Factor
SHC	—	Sensible Heat Capacity (1000 Btuh) Gross
TC	—	Total Capacity (1000 Btuh) Gross

50GEQ*08 Three Stage Cooling Capacities

50GEQ*08				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
2250 Cfm	EA (wb)	58	TC	85.8	85.8	96.7	84.4	84.4	96.5	81.0	81.0	92.7	77.3	77.3	88.4	73.3	73.3	83.8
			SHC	74.9	85.8	96.7	72.2	84.4	96.5	69.4	81.0	92.7	66.2	77.3	88.4	62.7	73.3	83.8
		62	TC	89.5	89.5	92.4	87.7	87.7	93.3	83.4	83.4	91.3	78.7	78.7	89.1	73.7	73.7	86.7
			SHC	67.8	80.1	92.4	65.4	79.4	93.3	63.4	77.4	91.3	61.3	75.2	89.1	59.0	72.8	86.7
		67	TC	98.0	98.0	98.0	96.2	96.2	96.2	91.6	91.6	91.6	86.5	86.5	86.5	81.0	81.0	81.0
			SHC	55.8	68.1	80.4	53.2	67.1	81.1	51.2	65.2	79.1	49.1	63.1	77.0	46.9	60.8	74.8
		72	TC	107.2	107.2	107.2	105.5	105.5	105.5	100.5	100.5	100.5	95.0	95.0	95.0	89.2	89.2	89.2
			SHC	43.4	55.8	68.1	40.6	54.7	68.7	38.7	52.8	66.8	36.7	50.7	64.7	34.5	48.5	62.6
		76	TC	—	115.1	115.1	—	113.6	113.6	—	108.2	108.2	—	102.3	102.3	—	96.2	96.2
			SHC	—	45.6	58.0	—	44.5	58.5	—	42.6	56.6	—	40.5	54.6	—	38.4	52.5
2650 Cfm	EA (wb)	58	TC	90.9	90.9	102.5	89.4	89.4	102.3	85.8	85.8	98.1	81.7	81.7	93.5	77.4	77.4	88.5
			SHC	79.3	90.9	102.5	76.6	89.4	102.3	73.5	85.8	98.1	70.0	81.7	93.5	66.3	77.4	88.5
		62	TC	92.5	92.5	102.6	90.7	90.7	103.8	86.2	86.2	101.5	81.9	81.9	97.6	77.5	77.5	92.4
			SHC	73.8	88.2	102.6	71.2	87.5	103.8	69.1	85.3	101.5	66.1	81.9	97.6	62.6	77.5	92.4
		67	TC	100.9	100.9	100.9	99.1	99.1	99.1	94.2	94.2	94.2	88.8	88.8	88.8	83.1	83.1	83.1
			SHC	59.6	74.1	88.5	56.7	73.1	89.5	54.7	71.1	87.5	52.5	68.9	85.3	50.3	66.7	83.1
		72	TC	110.2	110.2	110.2	108.6	108.6	108.6	103.2	103.2	103.2	97.4	97.4	97.4	91.4	91.4	91.4
			SHC	45.0	59.6	74.1	41.9	58.4	74.8	39.9	56.4	72.9	37.8	54.3	70.8	35.6	52.1	68.6
		76	TC	—	118.2	118.2	—	116.7	116.7	—	111.0	111.0	—	104.9	104.9	—	—	—
			SHC	—	47.7	62.3	—	46.3	62.8	—	44.4	60.9	—	42.3	58.8	—	—	—
3000 Cfm	EA (wb)	58	TC	94.6	94.6	106.7	93.2	93.2	106.6	89.2	89.2	102.1	85.0	85.0	97.2	80.4	80.4	92.0
			SHC	82.6	94.6	106.7	79.8	93.2	106.6	76.4	89.2	102.1	72.7	85.0	97.2	68.8	80.4	92.0
		62	TC	95.2	95.2	109.3	93.3	93.3	111.2	89.3	89.3	106.5	85.1	85.1	101.4	80.7	80.7	95.1
			SHC	77.9	93.6	109.3	75.3	93.3	111.2	72.2	89.3	106.5	68.7	85.1	101.4	64.7	79.9	95.1
		67	TC	102.9	102.9	102.9	101.0	101.0	101.0	95.9	95.9	95.9	90.4	90.4	92.5	84.5	84.5	90.2
			SHC	62.8	79.1	95.5	59.6	78.1	96.7	57.5	76.1	94.6	55.4	73.9	92.5	53.2	71.7	90.2
		72	TC	112.2	112.2	112.2	110.5	110.5	110.5	105.0	105.0	105.0	99.0	99.0	99.0	92.8	92.8	92.8
			SHC	46.4	62.8	79.2	42.8	61.4	80.1	40.8	59.4	78.1	38.7	57.3	75.9	36.5	55.1	73.7
		76	TC	—	120.3	120.3	—	118.7	118.7	—	112.9	112.9	—	106.5	106.5	—	—	—
			SHC	—	49.5	66.0	—	47.8	66.5	—	45.8	64.5	—	43.7	62.4	—	—	—
3400 Cfm	EA (wb)	58	TC	98.2	98.2	110.7	96.7	96.7	110.6	92.6	92.6	105.9	88.1	88.1	100.7	83.2	83.2	95.2
			SHC	85.7	98.2	110.7	82.8	96.7	110.6	79.3	92.6	105.9	75.4	88.1	100.7	71.3	83.2	95.2
		62	TC	98.3	98.3	115.0	96.8	96.8	115.4	92.7	92.7	110.5	88.1	88.1	105.1	83.3	83.3	99.3
			SHC	81.6	98.3	115.0	78.2	96.8	115.4	74.9	92.7	110.5	71.2	88.1	105.1	67.3	83.3	99.3
		67	TC	104.7	104.7	104.7	102.7	102.7	104.7	97.5	97.5	102.6	91.8	91.8	100.4	85.8	85.8	98.1
			SHC	66.4	84.8	103.3	62.8	83.7	104.7	60.8	81.7	102.6	58.6	79.5	100.4	56.4	77.3	98.1
		72	TC	114.0	114.0	114.0	112.3	112.3	112.3	106.6	106.6	106.6	100.4	100.4	100.4	94.0	94.0	94.0
			SHC	47.8	66.4	85.0	43.7	64.8	85.8	41.7	62.8	83.8	39.6	60.6	81.7	37.4	58.4	79.5
		76	TC	—	122.1	122.1	—	120.6	120.6	—	114.5	114.5	—	108.0	108.0	—	—	—
			SHC	—	51.4	70.1	—	49.3	70.5	—	47.4	68.5	—	45.2	66.4	—	—	—
3750 Cfm	EA (wb)	58	TC	100.9	100.9	113.7	99.4	99.4	113.7	95.1	95.1	108.8	90.4	90.4	103.4	85.4	85.4	97.7
			SHC	88.0	100.9	113.7	85.1	99.4	113.7	81.4	95.1	108.8	77.4	90.4	103.4	73.1	85.4	97.7
		62	TC	100.9	100.9	118.1	99.5	99.5	118.6	95.2	95.2	113.4	90.4	90.4	107.8	85.5	85.5	101.9
			SHC	83.8	100.9	118.1	80.4	99.5	118.6	76.9	95.2	113.4	73.1	90.4	107.8	69.0	85.4	101.9
		67	TC	105.8	105.8	109.9	103.9	103.9	111.6	98.6	98.6	109.5	92.8	92.8	107.3	86.8	86.8	104.9
			SHC	69.4	89.6	109.9	65.6	88.6	111.6	63.6	86.6	109.5	61.4	84.3	107.3	59.2	82.0	104.9
		72	TC	115.2	115.2	115.2	113.5	113.5	113.5	107.7	107.7	107.7	101.4	101.4	101.4	94.9	94.9	94.9
			SHC	49.0	69.5	89.9	44.4	67.6	90.8	42.4	65.6	88.8	40.3	63.5	86.6	38.1	61.3	84.4
		76	TC	—	123.4	123.4	—	121.8	121.8	—	115.7	115.7	—	109.0	109.0	—	—	—
			SHC	—	53.0	73.6	—	50.5	73.8	—	48.5	71.8	—	46.4	69.7	—	—	—

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQ*08 Two Stage Cooling Capacities

50GEQ*08				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1350 Cfm	EA (wb)	58	TC	54.7	54.7	61.7	52.9	52.9	59.7	50.8	50.8	57.4	48.5	48.5	54.8	46.0	46.0	52.0
			SHC	47.7	54.7	61.7	46.1	52.9	59.7	44.3	50.8	57.4	42.3	48.5	54.8	40.1	46.0	52.0
		62	TC	58.2	58.2	58.2	55.8	55.8	56.4	53.1	53.1	55.1	50.2	50.2	53.7	47.0	47.0	52.1
			SHC	42.8	50.2	57.6	41.6	49.0	56.4	40.3	47.7	55.1	38.9	46.3	53.7	37.3	44.7	52.1
		67	TC	64.2	64.2	64.2	61.5	61.5	61.5	58.6	58.6	58.6	55.4	55.4	55.4	52.0	52.0	52.0
			SHC	35.7	43.1	50.6	34.5	41.9	49.3	33.2	40.6	48.0	31.8	39.2	46.6	30.3	37.7	45.1
		72	TC	70.6	70.6	70.6	67.7	67.7	67.7	64.6	64.6	64.6	61.2	61.2	61.2	57.5	57.5	57.5
			SHC	28.4	35.9	43.3	27.2	34.6	42.1	25.9	33.3	40.8	24.6	32.0	39.4	23.1	30.5	38.0
		76	TC	—	76.2	76.2	—	73.0	73.0	—	69.7	69.7	—	66.1	66.1	—	62.2	62.2
			SHC	—	29.9	37.3	—	28.7	36.1	—	27.4	34.8	—	26.1	33.5	—	24.6	32.1
1590 Cfm	EA (wb)	58	TC	58.4	58.4	65.9	56.4	56.4	63.6	54.1	54.1	61.0	51.6	51.6	58.3	48.9	48.9	55.2
			SHC	50.9	58.4	65.9	49.1	56.4	63.6	47.2	54.1	61.0	45.0	51.6	58.3	42.6	48.9	55.2
		62	TC	60.5	60.5	64.1	57.9	57.9	62.8	55.0	55.0	61.4	52.0	52.0	59.9	49.0	49.0	57.4
			SHC	46.6	55.3	64.1	45.4	54.1	62.8	44.0	52.7	61.4	42.5	51.2	59.9	40.5	49.0	57.4
		67	TC	66.5	66.5	66.5	63.6	63.6	63.6	60.6	60.6	60.6	57.2	57.2	57.2	53.6	53.6	53.6
			SHC	38.2	46.9	55.7	36.9	45.7	54.4	35.6	44.3	53.1	34.2	42.9	51.6	32.6	41.4	50.1
		72	TC	73.1	73.1	73.1	70.0	70.0	70.0	66.6	66.6	66.6	63.0	63.0	63.0	59.1	59.1	59.1
			SHC	29.6	38.3	47.1	28.3	37.1	45.8	27.0	35.7	44.5	25.6	34.4	43.1	24.1	32.9	41.6
		76	TC	—	78.7	78.7	—	75.3	75.3	—	71.8	71.8	—	68.0	68.0	—	63.9	63.9
			SHC	—	31.3	40.0	—	30.0	38.8	—	28.7	37.5	—	27.4	36.1	—	25.9	34.7
1800 Cfm	EA (wb)	58	TC	61.1	61.1	68.9	58.9	58.9	66.4	56.5	56.5	63.8	53.9	53.9	60.8	51.0	51.0	57.5
			SHC	53.3	61.1	68.9	51.4	58.9	66.4	49.3	56.5	63.8	47.0	53.9	60.8	44.4	51.0	57.5
		62	TC	62.0	62.0	69.5	59.3	59.3	68.1	56.6	56.6	66.3	53.9	53.9	63.1	51.0	51.0	59.8
			SHC	49.8	59.7	69.5	48.5	58.3	68.1	46.9	56.6	66.3	44.7	53.9	63.1	42.3	51.0	59.8
		67	TC	68.1	68.1	68.1	65.1	65.1	65.1	61.8	61.8	61.8	58.4	58.4	58.4	54.6	54.6	54.6
			SHC	40.2	50.1	60.0	39.0	48.8	58.7	37.6	47.5	57.3	36.2	46.0	55.9	34.6	44.5	54.3
		72	TC	74.7	74.7	74.7	71.4	71.4	71.4	67.9	67.9	67.9	64.2	64.2	64.2	60.2	60.2	60.2
			SHC	30.5	40.4	50.3	29.2	39.1	49.0	27.9	37.8	47.7	26.5	36.4	46.3	25.0	34.9	44.8
		76	TC	—	80.4	80.4	—	76.9	76.9	—	73.2	73.2	—	69.3	69.3	—	65.0	65.0
			SHC	—	32.4	42.3	—	31.1	41.0	—	29.8	39.7	—	28.5	38.4	—	27.0	36.9
2040 Cfm	EA (wb)	58	TC	63.7	63.7	71.9	61.4	61.4	69.2	58.9	58.9	66.4	56.0	56.0	63.2	53.0	53.0	59.8
			SHC	55.6	63.7	71.9	53.5	61.4	69.2	51.3	58.9	66.4	48.9	56.0	63.2	46.2	53.0	59.8
		62	TC	63.8	63.8	74.7	61.5	61.5	72.0	58.6	58.6	68.9	56.2	56.2	65.8	53.0	53.0	62.2
			SHC	53.0	63.8	74.7	51.0	61.5	72.0	48.2	58.6	68.9	46.6	56.2	65.8	43.8	53.0	62.2
		67	TC	69.5	69.5	69.5	66.3	66.3	66.3	63.0	63.0	63.0	59.4	59.4	60.7	55.5	55.5	59.1
			SHC	42.5	53.7	64.9	41.2	52.4	63.6	39.8	51.0	62.2	38.4	49.5	60.7	36.8	47.9	59.1
		72	TC	76.2	76.2	76.2	72.8	72.8	72.8	69.1	69.1	69.1	65.3	65.3	65.3	61.1	61.1	61.1
			SHC	31.4	42.7	53.9	30.1	41.4	52.6	28.8	40.0	51.2	27.4	38.6	49.8	25.8	37.1	48.3
		76	TC	—	81.9	81.9	—	78.2	78.2	—	74.4	74.4	—	70.4	70.4	—	66.0	66.0
			SHC	—	33.6	44.8	—	32.3	43.6	—	31.0	42.2	—	29.6	40.8	—	28.2	39.4
2250 Cfm	EA (wb)	58	TC	65.7	65.7	74.1	63.3	63.3	71.4	60.6	60.6	68.4	57.7	57.7	65.1	54.5	54.5	61.5
			SHC	57.4	65.7	74.1	55.2	63.3	71.4	52.9	60.6	68.4	50.3	57.7	65.1	47.5	54.5	61.5
		62	TC	65.8	65.8	77.0	63.4	63.4	74.2	60.6	60.6	71.1	57.8	57.8	67.7	54.6	54.6	64.0
			SHC	54.6	65.8	77.0	52.6	63.4	74.2	50.2	60.6	71.1	47.9	57.8	67.7	45.2	54.6	64.0
		67	TC	70.5	70.5	70.5	67.2	67.2	67.7	63.8	63.8	66.3	60.2	60.2	64.8	56.2	56.2	63.2
			SHC	44.4	56.8	69.1	43.1	55.4	67.7	41.7	54.0	66.3	40.2	52.5	64.8	38.6	50.9	63.2
		72	TC	77.2	77.2	77.2	73.7	73.7	73.7	70.0	70.0	70.0	66.0	66.0	66.0	61.8	61.8	61.8
			SHC	32.2	44.6	57.0	30.9	43.3	55.7	29.6	41.9	54.3	28.1	40.5	52.8	26.6	39.0	51.3
		76	TC	—	82.9	82.9	—	79.2	79.2	—	75.3	75.3	—	71.2	71.2	—	66.7	66.7
			SHC	—	34.6	47.0	—	33.4	45.7	—	32.0	44.4	—	30.6	43.0	—	29.2	41.5

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQ*08 One Stage Cooling Capacities

50GEQ*08				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
900 Cfm	EA (wb)	58	TC	33.7	33.7	38.0	32.5	32.5	36.7	31.3	31.3	35.3	29.8	29.8	33.7	28.2	28.2	31.9
			SHC	29.4	33.7	38.0	28.3	32.5	36.7	27.2	31.3	35.3	26.0	29.8	33.7	24.5	28.2	31.9
		62	TC	35.2	35.2	36.7	33.7	33.7	35.9	32.0	32.0	35.1	30.3	30.3	34.2	28.3	28.3	33.2
			SHC	26.8	31.7	36.7	26.0	31.0	35.9	25.2	30.2	35.1	24.4	29.3	34.2	23.4	28.3	33.2
		67	TC	38.9	38.9	38.9	37.3	37.3	37.3	35.5	35.5	35.5	33.5	33.5	33.5	31.3	31.3	31.3
			SHC	22.1	27.0	32.0	21.3	26.3	31.2	20.5	25.5	30.4	19.7	24.6	29.6	18.7	23.7	28.6
		72	TC	42.9	42.9	42.9	41.2	41.2	41.2	39.3	39.3	39.3	37.1	37.1	37.1	34.8	34.8	34.8
			SHC	17.3	22.2	27.2	16.5	21.5	26.4	15.8	20.7	25.7	14.9	19.8	24.8	14.0	18.9	23.9
		76	TC	—	46.5	46.5	—	44.6	44.6	—	42.6	42.6	—	40.3	40.3	—	37.8	37.8
			SHC	—	18.3	23.3	—	17.6	22.6	—	16.8	21.8	—	16.0	20.9	—	15.1	20.0
1060 Cfm	EA (wb)	58	TC	35.9	35.9	40.5	34.6	34.6	39.1	33.2	33.2	37.5	31.7	31.7	35.8	29.9	29.9	33.8
			SHC	31.3	35.9	40.5	30.2	34.6	39.1	28.9	33.2	37.5	27.6	31.7	35.8	26.0	29.9	33.8
		62	TC	36.4	36.4	40.9	34.8	34.8	40.1	33.3	33.3	39.0	31.7	31.7	37.2	30.0	30.0	35.2
			SHC	29.3	35.1	40.9	28.5	34.3	40.1	27.5	33.3	39.0	26.2	31.7	37.2	24.8	30.0	35.2
		67	TC	40.2	40.2	40.2	38.5	38.5	38.5	36.6	36.6	36.6	34.5	34.5	34.5	32.2	32.2	32.2
			SHC	23.7	29.5	35.4	22.9	28.8	34.6	22.1	27.9	33.8	21.2	27.1	32.9	20.3	26.1	31.9
		72	TC	44.4	44.4	44.4	42.6	42.6	42.6	40.5	40.5	40.5	38.2	38.2	38.2	35.8	35.8	35.8
			SHC	18.0	23.9	29.7	17.3	23.1	28.9	16.5	22.3	28.1	15.6	21.4	27.2	14.6	20.5	26.3
		76	TC	—	48.0	48.0	—	46.0	46.0	—	43.9	43.9	—	41.5	41.5	—	38.8	38.8
			SHC	—	19.2	25.1	—	18.5	24.3	—	17.7	23.5	—	16.8	22.7	—	15.9	21.7
1200 Cfm	EA (wb)	58	TC	37.5	37.5	42.3	36.2	36.2	40.8	34.7	34.7	39.1	33.0	33.0	37.3	31.2	31.2	35.2
			SHC	32.7	37.5	42.3	31.5	36.2	40.8	30.2	34.7	39.1	28.7	33.0	37.3	27.1	31.2	35.2
		62	TC	37.6	37.6	44.0	36.2	36.2	42.4	34.7	34.7	40.7	33.1	33.1	38.8	31.2	31.2	36.6
			SHC	31.1	37.6	44.0	30.0	36.2	42.4	28.8	34.7	40.7	27.4	33.1	38.8	25.8	31.2	36.6
		67	TC	41.1	41.1	41.1	39.3	39.3	39.3	37.4	37.4	37.4	35.2	35.2	35.7	32.8	32.8	34.7
			SHC	25.1	31.7	38.3	24.3	30.9	37.5	23.4	30.0	36.6	22.5	29.1	35.7	21.6	28.1	34.7
		72	TC	45.3	45.3	45.3	43.4	43.4	43.4	41.3	41.3	41.3	39.0	39.0	39.0	36.4	36.4	36.4
			SHC	18.6	25.2	31.8	17.9	24.5	31.1	17.0	23.6	30.2	16.1	22.7	29.3	15.2	21.8	28.4
		76	TC	—	49.0	49.0	—	47.0	47.0	—	44.7	44.7	—	42.2	42.2	—	39.5	39.5
			SHC	—	20.0	26.6	—	19.3	25.9	—	18.4	25.0	—	17.6	24.2	—	16.6	23.2
1360 Cfm	EA (wb)	58	TC	39.1	39.1	44.1	37.7	37.7	42.5	36.1	36.1	40.7	34.4	34.4	38.8	32.4	32.4	36.6
			SHC	34.1	39.1	44.1	32.9	37.7	42.5	31.5	36.1	40.7	29.9	34.4	38.8	28.2	32.4	36.6
		62	TC	39.2	39.2	45.8	37.7	37.7	44.2	36.1	36.1	42.4	34.4	34.4	40.3	32.4	32.4	38.0
			SHC	32.5	39.2	45.8	31.3	37.7	44.2	29.9	36.1	42.4	28.5	34.4	40.3	26.8	32.4	38.0
		67	TC	41.9	41.9	41.9	40.1	40.1	40.7	38.0	38.0	39.9	35.8	35.8	38.9	33.4	33.4	37.9
			SHC	26.6	34.0	41.5	25.8	33.3	40.7	24.9	32.4	39.9	24.0	31.5	38.9	23.0	30.5	37.9
		72	TC	46.2	46.2	46.2	44.2	44.2	44.2	42.0	42.0	42.0	39.6	39.6	39.6	36.9	36.9	36.9
			SHC	19.3	26.7	34.2	18.5	26.0	33.5	17.7	25.2	32.6	16.8	24.2	31.7	15.8	23.2	30.7
		76	TC	—	49.9	49.9	—	47.8	47.8	—	45.5	45.5	—	—	—	—	—	—
			SHC	—	20.8	28.3	—	20.1	27.5	—	19.2	26.7	—	—	—	—	—	—
1500 Cfm	EA (wb)	58	TC	40.3	40.3	45.5	38.8	38.8	43.8	37.2	37.2	42.0	35.3	35.3	39.9	33.3	33.3	37.6
			SHC	35.2	40.3	45.5	33.9	38.8	43.8	32.4	37.2	42.0	30.8	35.3	39.9	29.0	33.3	37.6
		62	TC	40.4	40.4	47.2	38.9	38.9	45.5	37.2	37.2	43.6	35.4	35.4	41.5	33.3	33.3	39.1
			SHC	33.5	40.4	47.2	32.2	38.9	45.5	30.9	37.2	43.6	29.3	35.4	41.5	27.6	33.3	39.1
		67	TC	42.5	42.5	44.3	40.6	40.6	43.5	38.5	38.5	42.7	36.2	36.2	41.7	33.8	33.8	40.7
			SHC	27.9	36.1	44.3	27.1	35.3	43.5	26.2	34.4	42.7	25.3	33.5	41.7	24.3	32.5	40.7
		72	TC	46.8	46.8	46.8	44.8	44.8	44.8	42.5	42.5	42.5	40.1	40.1	40.1	37.3	37.3	37.3
			SHC	19.8	28.0	36.3	19.0	27.3	35.5	18.2	26.4	34.7	17.3	25.5	33.7	16.3	24.5	32.8
		76	TC	—	50.5	50.5	—	48.4	48.4	—	—	—	—	—	—	—	—	—
			SHC	—	21.5	29.7	—	20.8	29.0	—	—	—	—	—	—	—	—	—

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQU08 — Unit with Humidi-MiZer® System in Subcooling Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR - (°F)								
		80 Dry Bulb 62 Wet Bulb (36% Relative)			80 Dry Bulb 67 Wet Bulb (51% Relative)			80 Dry Bulb 72 Wet Bulb (68% Relative)		
		AIR ENTERING EVAPORATOR - SCFM / STATIC								
		2250	3000	3750	2250	3000	3750	2250	3000	3750
75	TC	85.5	89.7	93.0	97.3	101.9	105.4	109.1	114.1	117.9
	SHC	72.1	76.5	79.0	63.5	68.3	71.0	55.0	60.2	63.1
	kW	5.5	6.2	6.7	5.7	6.3	6.8	5.8	6.3	6.8
85	TC	77.2	81.9	85.5	89.0	94.1	98.0	100.8	106.3	110.5
	SHC	67.7	72.7	75.5	56.9	62.3	65.4	46.1	51.9	55.2
	kW	6.4	7.1	7.5	6.6	7.1	7.5	6.7	7.2	7.5
95	TC	68.9	74.1	78.1	80.7	86.3	90.6	92.5	98.4	103.1
	SHC	63.3	69.0	72.1	50.3	56.3	59.7	37.2	43.7	47.4
	kW	7.3	7.9	8.4	7.5	8.0	8.3	7.7	8.1	8.3
105	TC	60.7	66.3	70.6	72.4	78.5	83.1	84.1	90.6	95.7
	SHC	59.0	65.2	68.7	43.6	50.3	54.1	28.3	35.5	39.5
	kW	8.2	8.7	9.2	8.4	8.8	9.1	8.6	8.9	9.1
115	TC	52.4	58.5	63.2	64.1	70.6	75.7	75.8	82.8	88.3
	SHC	54.6	61.4	65.2	37.0	44.3	48.4	19.3	27.2	31.6
	kW	9.1	9.6	10.0	9.3	9.7	9.9	9.5	9.8	9.9

50GEQU08 — Unit with Humidi-MiZer System in Hot Gas Reheat Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR - (°F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		AIR ENTERING EVAPORATOR - SCFM								
		2250	3000	3750	2250	3000	3750	2250	3000	3750
80	TC	17.3	20.7	24.7	17.8	19.6	22.2	18.0	18.7	20.0
	SHC	-0.6	0.7	1.7	-1.2	0.1	1.1	-1.8	-0.5	0.6
	kW	7.3	7.1	6.9	6.9	7.1	6.9	7.3	7.1	6.9
75	TC	17.4	22.3	24.5	17.8	21.3	23.5	18.1	20.5	22.6
	SHC	-0.2	1.0	2.0	-0.8	0.4	1.4	-1.3	-0.1	0.9
	kW	7.1	6.9	6.8	6.7	6.9	6.8	7.2	7.0	6.8
70	TC	17.5	23.8	26.2	17.9	23.0	25.3	18.1	22.3	24.6
	SHC	0.1	1.3	2.2	-0.4	0.8	1.7	-0.9	0.3	1.2
	kW	7.0	6.8	6.7	6.6	6.8	6.7	7.0	6.8	6.7
60	TC	17.7	26.9	29.6	18.0	26.4	29.0	18.2	26.0	28.6
	SHC	0.8	1.9	2.7	0.4	1.4	2.3	0.0	1.1	1.9
	kW	6.7	6.5	6.4	6.4	6.5	6.4	6.7	6.6	6.5
50	TC	17.9	30.0	33.0	18.2	29.8	32.8	18.3	29.6	32.6
	SHC	1.6	2.5	3.2	1.2	2.1	2.8	0.9	1.8	2.5
	kW	6.3	6.2	6.1	6.1	6.3	6.2	6.4	6.3	6.2
40	TC	18.1	33.1	36.4	18.3	33.2	36.5	18.4	33.2	36.6
	SHC	2.3	3.0	3.6	2.0	2.8	3.4	1.8	2.6	3.2
	kW	6.0	5.9	5.9	5.9	6.0	5.9	6.2	6.1	6.0

LEGEND

Edb	—	Entering Dry Bulb
Ewb	—	Entering Wet Bulb
kW	—	Compressor Power Input
SCFM/BF	—	Standard Cubic Feet per Minute/Bypass Factor
SHC	—	Sensible Heat Capacity (1000 Btuh) Gross
TC	—	Total Capacity (1000 Btuh) Gross

50GEQ*09 Three Stage Cooling Capacities

50GEQ*09				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
2550 Cfm	EA (wb)	58	TC	91.6	91.6	104.1	86.2	86.2	98.4	81.4	81.4	93.1	76.3	76.3	87.5	70.8	70.8	81.4
			SHC	79.0	91.6	104.1	74.0	86.2	98.4	69.7	81.4	93.1	65.1	76.3	87.5	60.2	70.8	81.4
		62	TC	96.8	96.8	98.5	90.5	90.5	94.3	84.6	84.6	90.9	78.4	78.4	87.2	71.8	71.8	83.3
			SHC	70.9	84.7	98.5	66.8	80.6	94.3	63.3	77.1	90.9	59.8	73.5	87.2	56.0	69.6	83.3
		67	TC	107.5	107.5	107.5	100.6	100.6	100.6	94.4	94.4	94.4	87.6	87.6	87.6	80.4	80.4	80.4
			SHC	57.9	71.7	85.5	54.1	68.0	81.8	50.7	64.6	78.4	47.2	61.0	74.9	43.5	57.3	71.1
		72	TC	119.2	119.2	119.2	111.8	111.8	111.8	105.1	105.1	105.1	97.9	97.9	97.9	90.2	90.2	90.2
			SHC	44.6	58.5	72.5	41.3	55.2	69.1	37.9	51.8	65.7	34.3	48.3	62.2	30.7	44.6	58.5
		76	TC	—	129.3	129.3	—	121.5	121.5	—	114.3	114.3	—	106.7	106.7	—	98.5	98.5
			SHC	—	47.7	61.7	—	44.7	58.7	—	41.3	55.4	—	37.8	51.9	—	34.2	48.2
3000 Cfm	EA (wb)	58	TC	97.5	97.5	110.8	92.1	92.1	105.0	87.0	87.0	99.4	81.5	81.5	93.3	75.6	75.6	86.8
			SHC	84.3	97.5	110.8	79.2	92.1	105.0	74.6	87.0	99.4	69.7	81.5	93.3	64.4	75.6	86.8
		62	TC	100.4	100.4	109.3	94.1	94.1	105.4	88.0	88.0	101.6	82.2	82.2	95.7	75.7	75.7	90.7
			SHC	77.4	93.3	109.3	73.3	89.4	105.4	69.7	85.7	101.6	65.1	80.4	95.7	60.8	75.7	90.7
		67	TC	111.1	111.1	111.1	104.1	104.1	104.1	97.5	97.5	97.5	90.4	90.4	90.4	82.9	82.9	82.9
			SHC	62.1	78.2	94.2	58.4	74.6	90.8	54.9	71.1	87.3	51.3	67.5	83.7	47.5	63.7	79.9
		72	TC	123.0	123.0	123.0	115.5	115.5	115.5	108.4	108.4	108.4	100.9	100.9	100.9	92.8	92.8	92.8
			SHC	46.4	62.6	78.8	43.1	59.4	75.7	39.6	55.9	72.2	36.0	52.3	68.6	32.3	48.6	64.8
		76	TC	—	133.2	133.2	—	125.2	125.2	—	117.7	117.7	—	109.7	109.7	—	101.2	101.2
			SHC	—	49.9	66.3	—	47.1	63.6	—	43.6	60.1	—	40.0	56.4	—	36.2	52.7
3400 Cfm	EA (wb)	58	TC	102.6	102.6	116.4	96.5	96.5	109.9	91.1	91.1	104.0	85.4	85.4	97.6	79.2	79.2	90.8
			SHC	88.7	102.6	116.4	83.1	96.5	109.9	78.2	91.1	104.0	73.1	85.4	97.6	67.5	79.2	90.8
		62	TC	103.5	103.5	119.3	97.5	97.5	112.2	91.2	91.2	108.4	85.5	85.5	101.9	79.3	79.3	94.8
			SHC	83.4	101.4	119.3	77.7	94.9	112.2	74.0	91.2	108.4	69.1	85.5	101.9	63.7	79.3	94.8
		67	TC	113.9	113.9	113.9	106.5	106.5	106.5	99.7	99.7	99.7	92.4	92.4	92.4	84.6	84.6	87.4
			SHC	66.0	84.3	102.6	61.9	80.2	98.5	58.4	76.7	94.9	54.8	73.0	91.3	51.0	69.2	87.4
		72	TC	125.9	125.9	125.9	118.0	118.0	118.0	110.7	110.7	110.7	102.9	102.9	102.9	94.5	94.5	94.5
			SHC	48.0	66.4	84.8	44.5	62.9	81.3	41.0	59.4	77.7	37.4	55.7	74.1	33.6	51.9	70.2
		76	TC	—	136.2	136.2	—	127.8	127.8	—	120.0	120.0	—	111.8	111.8	—	103.0	103.0
			SHC	—	51.9	70.5	—	48.8	67.4	—	45.3	63.8	—	41.7	60.2	—	37.9	56.3
3850 Cfm	EA (wb)	58	TC	106.8	106.8	121.1	100.7	100.7	114.6	95.1	95.1	108.4	89.0	89.0	101.7	82.5	82.5	94.5
			SHC	92.5	106.8	121.1	86.8	100.7	114.6	81.7	95.1	108.4	76.3	89.0	101.7	70.5	82.5	94.5
		62	TC	106.2	106.2	122.7	100.8	100.8	119.4	95.2	95.2	113.0	89.1	89.1	106.1	82.6	82.6	98.7
			SHC	87.6	105.1	122.7	82.2	100.8	119.4	77.3	95.2	113.0	72.1	89.1	106.1	66.5	82.6	98.7
		67	TC	116.1	116.1	116.1	108.6	108.6	108.6	101.6	101.6	103.3	94.2	94.2	99.6	86.2	86.2	95.6
			SHC	69.8	90.3	110.7	65.8	86.3	106.9	62.2	82.8	103.3	58.6	79.1	99.6	54.7	75.1	95.6
		72	TC	128.2	128.2	128.2	120.2	120.2	120.2	112.7	112.7	112.7	104.6	104.6	104.6	96.1	96.1	96.1
			SHC	49.4	70.0	90.6	45.9	66.6	87.3	42.4	63.1	83.8	38.8	59.4	80.0	34.9	55.6	76.2
		76	TC	—	138.5	138.5	—	130.0	130.0	—	122.0	122.0	—	113.5	113.5	—	104.6	104.6
			SHC	—	53.5	74.3	—	50.6	71.5	—	47.1	67.9	—	43.4	64.1	—	39.5	60.3
4250 Cfm	EA (wb)	58	TC	110.5	110.5	125.3	103.9	103.9	118.2	98.1	98.1	111.8	91.8	91.8	104.9	85.1	85.1	97.4
			SHC	95.8	110.5	125.3	89.6	103.9	118.2	84.4	98.1	111.8	78.8	91.8	104.9	72.7	85.1	97.4
		62	TC	110.6	110.6	130.3	104.0	104.0	123.2	98.2	98.2	116.5	91.9	91.9	109.4	85.1	85.1	101.6
			SHC	90.9	110.6	130.3	84.9	104.0	123.2	79.9	98.2	116.5	74.5	91.9	109.4	68.7	85.1	101.6
		67	TC	117.9	117.9	118.6	110.2	110.2	114.2	103.0	103.0	110.5	95.5	95.5	106.6	87.4	87.4	102.5
			SHC	73.5	96.1	118.6	69.1	91.6	114.2	65.5	88.0	110.5	61.8	84.2	106.6	57.9	80.2	102.5
		72	TC	130.0	130.0	130.0	121.8	121.8	121.8	114.1	114.1	114.1	105.9	105.9	105.9	97.2	97.2	97.2
			SHC	50.7	73.4	96.1	47.1	69.8	92.5	43.6	66.3	88.9	39.9	62.6	85.2	36.1	58.7	81.3
		76	TC	—	140.4	140.4	—	131.6	131.6	—	123.5	123.5	—	114.8	114.8	—	105.7	105.7
			SHC	—	55.0	77.9	—	52.1	74.9	—	48.5	71.3	—	44.8	67.5	—	40.9	63.6

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQ*09 Two Stage Cooling Capacities

50GEQ*09				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1530 Cfm	EA (wb)	58	TC	55.4	55.4	62.5	53.7	53.7	60.5	51.8	51.8	58.3	49.6	49.6	55.9	47.3	47.3	53.3
			SHC	48.4	55.4	62.5	46.8	53.7	60.5	45.2	51.8	58.3	43.3	49.6	55.9	41.3	47.3	53.3
		62	TC	59.0	59.0	59.0	56.7	56.7	57.2	54.2	54.2	56.0	51.5	51.5	54.6	48.5	48.5	53.1
			SHC	43.5	50.9	58.4	42.4	49.8	57.2	41.2	48.6	56.0	39.8	47.2	54.6	38.4	45.7	53.1
		67	TC	64.8	64.8	64.8	62.3	62.3	62.3	59.6	59.6	59.6	56.6	56.6	56.6	53.2	53.2	53.2
			SHC	36.3	43.7	51.2	35.2	42.6	50.1	34.0	41.4	48.9	32.7	40.1	47.6	31.3	38.7	46.2
		72	TC	71.2	71.2	71.2	68.4	68.4	68.4	65.4	65.4	65.4	62.1	62.1	62.1	58.5	58.5	58.5
			SHC	28.8	36.4	44.0	27.8	35.3	42.9	26.6	34.1	41.7	25.3	32.9	40.4	23.9	31.5	39.0
		76	TC	—	76.6	76.6	—	73.5	73.5	—	70.3	70.3	—	66.8	66.8	—	62.9	62.9
			SHC	—	30.5	38.7	—	29.3	37.5	—	28.2	36.2	—	26.9	34.8	—	25.5	33.3
1800 Cfm	EA (wb)	58	TC	58.5	58.5	66.0	56.6	56.6	63.8	54.6	54.6	61.5	52.3	52.3	58.9	49.7	49.7	56.0
			SHC	51.1	58.5	66.0	49.4	56.6	63.8	47.6	54.6	61.5	45.6	52.3	58.9	43.4	49.7	56.0
		62	TC	60.9	60.9	63.9	58.5	58.5	62.6	55.9	55.9	61.2	53.1	53.1	59.6	50.0	50.0	57.7
			SHC	46.8	55.3	63.9	45.6	54.1	62.6	44.3	52.7	61.2	42.8	51.2	59.6	41.2	49.4	57.7
		67	TC	66.9	66.9	66.9	64.2	64.2	64.2	61.3	61.3	61.3	58.1	58.1	58.1	54.6	54.6	54.6
			SHC	38.4	47.1	55.7	37.3	45.9	54.5	36.1	44.7	53.3	34.8	43.4	52.0	33.3	41.9	50.5
		72	TC	73.4	73.4	73.4	70.4	70.4	70.4	67.3	67.3	67.3	63.8	63.8	63.8	60.0	60.0	60.0
			SHC	29.9	38.6	47.3	28.7	37.5	46.2	27.5	36.2	44.9	26.2	34.9	43.6	24.8	33.5	42.1
		76	TC	—	78.8	78.8	—	75.6	75.6	—	72.2	72.2	—	68.5	68.5	—	64.4	64.4
			SHC	—	31.7	40.9	—	30.5	39.6	—	29.3	38.4	—	28.0	37.0	—	26.6	35.5
2040 Cfm	EA (wb)	58	TC	60.9	60.9	68.6	58.9	58.9	66.3	56.7	56.7	63.8	54.2	54.2	61.1	51.5	51.5	58.0
			SHC	53.2	60.9	68.6	51.4	58.9	66.3	49.5	56.7	63.8	47.3	54.2	61.1	45.0	51.5	58.0
		62	TC	62.4	62.4	68.4	59.9	59.9	67.0	57.3	57.3	65.3	54.4	54.4	63.6	51.5	51.5	60.3
			SHC	49.4	58.9	68.4	48.1	57.5	67.0	46.7	56.0	65.3	45.1	54.4	63.6	42.7	51.5	60.3
		67	TC	68.3	68.3	68.3	65.5	65.5	65.5	62.5	62.5	62.5	59.2	59.2	59.2	55.6	55.6	55.6
			SHC	40.3	49.9	59.5	39.1	48.7	58.3	37.8	47.5	57.1	36.5	46.1	55.7	35.0	44.6	54.2
		72	TC	74.9	74.9	74.9	71.8	71.8	71.8	68.5	68.5	68.5	64.9	64.9	64.9	60.9	60.9	60.9
			SHC	30.7	40.4	50.1	29.5	39.2	48.9	28.3	38.0	47.6	27.0	36.6	46.3	25.5	35.2	44.8
		76	TC	—	80.4	80.4	—	77.1	77.1	—	73.5	73.5	—	69.6	69.6	—	65.4	65.4
			SHC	—	32.7	42.8	—	31.5	41.6	—	30.3	40.3	—	28.9	38.9	—	27.5	37.4
2310 Cfm	EA (wb)	58	TC	63.2	63.2	71.2	61.0	61.0	68.8	58.7	58.7	66.1	56.1	56.1	63.2	53.2	53.2	60.0
			SHC	55.1	63.2	71.2	53.3	61.0	68.8	51.2	58.7	66.1	49.0	56.1	63.2	46.5	53.2	60.0
		62	TC	63.8	63.8	72.8	61.2	61.2	71.6	58.7	58.7	68.7	56.1	56.1	65.6	53.3	53.3	62.3
			SHC	52.1	62.4	72.8	50.9	61.2	71.6	48.8	58.7	68.7	46.6	56.1	65.6	44.2	53.3	62.3
		67	TC	69.6	69.6	69.6	66.7	66.7	66.7	63.6	63.6	63.6	60.2	60.2	60.2	56.4	56.4	58.2
			SHC	42.2	52.9	63.6	41.0	51.7	62.4	39.7	50.4	61.1	38.4	49.1	59.8	36.8	47.5	58.2
		72	TC	76.3	76.3	76.3	73.0	73.0	73.0	69.6	69.6	69.6	65.9	65.9	65.9	61.8	61.8	61.8
			SHC	31.5	42.3	53.1	30.3	41.1	51.9	29.1	39.8	50.6	27.7	38.5	49.2	26.3	37.0	47.7
		76	TC	—	81.8	81.8	—	78.4	78.4	—	74.7	74.7	—	70.7	70.7	—	66.3	66.3
			SHC	—	33.7	44.8	—	32.5	43.6	—	31.3	42.3	—	29.9	40.9	—	28.5	39.4
2550 Cfm	EA (wb)	58	TC	64.9	64.9	73.1	62.7	62.7	70.6	60.2	60.2	67.9	57.5	57.5	64.8	54.5	54.5	61.5
			SHC	56.7	64.9	73.1	54.7	62.7	70.6	52.6	60.2	67.9	50.2	57.5	64.8	47.6	54.5	61.5
		62	TC	65.1	65.1	76.1	62.7	62.7	73.3	60.3	60.3	70.5	57.6	57.6	67.3	54.6	54.6	63.8
			SHC	54.0	65.1	76.1	52.1	62.7	73.3	50.1	60.3	70.5	47.8	57.6	67.3	45.3	54.6	63.8
		67	TC	70.6	70.6	70.6	67.6	67.6	67.6	64.4	64.4	64.6	60.8	60.8	63.2	57.0	57.0	61.5
			SHC	43.8	55.5	67.2	42.6	54.3	66.0	41.3	53.0	64.6	39.9	51.5	63.2	38.4	49.9	61.5
		72	TC	77.2	77.2	77.2	73.9	73.9	73.9	70.4	70.4	70.4	66.6	66.6	66.6	62.4	62.4	62.4
			SHC	32.2	43.9	55.7	31.0	42.7	54.5	29.7	41.4	53.2	28.4	40.1	51.8	26.9	38.6	50.2
		76	TC	—	82.8	82.8	—	79.3	79.3	—	75.5	75.5	—	71.4	71.4	—	66.9	66.9
			SHC	—	34.6	46.6	—	33.4	45.4	—	32.1	44.1	—	30.8	42.7	—	29.3	41.2

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQ*09 One Stage Cooling Capacities

50GEQ*09				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1020 Cfm	EA (wb)	58	TC	33.2	33.2	38.3	30.3	30.3	35.3	27.3	27.3	32.1	24.2	24.2	28.7	20.9	20.9	25.2
			SHC	28.1	33.2	38.3	25.4	30.3	35.3	22.6	27.3	32.1	19.7	24.2	28.7	16.6	20.9	25.2
		62	TC	36.0	36.0	36.2	32.6	32.6	33.8	29.0	29.0	31.2	25.3	25.3	28.6	21.4	21.4	25.9
			SHC	25.1	30.7	36.2	22.7	28.2	33.8	20.2	25.7	31.2	17.6	23.1	28.6	14.9	20.4	25.9
		67	TC	41.1	41.1	41.1	37.5	37.5	37.5	33.8	33.8	33.8	29.9	29.9	29.9	25.8	25.8	25.8
			SHC	20.7	26.2	31.8	18.2	23.8	29.3	15.7	21.3	26.8	13.2	18.7	24.3	10.5	16.1	21.6
		72	TC	46.7	46.7	46.7	42.9	42.9	42.9	39.0	39.0	39.0	34.9	34.9	34.9	30.6	30.6	30.6
			SHC	16.1	21.6	27.2	13.6	19.2	24.8	11.1	16.7	22.3	8.6	14.2	19.7	6.0	11.6	17.2
		76	TC	—	51.4	51.4	—	47.5	47.5	—	43.4	43.4	—	39.1	39.1	—	34.6	34.6
			SHC	—	17.9	23.5	—	15.5	21.1	—	13.0	18.6	—	10.5	16.1	—	7.9	13.5
1200 Cfm	EA (wb)	58	TC	36.3	36.3	41.7	33.2	33.2	38.4	30.0	30.0	35.1	26.7	26.7	31.5	23.2	23.2	27.8
			SHC	30.8	36.3	41.7	28.0	33.2	38.4	25.0	30.0	35.1	21.9	26.7	31.5	18.7	23.2	27.8
		62	TC	37.8	37.8	41.1	34.3	34.3	38.5	30.6	30.6	35.9	26.9	26.9	32.8	23.3	23.3	29.3
			SHC	28.1	34.6	41.1	25.6	32.1	38.5	23.0	29.5	35.9	20.2	26.5	32.8	17.2	23.3	29.3
		67	TC	43.0	43.0	43.0	39.2	39.2	39.2	35.3	35.3	35.3	31.3	31.3	31.3	27.0	27.0	27.0
			SHC	22.7	29.2	35.7	20.2	26.7	33.2	17.7	24.2	30.6	15.0	21.5	28.0	12.4	18.9	25.3
		72	TC	48.6	48.6	48.6	44.7	44.7	44.7	40.5	40.5	40.5	36.3	36.3	36.3	31.8	31.8	31.8
			SHC	17.2	23.7	30.2	14.7	21.2	27.7	12.1	18.6	25.2	9.5	16.1	22.6	6.9	13.4	19.9
		76	TC	—	53.4	53.4	—	49.3	49.3	—	45.0	45.0	—	40.5	40.5	—	35.9	35.9
			SHC	—	19.2	25.8	—	16.7	23.3	—	14.2	20.8	—	11.6	18.2	—	9.0	15.6
1360 Cfm	EA (wb)	58	TC	38.5	38.5	44.2	35.4	35.4	40.8	32.0	32.0	37.3	28.6	28.6	33.6	24.9	24.9	29.6
			SHC	32.9	38.5	44.2	29.9	35.4	40.8	26.8	32.0	37.3	23.6	28.6	33.6	20.2	24.9	29.6
		62	TC	39.2	39.2	45.2	35.6	35.6	42.4	32.0	32.0	39.0	28.6	28.6	35.3	25.0	25.0	31.3
			SHC	30.6	37.9	45.2	28.0	35.2	42.4	24.9	32.0	39.0	22.0	28.6	35.3	18.7	25.0	31.3
		67	TC	44.3	44.3	44.3	40.4	40.4	40.4	36.4	36.4	36.4	32.2	32.2	32.2	27.8	27.8	28.5
			SHC	24.4	31.8	39.1	21.9	29.2	36.5	19.3	26.6	33.9	16.6	23.9	31.3	13.9	21.2	28.5
		72	TC	49.9	49.9	49.9	45.9	45.9	45.9	41.6	41.6	41.6	37.3	37.3	37.3	32.7	32.7	32.7
			SHC	18.0	25.4	32.8	15.5	22.9	30.3	12.9	20.3	27.7	10.3	17.7	25.0	7.6	15.0	22.3
		76	TC	—	54.7	54.7	—	50.5	50.5	—	46.2	46.2	—	41.5	41.5	—	36.9	36.9
			SHC	—	20.2	27.7	—	17.7	25.2	—	15.2	22.6	—	12.5	20.0	—	9.9	17.3
1540 Cfm	EA (wb)	58	TC	40.7	40.7	46.6	37.4	37.4	43.1	34.0	34.0	39.4	30.4	30.4	35.5	26.6	26.6	31.5
			SHC	34.8	40.7	46.6	31.7	37.4	43.1	28.5	34.0	39.4	25.2	30.4	35.5	21.7	26.6	31.5
		62	TC	40.8	40.8	48.7	37.5	37.5	45.1	34.0	34.0	41.3	29.6	29.6	36.8	26.6	26.6	33.2
			SHC	32.9	40.8	48.7	29.9	37.5	45.1	26.8	34.0	41.3	22.3	29.6	36.8	20.1	26.6	33.2
		67	TC	45.4	45.4	45.4	41.4	41.4	41.4	37.3	37.3	37.5	33.0	33.0	34.8	28.5	28.5	32.0
			SHC	26.2	34.5	42.8	23.6	31.9	40.2	21.0	29.3	37.5	18.3	26.5	34.8	15.5	23.8	32.0
		72	TC	51.1	51.1	51.1	47.0	47.0	47.0	42.6	42.6	42.6	38.1	38.1	38.1	33.4	33.4	33.4
			SHC	18.9	27.2	35.5	16.4	24.7	33.0	13.7	22.0	30.3	11.0	19.4	27.7	8.3	16.6	24.9
		76	TC	—	56.0	56.0	—	51.6	51.6	—	47.2	47.2	—	42.4	42.4	—	37.6	37.6
			SHC	—	21.3	29.7	—	18.7	27.1	—	16.2	24.6	—	13.5	21.9	—	10.8	19.2
1700 Cfm	EA (wb)	58	TC	42.4	42.4	48.5	39.0	39.0	44.9	35.4	35.4	40.9	31.7	31.7	37.0	27.8	27.8	32.9
			SHC	36.3	42.4	48.5	33.2	39.0	44.9	29.8	35.4	40.9	26.4	31.7	37.0	22.8	27.8	32.9
		62	TC	42.5	42.5	50.6	39.2	39.2	46.5	35.5	35.5	43.0	31.8	31.8	38.9	27.9	27.9	34.6
			SHC	34.4	42.5	50.6	31.1	38.8	46.5	28.0	35.5	43.0	24.7	31.8	38.9	21.2	27.9	34.6
		67	TC	46.2	46.2	46.2	42.2	42.2	43.3	38.0	38.0	40.6	33.6	33.6	37.8	29.1	29.1	35.0
			SHC	27.8	36.8	45.9	25.1	34.2	43.3	22.5	31.5	40.6	19.7	28.8	37.8	16.9	26.0	35.0
		72	TC	52.0	52.0	52.0	47.7	47.7	47.7	43.3	43.3	43.3	38.7	38.7	38.7	33.9	33.9	33.9
			SHC	19.6	28.8	37.9	17.0	26.2	35.3	14.4	23.5	32.6	11.7	20.8	29.9	9.0	18.1	27.2
		76	TC	—	56.8	56.8	—	52.4	52.4	—	47.9	47.9	—	43.0	43.0	—	38.2	38.2
			SHC	—	22.2	31.4	—	19.6	28.8	—	17.0	26.2	—	14.3	23.5	—	11.6	20.8

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQU09 — Unit with Humidi-MiZer® System in Subcooling Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR - (°F)								
		80 Dry Bulb 62 Wet Bulb (36% Relative)			80 Dry Bulb 67 Wet Bulb (51% Relative)			80 Dry Bulb 72 Wet Bulb (68% Relative)		
		AIR ENTERING EVAPORATOR - SCFM / STATIC								
		2400	3200	4000	2400	3200	4000	2400	3200	4000
75	TC	100.1	105.0	108.8	112.2	117.5	121.6	124.2	129.9	134.3
	SHC	75.6	84.7	91.8	65.1	73.9	80.7	54.7	63.1	69.6
	kW	6.6	6.7	6.9	6.6	6.8	6.9	6.6	6.8	6.9
85	TC	86.7	92.2	96.5	98.1	104.1	108.7	109.6	116.0	121.0
	SHC	69.0	77.5	84.1	55.8	63.7	69.9	42.6	50.0	55.7
	kW	7.4	7.6	7.7	7.4	7.6	7.7	7.4	7.6	7.8
95	TC	73.3	79.4	84.2	84.1	90.8	95.9	95.0	102.1	107.6
	SHC	62.4	70.3	76.4	46.4	53.6	59.1	30.4	36.8	41.8
	kW	8.2	8.4	8.6	8.2	8.4	8.6	8.2	8.4	8.6
105	TC	59.9	66.7	71.9	70.1	77.4	83.1	80.3	88.2	94.3
	SHC	55.7	63.1	68.7	37.0	43.4	48.3	18.3	23.7	27.8
	kW	9.0	9.2	9.4	9.0	9.2	9.4	9.0	9.3	9.5
115	TC	46.5	53.9	59.6	56.1	64.1	70.3	65.7	74.3	80.9
	SHC	49.1	55.8	61.0	27.6	33.2	37.5	6.2	10.6	13.9
	kW	9.8	10.1	10.3	9.8	10.1	10.3	9.8	10.1	10.3

50GEQU09 — Unit with Humidi-MiZer System in Hot Gas Reheat Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR - (°F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		AIR ENTERING EVAPORATOR - SCFM								
		2400	3200	4000	2400	3200	4000	2400	3200	4000
80	TC	50.4	52.3	53.9	52.0	54.2	55.9	53.4	55.8	57.7
	SHC	9.6	8.7	8.0	8.0	7.1	6.4	6.7	5.7	4.9
	kW	6.0	6.5	6.9	6.3	6.5	6.9	5.9	6.5	6.9
75	TC	50.8	52.7	54.3	52.4	54.5	56.2	53.8	56.1	58.0
	SHC	11.6	10.8	10.2	10.2	9.3	8.7	8.9	8.1	7.4
	kW	5.8	6.3	6.7	6.1	6.3	6.7	5.8	6.3	6.7
70	TC	51.2	53.1	54.6	52.8	54.9	56.6	54.2	56.4	58.2
	SHC	13.6	12.8	12.3	12.3	11.5	10.9	11.2	10.4	9.8
	kW	5.7	6.1	6.5	6.0	6.1	6.5	5.7	6.1	6.5
60	TC	52.0	53.8	55.3	53.5	55.6	57.2	54.9	57.1	58.8
	SHC	17.5	16.9	16.5	16.6	16.0	15.5	15.8	15.1	14.6
	kW	5.4	5.8	6.1	5.7	5.8	6.1	5.4	5.8	6.1
50	TC	52.8	54.6	56.0	54.3	56.2	57.8	55.7	57.7	59.4
	SHC	21.5	21.1	20.7	20.9	20.4	20.0	20.3	19.8	19.5
	kW	5.2	5.5	5.7	5.4	5.5	5.7	5.2	5.5	5.8
40	TC	53.6	55.3	56.7	55.1	56.9	58.4	56.4	58.3	59.9
	SHC	25.5	25.2	24.9	25.2	24.8	24.6	24.9	24.6	24.3
	kW	4.9	5.1	5.3	5.1	5.2	5.3	4.9	5.2	5.4

LEGEND

Edb	—	Entering Dry Bulb
Ewb	—	Entering Wet Bulb
kW	—	Compressor Power Input
SCFM/BF	—	Standard Cubic Feet per Minute/Bypass Factor
SHC	—	Sensible Heat Capacity (1000 Btuh) Gross
TC	—	Total Capacity (1000 Btuh) Gross

50GEQ*12 Three Stage Cooling Capacities

50GEQ*12				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
3000 Cfm	EA (wb)	58	TC	105.6	105.6	120.3	99.4	99.4	113.6	92.8	92.8	106.5	85.8	85.8	98.9	78.4	78.4	90.9
			SHC	90.9	105.6	120.3	85.1	99.4	113.6	79.1	92.8	106.5	72.8	85.8	98.9	66.0	78.4	90.9
		62	TC	112.2	112.2	113.5	104.7	104.7	108.6	96.8	96.8	103.6	88.5	88.5	98.3	79.7	79.7	92.8
			SHC	81.2	97.3	113.5	76.4	92.5	108.6	71.4	87.5	103.6	66.3	82.3	98.3	60.9	76.9	92.8
		67	TC	125.1	125.1	125.1	117.2	117.2	117.2	108.7	108.7	108.7	99.8	99.8	99.8	90.3	90.3	90.3
			SHC	66.1	82.3	98.5	61.3	77.5	93.6	56.3	72.5	88.6	51.2	67.3	83.5	45.9	62.0	78.2
		72	TC	139.2	139.2	139.2	130.6	130.6	130.6	121.6	121.6	121.6	112.1	112.1	112.1	102.1	102.1	102.1
			SHC	50.7	67.0	83.3	45.9	62.1	78.4	40.9	57.2	73.4	35.8	52.0	68.3	30.5	46.7	62.9
		76	TC	—	151.0	151.0	—	142.1	142.1	—	132.4	132.4	—	122.5	122.5	—	112.0	112.0
			SHC	—	54.5	71.0	—	49.7	66.2	—	44.7	61.2	—	39.6	56.1	—	34.3	50.8
3500 Cfm	EA (wb)	58	TC	112.8	112.8	128.4	106.2	106.2	121.2	99.2	99.2	113.6	91.8	91.8	105.6	84.0	84.0	97.0
			SHC	97.3	112.8	128.4	91.2	106.2	121.2	84.8	99.2	113.6	78.1	91.8	105.6	70.9	84.0	97.0
		62	TC	116.6	116.6	126.2	108.8	108.8	121.1	100.7	100.7	115.8	92.3	92.3	109.8	84.1	84.1	101.5
			SHC	89.0	107.6	126.2	84.0	102.6	121.1	78.9	97.3	115.8	73.3	91.5	109.8	66.7	84.1	101.5
		67	TC	129.5	129.5	129.5	121.1	121.1	121.1	112.3	112.3	112.3	102.9	102.9	102.9	93.1	93.1	93.1
			SHC	71.3	90.1	108.8	66.4	85.2	103.9	61.3	80.1	98.8	56.1	74.9	93.6	50.7	69.4	88.2
		72	TC	143.6	143.6	143.6	134.7	134.7	134.7	125.2	125.2	125.2	115.4	115.4	115.4	104.9	104.9	104.9
			SHC	53.3	72.1	91.0	48.4	67.2	86.1	43.3	62.1	80.9	38.1	56.9	75.7	32.7	51.5	70.3
		76	TC	—	155.5	155.5	—	146.3	146.3	—	136.5	136.5	—	125.9	125.9	—	115.0	115.0
			SHC	—	57.6	76.8	—	52.7	71.9	—	47.6	66.7	—	42.3	61.4	—	37.0	56.0
4000 Cfm	EA (wb)	58	TC	118.9	118.9	135.1	111.9	111.9	127.5	104.6	104.6	119.6	96.8	96.8	111.1	88.5	88.5	102.1
			SHC	102.6	118.9	135.1	96.3	111.9	127.5	89.5	104.6	119.6	82.5	96.8	111.1	75.0	88.5	102.1
		62	TC	120.3	120.3	137.9	113.7	113.7	128.3	104.7	104.7	124.8	96.9	96.9	116.1	88.6	88.6	106.8
			SHC	96.1	117.0	137.9	89.0	108.7	128.3	84.6	104.7	124.8	77.8	96.9	116.1	70.5	88.6	106.8
		67	TC	132.8	132.8	132.8	124.1	124.1	124.1	115.0	115.0	115.0	105.4	105.4	105.4	95.2	95.2	97.7
			SHC	76.2	97.5	118.8	71.2	92.5	113.8	66.1	87.3	108.6	60.8	82.0	103.3	55.3	76.5	97.7
		72	TC	147.0	147.0	147.0	137.8	137.8	137.8	128.0	128.0	128.0	117.8	117.8	117.8	107.1	107.1	107.1
			SHC	55.5	76.9	98.4	50.6	72.0	93.4	45.4	66.8	88.2	40.2	61.5	82.9	34.7	56.1	77.4
		76	TC	—	159.0	159.0	—	149.4	149.4	—	139.3	139.3	—	128.5	128.5	—	117.2	117.2
			SHC	—	60.3	82.0	—	55.3	77.0	—	50.2	71.9	—	44.9	66.4	—	39.5	61.0
4500 Cfm	EA (wb)	58	TC	124.0	124.0	140.8	116.7	116.7	132.9	109.1	109.1	124.6	101.0	101.0	115.7	92.3	92.3	106.3
			SHC	107.2	124.0	140.8	100.5	116.7	132.9	93.5	109.1	124.6	86.2	101.0	115.7	78.4	92.3	106.3
		62	TC	126.7	126.7	136.8	116.9	116.9	138.5	109.2	109.2	129.9	101.1	101.1	120.8	92.5	92.5	111.2
			SHC	97.1	117.0	136.8	95.2	116.9	138.5	88.5	109.2	129.9	81.3	101.1	120.8	73.8	92.5	111.2
		67	TC	135.4	135.4	135.4	126.5	126.5	126.5	117.2	117.2	118.1	107.4	107.4	112.6	97.0	97.0	106.9
			SHC	80.9	104.7	128.5	75.8	99.6	123.4	70.6	94.4	118.1	65.3	88.9	112.6	59.7	83.3	106.9
		72	TC	149.7	149.7	149.7	140.3	140.3	140.3	130.1	130.1	130.1	119.8	119.8	119.8	108.8	108.8	108.8
			SHC	57.6	81.6	105.5	52.6	76.5	100.4	47.4	71.3	95.2	42.1	66.0	89.8	36.7	60.5	84.3
		76	TC	—	161.7	161.7	—	151.8	151.8	—	141.4	141.4	—	130.5	130.5	—	119.0	119.0
			SHC	—	62.8	87.0	—	57.8	81.9	—	52.6	76.7	—	47.3	71.3	—	41.8	65.7
5000 Cfm	EA (wb)	58	TC	128.4	128.4	145.7	120.8	120.8	137.5	112.9	112.9	128.9	104.5	104.5	119.7	95.6	95.6	110.0
			SHC	111.1	128.4	145.7	104.2	120.8	137.5	97.0	112.9	128.9	89.3	104.5	119.7	81.3	95.6	110.0
		62	TC	128.5	128.5	151.6	121.0	121.0	143.2	113.0	113.0	134.3	104.6	104.6	124.9	95.7	95.7	114.9
			SHC	105.4	128.5	151.6	98.7	121.0	143.2	91.7	113.0	134.3	84.4	104.6	124.9	76.5	95.7	114.9
		67	TC	137.5	137.5	137.7	128.4	128.4	132.5	118.9	118.9	127.1	109.0	109.0	121.5	98.5	98.5	115.5
			SHC	85.3	111.5	137.7	80.1	106.3	132.5	74.9	101.0	127.1	69.5	95.5	121.5	63.8	89.7	115.5
		72	TC	151.8	151.8	151.8	142.2	142.2	142.2	131.8	131.8	131.8	121.3	121.3	121.3	110.1	110.1	110.1
			SHC	59.6	86.0	112.3	54.5	80.9	107.2	49.3	75.6	102.0	44.0	70.3	96.6	38.5	64.7	91.0
		76	TC	—	163.8	163.8	—	153.8	153.8	—	143.2	143.2	—	132.1	132.1	—	120.4	120.4
			SHC	—	65.2	91.8	—	60.1	86.7	—	54.9	81.4	—	49.5	75.9	—	44.0	70.3

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQ*12 Two Stage Cooling Capacities

50GEQ*12				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1800 Cfm	EA (wb)	58	TC	55.0	55.0	63.7	49.7	49.7	58.2	44.2	44.2	52.4	38.5	38.5	46.3	32.5	32.5	40.0
			SHC	46.2	55.0	63.7	41.3	49.7	58.2	36.0	44.2	52.4	30.7	38.5	46.3	25.1	32.5	40.0
		62	TC	59.5	59.5	60.5	53.5	53.5	55.9	47.1	47.1	51.1	40.4	40.4	46.2	33.5	33.5	41.1
			SHC	41.3	50.9	60.5	36.7	46.3	55.9	32.0	41.5	51.1	27.1	36.7	46.2	22.1	31.6	41.1
		67	TC	68.4	68.4	68.4	62.1	62.1	62.1	55.4	55.4	55.4	48.3	48.3	48.3	41.0	41.0	41.0
			SHC	33.8	43.4	53.0	29.2	38.8	48.4	24.5	34.1	43.7	19.6	29.2	38.9	14.7	24.3	33.9
		72	TC	78.0	78.0	78.0	71.5	71.5	71.5	64.4	64.4	64.4	57.1	57.1	57.1	49.3	49.3	49.3
			SHC	26.0	35.7	45.4	21.5	31.2	40.9	16.8	26.4	36.1	12.0	21.6	31.3	7.1	16.7	26.4
		76	TC	—	86.3	86.3	—	79.6	79.6	—	72.2	72.2	—	64.5	64.5	—	56.4	56.4
			SHC	—	29.4	39.3	—	24.9	34.8	—	20.2	30.1	—	15.4	25.2	—	10.5	20.3
2100 Cfm	EA (wb)	58	TC	59.8	59.8	69.1	54.4	54.4	63.3	48.5	48.5	57.1	42.5	42.5	50.7	36.2	36.2	44.0
			SHC	50.6	59.8	69.1	45.4	54.4	63.3	39.9	48.5	57.1	34.3	42.5	50.7	28.4	36.2	44.0
		62	TC	62.5	62.5	68.2	56.3	56.3	63.5	49.7	49.7	58.4	42.9	42.9	53.1	36.3	36.3	46.7
			SHC	46.1	57.2	68.2	41.4	52.4	63.5	36.5	47.4	58.4	31.4	42.3	53.1	25.8	36.3	46.7
		67	TC	71.4	71.4	71.4	64.9	64.9	64.9	57.8	57.8	57.8	50.5	50.5	50.5	42.8	42.8	42.8
			SHC	37.1	48.3	59.4	32.5	43.6	54.7	27.6	38.7	49.9	22.7	33.8	44.9	17.6	28.7	39.8
		72	TC	81.1	81.1	81.1	74.4	74.4	74.4	67.0	67.0	67.0	59.3	59.3	59.3	51.3	51.3	51.3
			SHC	27.9	39.1	50.3	23.3	34.5	45.7	18.4	29.6	40.8	13.5	24.7	35.8	8.5	19.6	30.8
		76	TC	—	89.5	89.5	—	82.6	82.6	—	74.9	74.9	—	66.9	66.9	—	58.5	58.5
			SHC	—	31.6	43.1	—	27.0	38.4	—	22.1	33.5	—	17.2	28.5	—	12.2	23.5
2400 Cfm	EA (wb)	58	TC	63.9	63.9	73.6	58.3	58.3	67.6	52.2	52.2	61.1	45.9	45.9	54.4	39.3	39.3	47.4
			SHC	54.3	63.9	73.6	48.9	58.3	67.6	43.2	52.2	61.1	37.3	45.9	54.4	31.2	39.3	47.4
		62	TC	65.0	65.0	75.3	58.7	58.7	70.3	52.3	52.3	64.2	44.2	44.2	56.7	39.4	39.4	50.2
			SHC	50.5	62.9	75.3	45.7	58.0	70.3	40.3	52.3	64.2	31.7	44.2	56.7	28.5	39.4	50.2
		67	TC	73.7	73.7	73.7	67.0	67.0	67.0	59.7	59.7	59.7	52.2	52.2	52.2	44.3	44.3	45.5
			SHC	40.2	52.9	65.5	35.5	48.1	60.7	30.5	43.1	55.8	25.5	38.1	50.7	20.3	32.9	45.5
		72	TC	83.6	83.6	83.6	76.7	76.7	76.7	69.0	69.0	69.0	61.1	61.1	61.1	52.8	52.8	52.8
			SHC	29.5	42.2	54.9	24.8	37.5	50.2	19.9	32.5	45.2	14.8	27.5	40.2	9.7	22.4	35.0
		76	TC	—	92.0	92.0	—	84.9	84.9	—	77.0	77.0	—	68.7	68.7	—	60.0	60.0
			SHC	—	33.5	46.4	—	28.8	41.7	—	23.9	36.8	—	18.9	31.7	—	13.8	26.6
2700 Cfm	EA (wb)	58	TC	67.5	67.5	77.5	61.6	61.6	71.3	55.3	55.3	64.6	48.7	48.7	57.6	41.9	41.9	50.3
			SHC	57.5	67.5	77.5	51.9	61.6	71.3	46.0	55.3	64.6	39.9	48.7	57.6	33.5	41.9	50.3
		62	TC	67.7	67.7	80.7	61.7	61.7	74.6	55.4	55.4	67.7	48.8	48.8	60.7	42.0	42.0	53.2
			SHC	54.1	67.4	80.7	48.8	61.7	74.6	42.9	55.3	67.7	37.0	48.8	60.7	30.8	42.0	53.2
		67	TC	75.5	75.5	75.5	68.7	68.7	68.7	61.2	61.2	61.4	53.5	53.5	56.2	45.5	45.5	50.9
			SHC	43.1	57.2	71.3	38.3	52.4	66.5	33.3	47.4	61.4	28.2	42.2	56.2	22.9	36.9	50.9
		72	TC	85.5	85.5	85.5	78.5	78.5	78.5	70.6	70.6	70.6	62.5	62.5	62.5	54.0	54.0	54.0
			SHC	30.9	45.1	59.3	26.2	40.4	54.5	21.2	35.3	49.5	16.1	30.2	44.4	10.9	25.0	39.2
		76	TC	—	94.0	94.0	—	86.8	86.8	—	78.6	78.6	—	70.1	70.1	—	61.3	61.3
			SHC	—	35.3	49.6	—	30.5	44.9	—	25.5	39.8	—	20.4	34.7	—	15.3	29.5
3000 Cfm	EA (wb)	58	TC	70.5	70.5	80.8	64.5	64.5	74.4	58.0	58.0	67.5	51.2	51.2	60.3	44.2	44.2	52.8
			SHC	60.2	70.5	80.8	54.5	64.5	74.4	48.4	58.0	67.5	42.1	51.2	60.3	35.6	44.2	52.8
		62	TC	70.6	70.6	84.4	64.6	64.6	77.9	58.0	58.0	70.8	51.3	51.3	63.5	44.3	44.3	55.8
			SHC	56.8	70.6	84.4	51.3	64.6	77.9	45.2	58.0	70.8	39.2	51.3	63.5	32.8	44.3	55.8
		67	TC	77.0	77.0	77.0	70.1	70.1	72.0	62.5	62.5	66.9	54.7	54.7	61.6	46.5	46.5	56.1
			SHC	45.9	61.4	77.0	41.0	56.5	72.0	35.9	51.4	66.9	30.7	46.2	61.6	25.4	40.8	56.1
		72	TC	87.1	87.1	87.1	79.9	79.9	79.9	71.9	71.9	71.9	63.6	63.6	63.6	55.0	55.0	55.0
			SHC	32.3	47.9	63.5	27.5	43.1	58.7	22.4	38.0	53.6	17.3	32.9	48.5	12.0	27.6	43.2
		76	TC	—	95.6	95.6	—	88.3	88.3	—	80.0	80.0	—	71.3	71.3	—	62.3	62.3
			SHC	—	36.9	52.7	—	32.1	47.9	—	27.0	42.8	—	21.9	37.6	—	16.6	32.3

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQ*12 One Stage Cooling Capacities

50GEQ*12				AMBIENT TEMPERATURE														
				85			95			105			115			125		
				EA (db)			EA (db)			EA (db)			EA (db)			EA (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1200 Cfm	EA (wb)	58	TC	29.7	29.7	35.5	24.6	24.6	30.3	19.4	19.4	24.9	14.1	14.1	19.3	8.6	8.6	13.6
			SHC	23.8	29.7	35.5	18.9	24.6	30.3	13.9	19.4	24.9	8.8	14.1	19.3	3.6	8.6	13.6
		62	TC	34.1	34.1	34.1	28.4	28.4	28.5	22.5	22.5	23.6	16.4	16.4	18.7	10.2	10.2	13.7
			SHC	21.0	27.1	33.2	16.2	22.4	28.5	11.4	17.5	23.6	6.5	12.6	18.7	1.6	7.6	13.7
		67	TC	41.1	41.1	41.1	35.2	35.2	35.2	29.1	29.1	29.1	22.8	22.8	22.8	16.2	16.2	16.2
			SHC	17.0	23.2	29.3	12.3	18.5	24.6	7.5	13.6	19.8	2.6	8.8	14.9	—2.3	3.8	10.0
		72	TC	48.5	48.5	48.5	42.5	42.5	42.5	36.2	36.2	36.2	29.6	29.6	29.6	22.8	22.8	22.8
			SHC	13.0	19.2	25.4	8.3	14.5	20.7	3.5	9.6	15.8	—1.4	4.8	11.0	—6.3	—0.1	6.0
		76	TC	—	54.8	54.8	—	48.6	48.6	—	42.1	42.1	—	35.4	35.4	—	28.4	28.4
			SHC	—	15.9	22.5	—	11.2	17.7	—	6.4	12.8	—	1.5	7.9	—	—3.4	2.9
1400 Cfm	EA (wb)	58	TC	33.3	33.3	39.5	28.0	28.0	34.0	22.5	22.5	28.3	16.9	16.9	22.5	11.2	11.2	16.4
			SHC	27.1	33.3	39.5	22.0	28.0	34.0	16.7	22.5	28.3	11.4	16.9	22.5	5.9	11.2	16.4
		62	TC	36.4	36.4	38.3	30.4	30.4	33.3	24.3	24.3	28.3	18.0	18.0	23.1	11.7	11.7	17.7
			SHC	24.2	31.2	38.3	19.3	26.3	33.3	14.3	21.3	28.3	9.2	16.2	23.1	4.0	10.9	17.7
		67	TC	43.4	43.4	43.4	37.3	37.3	37.3	30.9	30.9	30.9	24.3	24.3	24.3	17.5	17.5	17.5
			SHC	19.4	26.5	33.5	14.5	21.6	28.6	9.5	16.6	23.7	4.5	11.5	18.6	—0.6	6.4	13.5
		72	TC	51.0	51.0	51.0	44.6	44.6	44.6	38.0	38.0	38.0	31.2	31.2	31.2	24.2	24.2	24.2
			SHC	14.4	21.5	28.7	9.5	16.7	23.8	4.6	11.7	18.8	—0.5	6.7	13.8	—5.5	1.6	8.7
		76	TC	—	57.3	57.3	—	50.9	50.9	—	44.1	44.1	—	37.1	37.1	—	29.8	29.8
			SHC	—	17.5	24.9	—	12.6	20.0	—	7.7	15.0	—	2.7	9.9	—	—2.4	4.8
1600 Cfm	EA (wb)	58	TC	36.4	36.4	42.9	30.9	30.9	37.2	25.2	25.2	31.3	19.4	19.4	25.2	13.4	13.4	18.8
			SHC	30.0	36.4	42.9	24.6	30.9	37.2	19.2	25.2	31.3	13.6	19.4	25.2	7.9	13.4	18.8
		62	TC	38.3	38.3	43.0	32.2	32.2	37.8	25.9	25.9	32.6	19.5	19.5	27.2	13.4	13.4	20.8
			SHC	27.2	35.1	43.0	22.1	30.0	37.8	17.0	24.8	32.6	11.7	19.5	27.2	6.1	13.4	20.8
		67	TC	45.2	45.2	45.2	38.9	38.9	38.9	32.3	32.3	32.3	25.5	25.5	25.5	18.4	18.4	18.4
			SHC	21.5	29.5	37.5	16.5	24.5	32.5	11.4	19.4	27.4	6.2	14.2	22.2	1.0	9.0	17.0
		72	TC	52.9	52.9	52.9	46.4	46.4	46.4	39.5	39.5	39.5	32.5	32.5	32.5	25.2	25.2	25.2
			SHC	15.6	23.7	31.7	10.6	18.7	26.7	5.6	13.6	21.6	0.4	8.4	16.5	—4.8	3.2	11.2
		76	TC	—	59.3	59.3	—	52.6	52.6	—	45.6	45.6	—	38.4	38.4	—	30.8	30.8
			SHC	—	18.9	27.2	—	13.9	22.1	—	8.9	17.0	—	3.7	11.9	—	—1.5	6.6
1800 Cfm	EA (wb)	58	TC	39.2	39.2	45.9	33.4	33.4	40.0	27.6	27.6	33.8	21.5	21.5	27.5	15.3	15.3	20.9
			SHC	32.4	39.2	45.9	26.9	33.4	40.0	21.3	27.6	33.8	15.5	21.5	27.5	9.6	15.3	20.9
		62	TC	40.0	40.0	47.2	33.8	33.8	41.9	27.6	27.6	36.0	21.6	21.6	29.6	15.3	15.3	22.9
			SHC	29.9	38.6	47.2	24.7	33.3	41.9	19.3	27.6	36.0	13.6	21.6	29.6	7.7	15.3	22.9
		67	TC	46.7	46.7	46.7	40.2	40.2	40.2	33.4	33.4	33.4	26.5	26.5	26.5	19.2	19.2	20.3
			SHC	23.5	32.4	41.3	18.4	27.3	36.2	13.2	22.1	30.9	7.9	16.8	25.7	2.6	11.4	20.3
		72	TC	54.4	54.4	54.4	47.7	47.7	47.7	40.7	40.7	40.7	33.5	33.5	33.5	26.0	26.0	26.0
			SHC	16.7	25.7	34.6	11.6	20.6	29.5	6.5	15.4	24.3	1.2	10.1	19.0	—4.1	4.8	13.7
		76	TC	—	60.9	60.9	—	54.0	54.0	—	46.8	46.8	—	39.4	39.4	—	31.7	31.7
			SHC	—	20.2	29.3	—	15.1	24.2	—	9.9	19.0	—	4.7	13.7	—	—0.6	8.4
2000 Cfm	EA (wb)	58	TC	41.5	41.5	48.5	35.7	35.7	42.4	29.6	29.6	36.0	23.4	23.4	29.5	16.9	16.9	22.8
			SHC	34.6	41.5	48.5	28.9	35.7	42.4	23.1	29.6	36.0	17.2	23.4	29.5	11.1	16.9	22.8
		62	TC	41.6	41.6	50.9	35.7	35.7	44.7	29.7	29.7	38.3	23.4	23.4	31.7	17.0	17.0	24.8
			SHC	32.3	41.6	50.9	26.8	35.7	44.7	21.0	29.7	38.3	15.2	23.4	31.7	9.2	17.0	24.8
		67	TC	48.0	48.0	48.0	41.3	41.3	41.3	34.4	34.4	34.4	27.3	27.3	29.0	19.9	19.9	23.5
			SHC	25.4	35.2	44.9	20.2	29.9	39.7	14.9	24.6	34.4	9.5	19.3	29.0	4.1	13.8	23.5
		72	TC	55.7	55.7	55.7	48.9	48.9	48.9	41.7	41.7	41.7	34.4	34.4	34.4	26.7	26.7	26.7
			SHC	17.7	27.6	37.4	12.6	22.4	32.2	7.3	17.1	26.9	2.0	11.8	21.5	—3.4	6.3	16.1
		76	TC	—	62.2	62.2	—	55.2	55.2	—	47.9	47.9	—	40.3	40.3	—	32.4	32.4
			SHC	—	21.4	31.3	—	16.2	26.2	—	11.0	20.9	—	5.6	15.5	—	0.2	10.1

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 7.

50GEQU12 — Unit with Humidi-MiZer® System in Subcooling Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR - (°F)								
		80 Dry Bulb 62 Wet Bulb (36% Relative)			80 Dry Bulb 67 Wet Bulb (51% Relative)			80 Dry Bulb 72 Wet Bulb (68% Relative)		
		AIR ENTERING EVAPORATOR - SCFM / STATIC								
		3000	4000	5000	3000	4000	5000	3000	4000	5000
75	TC	122.4	122.5	122.6	137.0	137.1	137.3	151.6	151.8	151.9
	SHC	104.6	104.2	103.9	87.0	91.0	93.8	69.5	77.7	83.6
	kW	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.8	3.8
85	TC	112.4	112.6	112.7	126.9	127.0	127.2	141.3	141.5	141.6
	SHC	103.5	99.9	97.3	82.3	83.4	84.1	61.2	66.8	70.9
	kW	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.4	4.4
95	TC	102.4	102.6	102.8	116.7	116.9	117.1	131.0	131.2	131.4
	SHC	102.4	95.6	90.7	77.6	75.8	74.4	52.9	56.0	58.2
	kW	4.9	4.9	4.9	5.0	5.0	5.0	5.1	5.1	5.1
105	TC	92.5	92.7	92.9	106.6	106.8	107.0	120.7	121.0	121.1
	SHC	101.2	91.3	84.1	72.9	68.2	64.8	44.6	45.1	45.4
	kW	5.5	5.5	5.5	5.6	5.6	5.6	5.7	5.7	5.7
115	TC	82.5	82.8	83.0	96.5	96.7	96.9	110.4	110.7	110.9
	SHC	100.1	87.0	77.5	68.2	60.6	55.1	36.3	34.2	32.7
	kW	6.0	6.0	6.0	6.2	6.2	6.1	6.3	6.3	6.3

50GEQU12 — Unit with Humidi-MiZer System in Hot Gas Reheat Mode — Cooling Capacities

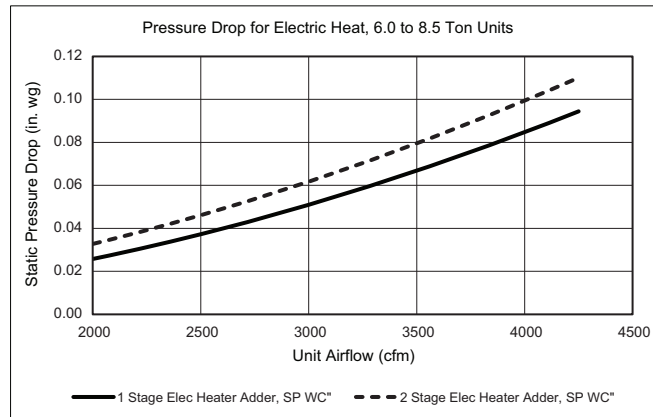
TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR - (°F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		AIR ENTERING EVAPORATOR - SCFM								
		3000	4000	5000	3000	4000	5000	3000	4000	5000
80	TC	36.6	37.2	37.6	36.8	37.4	37.9	37.1	37.7	38.1
	SHC	5.7	5.7	5.7	2.0	2.0	2.0	-1.2	-1.2	-1.2
	kW	8.8	8.2	7.8	6.2	7.7	7.3	7.8	7.2	6.8
75	TC	37.3	37.8	38.2	37.6	38.1	38.5	37.8	38.4	38.8
	SHC	7.9	7.9	7.9	4.4	4.4	4.4	1.5	1.5	1.5
	kW	8.6	8.1	7.7	6.2	7.6	7.2	7.7	7.1	6.7
70	TC	38.0	38.4	38.8	38.3	38.8	39.2	38.6	39.1	39.5
	SHC	10.0	10.0	10.0	6.9	6.9	6.9	4.2	4.2	4.2
	kW	8.4	7.9	7.5	6.1	7.5	7.1	7.6	7.1	6.7
60	TC	39.3	39.7	40.0	39.8	40.2	40.5	40.2	40.6	40.9
	SHC	14.4	14.3	14.3	11.8	11.8	11.8	9.6	9.6	9.6
	kW	8.0	7.6	7.3	6.1	7.2	6.9	7.3	6.9	6.6
50	TC	40.7	41.0	41.2	41.3	41.6	41.8	41.8	42.1	42.4
	SHC	18.7	18.7	18.7	16.7	16.7	16.7	15.0	15.0	15.0
	kW	7.6	7.3	7.0	6.1	7.0	6.7	7.1	6.8	6.5
40	TC	42.1	42.3	42.5	42.8	43.0	43.2	43.4	43.6	43.8
	SHC	23.0	23.0	23.0	21.6	21.6	21.6	20.4	20.4	20.4
	kW	7.3	7.0	6.8	6.0	6.8	6.6	6.9	6.6	6.4

LEGEND

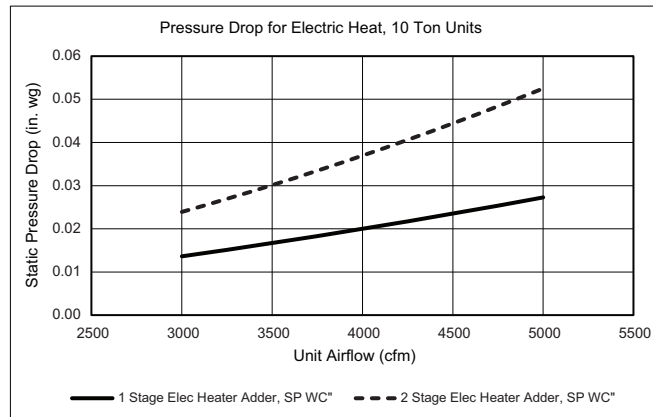
Edb	—	Entering Dry Bulb
Ewb	—	Entering Wet Bulb
kW	—	Compressor Power Input
SCFM/BF	—	Standard Cubic Feet per Minute/Bypass Factor
SHC	—	Sensible Heat Capacity (1000 Btuh) Gross
TC	—	Total Capacity (1000 Btuh) Gross

Pressure Drop for Electric Heating Units

6.0 to 8.5 Ton Units

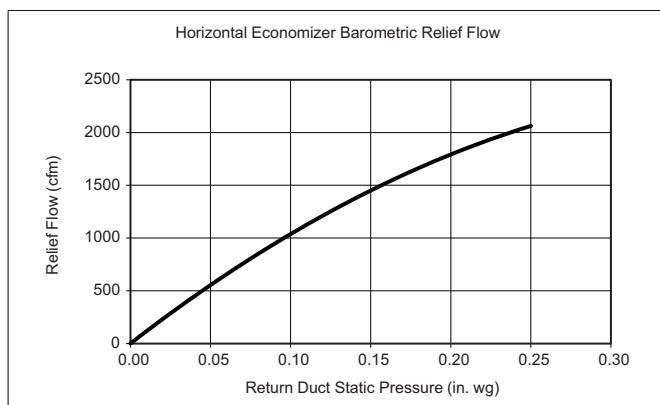


10.0 Ton Units

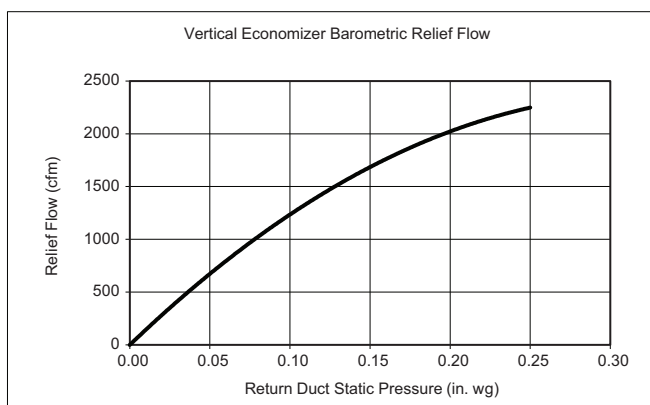


Economizer Barometric Relief and Damper Leakage — 6 to 8.5 Ton Units

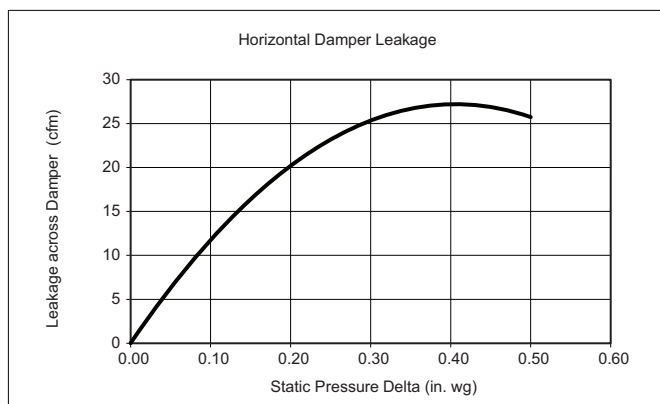
Horizontal Economizer Barometric Relief



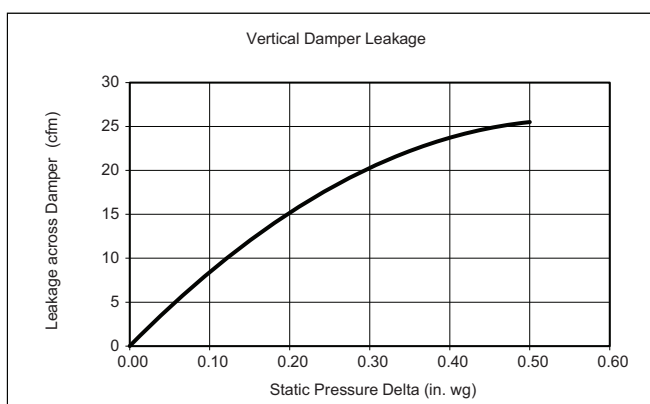
Vertical Economizer Barometric Relief



Horizontal Economizer Damper Leakage

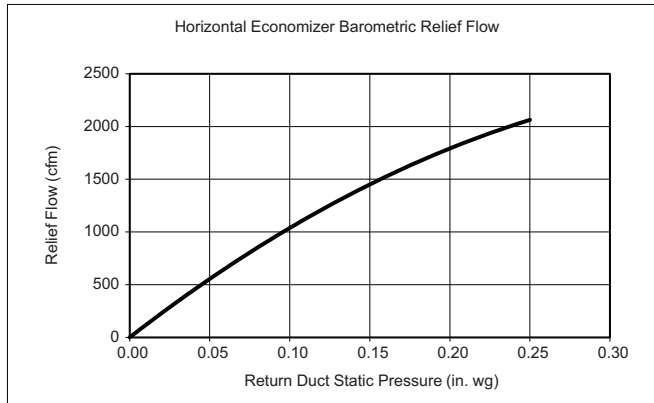


Vertical Economizer Damper Leakage

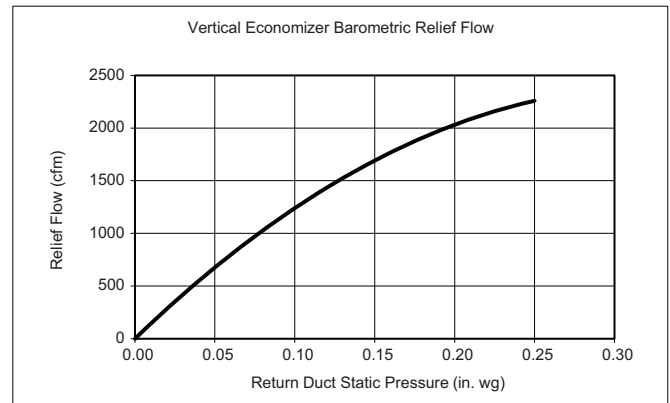


Economizer Barometric Relief and Damper Leakage — 10 Ton Units

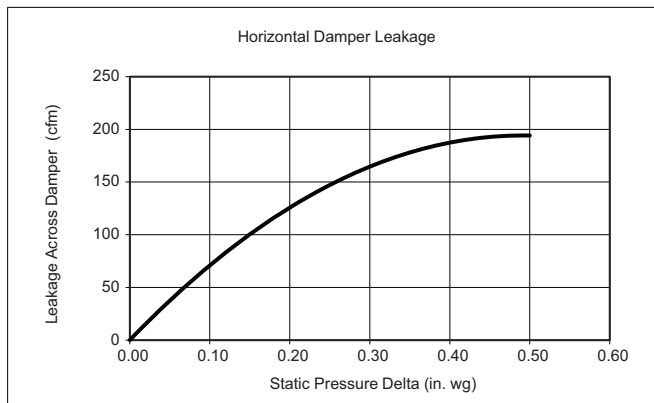
Horizontal Economizer Barometric Relief



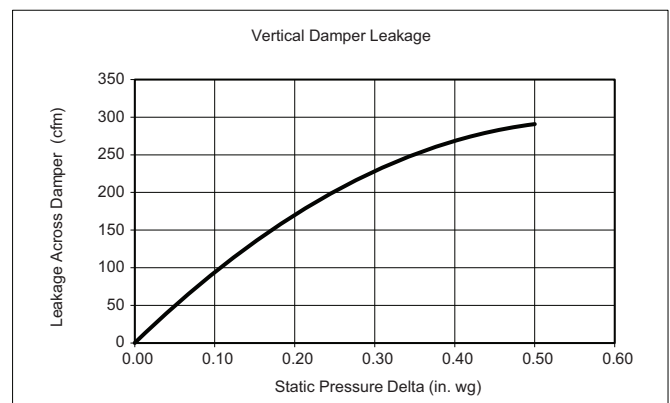
Vertical Economizer Barometric Relief



Horizontal Economizer Damper Leakage

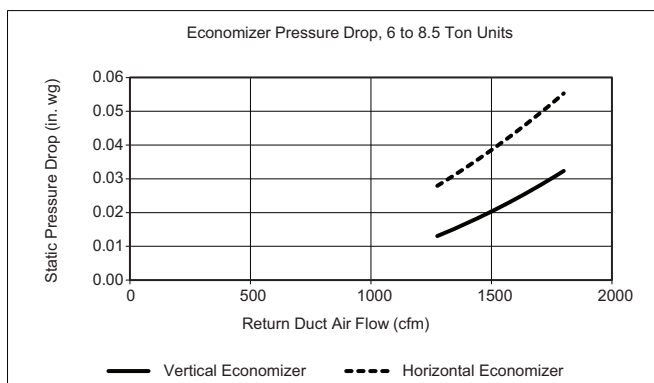


Vertical Economizer Damper Leakage

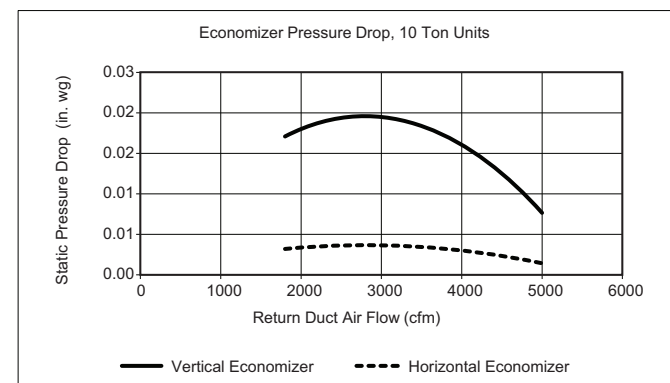


Economizer Pressure Drop

6 to 8.5 Ton Units



10 Ton Units



General Fan Performance Notes

1. Interpolation is permissible. Do not extrapolate.
2. External static pressure is the static pressure difference between the return duct and the supply duct plus the static pressure caused by any FIOPs or accessories.
3. Tabular data accounts for pressure loss due to clean filters, unit casing, and wet coils.
4. Factory options and accessories may effect static pressure losses. Selection software is available, through your salesperson, to help you select the best motor/drive combination for your application.
5. The fan performance tables offer motor recommendations. In cases when two motors would work, the lower horsepower option is recommended.
6. For information on the electrical properties of the fan motors, please see the Electrical information section of this book.
7. For more information on the performance limits of the fan motors, see the application data section of this book.
8. The EPACT (Energy Policy Act of 1992) regulates energy requirements for specific types of indoor fan motors. Motors regulated by EPACT include any general purpose, T-frame (three-digit, 143 and larger), single-speed, foot mounted, polyphase, squirrel cage induction motors of NEMA (National Electrical Manufacturers Association) design A and B, manufactured for use in the United States. Ranging from 1 to 200 Hp, these continuous-duty motors operate on 230 and 460 volt, 60 Hz power. If a motor does not fit into these specifications, the motor does not have to be replaced by an EPACT compliant energy-efficient motor. Variable-speed motors are exempt from EPACT compliance requirements.

50GEQT07 — 6.5 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1800	796	0.19	940	0.32	1064	0.46	1174	0.61	1274	0.79
1950	840	0.22	977	0.35	1097	0.50	1205	0.66	1303	0.84
2100	886	0.26	1016	0.39	1132	0.54	1237	0.71	1334	0.89
2250	932	0.30	1056	0.44	1168	0.59	1271	0.77	1365	0.95
2400	980	0.35	1098	0.49	1206	0.65	1306	0.83	1398	1.01
2550	1029	0.40	1141	0.55	1245	0.71	1342	0.89	1432	1.08
2700	1078	0.46	1185	0.61	1285	0.78	1379	0.96	1467	1.16
2850	1128	0.52	1230	0.68	1327	0.85	1418	1.04	1504	1.24
3000	1178	0.59	1276	0.75	1369	0.93	1458	1.12	1541	1.32

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1800	1365	0.97	1451	1.16	1530	1.36	1606	1.57	1678	1.80
1950	1393	1.02	1478	1.22	1557	1.43	1631	1.64	1702	1.86
2100	1423	1.08	1506	1.28	1584	1.49	1658	1.71	1728	1.94
2250	1453	1.15	1535	1.35	1612	1.56	1685	1.79	1755	2.02
2400	1484	1.21	1565	1.42	1641	1.64	1714	1.87	1783	2.10
2550	1517	1.29	1596	1.50	1671	1.72	1743	1.95	1811	2.19
2700	1550	1.36	1628	1.58	1703	1.81	1773	2.04	1841	2.29
2850	1585	1.45	1661	1.67	1735	1.90	1804	2.14	1871	2.38
3000	1620	1.53	1696	1.76	1768	1.99	1836	2.23	1902	2.48

Std/Med Static 796-2000 rpm, 2.4 Max bhp

High Static 796-2200 rpm, 3.0 Max bhp

50GEQT07 — Standard/Medium Static — 6.5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1800	796	3.8	940	4.5	1064	5.2	1174	5.8	1274	6.3
1950	840	4.0	977	4.7	1097	5.4	1205	5.9	1303	6.4
2100	886	4.3	1016	4.9	1132	5.5	1237	6.1	1334	6.6
2250	932	4.5	1056	5.1	1168	5.7	1271	6.3	1365	6.7
2400	980	4.8	1098	5.4	1206	5.9	1306	6.4	1398	6.9
2550	1029	5.0	1141	5.6	1245	6.1	1342	6.6	1432	7.1
2700	1078	5.3	1185	5.8	1285	6.3	1379	6.8	1467	7.3
2850	1128	5.5	1230	6.0	1327	6.5	1418	7.0	1504	7.4
3000	1178	5.8	1276	6.3	1369	6.8	1458	7.2	1541	7.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1800	1365	6.7	1451	7.2	1530	7.6	1606	8.0	1678	8.3
1950	1393	6.9	1478	7.3	1557	7.7	1631	8.1	1702	8.5
2100	1423	7.0	1506	7.5	1584	7.9	1658	8.2	1728	8.6
2250	1453	7.2	1535	7.6	1612	8.0	1685	8.4	1755	8.7
2400	1484	7.3	1565	7.8	1641	8.2	1714	8.5	1783	8.9
2550	1517	7.5	1596	7.9	1671	8.3	1743	8.7	1811	9.0
2700	1550	7.7	1628	8.1	1703	8.5	1773	8.8	1841	9.2
2850	1585	7.9	1661	8.3	1735	8.6	1804	9.0	1871	9.3
3000	1620	8.0	1696	8.4	1768	8.8	1836	9.2	1902	9.5

Std/Med Static 796-2000 rpm, 2.4 Max bhp

50GEQT07 — High Static — 6.5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1800	796	3.5	940	4.2	1064	4.8	1174	5.3	1274	5.7
1950	840	3.7	977	4.4	1097	4.9	1205	5.4	1303	5.9
2100	886	3.9	1016	4.5	1132	5.1	1237	5.6	1334	6.0
2250	932	4.1	1056	4.7	1168	5.2	1271	5.7	1365	6.1
2400	980	4.4	1098	4.9	1206	5.4	1306	5.9	1398	6.3
2550	1029	4.6	1141	5.1	1245	5.6	1342	6.0	1432	6.5
2700	1078	4.8	1185	5.3	1285	5.8	1379	6.2	1467	6.6
2850	1128	5.1	1230	5.5	1327	6.0	1418	6.4	1504	6.8
3000	1178	5.3	1276	5.7	1369	6.2	1458	6.6	1541	7.0

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1800	1365	6.1	1451	6.5	1530	6.9	1606	7.3	1678	7.6
1950	1393	6.3	1478	6.7	1557	7.0	1631	7.4	1702	7.7
2100	1423	6.4	1506	6.8	1584	7.2	1658	7.5	1728	7.8
2250	1453	6.6	1535	6.9	1612	7.3	1685	7.6	1755	7.9
2400	1484	6.7	1565	7.1	1641	7.4	1714	7.8	1783	8.1
2550	1517	6.8	1596	7.2	1671	7.6	1743	7.9	1811	8.2
2700	1550	7.0	1628	7.4	1703	7.7	1773	8.0	1841	8.3
2850	1585	7.2	1661	7.5	1735	7.9	1804	8.2	1871	8.5
3000	1620	7.3	1696	7.7	1768	8.0	1836	8.3	1902	8.6

High Static 796-2200 rpm, 3.0 Max bhp

50GEQT08 — 7.5 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2250	941	0.31	1064	0.45	1176	0.61	1279	0.79	1373	0.98
2440	1000	0.37	1116	0.52	1223	0.69	1322	0.87	1414	1.06
2625	1059	0.44	1169	0.59	1271	0.76	1366	0.95	1456	1.15
2815	1120	0.52	1224	0.68	1322	0.85	1413	1.04	1500	1.25
3000	1181	0.60	1279	0.77	1372	0.95	1461	1.14	1544	1.35
3190	1244	0.70	1337	0.87	1426	1.06	1511	1.26	1592	1.47
3375	1306	0.80	1395	0.98	1480	1.17	1561	1.37	1640	1.59
3565	1370	0.92	1455	1.10	1536	1.29	1614	1.50	1690	1.72
3750	1433	1.04	1514	1.23	1592	1.43	1667	1.64	1740	1.86

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2250	1460	1.17	1542	1.38	1619	1.60	1692	1.83	1761	2.06
2440	1499	1.26	1580	1.48	1655	1.70	1727	1.93	1796	2.17
2625	1539	1.36	1618	1.58	1692	1.80	1763	2.04	1831	2.28
2815	1581	1.46	1658	1.68	1732	1.92	1802	2.16	1869	2.41
3000	1624	1.57	1699	1.80	1771	2.04	1840	2.29	1906	2.54
3190	1669	1.69	1743	1.93	1813	2.17	1881	2.42	1946	2.68
3375	1714	1.82	1787	2.06	1856	2.31	1922	2.56	1986	2.83
3565	1763	1.96	1833	2.20	1900	2.45	1965	2.71	2028	2.98
3750	1811	2.10	1879	2.34	1945	2.60	2008	2.86	2070	3.13

Std/Med Static 941-2000 rpm, 2.4 Max bhp

High Static 941-2200 rpm, 3.0 Max bhp

50GEQT08 — Standard/Medium Static — 7.5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2250	941	4.6	1064	5.2	1176	5.8	1279	6.3	1373	6.8
2440	1000	4.9	1116	5.5	1223	6.0	1322	6.5	1414	7.0
2625	1059	5.2	1169	5.7	1271	6.3	1366	6.7	1456	7.2
2815	1120	5.5	1224	6.0	1322	6.5	1413	7.0	1500	7.4
3000	1181	5.8	1279	6.3	1372	6.8	1461	7.2	1544	7.7
3190	1244	6.1	1337	6.6	1426	7.0	1511	7.5	1592	7.9
3375	1306	6.4	1395	6.9	1480	7.3	1561	7.7	1640	8.1
3565	1370	6.8	1455	7.2	1536	7.6	1614	8.0	1690	8.4
3750	1433	7.1	1514	7.5	1592	7.9	1667	8.3	1740	8.7

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2250	1460	7.2	1542	7.6	1619	8.0	1692	8.4	1761	8.8
2440	1499	7.4	1580	7.8	1655	8.2	1727	8.6	1796	9.0
2625	1539	7.6	1618	8.0	1692	8.4	1763	8.8	1831	9.1
2815	1581	7.8	1658	8.2	1732	8.6	1802	9.0	1869	9.3
3000	1624	8.1	1699	8.5	1771	8.8	1840	9.2	1906	9.5
3190	1669	8.3	1743	8.7	1813	9.0	1881	9.4	—	—
3375	1714	8.5	1787	8.9	1856	9.3	—	—	—	—
3565	1763	8.8	1833	9.1	1900	9.5	—	—	—	—
3750	1811	9.0	1879	9.4	—	—	—	—	—	—

Std/Med Static 941-2000 rpm

50GEQT08 — High Static — 7.5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2250	941	4.2	1064	4.8	1176	5.3	1279	5.7	1373	6.2
2440	1000	4.5	1116	5.0	1223	5.5	1322	5.9	1414	6.4
2625	1059	4.7	1169	5.2	1271	5.7	1366	6.2	1456	6.6
2815	1120	5.0	1224	5.5	1322	5.9	1413	6.4	1500	6.8
3000	1181	5.3	1279	5.7	1372	6.2	1461	6.6	1544	7.0
3190	1244	5.6	1337	6.0	1426	6.4	1511	6.8	1592	7.2
3375	1306	5.9	1395	6.3	1480	6.7	1561	7.1	1640	7.4
3565	1370	6.2	1455	6.6	1536	6.9	1614	7.3	1690	7.6
3750	1433	6.5	1514	6.8	1592	7.2	1667	7.5	1740	7.9

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2250	1460	6.6	1542	7.0	1619	7.3	1692	7.7	1761	8.0
2440	1499	6.8	1580	7.1	1655	7.5	1727	7.8	1796	8.1
2625	1539	6.9	1618	7.3	1692	7.7	1763	8.0	1831	8.3
2815	1581	7.1	1658	7.5	1732	7.8	1802	8.2	1869	8.5
3000	1624	7.3	1699	7.7	1771	8.0	1840	8.3	1906	8.6
3190	1669	7.5	1743	7.9	1813	8.2	1881	8.5	1946	8.8
3375	1714	7.8	1787	8.1	1856	8.4	1922	8.7	1986	9.0
3565	1763	8.0	1833	8.3	1900	8.6	1965	8.9	2028	9.2
3750	1811	8.2	1879	8.5	1945	8.8	2008	9.1	2070	9.4

High Static 941-2200 rpm

50GEQT09 — 8.5 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2550	1035	0.41	1147	0.56	1251	0.73	1348	0.91	1438	1.11
2765	1104	0.50	1209	0.65	1308	0.83	1401	1.02	1488	1.22
2975	1173	0.59	1272	0.76	1365	0.93	1454	1.13	1538	1.34
3190	1244	0.70	1337	0.87	1426	1.06	1511	1.26	1592	1.47
3400	1314	0.82	1402	0.99	1487	1.19	1568	1.39	1646	1.61
3615	1387	0.95	1470	1.13	1551	1.33	1629	1.54	1703	1.76
3825	1458	1.09	1538	1.28	1615	1.48	1689	1.69	1761	1.92
4040	1532	1.24	1608	1.44	1681	1.64	1752	1.86	1822	2.09
4250	1605	1.41	1677	1.60	1747	1.81	1815	2.03	1882	2.27

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2550	1522	1.32	1602	1.53	1677	1.76	1749	2.00	1817	2.24
2765	1570	1.43	1647	1.65	1721	1.89	1792	2.13	1859	2.38
2975	1618	1.56	1693	1.78	1766	2.02	1835	2.27	1901	2.52
3190	1669	1.69	1743	1.93	1813	2.17	1881	2.42	1946	2.68
3400	1721	1.84	1792	2.07	1861	2.32	1927	2.58	1991	2.84
3615	1776	2.00	1845	2.24	1912	2.49	1976	2.75	2039	3.02
3825	1831	2.16	1898	2.40	1963	2.66	2026	2.92	2087	3.20
4040	1889	2.33	1954	2.58	2017	2.84	2078	3.11	—	—
4250	1947	2.51	2010	2.76	2071	3.02	—	—	—	—

Std/Med Static 1035-2000 rpm, 2.4 Max bhp

High Static 1035-2200 rpm, 3.0 Max bhp

50GEQT09 — Standard/Medium Static — 8.5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2550	1035	5.0	1147	5.6	1251	6.1	1348	6.6	1438	7.1
2765	1104	5.4	1209	5.9	1308	6.4	1401	6.9	1488	7.4
2975	1173	5.7	1272	6.3	1365	6.7	1454	7.2	1538	7.6
3190	1244	6.1	1337	6.6	1426	7.0	1511	7.5	1592	7.9
3400	1314	6.5	1402	6.9	1487	7.4	1568	7.8	1646	8.2
3615	1387	6.8	1470	7.3	1551	7.7	1629	8.1	1703	8.5
3825	1458	7.2	1538	7.6	1615	8.0	1689	8.4	1761	8.8
4040	1532	7.6	1608	8.0	1681	8.4	1752	8.7	1822	9.1
4250	1605	8.0	1677	8.3	1747	8.7	1815	9.0	1882	9.4

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2550	1522	7.5	1602	8.0	1677	8.3	1749	8.7	1817	9.1
2765	1570	7.8	1647	8.2	1721	8.6	1792	8.9	1859	9.3
2975	1618	8.0	1693	8.4	1766	8.8	1835	9.2	1901	9.5
3190	1669	8.3	1743	8.7	1813	9.0	1881	9.4	—	—
3400	1721	8.6	1792	8.9	1861	9.3	—	—	—	—
3615	1776	8.8	1845	9.2	1912	9.5	—	—	—	—
3825	1831	9.1	1898	9.5	—	—	—	—	—	—
4040	1889	9.4	—	—	—	—	—	—	—	—
4250	1947	9.7	—	—	—	—	—	—	—	—

Std/Med Static 1035-2000 rpm

50GEQT09 — High Static — 8.5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2550	1035	4.6	1147	5.1	1251	5.6	1348	6.1	1438	6.5
2765	1104	4.9	1209	5.4	1308	5.9	1401	6.3	1488	6.7
2975	1173	5.3	1272	5.7	1365	6.1	1454	6.6	1538	6.9
3190	1244	5.6	1337	6.0	1426	6.4	1511	6.8	1592	7.2
3400	1314	5.9	1402	6.3	1487	6.7	1568	7.1	1646	7.4
3615	1387	6.2	1470	6.6	1551	7.0	1629	7.4	1703	7.7
3825	1458	6.6	1538	6.9	1615	7.3	1689	7.6	1761	8.0
4040	1532	6.9	1608	7.3	1681	7.6	1752	7.9	1822	8.3
4250	1605	7.3	1677	7.6	1747	7.9	1815	8.2	1882	8.5

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2550	1522	6.9	1602	7.2	1677	7.6	1749	7.9	1817	8.2
2765	1570	7.1	1647	7.4	1721	7.8	1792	8.1	1859	8.4
2975	1618	7.3	1693	7.7	1766	8.0	1835	8.3	1901	8.6
3190	1669	7.5	1743	7.9	1813	8.2	1881	8.5	1946	8.8
3400	1721	7.8	1792	8.1	1861	8.4	1927	8.7	1991	9.0
3615	1776	8.0	1845	8.4	1912	8.7	1976	9.0	2039	9.3
3825	1831	8.3	1898	8.6	1963	8.9	2026	9.2	2087	9.5
4040	1889	8.6	1954	8.9	2017	9.2	2078	9.4	—	—
4250	1947	8.8	2010	9.1	2071	9.4	—	—	—	—

High Static 1035-2200 rpm

50GEQT12 — 10 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3000	1099	0.55	1202	0.72	1302	0.91	1397	1.13	1486	1.36
3250	1173	0.66	1270	0.84	1363	1.04	1453	1.26	1539	1.49
3500	1249	0.79	1339	0.97	1427	1.17	1512	1.40	1594	1.64
3750	1325	0.93	1410	1.11	1493	1.32	1573	1.55	1652	1.79
4000	1403	1.08	1482	1.27	1560	1.48	1637	1.71	1711	1.96
4250	1480	1.24	1556	1.44	1630	1.65	1702	1.88	1773	2.13
4500	1559	1.41	1630	1.61	1700	1.83	1769	2.06	1837	2.30
4750	1638	1.58	1705	1.79	1772	2.01	1838	2.24	1903	2.48
5000	1717	1.76	1781	1.97	1845	2.19	1908	2.42	1970	2.66

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3000	1570	1.60	1649	1.86	1723	2.12	1794	2.39	1860	2.67
3250	1620	1.74	1698	2.00	1771	2.27	1841	2.55	1907	2.84
3500	1673	1.89	1748	2.16	1820	2.44	1889	2.72	1954	3.01
3750	1727	2.05	1800	2.32	1871	2.61	1938	2.90	2003	3.20
4000	1784	2.22	1855	2.49	1923	2.78	1989	3.07	2052	3.37
4250	1843	2.39	1911	2.66	1977	2.95	2041	3.24	2103	3.55
4500	1904	2.56	1969	2.84	2033	3.12	2095	3.42	2156	3.72
4750	1966	2.74	2029	3.01	2091	3.29	2151	3.59	—	—
5000	2031	2.92	2091	3.19	2150	3.46	—	—	—	—

Std/Med Static 1100-2000 rpm, 2.4 Max bhp

High Static 1100-2200 rpm, 5.0 Max bhp

50GEQT12 — Standard/Medium Static — 10 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
3000	1099	5.4	1202	5.9	1302	6.4	1397	6.9	1486	7.4
3250	1173	5.7	1270	6.2	1363	6.7	1453	7.2	1539	7.6
3500	1249	6.1	1339	6.6	1427	7.1	1512	7.5	1594	7.9
3750	1325	6.5	1410	7.0	1493	7.4	1573	7.8	1652	8.2
4000	1403	6.9	1482	7.3	1560	7.7	1637	8.1	1711	8.5
4250	1480	7.3	1556	7.7	1630	8.1	1702	8.5	1773	8.8
4500	1559	7.7	1630	8.1	1700	8.5	1769	8.8	1837	9.2
4750	1638	8.1	1705	8.5	1772	8.8	1838	9.2	1903	9.5
5000	1717	8.5	1781	8.9	1845	9.2	1908	9.5	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
3000	1570	7.8	1649	8.2	1723	8.6	1794	8.9	—	—
3250	1620	8.0	1698	8.4	1771	8.8	—	—	—	—
3500	1673	8.3	1748	8.7	1820	9.1	—	—	—	—
3750	1727	8.6	1800	9.0	—	—	—	—	—	—
4000	1784	8.9	1855	9.3	—	—	—	—	—	—
4250	1843	9.2	—	—	—	—	—	—	—	—
4500	—	—	—	—	—	—	—	—	—	—
4750	—	—	—	—	—	—	—	—	—	—
5000	—	—	—	—	—	—	—	—	—	—

Std/Med Static 1100-2000 rpm

50GEQT12 — High Static — 10 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
3000	1099	4.9	1202	5.4	1302	5.9	1397	6.3	1486	6.7
3250	1173	5.3	1270	5.7	1363	6.1	1453	6.6	1539	6.9
3500	1249	5.6	1339	6.0	1427	6.4	1512	6.8	1594	7.2
3750	1325	6.0	1410	6.4	1493	6.7	1573	7.1	1652	7.5
4000	1403	6.3	1482	6.7	1560	7.0	1637	7.4	1711	7.7
4250	1480	6.7	1556	7.0	1630	7.4	1702	7.7	1773	8.0
4500	1559	7.0	1630	7.4	1700	7.7	1769	8.0	1837	8.3
4750	1638	7.4	1705	7.7	1772	8.0	1838	8.3	1903	8.6
5000	1717	7.8	1781	8.1	1845	8.4	1908	8.7	1970	8.9

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
3000	1570	7.1	1649	7.5	1723	7.8	1794	8.1	1860	8.4
3250	1620	7.3	1698	7.7	1771	8.0	1841	8.3	1907	8.6
3500	1673	7.6	1748	7.9	1820	8.2	1889	8.6	1954	8.9
3750	1727	7.8	1800	8.2	1871	8.5	1938	8.8	2003	9.1
4000	1784	8.1	1855	8.4	1923	8.7	1989	9.0	2052	9.3
4250	1843	8.4	1911	8.7	1977	9.0	2041	9.3	2103	9.6
4500	1904	8.6	1969	8.9	2033	9.2	2095	9.5	2156	9.8
4750	1966	8.9	2029	9.2	2091	9.5	2151	9.8	—	—
5000	2031	9.2	2091	9.5	2150	9.8	—	—	—	—

High Static 1100-2200 rpm

50GEQT07 — 6.5 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1800	742	0.16	897	0.27	1033	0.42	1150	0.58	1255	0.75
1950	780	0.18	927	0.30	1059	0.45	1175	0.61	1279	0.79
2100	820	0.21	959	0.33	1086	0.48	1200	0.65	1303	0.83
2250	861	0.24	993	0.37	1115	0.52	1227	0.69	1329	0.88
2400	904	0.27	1028	0.40	1146	0.56	1255	0.73	1355	0.92
2550	947	0.31	1065	0.45	1178	0.60	1284	0.78	1382	0.97
2700	991	0.36	1103	0.49	1212	0.65	1314	0.83	1410	1.03
2850	1036	0.40	1143	0.54	1246	0.70	1345	0.88	1439	1.08
3000	1082	0.46	1183	0.60	1282	0.76	1378	0.94	1469	1.14

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1800	1349	0.93	1436	1.13	1518	1.33	1594	1.54	1666	1.76
1950	1373	0.98	1460	1.18	1541	1.38	1617	1.60	1689	1.82
2100	1397	1.02	1484	1.23	1565	1.44	1641	1.66	1712	1.89
2250	1422	1.07	1508	1.28	1589	1.50	1664	1.72	1736	1.95
2400	1447	1.12	1533	1.34	1613	1.56	1689	1.79	1760	2.02
2550	1473	1.18	1558	1.39	1638	1.62	1713	1.85	1784	2.09
2700	1499	1.23	1583	1.45	1663	1.68	1738	1.92	1809	2.17
2850	1527	1.29	1610	1.52	1688	1.75	1763	1.99	1834	2.24
3000	1555	1.36	1637	1.58	1715	1.82	1789	2.07	1859	2.32

Std/Med Static 742-2000 rpm, 2.4 Max bhp

High Static 742-2200 rpm, 3.0 Max bhp

50GEQT07 — Standard/Medium Static — 6.5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1800	742	3.5	897	4.3	1033	5.0	1150	5.6	1255	6.2
1950	780	3.7	927	4.5	1059	5.2	1175	5.8	1279	6.3
2100	820	3.9	959	4.6	1086	5.3	1200	5.9	1303	6.4
2250	861	4.1	993	4.8	1115	5.4	1227	6.0	1329	6.5
2400	904	4.4	1028	5.0	1146	5.6	1255	6.2	1355	6.7
2550	947	4.6	1065	5.2	1178	5.8	1284	6.3	1382	6.8
2700	991	4.8	1103	5.4	1212	5.9	1314	6.5	1410	7.0
2850	1036	5.0	1143	5.6	1246	6.1	1345	6.6	1439	7.1
3000	1082	5.3	1183	5.8	1282	6.3	1378	6.8	1469	7.3

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1800	1349	6.7	1436	7.1	1518	7.5	1594	7.9	1666	8.3
1950	1373	6.8	1460	7.2	1541	7.6	1617	8.0	1689	8.4
2100	1397	6.9	1484	7.3	1565	7.8	1641	8.2	1712	8.5
2250	1422	7.0	1508	7.5	1589	7.9	1664	8.3	1736	8.6
2400	1447	7.2	1533	7.6	1613	8.0	1689	8.4	1760	8.8
2550	1473	7.3	1558	7.7	1638	8.1	1713	8.5	1784	8.9
2700	1499	7.4	1583	7.9	1663	8.3	1738	8.7	1809	9.0
2850	1527	7.6	1610	8.0	1688	8.4	1763	8.8	1834	9.1
3000	1555	7.7	1637	8.1	1715	8.5	1789	8.9	1859	9.3

Std/Med Static 742-2000 rpm

50GEQT07 — High Static — 6.5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1800	742	3.3	897	4.0	1033	4.6	1150	5.2	1255	5.6
1950	780	3.4	927	4.1	1059	4.7	1175	5.3	1279	5.7
2100	820	3.6	959	4.3	1086	4.9	1200	5.4	1303	5.9
2250	861	3.8	993	4.4	1115	5.0	1227	5.5	1329	6.0
2400	904	4.0	1028	4.6	1146	5.1	1255	5.6	1355	6.1
2550	947	4.2	1065	4.8	1178	5.3	1284	5.8	1382	6.2
2700	991	4.4	1103	4.9	1212	5.4	1314	5.9	1410	6.4
2850	1036	4.6	1143	5.1	1246	5.6	1345	6.1	1439	6.5
3000	1082	4.8	1183	5.3	1282	5.8	1378	6.2	1469	6.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1800	1349	6.1	1436	6.5	1518	6.9	1594	7.2	1666	7.5
1950	1373	6.2	1460	6.6	1541	7.0	1617	7.3	1689	7.6
2100	1397	6.3	1484	6.7	1565	7.1	1641	7.4	1712	7.7
2250	1422	6.4	1508	6.8	1589	7.2	1664	7.5	1736	7.9
2400	1447	6.5	1533	6.9	1613	7.3	1689	7.6	1760	8.0
2550	1473	6.6	1558	7.0	1638	7.4	1713	7.8	1784	8.1
2700	1499	6.8	1583	7.2	1663	7.5	1738	7.9	1809	8.2
2850	1527	6.9	1610	7.3	1688	7.6	1763	8.0	1834	8.3
3000	1555	7.0	1637	7.4	1715	7.8	1789	8.1	1859	8.4

High Static 742-2200 rpm

50GEQT08 — 7.5 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2250	882	0.26	1014	0.39	1135	0.55	1246	0.73	1346	0.92
2440	935	0.31	1058	0.44	1174	0.61	1281	0.79	1380	0.98
2625	988	0.36	1104	0.50	1214	0.67	1318	0.85	1414	1.05
2815	1044	0.42	1153	0.57	1257	0.73	1357	0.92	1450	1.13
3000	1100	0.49	1202	0.64	1301	0.81	1397	1.00	1487	1.21
3190	1157	0.56	1254	0.72	1348	0.89	1439	1.08	1527	1.30
3375	1214	0.65	1305	0.80	1395	0.98	1483	1.18	1567	1.39
3565	1273	0.74	1359	0.90	1445	1.08	1529	1.28	1610	1.49
3750	1330	0.83	1413	1.00	1495	1.18	1575	1.38	1653	1.60

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2250	1439	1.12	1524	1.34	1604	1.56	1679	1.79	1750	2.02
2440	1471	1.19	1556	1.41	1635	1.64	1710	1.87	1782	2.12
2625	1504	1.27	1588	1.49	1667	1.72	1741	1.96	1812	2.21
2815	1538	1.34	1621	1.57	1699	1.81	1773	2.06	1844	2.32
3000	1573	1.43	1655	1.66	1732	1.91	1805	2.16	1875	2.42
3190	1611	1.52	1690	1.76	1766	2.00	1839	2.26	1908	2.53
3375	1648	1.62	1726	1.86	1801	2.11	1872	2.37	1941	2.64
3565	1689	1.72	1764	1.96	1837	2.21	1908	2.48	1975	2.75
3750	1729	1.83	1803	2.07	1874	2.33	1943	2.59	2010	2.87

Std/Med Static 882-2000 rpm, 2.4 Max bhp

High Static 882-2200 rpm, 3.0 Max bhp

50GEQT08 — Standard/Medium Static — 7.5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2250	882	4.3	1014	4.9	1135	5.6	1246	6.1	1346	6.6
2440	935	4.5	1058	5.2	1174	5.8	1281	6.3	1380	6.8
2625	988	4.8	1104	5.4	1214	6.0	1318	6.5	1414	7.0
2815	1044	5.1	1153	5.6	1257	6.2	1357	6.7	1450	7.2
3000	1100	5.4	1202	5.9	1301	6.4	1397	6.9	1487	7.4
3190	1157	5.7	1254	6.2	1348	6.6	1439	7.1	1527	7.6
3375	1214	6.0	1305	6.4	1395	6.9	1483	7.3	1567	7.8
3565	1273	6.3	1359	6.7	1445	7.1	1529	7.6	1610	8.0
3750	1330	6.6	1413	7.0	1495	7.4	1575	7.8	1653	8.2

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2250	1439	7.1	1524	7.6	1604	8.0	1679	8.3	1750	8.7
2440	1471	7.3	1556	7.7	1635	8.1	1710	8.5	1782	8.9
2625	1504	7.4	1588	7.9	1667	8.3	1741	8.7	1812	9.0
2815	1538	7.6	1621	8.1	1699	8.5	1773	8.8	1844	9.2
3000	1573	7.8	1655	8.2	1732	8.6	1805	9.0	1875	9.4
3190	1611	8.0	1690	8.4	1766	8.8	1839	9.2	1908	9.5
3375	1648	8.2	1726	8.6	1801	9.0	1872	9.3	—	—
3565	1689	8.4	1764	8.8	1837	9.2	1908	9.5	—	—
3750	1729	8.6	1803	9.0	1874	9.4	—	—	—	—

Std/Med Static 882-2000 rpm

50GEQT08 — High Static — 7.5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2250	882	3.9	1014	4.5	1135	5.1	1246	5.6	1346	6.1
2440	935	4.2	1058	4.7	1174	5.3	1281	5.8	1380	6.2
2625	988	4.4	1104	4.9	1214	5.4	1318	5.9	1414	6.4
2815	1044	4.7	1153	5.2	1257	5.6	1357	6.1	1450	6.5
3000	1100	4.9	1202	5.4	1301	5.9	1397	6.3	1487	6.7
3190	1157	5.2	1254	5.6	1348	6.1	1439	6.5	1527	6.9
3375	1214	5.4	1305	5.9	1395	6.3	1483	6.7	1567	7.1
3565	1273	5.7	1359	6.1	1445	6.5	1529	6.9	1610	7.3
3750	1330	6.0	1413	6.4	1495	6.7	1575	7.1	1653	7.5

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2250	1439	6.5	1524	6.9	1604	7.2	1679	7.6	1750	7.9
2440	1471	6.6	1556	7.0	1635	7.4	1710	7.7	1782	8.1
2625	1504	6.8	1588	7.2	1667	7.5	1741	7.9	1812	8.2
2815	1538	6.9	1621	7.3	1699	7.7	1773	8.0	1844	8.4
3000	1573	7.1	1655	7.5	1732	7.8	1805	8.2	1875	8.5
3190	1611	7.3	1690	7.6	1766	8.0	1839	8.3	1908	8.7
3375	1648	7.5	1726	7.8	1801	8.2	1872	8.5	1941	8.8
3565	1689	7.6	1764	8.0	1837	8.3	1908	8.7	1975	9.0
3750	1729	7.8	1803	8.2	1874	8.5	1943	8.8	2010	9.1

High Static 882-2200 rpm

50GEQT09 — 8.5 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2550	967	0.34	1085	0.48	1198	0.64	1303	0.83	1400	1.02
2765	1030	0.40	1140	0.55	1246	0.72	1346	0.90	1441	1.11
2975	1092	0.48	1195	0.63	1295	0.80	1391	0.99	1482	1.20
3190	1157	0.56	1254	0.72	1348	0.89	1439	1.08	1527	1.30
3400	1222	0.66	1312	0.81	1402	0.99	1489	1.19	1573	1.40
3615	1288	0.76	1374	0.92	1458	1.10	1541	1.30	1621	1.52
3825	1354	0.87	1435	1.04	1515	1.22	1594	1.42	1671	1.64
4040	1422	1.00	1498	1.16	1575	1.35	1650	1.55	1724	1.77
4250	1488	1.12	1561	1.29	1634	1.48	1706	1.69	1776	1.90

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2550	1490	1.23	1575	1.46	1654	1.69	1729	1.93	1800	2.18
2765	1529	1.32	1612	1.55	1691	1.79	1765	2.04	1835	2.29
2975	1568	1.42	1650	1.65	1727	1.89	1801	2.15	1871	2.41
3190	1611	1.52	1690	1.76	1766	2.00	1839	2.26	1908	2.53
3400	1654	1.63	1731	1.87	1806	2.12	1877	2.38	1945	2.65
3615	1699	1.75	1775	1.99	1847	2.24	1917	2.51	1985	2.79
3825	1746	1.87	1819	2.12	1890	2.37	1958	2.64	2024	2.92
4040	1796	2.00	1866	2.25	1935	2.51	2001	2.77	2066	3.05
4250	1846	2.14	1914	2.38	1980	2.64	2045	2.91	2108	3.18

Std/Med Static 967-2000 rpm, 2.4 Max bhp

High Static 967-2200 rpm, 3.0 Max bhp

50GEQT09 — Standard/Medium Static — 8.5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2550	967	4.7	1085	5.3	1198	5.9	1303	6.4	1400	6.9
2765	1030	5.0	1140	5.6	1246	6.1	1346	6.6	1441	7.1
2975	1092	5.3	1195	5.9	1295	6.4	1391	6.9	1482	7.3
3190	1157	5.7	1254	6.2	1348	6.6	1439	7.1	1527	7.6
3400	1222	6.0	1312	6.5	1402	6.9	1489	7.4	1573	7.8
3615	1288	6.3	1374	6.8	1458	7.2	1541	7.6	1621	8.1
3825	1354	6.7	1435	7.1	1515	7.5	1594	7.9	1671	8.3
4040	1422	7.0	1498	7.4	1575	7.8	1650	8.2	1724	8.6
4250	1488	7.4	1561	7.7	1634	8.1	1706	8.5	1776	8.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2550	1490	7.4	1575	7.8	1654	8.2	1729	8.6	1800	9.0
2765	1529	7.6	1612	8.0	1691	8.4	1765	8.8	1835	9.2
2975	1568	7.8	1650	8.2	1727	8.6	1801	9.0	1871	9.3
3190	1611	8.0	1690	8.4	1766	8.8	1839	9.2	1908	9.5
3400	1654	8.2	1731	8.6	1806	9.0	1877	9.4	—	—
3615	1699	8.5	1775	8.8	1847	9.2	1917	9.6	—	—
3825	1746	8.7	1819	9.1	1890	9.4	—	—	—	—
4040	1796	9.0	1866	9.3	1935	9.7	—	—	—	—
4250	1846	9.2	1914	9.6	—	—	—	—	—	—

Std/Med Static 967-2000 rpm

50GEQT09 — High Static — 8.5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2550	967	4.3	1085	4.9	1198	5.4	1303	5.9	1400	6.3
2765	1030	4.6	1140	5.1	1246	5.6	1346	6.1	1441	6.5
2975	1092	4.9	1195	5.4	1295	5.8	1391	6.3	1482	6.7
3190	1157	5.2	1254	5.6	1348	6.1	1439	6.5	1527	6.9
3400	1222	5.5	1312	5.9	1402	6.3	1489	6.7	1573	7.1
3615	1288	5.8	1374	6.2	1458	6.6	1541	7.0	1621	7.3
3825	1354	6.1	1435	6.5	1515	6.8	1594	7.2	1671	7.6
4040	1422	6.4	1498	6.8	1575	7.1	1650	7.5	1724	7.8
4250	1488	6.7	1561	7.1	1634	7.4	1706	7.7	1776	8.0

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
2550	1490	6.7	1575	7.1	1654	7.5	1729	7.8	1800	8.2
2765	1529	6.9	1612	7.3	1691	7.7	1765	8.0	1835	8.3
2975	1568	7.1	1650	7.5	1727	7.8	1801	8.2	1871	8.5
3190	1611	7.3	1690	7.6	1766	8.0	1839	8.3	1908	8.7
3400	1654	7.5	1731	7.8	1806	8.2	1877	8.5	1945	8.8
3615	1699	7.7	1775	8.0	1847	8.4	1917	8.7	1985	9.0
3825	1746	7.9	1819	8.2	1890	8.6	1958	8.9	2024	9.2
4040	1796	8.1	1866	8.5	1935	8.8	2001	9.1	2066	9.4
4250	1846	8.4	1914	8.7	1980	9.0	2045	9.3	2108	9.6

High Static 967-2200 rpm

50GEQT12 — 10 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3000	1098	0.55	1200	0.72	1299	0.91	1394	1.12	1485	1.36
3250	1173	0.66	1268	0.83	1360	1.03	1450	1.25	1536	1.48
3500	1248	0.79	1337	0.97	1424	1.17	1509	1.39	1591	1.63
3750	1325	0.93	1409	1.11	1490	1.32	1571	1.54	1648	1.78
4000	1402	1.08	1481	1.27	1558	1.48	1634	1.70	1708	1.94
4250	1480	1.24	1555	1.43	1628	1.65	1699	1.87	1770	2.12
4500	1558	1.41	1629	1.61	1699	1.82	1767	2.05	1834	2.29
4750	1637	1.58	1705	1.79	1771	2.00	1836	2.23	1900	2.47
5000	1716	1.76	1781	1.97	1844	2.19	1906	2.41	1967	2.65

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3000	1570	1.60	1651	1.86	1728	2.14	1800	2.42	1869	2.70
3250	1619	1.74	1698	2.00	1773	2.28	1844	2.57	1913	2.87
3500	1670	1.88	1747	2.15	1820	2.44	1890	2.73	1958	3.03
3750	1724	2.04	1798	2.31	1869	2.60	1937	2.89	2004	3.20
4000	1780	2.20	1851	2.48	1920	2.76	1987	3.06	2051	3.37
4250	1839	2.37	1907	2.65	1973	2.93	2038	3.23	2101	3.54
4500	1900	2.55	1965	2.82	2029	3.10	2092	3.40	2153	3.71
4750	1963	2.73	2025	2.99	2087	3.28	2147	3.57	—	—
5000	2028	2.91	2087	3.17	2146	3.44	—	—	—	—

Std/Med Static 1100-2000 rpm, 2.4 Max bhp

High Static 1100-2200 rpm, 5.0 Max bhp

50GEQT12 — Standard/Medium Static — 10 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
3000	1098	5.4	1200	5.9	1299	6.4	1394	6.9	1485	7.4
3250	1173	5.7	1268	6.2	1360	6.7	1450	7.2	1536	7.6
3500	1248	6.1	1337	6.6	1424	7.0	1509	7.5	1591	7.9
3750	1325	6.5	1409	7.0	1490	7.4	1571	7.8	1648	8.2
4000	1402	6.9	1481	7.3	1558	7.7	1634	8.1	1708	8.5
4250	1480	7.3	1555	7.7	1628	8.1	1699	8.5	1770	8.8
4500	1558	7.7	1629	8.1	1699	8.5	1767	8.8	1834	9.1
4750	1637	8.1	1705	8.5	1771	8.8	1836	9.2	1900	9.5
5000	1716	8.5	1781	8.9	1844	9.2	1906	9.5	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
3000	1570	7.8	1651	8.2	1728	8.6	1800	9.0	—	—
3250	1619	8.0	1698	8.4	1773	8.8	—	—	—	—
3500	1670	8.3	1747	8.7	1820	9.1	—	—	—	—
3750	1724	8.6	1798	9.0	—	—	—	—	—	—
4000	1780	8.9	1851	9.2	—	—	—	—	—	—
4250	1839	9.2	—	—	—	—	—	—	—	—
4500	1900	9.5	—	—	—	—	—	—	—	—
4750	—	—	—	—	—	—	—	—	—	—
5000	—	—	—	—	—	—	—	—	—	—

Std/Med Static 1100-2000 rpm

50GEQT12 — High Static — 10 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
3000	1098	4.9	1200	5.4	1299	5.8	1394	6.3	1485	6.7
3250	1173	5.3	1268	5.7	1360	6.1	1450	6.5	1536	6.9
3500	1248	5.6	1337	6.0	1424	6.4	1509	6.8	1591	7.2
3750	1325	6.0	1409	6.3	1490	6.7	1571	7.1	1648	7.5
4000	1402	6.3	1481	6.7	1558	7.0	1634	7.4	1708	7.7
4250	1480	6.7	1555	7.0	1628	7.4	1699	7.7	1770	8.0
4500	1558	7.0	1629	7.4	1699	7.7	1767	8.0	1834	8.3
4750	1637	7.4	1705	7.7	1771	8.0	1836	8.3	1900	8.6
5000	1716	7.8	1781	8.1	1844	8.4	1906	8.6	1967	8.9

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
3000	1570	7.1	1651	7.5	1728	7.8	1800	8.2	1869	8.5
3250	1619	7.3	1698	7.7	1773	8.0	1844	8.4	1913	8.7
3500	1670	7.6	1747	7.9	1820	8.2	1890	8.6	1958	8.9
3750	1724	7.8	1798	8.1	1869	8.5	1937	8.8	2004	9.1
4000	1780	8.1	1851	8.4	1920	8.7	1987	9.0	2051	9.3
4250	1839	8.3	1907	8.6	1973	9.0	2038	9.3	2101	9.5
4500	1900	8.6	1965	8.9	2029	9.2	2092	9.5	2153	9.8
4750	1963	8.9	2025	9.2	2087	9.5	2147	9.8	—	—
5000	2028	9.2	2087	9.5	2146	9.8	—	—	—	—

High Static 1100-2200 rpm

Legend and Notes

Applicable for Electrical Data Tables on pages 62-78

LEGEND

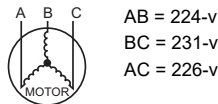
BRKR	—	Circuit Breaker
C.O.	—	Convenience Outlet
FLA	—	Full Load Amps
IFM	—	Indoor Fan Motor
LRA	—	Locked Rotor Amps
MCA	—	Minimum Circuit Amps
P.E.	—	Power Exhaust
PWRD C.O.	—	Powered Convenience Outlet
RLA	—	Rated Load Amps
SCCR	—	Short Circuit Current Rating
UNPWR C.O.	—	Unpowered Convenience Outlet

NOTES:

- 1. In compliance with NEC requirements for multi-motor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. Canadian units may be fuse or circuit breaker.
- 2. For 208/230 v units, where one value is show it is the same for either 208 or 230 volts.
- 3. **Unbalanced 3-Phase Supply Voltage:** Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

% Voltage Imbalance = 100 x $\frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$

Example: Supply voltage is 230-3-60



Average Voltage = $\frac{(224 + 231 + 226)}{3} = \frac{681}{3} = 227$

Determine maximum deviation from average voltage.

(AB) 227-224 = 3-v

(BC) 231-227 = 4-v

(AC) 227-226 = 1-v

Maximum deviation is 4-v.

Determine percent of voltage imbalance.

% Voltage Imbalance = $100 \times \frac{4}{227} = 1.76\%$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

50GEQT07-12 Cooling Electrical Data

50GEQ UNIT SIZE	V-Ph-Hz	UNIT VOLTAGE RANGE		COMP 1		COMP 2		OFM (ea)		STD SCCR kA	HIGH SCCR kA	IFM			POWER EXHAUST	
		MIN	MAX	RLA	LRA	RLA	LRA	Watts	FLA			Type	EFF at Full Load	FLA	Kit Qty	FLA (ea kit)
T07	208-3-60	187	253	12.8	103	8.3	68	325	1.5	5	10	MED	90%	6.4	1	3.8
												HIGH	90%	7.5	1	3.8
	230-3-60	187	253	12.8	103	8.3	68	325	1.5	5	10	MED	90%	6.4	1	3.8
												HIGH	90%	7.5	1	3.8
	460-3-60	414	506	5.8	50	5.1	38	325	0.8	5	10	MED	90%	3.0	1	3.8
												HIGH	90%	3.5	1	3.8
	575-3-60	518	633	5.1	41	3.5	24	325	0.6	5	—	MED	90%	2.5	1	3.8
												HIGH	90%	3.0	1	3.8
T08	208-3-60	187	253	16.0	156	12.8	38	325	1.5	5	10	MED	90%	6.4	1	3.8
												HIGH	90%	7.5	1	3.8
	230-3-60	187	253	16.0	156	12.8	38	325	1.5	5	10	MED	90%	6.4	1	3.8
												HIGH	90%	7.5	1	3.8
	460-3-60	414	506	7.7	69	5.1	44	325	0.8	5	10	MED	90%	3.0	1	3.8
												HIGH	90%	3.5	1	3.8
	575-3-60	518	633	6.4	48	4.5	27	325	0.6	5	—	MED	90%	2.5	1	3.8
												HIGH	90%	3.0	1	3.8
T09	208-3-60	187	253	18.6	155	12.8	103	1070	7.4	5	—	MED	90%	6.4	1	3.8
												HIGH	90%	7.5	1	3.8
	230-3-60	187	253	18.6	155	12.8	103	1070	7.4	5	—	MED	90%	6.4	1	3.8
												HIGH	90%	7.5	1	3.8
	460-3-60	414	506	8.3	58	5.8	50	1070	7.4	5	—	MED	90%	3.0	1	3.8
												HIGH	90%	3.5	1	3.8
	575-3-60	518	633	7.7	48	5.1	41	1070	7.4	5	—	MED	90%	2.5	1	3.8
												HIGH	90%	3.0	1	3.8
T12	208-3-60	187	253	21.1	157	13.4	120	280	1.5	5	10	MED	90%	6.4	1	3.8
												HIGH	90%	12.6	1	3.8
	230-3-60	187	253	21.1	157	13.4	120	280	1.5	5	10	MED	90%	6.4	1	3.8
												HIGH	90%	12.6	1	3.8
	460-3-60	414	506	9.1	75	6.4	50	280	0.8	5	10	MED	90%	3.0	1	3.8
												HIGH	90%	5.6	1	3.8
	575-3-60	518	633	7.7	48	5.1	41	280	0.6	5	—	MED	90%	2.5	1	3.8
												HIGH	90%	4.6	1	3.8

50GEQT07 Unit Wire/Fuse Sizing Electrical Data

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	STD SCCR kA	HIGH SCCR kA ^a	ELECTRIC HEATER			NO C.O. OR UNPWR C.O.							
					CRHEATER ****00	NOM. (kW)	FLA	NO P.E.				WITH P.E. (pwrdr fr/unit)			
								MCA	FUSE or HACR BRKR	DISCONNECT SIZE		MCA	FUSE or HACR BRKR	DISCONNECT SIZE	
										FLA	LRA			FLA	LRA
T07	208/ 230-3-60	MED	5	10	—	—	—	36	45	38	186	40	50	42	190
			5	10	410A	4.9/6.5	13.6/15.6	53/56	60/60	53/56	200/202	57/60	60/60	58/60	204/206
			5	10	411A	7.8/10.4	21.7/25.0	63/68	70/70	63/66	208/211	67/71	70/80	67/71	212/215
			5	10	412A	12.0/16.0	33.4/38.5	78/84	80/90	76/82	219/225	82/88	90/90	80/86	223/229
			5	10	413A	15.8/21.0	43.8/50.5	91/99	100/100	88/96	230/237	95/103	100/110	92/100	234/241
			5	10	414A	18.8/25.0	52.1/60.1	101/111	110/125	98/107	238/246	105/115	110/125	102/111	242/250
		HIGH	5	10	—	—	—	37	45	39	188	41	50	43	192
			5	10	410A	4.9/6.5	13.6/15.6	54/57	60/60	55/57	202/204	58/61	60/70	59/61	206/208
			5	10	411A	7.8/10.4	21.7/25.0	65/69	70/70	64/68	210/213	68/73	70/80	68/72	214/217
			5	10	412A	12.0/16.0	33.4/38.5	79/86	80/90	77/83	221/227	83/89	90/90	82/88	225/231
			5	10	413A	15.8/21.0	43.8/50.5	92/101	100/110	89/97	232/239	96/104	100/110	94/101	236/243
			5	10	414A	18.8/25.0	52.1/60.1	103/113	110/125	99/108	240/248	106/116	110/125	103/112	244/252
	460-3-60	MED	5	10	—	—	—	19	20	19	94	20	25	21	96
			5	10	418A	6.0	7.2	28	30	27	101	29	30	30	103
			5	10	419A	11.5	13.8	36	40	35	108	38	40	37	110
			5	10	420A	15.0	18.0	41	45	40	112	43	45	42	114
			5	10	421A	25.0	30.1	56	60	54	124	58	60	56	126
		HIGH	5	10	—	—	—	19	25	20	97	21	25	22	99
			5	10	418A	6.0	7.2	28	30	28	104	30	30	30	106
			5	10	419A	11.5	13.8	36	40	36	111	38	40	38	113
			5	10	420A	15.0	18.0	42	45	40	115	43	45	43	117
			5	10	421A	25.0	30.1	57	60	54	127	59	60	56	129
	575-3-60	MED	5	—	—	—	—	18	20	19	75	22	25	23	79
			5	—	425A	18.0	17.3	40	40	39	92	43	45	43	96
			5	—	426A	24.8	23.9	48	50	46	99	52	60	51	103
		HIGH	5	—	—	—	—	19	20	19	76	22	25	24	80
			5	—	425A	18.0	17.3	40	40	39	93	44	45	44	97
			5	—	426A	24.8	23.9	48	50	47	100	52	60	51	104

NOTE(S):

- a. High SCCR (Short Circuit Current Rating) is not available on 575-v units, or units with factory-installed powered convenience outlet or non-fused disconnect.

50GEQT07 Unit Wire/Fuse Sizing Electrical Data (cont)

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	STD SCCR kA	ELECTRIC HEATER			WITH PWRD C.O.							
				CRHEATER ****00	Nom. (kW)	FLA	NO P.E.				WITH P.E. (pwrd fr/unit)			
							MCA	FUSE or HACR BRKR	DISCONNECT SIZE		MCA	FUSE or HACR BRKR	DISCONNECT SIZE	
									FLA	LRA			FLA	LRA
T07	208/ 230-3-60	MED	5	—	—	—	41	50	43	191	45	50	47	195
			5	410A	4.9/6.5	13.6/15.6	58/61	60/70	59/61	205/207	62/64	70/70	63/65	209/211
			5	411A	7.8/10.4	21.7/25.0	68/72	70/80	68/72	213/216	72/76	80/80	72/76	217/220
			5	412A	12.0/16.0	33.4/38.5	83/89	90/90	82/87	224/230	87/93	90/100	86/92	228/234
			5	413A	15.8/21.0	43.8/50.5	96/104	100/110	93/101	235/242	100/108	100/110	98/106	239/246
			5	414A	18.8/25.0	52.1/60.1	106/116	110/125	103/112	243/251	110/120	110/125	107/117	247/255
		HIGH	5	—	—	—	42	50	44	193	46	50	49	197
			5	410A	4.9/6.5	13.6/15.6	59/62	60/70	60/62	207/209	63/66	70/70	64/67	211/213
			5	411A	7.8/10.4	21.7/25.0	69/74	70/80	69/73	215/218	73/77	80/80	74/78	219/222
			5	412A	12.0/16.0	33.4/38.5	84/90	90/90	83/89	226/232	88/94	90/100	87/93	230/236
			5	413A	15.8/21.0	43.8/50.5	97/105	100/110	95/102	237/244	101/109	110/110	99/107	241/248
			5	414A	18.8/25.0	52.1/60.1	107/117	110/125	104/114	245/253	111/121	125/125	109/118	249/257
	460-3-60	MED	5	—	—	—	21	25	22	96	23	25	24	98
			5	418A	6.0	7.2	30	30	30	103	32	35	32	105
			5	419A	11.5	13.8	38	40	38	110	40	40	40	112
			5	420A	15.0	18.0	43	45	42	114	45	45	45	116
			5	421A	25.0	30.1	58	60	56	126	60	60	58	128
		HIGH	5	—	—	—	21	25	22	99	23	25	24	101
			5	418A	6.0	7.2	30	30	31	106	32	35	33	108
			5	419A	11.5	13.8	39	40	38	113	40	40	40	115
			5	420A	15.0	18.0	44	45	43	117	46	50	45	119
			5	421A	25.0	30.1	59	60	57	129	61	70	59	131
	575-3-60	MED	5	—	—	—	20	25	21	77	24	25	25	81
			5	425A	18.0	17.3	41	45	41	94	45	45	45	98
			5	426A	24.8	23.9	50	50	48	101	53	60	53	105
		HIGH	5	—	—	—	20	25	21	78	24	25	26	82
			5	425A	18.0	17.3	42	45	41	95	46	50	46	99
			5	426A	24.8	23.9	50	50	49	102	54	60	53	106

50GEQT08 Unit Wire/Fuse Sizing Electrical Data

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	STD SCCR kA	HIGH SCCR kA ^a	ELECTRIC HEATER			NO C.O. OR UNPWR C.O.							
					CRHEATER ****00	NOM. (kW)	FLA	NO P.E.				WITH P.E. (pwr fr/unit)			
								MCA	FUSE or HACR BRKR	DISCONNECT SIZE		MCA	FUSE or HACR BRKR	DISCONNECT SIZE	
										FLA	LRA			FLA	LRA
T08	208/ 230-3-60	MED	5	10	—	—	—	45	60	46	269	49	60	51	273
			5	10	411A	7.8/10.4	21.7/25.0	72/76	80/80	71/75	291/294	76/80	80/80	76/80	295/298
			5	10	412A	12.0/16.0	33.4/38.5	87/93	90/100	85/91	302/308	90/97	90/100	89/95	306/312
			5	10	414A	18.8/25.0	52.1/60.1	110/120	110/125	106/116	321/329	114/124	125/125	111/120	325/333
			5	10	415A	24.0/32.0	66.7/77.0	128/141	150/150	123/135	336/346	132/145	150/150	128/139	340/350
			5	10	416A	31.8/42.4	88.4/102.0	155/172	175/175	148/164	357/371	159/176	175/200	152/168	361/375
		HIGH	5	10	—	—	—	46	60	48	271	50	60	52	275
			5	10	411A	7.8/10.4	21.7/25.0	73/77	80/80	73/76	293/296	77/81	80/90	77/81	297/300
			5	10	412A	12.0/16.0	33.4/38.5	88/94	90/100	86/92	304/310	92/98	100/100	91/96	308/314
			5	10	414A	18.8/25.0	52.1/60.1	111/121	125/125	108/117	323/331	115/125	125/125	112/121	327/335
			5	10	415A	24.0/32.0	66.7/77.0	129/142	150/150	124/136	338/348	133/146	150/150	129/141	342/352
			5	10	416A	31.8/42.4	88.4/102.0	156/173	175/175	149/165	359/373	160/177	175/200	154/169	363/377
	460-3-60	MED	5	10	—	—	—	21	25	21	119	23	30	23	121
			5	10	419A	11.5	13.8	38	40	37	133	40	40	39	135
			5	10	420A	15.0	18.0	43	45	42	137	45	45	44	139
			5	10	421A	25.0	30.1	59	60	56	149	60	60	58	151
			5	10	422A	33.0	39.7	71	80	67	159	72	80	69	161
		HIGH	5	10	—	—	—	84	90	79	169	86	90	81	171
			5	10	419A	11.5	13.8	21	25	22	122	23	30	24	124
			5	10	420A	15.0	18.0	39	40	38	136	41	45	40	138
			5	10	421A	25.0	30.1	44	45	43	140	46	50	45	142
			5	10	422A	33.0	39.7	59	60	57	152	61	70	59	154
	575-3-60	MED	5	—	—	—	—	71	80	68	162	73	80	70	164
			5	—	425A	18.0	17.3	84	90	80	172	86	90	82	174
			5	—	427A	36.0	34.6	21	25	21	85	24	30	26	89
		HIGH	5	—	—	—	—	42	45	41	102	46	50	46	106
			5	—	425A	18.0	17.3	64	70	61	120	68	70	66	124
			5	—	427A	36.0	34.6	21	25	22	86	25	30	26	90

NOTE(S):

- a. High SCCR (Short Circuit Current Rating) is not available on 575-v units, or units with factory-installed powered convenience outlet or non-fused disconnect.

50GEQT08 Unit Wire/Fuse Sizing Electrical Data (cont)

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	STD SCCR kA	ELECTRIC HEATER			WITH PWRD C.O.							
				CRHEATER ****00	Nom. (kW)	FLA	NO P.E.				WITH P.E. (pwrd fr/unit)			
							MCA	FUSE or HACR BRKR	DISCONNECT SIZE		MCA	FUSE or HACR BRKR	DISCONNECT SIZE	
									FLA	LRA			FLA	LRA
T08	208/ 230-3-60	MED	5	—	—	—	50	60	52	274	53	60	56	278
			5	411A	7.8/10.4	21.7/25.0	77/81	80/90	77/81	296/299	81/85	90/90	81/85	300/303
			5	412A	12.0/16.0	33.4/38.5	91/98	100/100	90/96	307/313	95/102	100/110	95/101	311/317
			5	414A	18.8/25.0	52.1/60.1	115/125	125/125	112/121	326/334	119/129	125/150	116/125	330/338
			5	415A	24.0/32.0	66.7/77.0	133/146	150/150	129/141	341/351	137/150	150/150	133/145	345/355
			5	416A	31.8/42.4	88.4/102.0	160/177	175/200	154/169	362/376	164/181	175/200	158/174	366/380
		HIGH	5	—	—	—	51	60	53	276	55	60	58	280
			5	411A	7.8/10.4	21.7/25.0	78/82	80/90	78/82	298/301	82/86	90/90	83/86	302/305
			5	412A	12.0/16.0	33.4/38.5	93/99	100/100	92/98	309/315	96/103	100/110	96/102	313/319
			5	414A	18.8/25.0	52.1/60.1	116/126	125/150	113/122	328/336	120/130	125/150	118/127	332/340
			5	415A	24.0/32.0	66.7/77.0	134/147	150/150	130/142	343/353	138/151	150/175	134/146	347/357
			5	416A	31.8/42.4	88.4/102.0	161/178	175/200	155/171	364/378	165/182	175/200	159/175	368/382
	460-3-60	MED	5	—	—	—	23	30	24	121	25	30	26	123
			5	419A	11.5	13.8	40	40	40	135	42	45	42	137
			5	420A	15.0	18.0	46	50	45	139	47	50	47	141
			5	421A	25.0	30.1	61	70	59	151	63	70	61	153
			5	422A	33.0	39.7	73	80	70	161	75	80	72	163
		HIGH	5	—	—	—	86	90	82	171	88	90	84	173
			5	419A	11.5	13.8	24	30	24	124	25	30	27	126
			5	420A	15.0	18.0	41	45	40	138	43	45	42	140
			5	421A	25.0	30.1	46	50	45	142	48	50	47	144
			5	422A	33.0	39.7	61	70	59	154	63	70	61	156
	575-3-60	MED	5	—	—	—	73	80	70	164	75	80	72	166
			5	425A	18.0	17.3	86	90	82	174	88	90	84	176
			5	427A	36.0	34.6	22	25	23	87	26	30	28	91
		HIGH	5	—	—	—	44	45	43	104	48	50	48	108
			5	425A	18.0	17.3	66	70	63	122	69	70	68	126
			5	427A	36.0	34.6	23	25	24	88	27	30	28	92

50GEQT09 Unit Wire/Fuse Sizing Electrical Data^a

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	STD SCCR kA	ELECTRIC HEATER			NO C.O. OR UNPWR C.O.							
				CRHEATER ****00	Nom. (kW)	FLA	NO P.E.				WITH P.E. (pwrdr fr/unit)			
							MCA	FUSE or HACR BRKR	DISCONNECT SIZE		MCA	FUSE or HACR BRKR	DISCONNECT SIZE	
									FLA	LRA			FLA	LRA
T09	208/ 230-3-60	MED	5	—	—	—	50	60	52	274	54	60	56	278
			5	411A	7.8/10.4	21.7/25.0	77/82	80/90	77/81	296/299	81/85	90/90	81/85	300/303
			5	412A	12.0/16.0	33.4/38.5	92/98	100/100	90/96	307/313	96/102	100/110	95/101	311/317
			5	414A	18.8/25.0	52.1/60.1	115/125	125/125	112/121	326/334	119/129	125/150	116/125	330/338
			5	415A	24.0/32.0	66.7/77.0	134/147	150/150	129/141	341/351	137/150	150/150	133/145	345/355
			5	416A	31.8/42.4	88.4/102.0	161/178	175/200	154/169	362/376	165/182	175/200	158/174	366/380
		HIGH	5	—	—	—	51	60	53	276	55	60	58	280
			5	411A	7.8/10.4	21.7/25.0	79/83	80/90	78/82	298/301	82/86	90/90	83/86	302/305
			5	412A	12.0/16.0	33.4/38.5	93/100	100/100	92/98	309/315	97/103	100/110	96/102	313/319
			5	414A	18.8/25.0	52.1/60.1	117/127	125/150	113/122	328/336	120/130	125/150	118/127	332/340
			5	415A	24.0/32.0	66.7/77.0	135/148	150/150	130/142	343/353	139/151	150/175	134/146	347/357
			5	416A	31.8/42.4	88.4/102.0	162/179	175/200	155/171	364/378	166/183	175/200	159/175	368/382
	460-3-60	MED	5	—	—	—	27	30	28	119	29	35	30	121
			5	419A	11.5	13.8	44	45	44	133	46	50	46	135
			5	420A	15.0	18.0	50	50	49	137	51	60	51	139
			5	421A	25.0	30.1	65	70	63	149	66	70	65	151
			5	422A	33.0	39.7	77	80	74	159	78	80	76	161
		HIGH	5	—	—	—	28	30	29	122	29	35	31	124
			5	419A	11.5	13.8	45	45	45	136	47	50	47	138
			5	420A	15.0	18.0	50	50	49	140	52	60	52	142
			5	421A	25.0	30.1	65	70	63	152	67	70	65	154
			5	422A	33.0	39.7	77	80	74	162	79	80	76	164
	575-3-60	MED	5	—	—	—	25	30	26	100	29	35	30	104
			5	425A	18.0	17.3	47	50	46	117	51	60	50	121
			5	427A	36.0	34.6	68	70	66	135	72	80	70	139
		HIGH	5	—	—	—	26	30	27	101	29	35	31	105
			5	425A	18.0	17.3	47	50	47	118	51	60	51	122
			5	427A	36.0	34.6	69	70	66	136	73	80	71	140

NOTE(S):

a. High SCCR (Short Circuit Current Rating) is not available on 50GEQT09 units due to control box constraints.

50GEQT09 Unit Wire/Fuse Sizing Electrical Data^a (cont)

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	STD SCCR kA	ELECTRIC HEATER			WITH PWRD C.O.							
				CRHEATER ****00	Nom. (kW)	FLA	NO P.E.				WITH P.E. (pwrdr fr/unit)			
							MCA	FUSE or HACR BRKR	DISCONNECT SIZE		MCA	FUSE or HACR BRKR	DISCONNECT SIZE	
									FLA	LRA			FLA	LRA
T09	208/ 230-3-60	MED	5	—	—	—	55	60	58	279	59	70	62	283
			5	411A	7.8/10.4	21.7/25.0	82/86	90/90	82/86	301/304	86/90	90/100	87/91	305/308
			5	412A	12.0/16.0	33.4/38.5	97/103	100/110	96/102	312/318	101/107	110/110	100/106	316/322
			5	414A	18.8/25.0	52.1/60.1	120/130	125/150	117/127	331/339	124/134	125/150	122/131	335/343
			5	415A	24.0/32.0	66.7/77.0	138/151	150/175	134/146	346/356	142/155	150/175	139/150	350/360
			5	416A	31.8/42.4	88.4/102.0	166/183	175/200	159/175	367/381	169/186	175/200	164/179	371/385
		HIGH	5	—	—	—	—	56	70	59	281	60	70	63
			5	411A	411A	7.8/10.4	21.7/25.0	83/87	90/90	84/88	303/306	87/91	90/100	88/92
			5	412A	412A	12.0/16.0	33.4/38.5	98/104	100/110	97/103	314/320	102/108	110/110	102/107
			5	414A	414A	18.8/25.0	52.1/60.1	121/131	125/150	119/128	333/341	125/135	125/150	123/132
			5	415A	415A	24.0/32.0	66.7/77.0	140/152	150/175	135/147	348/358	143/156	150/175	140/152
			5	416A	416A	31.8/42.4	88.4/102.0	167/184	175/200	160/176	369/383	171/188	175/200	165/180
	460-3-60	MED	5	—	—	—	29	35	31	121	31	35	33	123
			5	419A	11.5	13.8	46	50	47	135	48	50	49	137
			5	420A	15.0	18.0	52	60	51	139	54	60	53	141
			5	421A	25.0	30.1	67	70	65	151	69	70	67	153
			5	422A	33.0	39.7	79	80	76	161	81	90	78	163
		HIGH	5	—	—	—	30	35	31	124	32	35	33	126
			5	419A	11.5	13.8	47	50	47	138	49	50	49	140
			5	420A	15.0	18.0	52	60	52	142	54	60	54	144
	575-3-60	MED	5	421A	25.0	30.1	67	70	66	154	69	70	68	156
			5	422A	33.0	39.7	79	80	77	164	81	90	79	166
			5	—	—	—	27	30	28	102	31	35	32	106
			5	425A	18.0	17.3	48	50	48	119	52	60	52	123
			5	427A	36.0	34.6	70	70	68	137	74	80	72	141
		HIGH	5	—	—	—	27	30	29	103	31	35	33	107
			5	425A	18.0	17.3	49	50	49	120	53	60	53	124
			5	427A	36.0	34.6	71	80	68	138	74	80	73	142

NOTE(S):

a. High SCCR (Short Circuit Current Rating) is not available on 50GEQT09 units due to control box constraints.

50GEQT12 Unit Wire/Fuse Sizing Electrical Data

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	STD SCCR kA	HIGH SCCR kA ^a	ELECTRIC HEATER			NO C.O. OR UNPWR C.O.							
					CRHEATER ****00	Nom. (kW)	FLA	NO P.E.				WITH P.E. (pwr fr/unit)			
								MCA	FUSE or HACR BRKR	DISCONNECT SIZE		MCA	FUSE or HACR BRKR	DISCONNECT SIZE	
										FLA	LRA			FLA	LRA
T12	208/ 230-3-60	MED	5	10	—	—	—	54	60	56	295	58	70	60	299
			5	10	411A	7.8/10.4	21.7/25.0	82/86	90/100	81/85	317/320	85/89	100/100	85/89	321/324
			5	10	412A	12.0/16.0	33.4/38.5	96/103	100/110	94/100	328/334	100/106	100/110	99/105	332/338
			5	10	415A	24.0/32.0	66.7/77.0	138/151	150/175	133/145	362/372	142/154	150/175	137/149	366/376
			5	10	416A	31.8/42.4	88.4/102.0	165/182	175/200	158/173	383/397	169/186	175/200	162/178	387/401
			5	10	417A	37.6/50.0	104.2/120.3	185/175	200/200	176/194	399/415	188/179	200/200	180/199	403/419
		HIGH	5	10	—	—	—	61	80	63	304	64	80	68	308
			5	10	411A	7.8/10.4	21.7/25.0	88/92	100/100	88/92	326/329	92/96	100/100	92/96	330/333
			5	10	412A	12.0/16.0	33.4/38.5	102/109	110/110	102/107	337/343	106/113	110/125	106/112	341/347
			5	10	415A	24.0/32.0	66.7/77.0	144/157	150/175	140/152	371/381	148/161	150/175	144/156	375/385
			5	10	416A	31.8/42.4	88.4/102.0	171/188	175/200	165/180	392/406	175/192	175/200	169/185	396/410
			5	10	417A	37.6/50.0	104.2/120.3	191/181	200/200	183/201	408/424	195/185	200/200	187/206	412/428
	460-3-60	MED	5	10	—	—	—	25	30	26	132	27	30	28	134
			5	10	420A	15.0	18.0	48	50	47	150	50	50	49	152
			5	10	422A	33.0	39.7	75	80	72	172	77	80	74	174
			5	10	423A	41.7	50.2	88	90	84	182	90	90	86	184
			5	10	424A	50.0	60.1	86	90	95	192	87	90	97	194
		HIGH	5	10	—	—	—	28	30	29	136	30	35	31	138
			5	10	420A	15.0	18.0	51	60	50	154	52	60	52	156
			5	10	422A	33.0	39.7	78	80	75	176	79	80	77	178
			5	10	423A	41.7	50.2	91	100	87	186	93	100	89	188
			5	10	424A	50.0	60.1	88	90	98	196	90	100	100	198
	575-3-60	MED	5	—	—	—	—	25	30	27	102	29	35	31	106
			5	—	425A	18.0	17.3	47	50	46	119	51	60	51	123
			5	—	427A	36.0	34.6	69	70	66	137	73	80	71	141
			5	—	428A	50.0	48.1	74	80	82	150	77	80	86	154
		HIGH	5	—	—	—	—	28	30	29	104	31	35	33	108
			5	—	425A	18.0	17.3	49	50	49	121	53	60	53	125
			5	—	427A	36.0	34.6	71	80	69	139	75	80	73	143
			5	—	428A	50.0	48.1	76	80	84	152	79	90	89	156

NOTE(S):

- a. High SCCR (Short Circuit Current Rating) is not available on 575-v units, or units with factory-installed powered convenience outlet or non-fused disconnect.

50GEQT12 Unit Wire/Fuse Sizing Electrical Data (cont)

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	STD SCCR kA	ELECTRIC HEATER			WITH PWRD C.O.							
				CRHEATER ****00	Nom. (kW)	FLA	NO P.E.				WITH P.E. (pwrdr fr/unit)			
							MCA	FUSE or HACR BRKR	DISCONNECT SIZE		MCA	FUSE or HACR BRKR	DISCONNECT SIZE	
									FLA	LRA			FLA	LRA
T12	208/ 230-3-60	MED	5	—	—	—	59	70	62	300	63	80	66	304
			5	411A	7.8/10.4	21.7/25.0	86/90	100/100	86/90	322/325	90/94	100/100	91/95	326/329
			5	412A	12.0/16.0	33.4/38.5	101/107	110/110	100/106	333/339	105/111	110/125	104/110	337/343
			5	415A	24.0/32.0	66.7/77.0	143/155	150/175	138/150	367/377	146/159	150/175	143/154	371/381
			5	416A	31.8/42.4	88.4/102.0	170/187	175/200	163/179	388/402	174/191	175/200	168/183	392/406
			5	417A	37.6/50.0	104.2/120.3	189/180	200/200	181/200	404/420	193/183	200/200	186/204	408/424
		HIGH	5	—	—	—	65	80	69	309	69	80	73	313
			5	411A	7.8/10.4	21.7/25.0	93/97	100/100	94/97	331/334	96/100	100/110	98/102	335/338
			5	412A	12.0/16.0	33.4/38.5	107/114	110/125	107/113	342/348	111/117	125/125	111/117	346/352
			5	415A	24.0/32.0	66.7/77.0	149/162	150/175	145/157	376/386	153/165	175/175	150/162	380/390
			5	416A	31.8/42.4	88.4/102.0	176/193	200/200	170/186	397/411	180/197	200/200	175/190	401/415
	460-3-60	MED	5	—	—	—	196/186	200/200	188/207	413/429	199/190	200/200	193/211	417/433
			5	—	—	—	28	30	29	134	29	35	31	136
			5	420A	15.0	18.0	50	50	49	152	52	60	51	154
			5	422A	33.0	39.7	77	80	74	174	79	80	76	176
			5	423A	41.7	50.2	90	90	86	184	92	100	88	186
			5	424A	50.0	60.1	88	90	98	194	90	100	100	196
		HIGH	5	—	—	—	30	35	32	138	32	40	34	140
			5	420A	15.0	18.0	53	60	52	156	55	60	54	158
			5	422A	33.0	39.7	80	80	77	178	82	90	79	180
			5	423A	41.7	50.2	93	100	89	188	95	100	91	190
			5	424A	50.0	60.1	90	100	101	198	92	100	103	200
	575-3-60	MED	5	—	—	—	27	30	29	104	31	35	33	108
			5	425A	18.0	17.3	49	50	48	121	53	60	53	125
			5	427A	36.0	34.6	70	70	68	139	74	80	73	143
			5	428A	50.0	48.1	75	80	84	152	79	90	88	156
		HIGH	5	—	—	—	29	35	31	106	33	40	35	110
			5	425A	18.0	17.3	51	60	51	123	55	60	55	127
			5	427A	36.0	34.6	73	80	71	141	76	80	75	145
			5	428A	50.0	48.1	77	80	86	154	81	90	91	158

50GEQT07 Electric Heat Data — Without Non-Fused Disconnect

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	STD SCCR kA	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION KIT P/N			
								No C.O. or Unpowered C.O.		With PWRD C.O.	
								No P.E.	With P.E. (pwrd fr/unit)	No P.E.	With P.E. (pwrd fr/unit)
T07	208/ 230-3-60	MED	CRHEATER410A00	6.5	5	4.9/6.0	16.7/20.4	047	047	049	049
			CRHEATER411A00	10.4	5	7.8/9.6	26.7/32.6	049	049	049	049
			CRHEATER412A00	16.0	5	12.0/14.7	41.0/50.1	049	049	049	049
			CRHEATER413A00	21.0	5	15.8/19.3	53.8/65.8	051	051	051	051
			CRHEATER414A00	25.0	5	18.8/23.0	64.1/78.3	051	051	051	051
		HIGH	CRHEATER410A00	6.5	5	4.9/6.0	16.7/20.4	047	049	049	049
			CRHEATER411A00	10.4	5	7.8/9.6	26.7/32.6	049	049	049	049
			CRHEATER412A00	16.0	5	12.0/14.7	41.0/50.1	049	049	049	049
			CRHEATER413A00	21.0	5	15.8/19.3	53.8/65.8	051	051	051	051
			CRHEATER414A00	25.0	5	18.8/23.0	64.1/78.3	051	051	051	051
	460-3-60	MED	CRHEATER418A00	6.0	5	5.5	18.8	047	047	047	047
			CRHEATER419A00	11.5	5	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5	23.0	78.3	047	047	047	047
		HIGH	CRHEATER418A00	6.0	5	5.5	18.8	047	047	047	047
			CRHEATER419A00	11.5	5	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5	23.0	78.3	047	047	047	052
	575-3-60	MED	CRHEATER425A00	18.0	5	16.5	56.4	047	047	047	047
			CRHEATER426A00	24.8	5	22.8	77.7	047	047	047	047
		HIGH	CRHEATER425A00	18.0	5	16.5	56.4	047	047	047	047
			CRHEATER426A00	24.8	5	22.8	77.7	047	047	047	047

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	HIGH SCCR kA ^a	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	HSCCR SINGLE POINT OR JUNCTION KIT P/N	
								No C.O. or Unpowered C.O.	
								No P.E.	With P.E. (pwrd fr/unit)
T07	208/ 230-3-60	MED	CRHEATER410A00	6.5	10	4.9/6.0	16.7/20.4	067	067
			CRHEATER411A00	10.4	10	7.8/9.6	26.7/32.6	067	067
			CRHEATER412A00	16.0	10	12.0/14.7	41.0/50.1	067	067
			CRHEATER413A00	21.0	10	15.8/19.3	53.8/65.8	068	068
			CRHEATER414A00	25.0	10	18.8/23.0	64.1/78.3	068	068
		HIGH	CRHEATER410A00	6.5	10	4.9/6.0	16.7/20.4	067	067
			CRHEATER411A00	10.4	10	7.8/9.6	26.7/32.6	067	067
			CRHEATER412A00	16.0	10	12.0/14.7	41.0/50.1	067	067
			CRHEATER413A00	21.0	10	15.8/19.3	53.8/65.8	068	068
			CRHEATER414A00	25.0	10	18.8/23.0	64.1/78.3	068	068
	460-3-60	MED	CRHEATER418A00	6.0	10	5.5	18.8	067	067
			CRHEATER419A00	11.5	10	10.6	36.0	067	067
			CRHEATER420A00	15.0	10	13.8	47.0	067	067
			CRHEATER421A00	25.0	10	23.0	78.3	068	068
		HIGH	CRHEATER418A00	6.0	10	5.5	18.8	067	067
			CRHEATER419A00	11.5	10	10.6	36.0	067	067
			CRHEATER420A00	15.0	10	13.8	47.0	067	067
			CRHEATER421A00	25.0	10	23.0	78.3	068	068
	575-3-60	MED	CRHEATER425A00	18.0	—	16.5	56.4	067	067
			CRHEATER426A00	24.8	—	22.8	77.7	068	068
		HIGH	CRHEATER425A00	18.0	—	16.5	56.4	067	067
			CRHEATER426A00	24.8	—	22.8	77.7	068	068

NOTE(S):

- a. High SCCR (Short Circuit Current Rating) is not available on 575-v units, or units with factory-installed powered convenience outlet or non-fused disconnect.

50GEQT07 Electric Heat Data — With Non-Fused Disconnect

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	STD SCCR kA	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION KIT P/N			
								No C.O. or Unpowered C.O.		With PWRD C.O.	
								No P.E.	With P.E. (pwrdr fr/unit)	No P.E.	With P.E. (pwrdr fr/unit)
T07	208/ 230-3-60	MED	CRHEATER410A00	6.5	5.0	4.9/6.0	16.7/20.4	047	047	049	049
			CRHEATER411A00	10.4	5.0	7.8/9.6	26.7/32.6	049	049	049	049
			CRHEATER412A00	16.0	5.0	12.0/14.7	41.0/50.1	049	049	049	049
			CRHEATER413A00	21.0	5.0	15.8/19.3	53.8/65.8	051	051	051	051
			CRHEATER414A00	25.0	5.0	18.8/23.0	64.1/78.3	051	051	051	051
		HIGH	CRHEATER410A00	6.5	5.0	4.9/6.0	16.7/20.4	047	049	049	049
			CRHEATER411A00	10.4	5.0	7.8/9.6	26.7/32.6	049	049	049	049
			CRHEATER412A00	16.0	5.0	12.0/14.7	41.0/50.1	049	049	049	049
			CRHEATER413A00	21.0	5.0	15.8/19.3	53.8/65.8	051	051	051	051
			CRHEATER414A00	25.0	5.0	18.8/23.0	64.1/78.3	051	051	051	051
	460-3-60	MED	CRHEATER418A00	6.0	5.0	5.5	18.8	047	047	047	047
			CRHEATER419A00	11.5	5.0	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5.0	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5.0	23.0	78.3	047	047	047	047
		HIGH	CRHEATER418A00	6.0	5.0	5.5	18.8	047	047	047	047
			CRHEATER419A00	11.5	5.0	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5.0	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5.0	23.0	78.3	047	047	047	052
	575-3-60	MED	CRHEATER425A00	18.0	5.0	16.5	56.4	047	047	047	047
			CRHEATER426A00	24.8	5.0	22.8	77.7	047	047	047	047
		HIGH	CRHEATER425A00	18.0	5.0	16.5	56.4	047	047	047	047
			CRHEATER426A00	24.8	5.0	22.8	77.7	047	047	047	047

50GEQT08 Electric Heat Data — Without Non-Fused Disconnect

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	STD SCCR kA	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION KIT P/N				
								No C.O. or Unpowered C.O.		With PWRD C.O.		
								No P.E.	With P.E. (pwr fr/unit)	No P.E.	With P.E. (pwr fr/unit)	
T08	208/ 230-3-60	MED	CRHEATER411A00	10.4	5	7.8/9.6	26.7/32.6	049	049	049	049	
			CRHEATER412A00	16	5	12.0/14.7	41.0/50.1	049	049	049	049	
			CRHEATER414A00	25	5	18.8/23.0	64.1/78.3	051	051	051	051	
			CRHEATER415A00	32	5	24.0/29.4	82.0/100.3	051	051	051	051	
			CRHEATER416A00	42.4	5	31.8/38.9	108.7/132.9	053	053	053	053	
		HIGH	CRHEATER411A00	10.4	5	7.8/9.6	26.7/32.6	049	049	049	049	
			CRHEATER412A00	16	5	12.0/14.7	41.0/50.1	049	049	049	049	
			CRHEATER414A00	25	5	18.8/23.0	64.1/78.3	051	051	051	051	
	460-3-60	MED	CRHEATER415A00	32	5	24.0/29.4	82.0/100.3	051	051	051	051	
			CRHEATER416A00	42.4	5	31.8/38.9	108.7/132.9	053	053	053	053	
			CRHEATER419A00	11.5	5	10.6	36.0	047	047	047	047	
			CRHEATER420A00	15	5	13.8	47.0	047	047	047	047	
			CRHEATER421A00	25	5	23.0	78.3	047	047	052	052	
		HIGH	CRHEATER422A00	33	5	30.3	103.4	052	052	052	052	
			CRHEATER423A00	41.7	5	38.3	130.7	052	052	052	052	
			CRHEATER419A00	11.5	5	10.6	36.0	047	047	047	047	
			CRHEATER420A00	15	5	13.8	47.0	047	047	047	047	
			CRHEATER421A00	25	5	23.0	78.3	047	052	052	052	
			CRHEATER422A00	33	5	30.3	103.4	052	052	052	052	
			CRHEATER423A00	41.7	5	38.3	130.7	052	052	052	052	
		575-3-60	MED	CRHEATER425A00	18	5	16.5	56.4	047	047	047	047
				CRHEATER427A00	36	5	33.1	112.8	052	052	052	052
			HIGH	CRHEATER425A00	18	5	16.5	56.4	047	047	047	047
				CRHEATER427A00	36	5	33.1	112.8	052	052	052	052

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	HIGH SCCR kA ^a	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	HSCCR SINGLE POINT OR JUNCTION KIT P/N			
								No C.O. or Unpowered C.O.			
								No P.E.	With P.E. (pwrd fr/unit)		
T08	208/ 230-3-60	MED	CRHEATER411A00	10.4	10	7.8/9.6	26.7/32.6	067	067		
			CRHEATER412A00	16	10	12.0/14.7	41.0/50.1	067	067		
			CRHEATER414A00	25	10	18.8/23.0	64.1/78.3	068	068		
			CRHEATER415A00	32	10	24.0/29.4	82.0/100.3	068	068		
		CRHEATER416A00	42.4	10	31.8/38.9	108.7/132.9	069	069			
		HIGH	CRHEATER411A00	10.4	10	7.8/9.6	26.7/32.6	067	067		
			CRHEATER412A00	16	10	12.0/14.7	41.0/50.1	067	067		
			CRHEATER414A00	25	10	18.8/23.0	64.1/78.3	068	068		
	CRHEATER415A00		32	10	24.0/29.4	82.0/100.3	068	068			
	CRHEATER416A00	42.4	10	31.8/38.9	108.7/132.9	069	069				
	460-3-60	MED	CRHEATER419A00	11.5	10	10.6	36.0	067	067		
			CRHEATER420A00	15	10	13.8	47.0	067	067		
			CRHEATER421A00	25	10	23.0	78.3	068	068		
			CRHEATER422A00	33	10	30.3	103.4	068	068		
			CRHEATER423A00	41.7	10	38.3	130.7	068	068		
		HIGH	CRHEATER419A00	11.5	10	10.6	36.0	067	067		
			CRHEATER420A00	15	10	13.8	47.0	067	067		
			CRHEATER421A00	25	10	23.0	78.3	068	068		
			CRHEATER422A00	33	10	30.3	103.4	068	068		
			CRHEATER423A00	41.7	10	38.3	130.7	068	068		
			575-3-60	MED	CRHEATER425A00	18	—	16.5	56.4	067	067
					CRHEATER427A00	36	—	33.1	112.8	068	068
	HIGH	CRHEATER425A00		18	—	16.5	56.4	067	067		
		CRHEATER427A00		36	—	33.1	112.8	068	068		

NOTE(S):

- a. High SCCR (Short Circuit Current Rating) is not available on 575-v units, or units with factory-installed powered convenience outlet or non-fused disconnect.

50GEQT08 Electric Heat Data — With Non-Fused Disconnect

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	STD SCCR kA	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION KIT P/N			
								No C.O. or Unpowered C.O.		With PWRD C.O.	
								No P.E.	With P.E. (pwrd fr/unit)	No P.E.	With P.E. (pwrd fr/unit)
T08	208/ 230-3-60	MED	CRHEATER411A00	10.4	5.0	7.8/9.6	26.7/32.6	049	049	049	049
			CRHEATER412A00	16.0	5.0	12.0/14.7	41.0/50.1	049	049	049	049
			CRHEATER414A00	25.0	5.0	18.8/23.0	64.1/78.3	051	051	051	051
			CRHEATER415A00	32.0	5.0	24.0/29.4	82.0/100.3	051	051	051	051
			CRHEATER416A00	42.4	5.0	31.8/38.9	108.7/132.9	053	053	053	053
		HIGH	CRHEATER411A00	10.4	5.0	7.8/9.6	26.7/32.6	049	049	049	049
			CRHEATER412A00	16.0	5.0	12.0/14.7	41.0/50.1	049	049	049	049
			CRHEATER414A00	25.0	5.0	18.8/23.0	64.1/78.3	051	051	051	051
			CRHEATER415A00	32.0	5.0	24.0/29.4	82.0/100.3	051	051	051	051
			CRHEATER416A00	42.4	5.0	31.8/38.9	108.7/132.9	053	053	053	053
	460-3-60	MED	CRHEATER419A00	11.5	5.0	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5.0	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5.0	23.0	78.3	047	047	052	052
			CRHEATER422A00	33.0	5.0	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5.0	38.3	130.7	052	052	052	052
		HIGH	CRHEATER419A00	11.5	5.0	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5.0	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5.0	23.0	78.3	047	052	052	052
			CRHEATER422A00	33.0	5.0	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5.0	38.3	130.7	052	052	052	052
	575-3-60	MED	CRHEATER425A00	18.0	5.0	16.5	56.4	047	047	047	047
			CRHEATER427A00	36.0	5.0	33.1	112.8	052	052	052	052
		HIGH	CRHEATER425A00	18.0	5.0	16.5	56.4	047	047	047	047
			CRHEATER427A00	36.0	5.0	33.1	112.8	052	052	052	052

50GEQT09 Electric Heat Data — Without Non-Fused Disconnect

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	STD SCCR kA	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION KIT P/N			
								No C.O. or Unpowered C.O.		With PWRD C.O.	
								No P.E.	With P.E. (pwr fr/unit)	No P.E.	With P.E. (pwr fr/unit)
T09	208/ 230-3-60	MED	CRHEATER411A00	10.4	5	7.8/9.6	26.7/32.6	049	049	049	051
			CRHEATER412A00	16.0	5	12.0/14.7	41.0/50.1	049	049	049	051
			CRHEATER414A00	25.0	5	18.8/23.0	64.1/78.3	051	051	051	053
			CRHEATER415A00	32.0	5	24.0/29.4	82.0/100.3	051	051	051	053
			CRHEATER416A00	42.4	5	31.8/38.9	108.7/132.9	053	053	053	054
		HIGH	CRHEATER411A00	10.4	5	7.8/9.6	26.7/32.6	049	049	051	051
			CRHEATER412A00	16.0	5	12.0/14.7	41.0/50.1	049	049	051	051
			CRHEATER414A00	25.0	5	18.8/23.0	64.1/78.3	051	051	053	053
			CRHEATER415A00	32.0	5	24.0/29.4	82.0/100.3	051	051	053	053
	460-3-60	MED	CRHEATER416A00	42.4	5	31.8/38.9	108.7/132.9	053	053	054	054
			CRHEATER419A00	11.5	5	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5	23.0	78.3	052	052	052	052
			CRHEATER422A00	33.0	5	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5	38.3	130.7	052	052	052	052
		HIGH	CRHEATER419A00	11.5	5	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5	23.0	78.3	052	052	052	052
			CRHEATER422A00	33.0	5	30.3	103.4	052	052	052	052
	575-3-60	MED	CRHEATER423A00	41.7	5	38.3	130.7	052	052	052	052
			CRHEATER425A00	18.0	5	16.5	56.4	047	047	047	047
		HIGH	CRHEATER427A00	36.0	5	33.1	112.8	052	052	052	052
			CRHEATER425A00	18.0	5	16.5	56.4	047	047	047	047
			CRHEATER427A00	36.0	5	33.1	112.8	052	052	052	052

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	HIGH SCCR kA ^a	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	HSCCR SINGLE POINT OR JUNCTION KIT P/N	
								No C.O. or Unpowered C.O.	
								No P.E.	With P.E. (pwr fr/unit)
T09	208/ 230-3-60	MED	CRHEATER411A00	10.4	—	7.8/9.6	26.7/32.6	067	067
			CRHEATER412A00	16.0	—	12.0/14.7	41.0/50.1	067	067
			CRHEATER414A00	25.0	—	18.8/23.0	64.1/78.3	068	068
			CRHEATER415A00	32.0	—	24.0/29.4	82.0/100.3	068	068
		HIGH	CRHEATER416A00	42.4	—	31.8/38.9	108.7/132.9	069	069
			CRHEATER411A00	10.4	—	7.8/9.6	26.7/32.6	067	067
			CRHEATER412A00	16.0	—	12.0/14.7	41.0/50.1	067	067
			CRHEATER414A00	25.0	—	18.8/23.0	64.1/78.3	068	068
	460-3-60	MED	CRHEATER415A00	32.0	—	24.0/29.4	82.0/100.3	068	068
			CRHEATER416A00	42.4	—	31.8/38.9	108.7/132.9	069	069
			CRHEATER419A00	11.5	—	10.6	36.0	067	067
			CRHEATER420A00	15.0	—	13.8	47.0	067	067
		HIGH	CRHEATER421A00	25.0	—	23.0	78.3	068	068
			CRHEATER422A00	33.0	—	30.3	103.4	068	068
			CRHEATER423A00	41.7	—	38.3	130.7	068	068
			CRHEATER419A00	11.5	—	10.6	36.0	067	067
	575-3-60	MED	CRHEATER420A00	15.0	—	13.8	47.0	067	067
			CRHEATER421A00	25.0	—	23.0	78.3	068	068
		HIGH	CRHEATER422A00	33.0	—	30.3	103.4	068	068
			CRHEATER423A00	41.7	—	38.3	130.7	068	068
	575-3-60	MED	CRHEATER425A00	18.0	—	16.5	56.4	067	067
			CRHEATER427A00	36.0	—	33.1	112.8	068	068
		HIGH	CRHEATER425A00	18.0	—	16.5	56.4	067	067
			CRHEATER427A00	36.0	—	33.1	112.8	068	068

NOTE(S):

a. High SCCR (Short Circuit Current Rating) is not available on 50GEQT09 units due to control box constraints.

50GEQT09 Electric Heat Data — With Non-Fused Disconnect

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	STD SCCR kA	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION KIT P/N			
								No C.O. or Unpowered C.O.		With PWRD C.O.	
								No P.E.	With P.E. (pwrdr fr/unit)	No P.E.	With P.E. (pwrdr fr/unit)
T09	208/ 230-3-60	MED	CRHEATER411A00	10.4	5.0	7.8/9.6	26.7/32.6	049	049	049	051
			CRHEATER412A00	16.0	5.0	12.0/14.7	41.0/50.1	049	049	049	051
			CRHEATER414A00	25.0	5.0	18.8/23.0	64.1/78.3	051	051	051	053
			CRHEATER415A00	32.0	5.0	24.0/29.4	82.0/100.3	051	051	051	053
			CRHEATER416A00	42.4	5.0	31.8/38.9	108.7/132.9	053	053	053	054
		HIGH	CRHEATER411A00	10.4	5.0	7.8/9.6	26.7/32.6	049	049	051	051
			CRHEATER412A00	16.0	5.0	12.0/14.7	41.0/50.1	049	049	051	051
			CRHEATER414A00	25.0	5.0	18.8/23.0	64.1/78.3	051	051	053	053
			CRHEATER415A00	32.0	5.0	24.0/29.4	82.0/100.3	051	051	053	053
			CRHEATER416A00	42.4	5.0	31.8/38.9	108.7/132.9	053	053	054	054
	460-3-60	MED	CRHEATER419A00	11.5	5.0	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5.0	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5.0	23.0	78.3	052	052	052	052
			CRHEATER422A00	33.0	5.0	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5.0	38.3	130.7	052	052	052	052
		HIGH	CRHEATER419A00	11.5	5.0	10.6	36.0	047	047	047	047
			CRHEATER420A00	15.0	5.0	13.8	47.0	047	047	047	047
			CRHEATER421A00	25.0	5.0	23.0	78.3	052	052	052	052
			CRHEATER422A00	33.0	5.0	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5.0	38.3	130.7	052	052	052	052
	575-3-60	MED	CRHEATER425A00	18.0	5.0	16.5	56.4	047	047	047	047
			CRHEATER427A00	36.0	5.0	33.1	112.8	052	052	052	052
		HIGH	CRHEATER425A00	18.0	5.0	16.5	56.4	047	047	047	047
			CRHEATER427A00	36.0	5.0	33.1	112.8	052	052	052	052

50GEQT12 Electric Heat Data — Without Non-Fused Disconnect

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	STD SCCR kA	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION KIT P/N			
								No C.O. or Unpowered C.O.		With PWRD C.O.	
								No P.E.	With P.E. (pwr fr/unit)	No P.E.	With P.E. (pwr fr/unit)
T12	208/ 230-3-60	MED	CRHEATER411A00	10.4	5	7.8/9.6	26.7/32.6	049	051	051	051
			CRHEATER412A00	16.0	5	12.0/14.7	41.0/50.1	049	051	051	051
			CRHEATER415A00	32.0	5	24.0/29.4	82.0/100.3	051	053	053	053
			CRHEATER416A00	42.4	5	31.8/38.9	108.7/132.9	053	054	054	054
		HIGH	CRHEATER417A00	50.0	5	37.6/45.9	128.1/156.7	053	054	054	054
			CRHEATER411A00	10.4	5	7.8/9.6	26.7/32.6	051	051	051	051
			CRHEATER412A00	16.0	5	12.0/14.7	41.0/50.1	051	051	051	051
			CRHEATER415A00	32.0	5	24.0/29.4	82.0/100.3	053	053	053	053
	460-3-60	MED	CRHEATER416A00	42.4	5	31.8/38.9	108.7/132.9	054	054	054	054
			CRHEATER417A00	50.0	5	37.6/45.9	128.1/156.7	054	054	054	054
		HIGH	CRHEATER420A00	15.0	5	13.8	47.0	047	047	047	047
			CRHEATER422A00	33.0	5	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5	38.3	130.7	052	052	052	052
			CRHEATER424A00	50.0	5	45.9	156.7	052	052	052	052
	575-3-60	MED	CRHEATER420A00	15.0	5	13.8	47.0	047	047	047	047
			CRHEATER422A00	33.0	5	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5	38.3	130.7	052	052	052	052
			CRHEATER424A00	50.0	5	45.9	156.7	052	052	052	052
		HIGH	CRHEATER425A00	18.0	5	16.5	56.4	047	047	047	047
			CRHEATER427A00	36.0	5	33.1	112.8	052	052	052	052
			CRHEATER428A00	50.0	5	45.9	156.7	052	052	052	052
			CRHEATER425A00	18.0	5	16.5	56.4	047	047	047	047

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	HIGH SCCR kA ^a	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	HSCCR SINGLE POINT OR JUNCTION KIT P/N	
								No C.O. or Unpowered C.O.	
								No P.E.	With P.E. (pwr fr/unit)
T12	208/ 230-3-60	MED	CRHEATER411A00	10.4	10	7.8/9.6	26.7/32.6	067	067
			CRHEATER412A00	16.0	10	12.0/14.7	41.0/50.1	067	067
			CRHEATER415A00	32.0	10	24.0/29.4	82.0/100.3	068	068
			CRHEATER416A00	42.4	10	31.8/38.9	108.7/132.9	069	069
		HIGH	CRHEATER417A00	50.0	10	37.6/45.9	128.1/156.7	069	069
			CRHEATER411A00	10.4	10	7.8/9.6	26.7/32.6	067	067
			CRHEATER412A00	16.0	10	12.0/14.7	41.0/50.1	067	067
			CRHEATER415A00	32.0	10	24.0/29.4	82.0/100.3	068	068
	460-3-60	MED	CRHEATER416A00	42.4	10	31.8/38.9	108.7/132.9	069	069
			CRHEATER417A00	50.0	10	37.6/45.9	128.1/156.7	069	069
		HIGH	CRHEATER420A00	15.0	10	13.8	47.0	067	067
			CRHEATER422A00	33.0	10	30.3	103.4	068	068
			CRHEATER423A00	41.7	10	38.3	130.7	068	068
			CRHEATER424A00	50.0	10	45.9	156.7	068	068
	575-3-60	MED	CRHEATER420A00	15.0	10	13.8	47.0	067	067
			CRHEATER422A00	33.0	10	30.3	103.4	068	068
			CRHEATER423A00	41.7	10	38.3	130.7	068	068
			CRHEATER424A00	50.0	10	45.9	156.7	068	068
		HIGH	CRHEATER425A00	18.0	—	16.5	56.4	067	067
			CRHEATER427A00	36.0	—	33.1	112.8	068	068
			CRHEATER428A00	50.0	—	45.9	156.7	068	068
			CRHEATER425A00	18.0	—	16.5	56.4	067	067

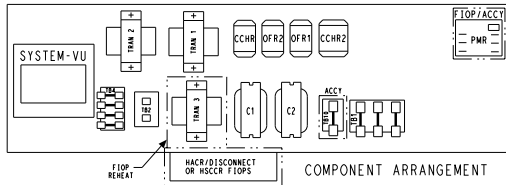
NOTE(S):

a. High SCCR (Short Circuit Current Rating) is not available on 575-v units, or units with factory-installed powered convenience outlet or non-fused disconnect.

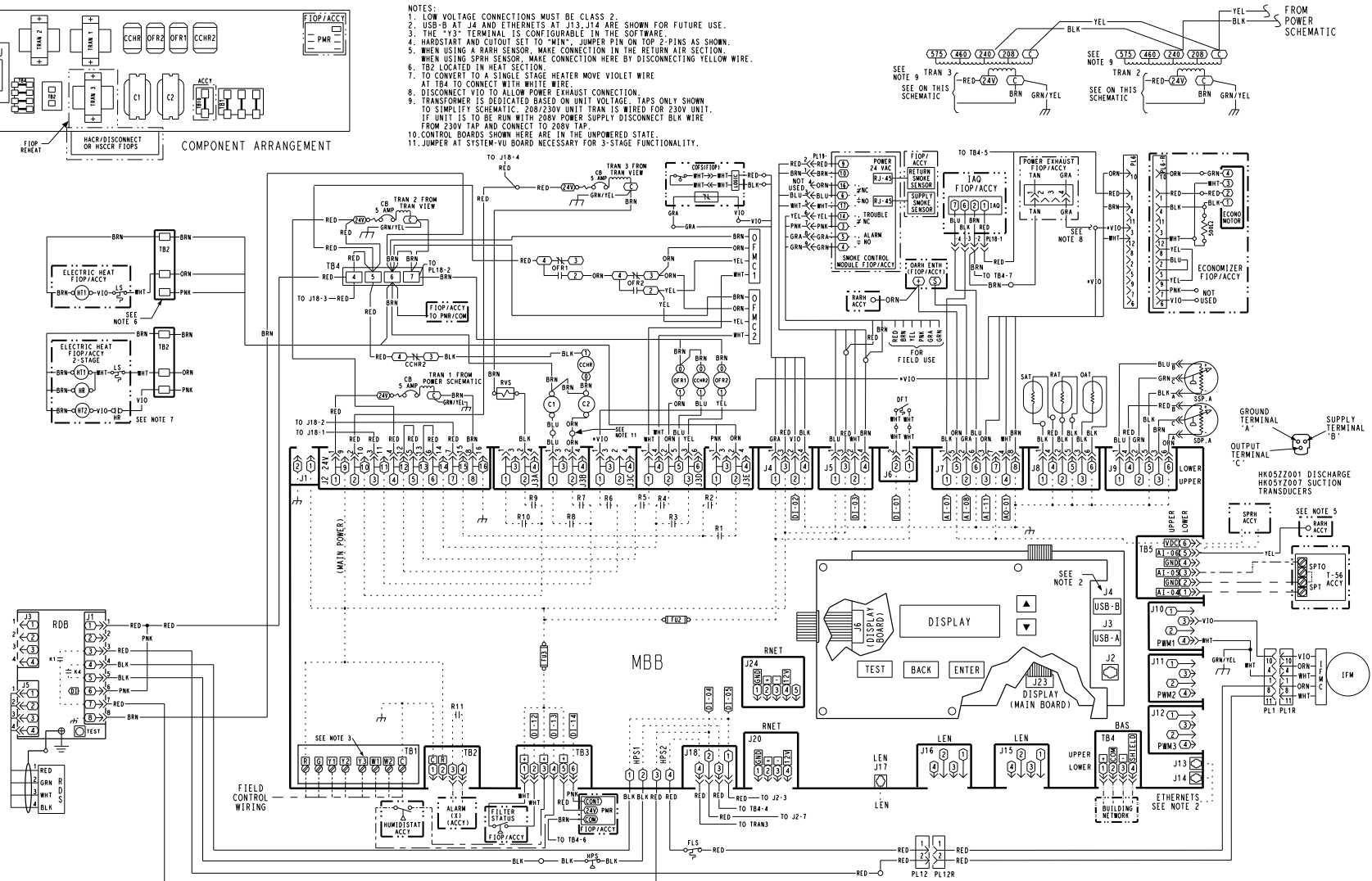
50GEQT12 Electric Heat Data — With Non-Fused Disconnect

50GEQ UNIT SIZE	NOM. V-Ph-Hz	IFM TYPE	ELECTRIC HEATER P/N	NOM. (kW)	STD SCCR kA	APPLICATION (kW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION KIT P/N			
								No C.O. or Unpowered C.O.		With PWRD C.O.	
								No P.E.	With P.E. (pwrd fr/unit)	No P.E.	With P.E. (pwrd fr/unit)
T12	208/ 230-3-60	MED	CRHEATER411A00	10.4	5.0	7.8/9.6	26.7/32.6	049	051	051	051
			CRHEATER412A00	16.0	5.0	12.0/14.7	41.0/50.1	049	051	051	051
			CRHEATER415A00	32.0	5.0	24.0/29.4	82.0/100.3	051	053	053	053
			CRHEATER416A00	42.4	5.0	31.8/38.9	108.7/132.9	053	054	054	054
			CRHEATER417A00	50.0	5.0	37.6/45.9	128.1/156.7	053	054	054	054
		HIGH	CRHEATER411A00	10.4	5.0	7.8/9.6	26.7/32.6	051	051	051	051
			CRHEATER412A00	16.0	5.0	12.0/14.7	41.0/50.1	051	051	051	051
			CRHEATER415A00	32.0	5.0	24.0/29.4	82.0/100.3	053	053	053	053
			CRHEATER416A00	42.4	5.0	31.8/38.9	108.7/132.9	054	054	054	054
			CRHEATER417A00	50.0	5.0	37.6/45.9	128.1/156.7	054	054	054	054
	460-3-60	MED	CRHEATER420A00	15.0	5.0	13.8	47.0	047	047	047	047
			CRHEATER422A00	33.0	5.0	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5.0	38.3	130.7	052	052	052	052
			CRHEATER424A00	50.0	5.0	45.9	156.7	052	052	052	052
		HIGH	CRHEATER420A00	15.0	5.0	13.8	47.0	047	047	047	047
			CRHEATER422A00	33.0	5.0	30.3	103.4	052	052	052	052
			CRHEATER423A00	41.7	5.0	38.3	130.7	052	052	052	052
			CRHEATER424A00	50.0	5.0	45.9	156.7	052	052	052	052
	575-3-60	MED	CRHEATER425A00	18.0	5.0	16.5	56.4	047	047	047	047
			CRHEATER427A00	36.0	5.0	33.1	112.8	052	052	052	052
			CRHEATER428A00	50.0	5.0	45.9	156.7	052	052	052	052
		HIGH	CRHEATER425A00	18.0	5.0	16.5	56.4	047	047	047	047
			CRHEATER427A00	36.0	5.0	33.1	112.8	052	052	052	052
			CRHEATER428A00	50.0	5.0	45.9	156.7	052	052	052	052

50GEQ*07-08 Control Wiring Diagram, SystemVu™ Controller

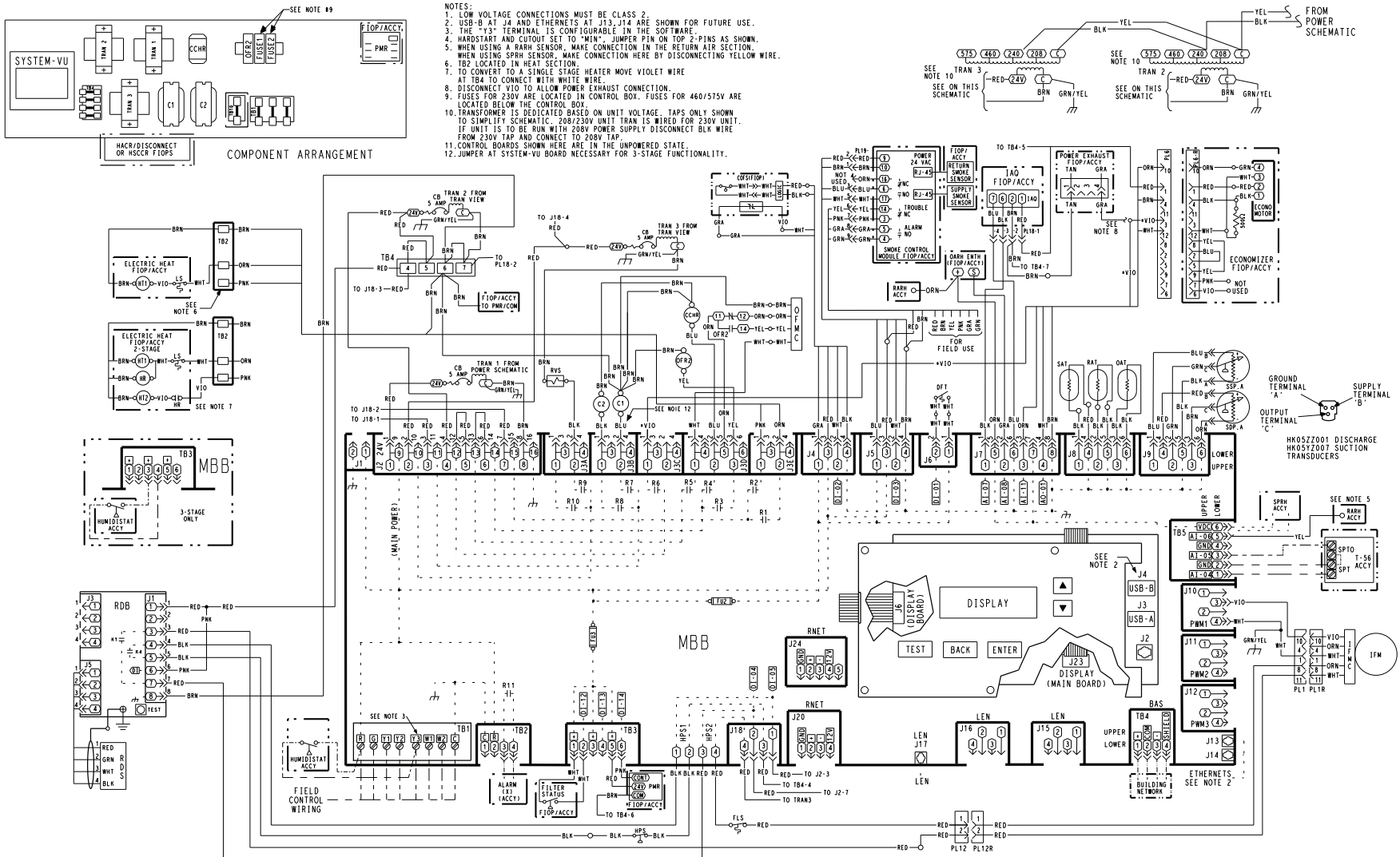


- NOTES:
1. LOW VOLTAGE CONNECTIONS MUST BE CLASS 2.
 2. USB-B AT J4 AND ETHERNETS AT J13, J14 ARE SHOWN FOR FUTURE USE.
 3. THE "Y3" TERMINAL IS CONFIGURABLE IN THE SOFTWARE.
 4. HARDSTART AND CUTOFF SET TO "MIN". JUMPER PIN ON TOP 2-PINS AS SHOWN.
 5. WHEN USING A RAIN SENSOR, MAKE CONNECTION IN THE RETURN AIR SECTION.
 6. TB2 LOCATED IN HEAT SECTION.
 7. TO CONVERT TO A SINGLE STAGE HEATER MOVE VIOLET WIRE AT TB4 TO CONNECT WITH WHITE WIRE.
 8. DISCONNECT VIO TO ALLOW POWER EXHAUST CONNECTION.
 9. TRANSFORMER IS DEDICATED BASED ON UNIT VOLTAGE. TAPS ONLY SHOWN TO SIMPLIFY SCHEMATIC. 208/230V UNIT TRANS IS WIRED FOR 230V UNIT. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY DISCONNECT BLK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.
 10. CONTROL BOARDS SHOWN HERE ARE IN THE UNPOWERED STATE.
 11. JUMPER AT SYSTEM-VU BOARD NECESSARY FOR 3-STAGE FUNCTIONALITY.



HP CONTROL 230/460/575V SVU T1 7.5-8.5 TON, T2 6-7.5 TON 3STG 48TWT0321 8

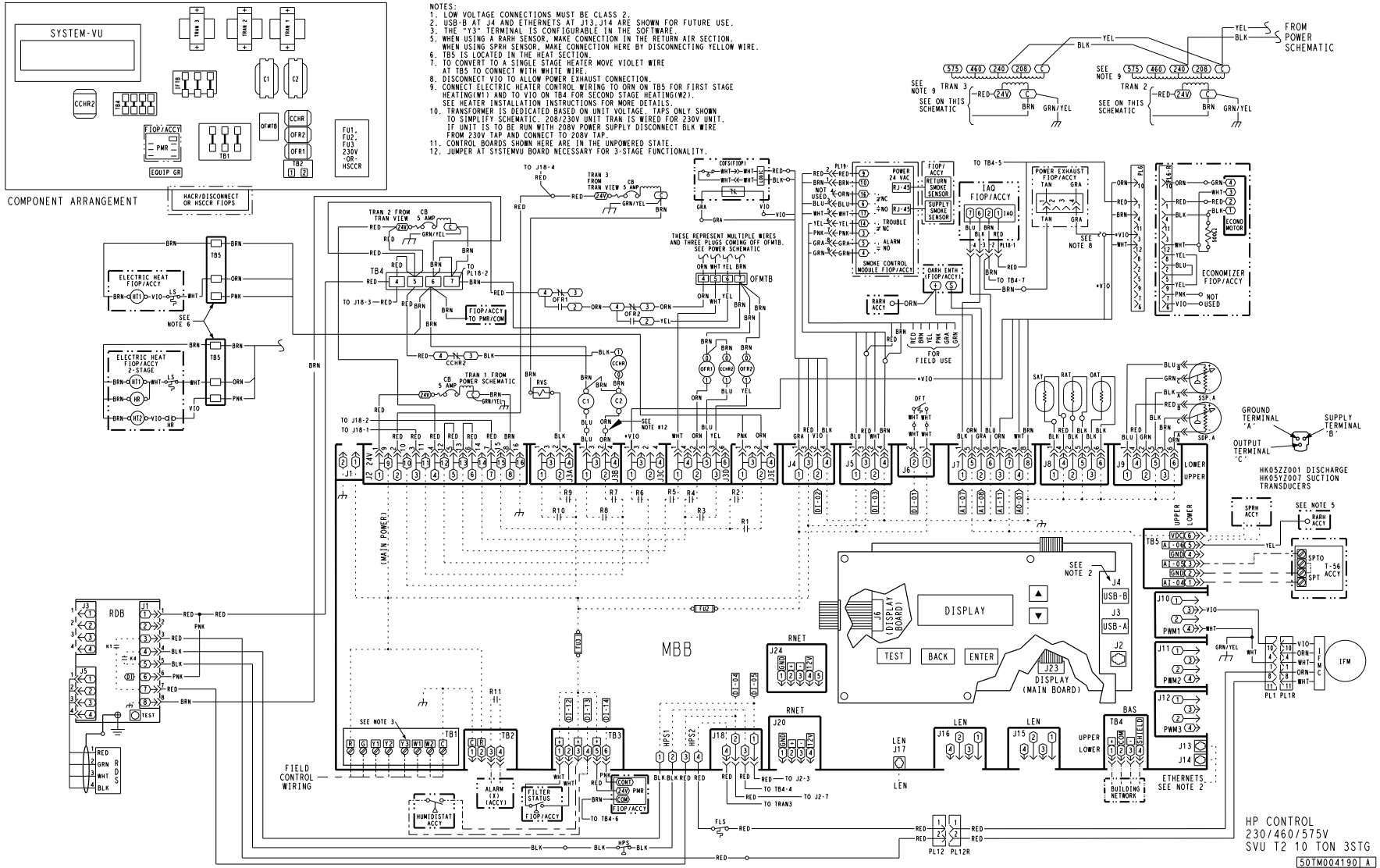
50GEQ*09 Control Wiring Diagram, SystemVu™ Controller



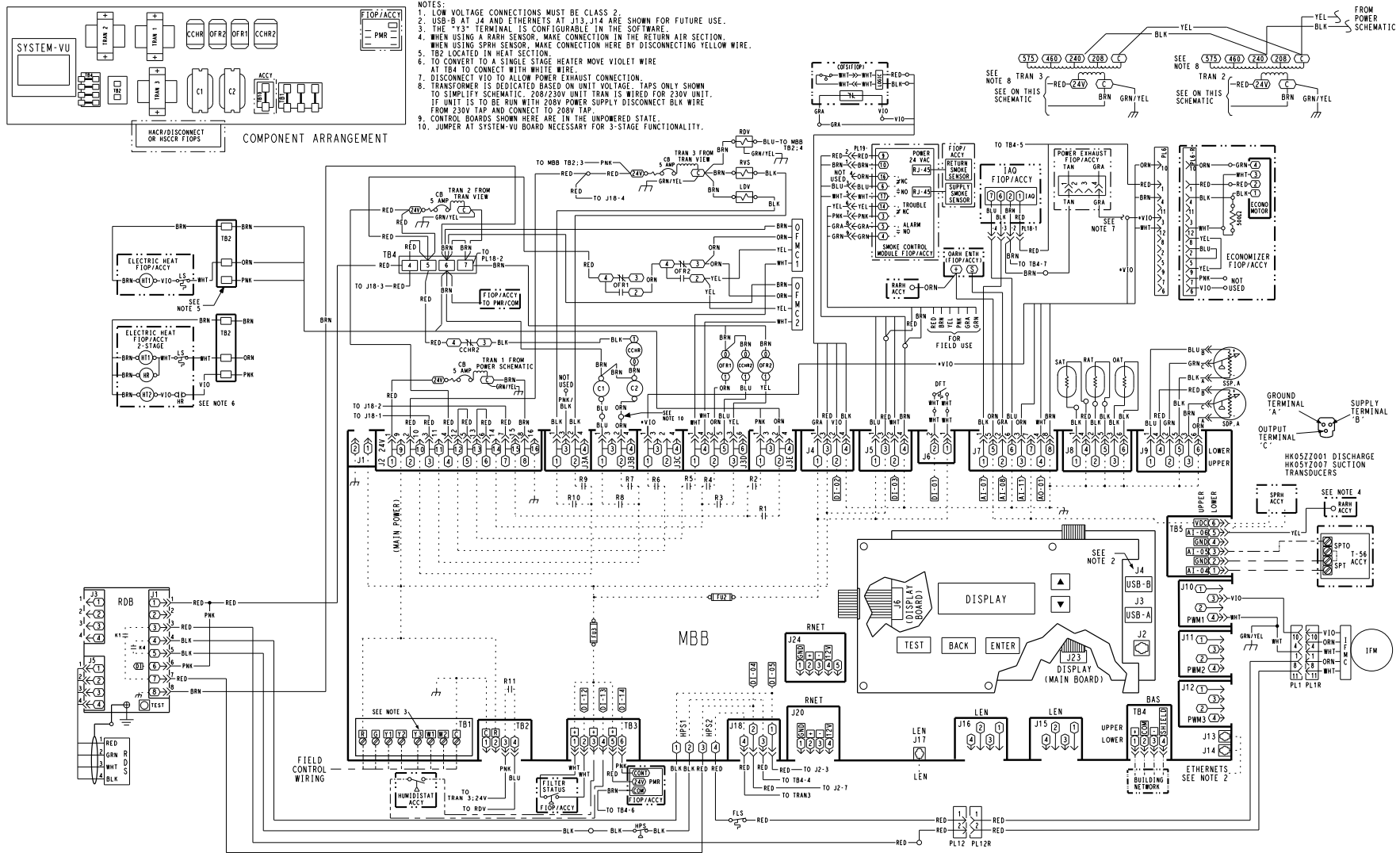
HP CONTROL 230/460/575V SVU T1 10 TON, T2 8.5 TON

48TMD08B18 D

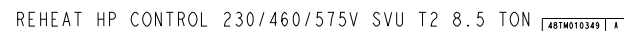
50GEQ*12 Control Wiring Diagram, SystemVu™ Controller



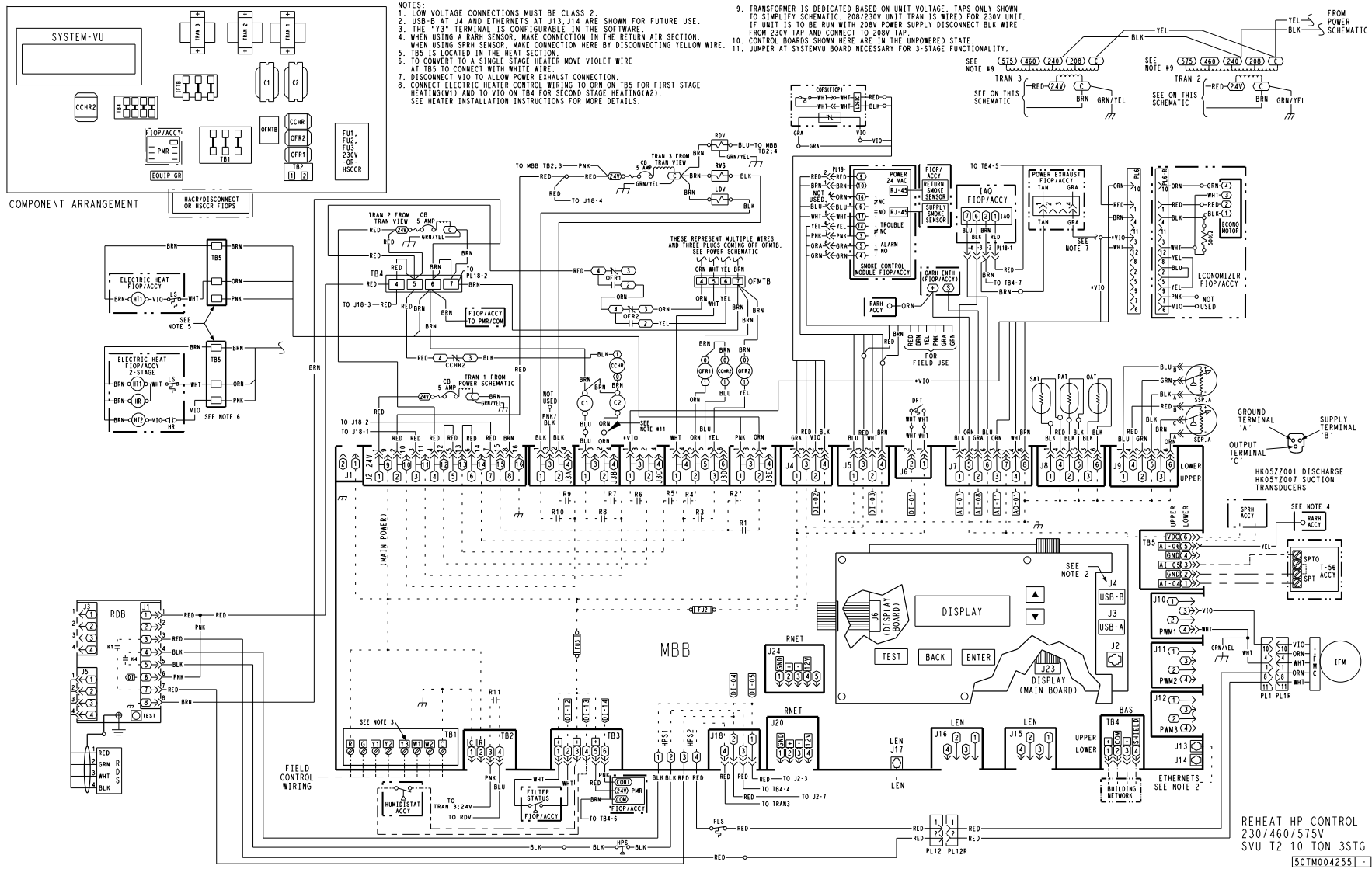
50GEQ*07-08 Control Wiring Diagram, SystemVu™ Controller with Humidi-MiZer™ System Option



Typical wiring diagrams (cont)

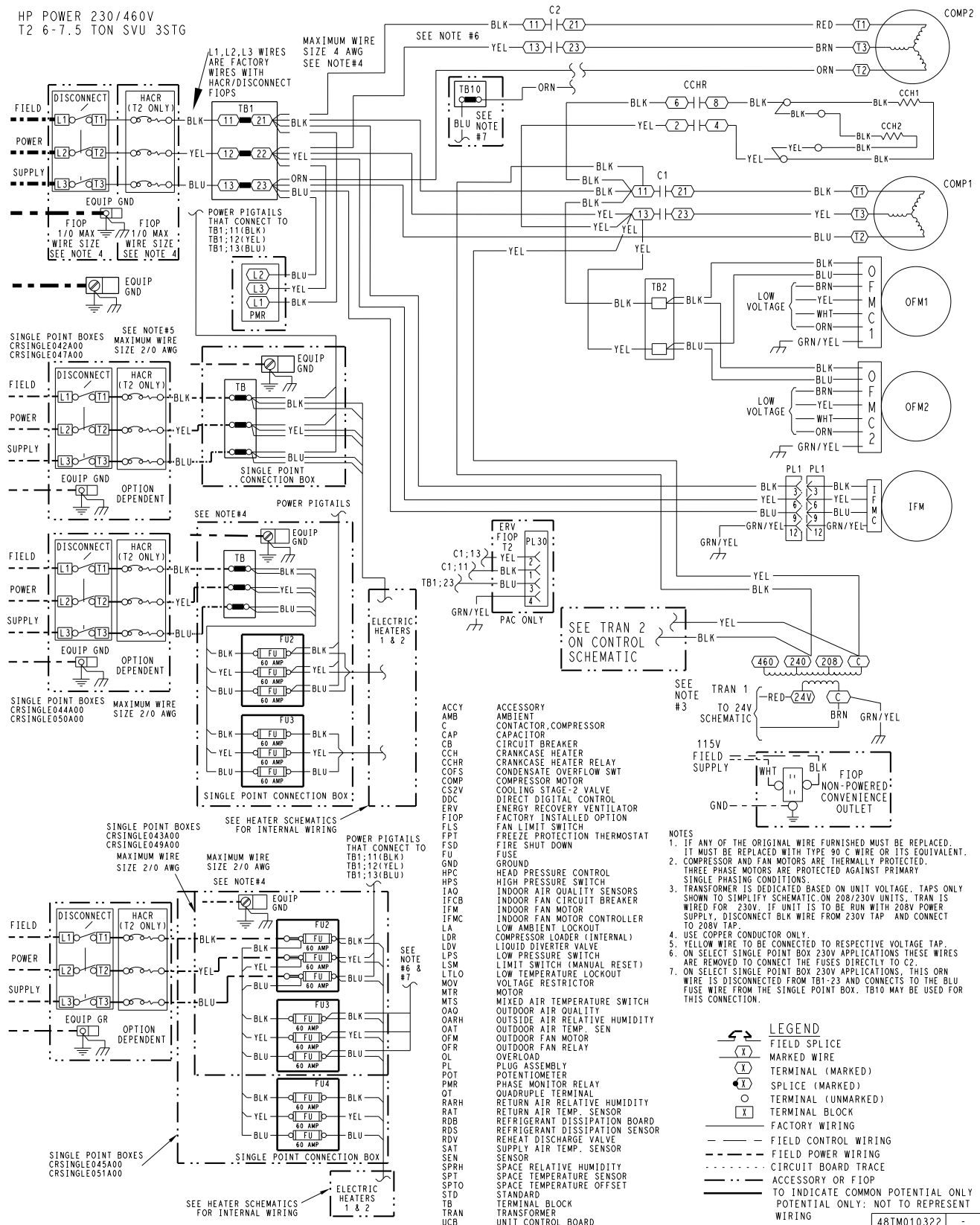


50GEQ*12 Control Wiring Diagram, SystemVu™ Controller with Humidi-MiZer™ System Option

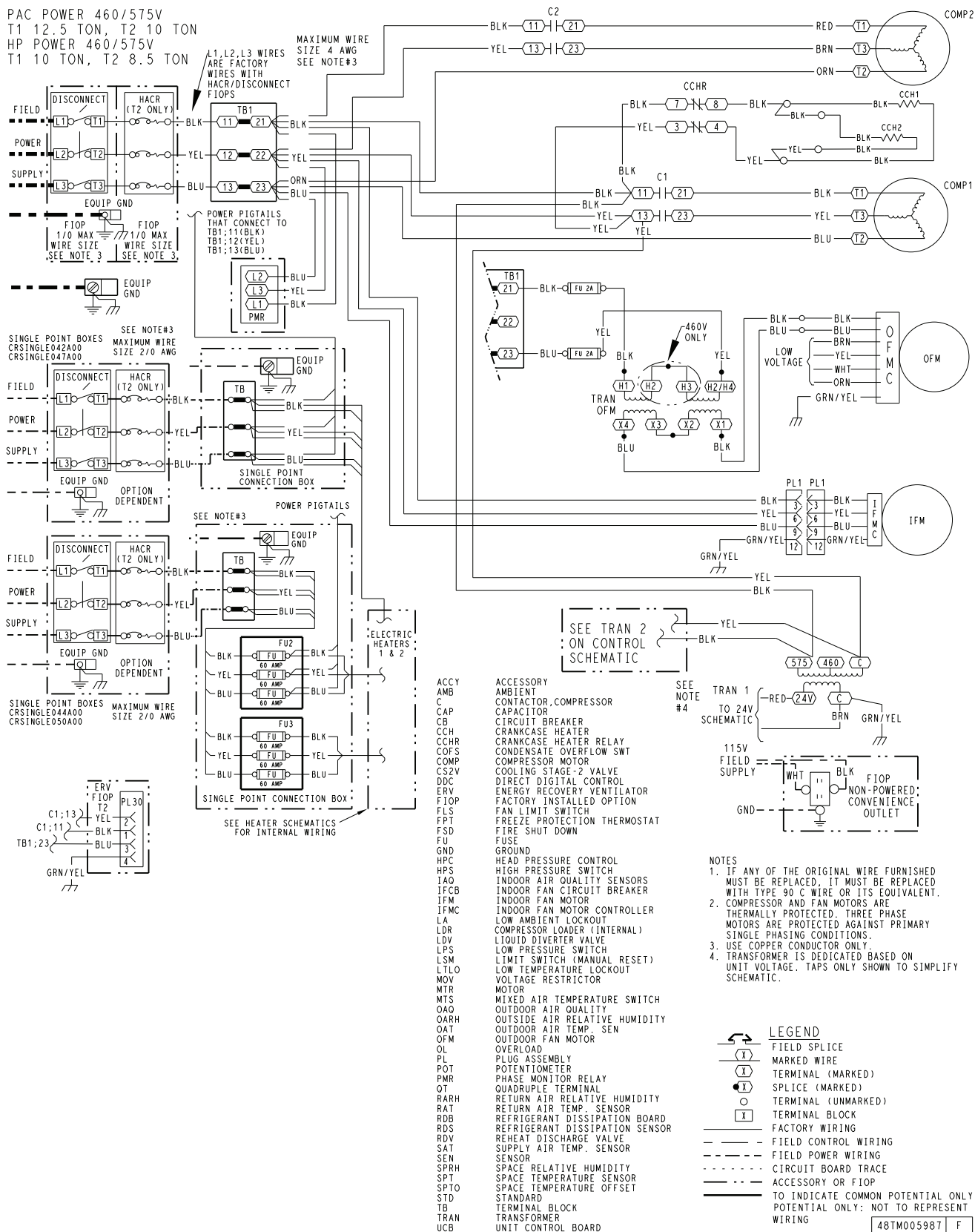


50GEQ*07-08 Power Wiring Diagram, SystemVu™ Controller, 230/460-3-60 Unit Shown

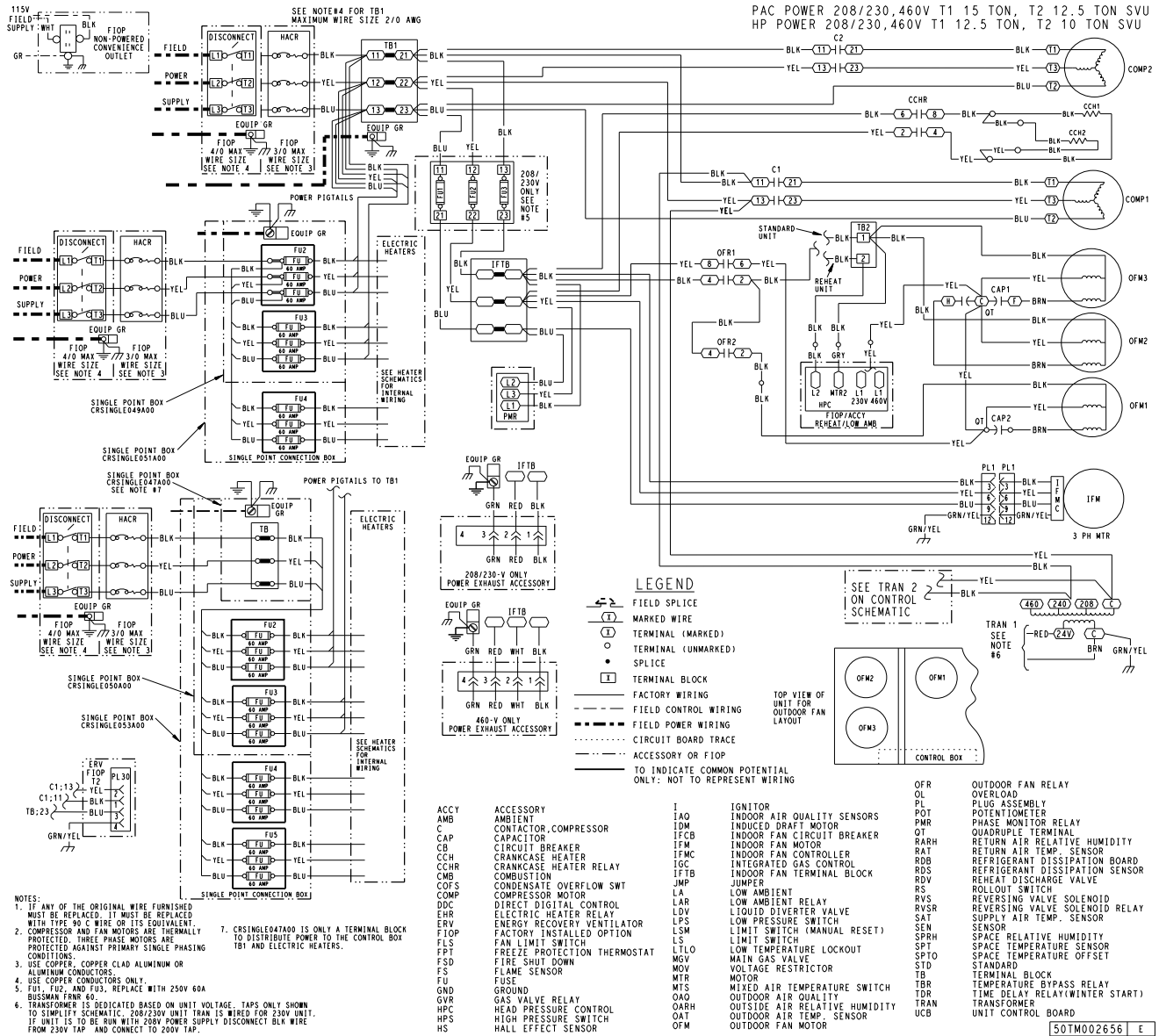
HP POWER 230/460V
T2 6-7.5 TON SVU 3STG



PAC POWER 460/575V
T1 12.5 TON, T2 10 TON
HP POWER 460/575V
T1 10 TON, T2 8.5 TON



50GEQ*12 Power Wiring Diagram, SystemVu™ Controller, 230/460-3-60 Unit Shown



General

The SystemVu controller is standard on all 50GEQ 3-stage units. The sequence below describes the sequence of operation for 50GEQ 3-stage units with and without a factory-installed economizer. For more information regarding the SystemVu controller, see the 50FEQ/50GEQ/48QE Single Package Rooftop Units with SystemVu Controls Start-Up, Operation and Troubleshooting manual.

Dissipation

When the factory-installed dissipation system detects a level of refrigerant leak in the unit, a safety dissipation mode will be activated. During this dissipation mode, the thermostat will be disabled and the indoor fan will run at 66% of the maximum speed of the motor. When the refrigerant leak levels are normal for 5 minutes, the unit will return to normal operation.

Units without economizer

Cooling

When the thermostat calls for cooling, terminals G and Y1 are energized. The indoor fan will run at the low fan speed and the C2 compressor contactor (CC) is energized causing small compressor and outdoor fan to run. The low indoor fan speed is 40% of the user set fan speed, depending on unit size.

If additional cooling is needed, the thermostat will add the call for Y2. This will increase the indoor fan speed to 60% of the user set fan speed, energize the C1 contactor and the large compressor, and de-energize C2 and the small compressor. The outdoor fan may run at different speeds for Y1 and Y2 depending on unit size and outdoor ambient temperature.

If further cooling is needed, the thermostat will add the call for Y3. This will increase the indoor fan speed to the user set fan speed and re-energize the C2 contactor and small compressor for full compressor capacity. The outdoor fan runs at different speeds for Y1, Y2, and Y3 depending on unit size and outdoor ambient temperature.

When the thermostat removes the call for Y3 but leaves the Y2 and Y3, the indoor fan will slow to the reduced percentage of the user set fan speed, the C2 contactor will de-energize, the second compressor will turn off, and the outdoor fan will remain on. When the thermostat removes the call for Y2 but leaves the Y1, the indoor fan will further slow to the reduced percentage of the user set fan speed, the C1 contactor and large compressor will de-energize, the C2 contactor and small compressor will re-energize, and the outdoor fan will remain on. When the thermostat removes the call for Y1, the C2 contactor and small compressor will de-energize and the outdoor fan will shut down. When the thermostat removes the call for G, the indoor fan will turn off after the specific unit fan off delay.

NOTE: Per ASHRAE 90.1-2019 and IECC-2018 standards, during the first stage cooling operation the SystemVu controller will adjust the fan motor speed to provide 40% of the total cfm established for the unit. During the second stage cooling operation the SystemVu controller will adjust the fan motor speed to provide 60% of the total cfm established for the unit.

Defrost

When the temperature of the outdoor coil drops below 28°F (-2°C), as sensed by the defrost thermostat (DFT2), and the defrost timer is at the end of a timed period

(adjustable to 30, 60, 90 or 120 minutes), the reversing valve solenoids (RVS1 and RVS2) are energized and the OFC is de-energized. This switches the position of the reversing valves and shuts off the outdoor fan. The electric heaters (if installed) will be energized.

Heating, unit with economizer

Upon a request for heating from the space thermostat terminal, W1 will be energized with 24V. The indoor fan will run at high speed, and outdoor fan C1 and C2 will be energized in heating. The indoor fan, outdoor fans, and compressor are energized. The reversing valve is de-energized and switch positions. The economizer is set to minimum position (ventilation position). If the space temperature continues to fall with W1 energized, W2 will bring on gas heat. As the space temperature rises the W2 will de-energize and the compressors will continue to operate, until the thermostat set point is achieved de-energizing W1. If the thermostat is set to Auto, the indoor fan will de-energize and the economizer will close. If the indoor fan is set to On, the indoor fan will continue to operate and the economizer will remain at minimum position (vent position). On units equipped for 2 stages of heat, when additional heat is needed, second stage of gas heat energized through W2. The economizer damper moves to the minimum position. When the thermostat is satisfied, the damper moves to the fully closed position.

Heating, unit without economizer

Upon a request for heating from the space thermostat, terminal W1 will be energized with 24V. The indoor fan, outdoor fan C1 and C2 will be energized. The indoor fan, outdoor fans, and compressor 1, and compressor 2 are energized and reversing valves are deenergized and switch position.

If the space temperature continues to fall while W1 is energized, W2 will be energized with 24V, and gas heat will be energized.

When the space thermostat is satisfied, W2 will be de-energized first, and gas heating will be de-energized. Upon a further rise in space temperature, W1 will be de-energized.

IMPORTANT: The thermostat must be configured for Electric Heat so it will energize G with the W1 call.

Heating

The sequence of operation for heating is the same as for the unit without an economizer. The only difference is how the economizer acts. The economizer will stay at the Economizer Minimum Position while the evaporator fan is operating. The outdoor-air damper is closed when the indoor fan is not operating. Refer to the unit's service and maintenance manual for further details.

Optional Humidi-MiZer® dehumidification system

Units with the factory-installed Humidi-MiZer system option are capable of providing multiple modes of improved dehumidification as a variation of the normal cooling cycle. The Humidi-MiZer system option includes additional valves in the liquid line and discharge line of each refrigerant circuit, and a small reheat condenser coil downstream of the evaporator on the air side. Select units have a head pressure controller for variable speed

Sequence of operation (cont)



operation of the outdoor fan(s). Operation of the revised refrigerant circuit for each mode is described below.

The Humidi-MiZer system provides 3 sub-modes of operation: Cool, Reheat1, and Reheat2.

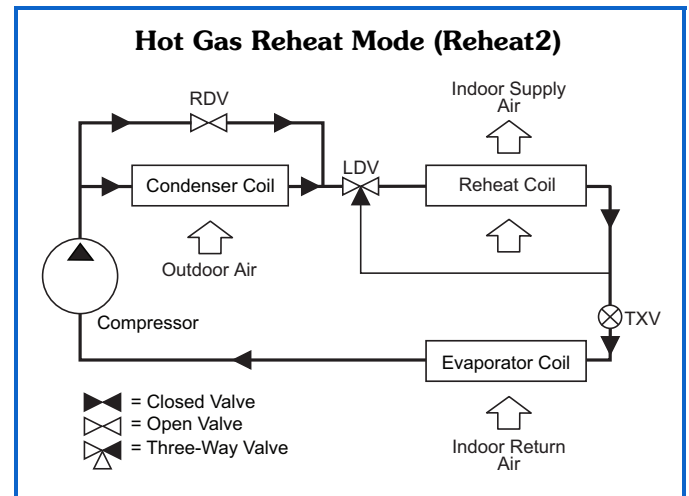
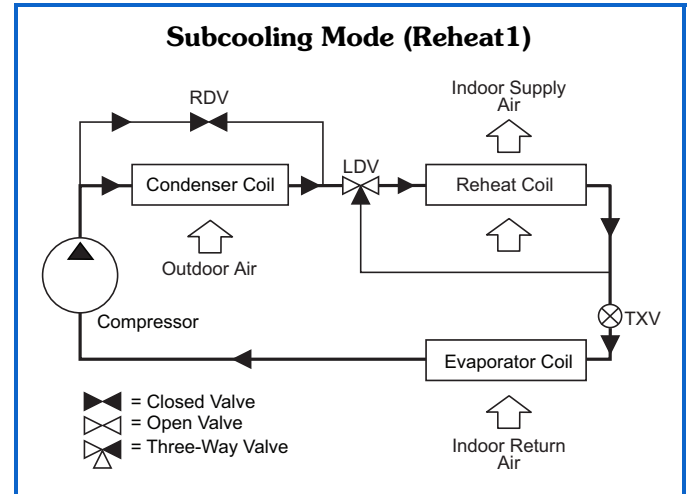
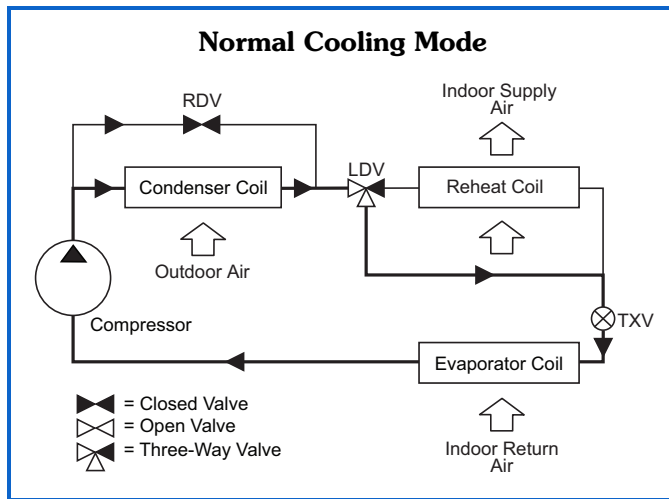
Cool — provides a normal ratio of sensible and latent cooling effect from the evaporator coil.

Subcooling Mode (Reheat1) — provides increased latent cooling while slightly reducing the sensible cooling effect.

Hot Gas Reheat Mode (Reheat2) — provides normal latent cooling but with null or minimum sensible cooling effect delivered to the space.

The Reheat1 and Reheat2 modes are available when the unit is not in a heating mode and when the system has not locked out reheat in colder ambient conditions.

Refer to the figures on the next page for piping flow diagrams.



LEGEND

- LDV** — Liquid Diverter Valve
- RDV** — Reheat Discharge Valve
- TXV** — Thermostatic Expansion Valve

Minimum operating ambient temperature (cooling)

In mechanical cooling mode, your Carrier rooftop unit can safely operate down to an outdoor ambient temperature of -10°F (-23°C) (or 0°F [-18°C] for size 07 models). It is possible to provide cooling at lower outdoor ambient temperatures by using economizers and/or less outside air.

Maximum operating ambient temperature (cooling)

The maximum operating ambient temperature for cooling mode is 125°F (52°C). While cooling operation above 125°F (52°C) may be possible, it could cause reduced performance, reduced reliability, or a protective action by the unit's internal safety devices.

Multiple motor and drive packages

Some applications need larger horsepower motors, some need more airflow, and some need both. Regardless of the case, your Carrier expert has a factory-installed combination to meet your application. A wide selection of motors are available, factory installed, to handle nearly any application.

Minimum and maximum airflow (heating and cooling)

To maintain safe and reliable operation of your rooftop, operate within the heating airflow limits during heating mode and cooling airflow limits during cooling mode. Operating above the maximum may cause blow-off, undesired airflow noise, or airflow-related problems with the rooftop unit. Operating below the minimum may cause problems with coil freeze-up and unsafe heating operation. Heating and cooling limitations differ when evaluating operating cfm. The minimum value is the HIGHER of the cooling and heating minimum cfm values published on page 7, and the maximum value is the LOWER of the cooling and heating maximum values published on page 7.

Heating-to-cooling changeover

Your unit will automatically change from heating to cooling mode when using a thermostat with an auto-changeover feature.

Airflow

All units are draw-through in cooling mode and blow-through in heating mode.

Outdoor air application strategies

Economizers reduce operating expenses and compressor run time by providing a free source of cooling and a means of ventilation to match changing needs. In fact, they should be considered for most applications. Also, consider the various economizer control methods and their benefits, as well as sensors required to accomplish your application goals. Please contact your local Carrier representative for assistance.

Motor limits, brake horsepower (bhp)

Due to the internal design of Carrier units, the air path, and specially designed motors, the full horsepower (maximum continuous bhp) band, as listed in the Fan Performance tables, can be used with the utmost confidence. There is no need for extra safety factors, as Carrier motors are designed and rigorously tested to use the entire listed bhp range without either nuisance tripping or premature motor failure.

Sizing a rooftop

Bigger is not necessarily better — while an air conditioner needs to have enough capacity to meet the design loads, it does not need excess capacity. In fact, excess capacity typically results in very poor part load performance and humidity control.

Using higher design temperatures than ASHRAE recommends for your location and adding “safety factors” to the calculated load are both signs of oversizing. Oversizing an air conditioner leads to poor humidity control, reduced efficiency, higher utility bills, larger indoor temperature swings, excessive noise, and increased wear and tear on the air conditioner.

Rather than oversizing an air conditioner, engineers should “right-size” or even slightly “under-size” air conditioners. Correctly sizing an air conditioner controls humidity better, promotes efficiency, reduces utility bills, extends equipment life, and maintains even, comfortable temperatures. Please contact your local Carrier representative for assistance.

This specification is in the “Masterformat” as published by the Construction Specification Institute. Please feel free to copy this specification directly into your building spec.



Rooftop Packaged Heat Pump

HVAC Guide Specifications

Size Range: **6 to 10 Nominal Tons**

Carrier Model Number: **50GEQ*07-12 — Three Stage**

Part 1 — (23 06 80) Schedules for Decentralized HVAC Equipment

1.01 (23 06 80.13) Decentralized Unitary HVAC Equipment Schedule:

- A. (23 06 80.13.A.) Rooftop Unit (RTU) Schedule:
Schedule is per the project specification requirements.

Part 2 — (23 07 16) HVAC Equipment Insulation

2.01 (23 07 16.13) Decentralized, Rooftop Units:

- A. (23 07 16.13.A.) Evaporator Fan Compartment:
 1. Interior cabinet surfaces shall be insulated with a minimum 1/2 in. thick, minimum 1-1/2 lb density, flexible fiberglass insulation bonded with a phenolic binder, neoprene coated on the air side.
 2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
- B. (23 07 16.13.B.) Electric Heat Compartment:
 1. Aluminum foil-faced fiberglass insulation shall be used.
 2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

Part 3 — (23 09 13) Instrumentation and Control Devices for HVAC

3.01 (23 09 13.13) Sensors and Transmitters:

- A. (23 09 13.13.A.) Thermostats:
 1. Thermostat must:
 - a. energize both “W” and “G” when calling for heat.
 - b. have capability to energize 2 or 3 different stages of cooling, and 2 different stages of heating.
 - c. be heat pump design and include capability for occupancy scheduling.

Part 4 — (23 09 23) Direct Digital Control system for HVAC

4.01 (23 09 23.13) Decentralized, Rooftop Units:

A. (23 09 23.13.A.) SystemVu™ intelligent integrated Direct Digital Control (DDC) shall provide:

1. Integrated unit operation for comfort cooling, heating ventilation as well as all monitoring, recording and reporting capabilities. Controller shall also provide diagnostics and alarms of abnormal unit operation through the controller. Controller shall have an intuitive user display and be able to be used in a standalone operation or via building automation system (BAS).
2. Quick Unit Status LEDs of: Run — meaning all systems are go, ALERT — that indicates there is currently a non-critical issue with the unit, like filters need to be replaced and FAULT — that indicates the unit has a critical issue and will possibly shut down.
3. Six large navigation keys for easy access. Navigation keys shall consist of: TEST, BACK, ENTER, and MENU along with UP and DOWN arrows.
4. Full back lit user display with 4 line by 30 character text capabilities. Display menu shall be designed to provide guided major menus and sub menus main menus provided below:
 - a. Shutdown Unit
 - b. Run Status
 - c. Settings
 - d. Alerts/Faults
 - e. Service
 - f. Inputs
 - g. Outputs
 - h. USB
5. The capability for standalone operation with conventional thermostat/sensor or use with building automation systems (BAS) of Carrier i-Vu®, BACnet®1 and Carrier Comfort Network® (CCN) systems. No special modules or boards are required for these capabilities. Has the capability to work with Equipment Touch™ and System Touch™ devices and ZS Sensors.
6. The ability to read refrigerant pressures at display or via BAS network of; Discharge Pressure and Suction Pressure. The need for traditional refrigerant gauges is not required.
7. USB Data Port for flash drive interaction. This will allow the transfer of data for uploads, downloads, perform software upgrades, back-up and restore data and file transfer data such as component number of starts and run hours.
8. Reverse Rotation Protection of compressors if field three phase wiring is misapplied.

1. Third-party trademarks and logos are the property of their respective owners.

9. Provide Service Capabilities of:
 - a. Auto run test
 - b. Manual run test
 - c. Component run hours and starts
 - d. Commissioning reports
 - e. Data logging
 - f. Alarm history
10. Economizer control and diagnostics. Set up economizer operation, receive feedback from actuator. Also meets the most recent California Title 24, ASHRAE^{®1} 90.1 and IECC^{®1} Fault Detection and Diagnostic (FDD) requirements.
11. Unit cooling operation down to -10°F (-23°C).
12. Controller shall have easy access connections around the controller perimeter area and consist of Mate-N-Lok^{®1}, terminal block and RJ style modular jack connections.
13. 365 day real time clock, 20 holiday schedules along with occupied and unoccupied scheduling.
14. Auto-Recognition for easy installation and commissioning of devices like economizers, space sensors, etc.
15. A 5°F (3°C) temperature difference between cooling and heating set points to meet the latest ASHRAE 90.1 Energy Standard.
16. Contain return air sensor, supply air sensor and outdoor air sensor to help monitor and provide data for the unit comfort operation, diagnostic and alarms.
17. Use of Carrier's field accessory Equipment Touch[™] and System Touch[™] devices.
18. Supply Air Tempering control operates the electric heat to maintain a minimum supply air temperature during conditions where very cold outdoor air causes the supply air temperature to fall below the configured Supply Air Tempering Setpoint. This occurs during periods where DCV is active and increasing the amount of outdoor air or in cases where the system is operating at very low airflow and the calculated economizer position has increased to maintain a constant ventilation rate.
19. Demand limiting in SystemVu is achieved through set point expansion. The systems heating and cooling set points are expanded in steps or levels. The degree to which the set points may be expanded is defined by the 6 demand level offsets and the 2 commanded demand limit levels.
20. 3-year limited part warranty.

Part 5 — (23 09 33) Electric and Electronic Control System for HVAC

5.01 (23 09 33.13) Decentralized, Rooftop Units:

A. (23 09 33.13.A.) General:

1. Shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-v transformer side. Transformer shall have 75 VA capability.
2. Shall utilize color-coded wiring.
3. Shall include a SystemVu Controller to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, economizer, thermostat, and low and high pressure switches.
4. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.
5. Shall include integrated defrost system to prevent excessive frost accumulation during heating duty, and shall be controlled as follows:
 - a. Defrost shall be initiated on the basis of time and coil temperature.
 - b. A 30, 60, 90, 120 minute timer shall activate the defrost cycle only if the coil temperature is low enough to indicate a heavy frost condition.
 - c. Defrost cycle shall terminate when defrost thermostat is satisfied and shall have a positive termination time of 10 minutes.
6. Defrost system shall also include:
 - a. Defrost Cycle Indicator LED.
 - b. DIP switch selectable defrost time between 30, 60, 90, and 120 minutes. Factory set at 30 minutes.
 - c. Molded plug connection to ensure proper connection.

B. (23 09 33.13.B.) Safeties:

1. Compressor Over-Temperature, Overcurrent. High Internal Pressure Differential.
2. Low Pressure Switch:
Low pressure switch shall use different color wire than the high pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
3. High Pressure Switch:
High pressure switch shall use different color wire than the low pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
4. Heating section shall be provided with the following minimum protections:
High temperature limit switches.

1. Third-party trademarks and logos are the property of their respective owners.

5. A2L Refrigerant Leak Dissipation System (SystemVu):
 - a. Leak dissipation system shall consist of control board and A2L sensor certified to UL 60335-2-40, integrated with SystemVu controller.
 - b. System shall be designed for the life of the unit.
 - c. Dissipation system shall be automatic, ship pre-wired, and require no additional field connections to function.
 - d. Refrigerant leak sensor shall be installed in UL-certified location and orientation. Sensor shall be self-correcting and resettable. Single use refrigerant leak sensor shall not be permitted.
 - e. Factory-installed dissipation system shall use onboard microprocessor and include:
 - 1) Automatic leak detection and dissipation algorithm.
 - 2) Automatic reset after a dissipation event has occurred.
 - 3) Onboard LED with flash code to indicate current unit status and hardware failures.
 - 4) Depressible "Test" button to allow for a system test and recall/reset of leak detection history.
 - 5) 24-v dry contact alarm terminal on dissipation control board to allow for external notification of leak detection.
 - 6) Ability to notify BAS system of dissipation event via readable alarm point through SystemVu.
 - 7) Recallable dissipation alarm history on SystemVu controller.
 - f. Dissipation control board shall be accessible via normal maintenance locations and LED shall be visible.
 - g. Dissipation system shall "Fail Safe" per UL requirements.
 - h. Dissipation shall allow smoke and building fire systems to override in case of event.

Part 6 — (23 09 93) Sequence of Operations for HVAC Controls

6.01 (23 09 93.13) Decentralized, Rooftop Units:

- A. (23 09 93.13.A.) INSERT SEQUENCE OF OPERATION

Part 7 — (23 40 13) Panel Air Filters

7.01 (23 40 13.13) Decentralized, Rooftop Units:

- A. (23 40 13.13.A.) Standard Filter Section:
 1. Shall consist of factory installed, low velocity, disposable 2 in. thick fiberglass filters of commercially available sizes.
 2. Unit shall use only one filter size. Multiple sizes are not acceptable.

3. Filters shall be accessible through an access panel with "no-tool" removal as described in the unit cabinet section of this specification (23 81 19.13.G).

Part 8 — (23 81 19) Self-Contained Air Conditioners

8.01 (23 81 19.13) Small-Capacity Self-Contained Air Conditioners:

A. (23 81 19.13.A.) General:

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a fully hermetic scroll compressor(s) for cooling duty and heat pump heating duty.
2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
3. Unit shall use Puron Advance™ (R-454B) refrigerant.
4. Unit shall be installed in accordance with the manufacturer's instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.

B. 23 81 19.13.B.) Quality Assurance:

1. Unit meets DOE and ASHRAE 90.1 minimum efficiency requirements.
2. Unit shall be rated in accordance with AHRI Standards 340/360.
3. Unit shall be designed to conform to ASHRAE 15.
4. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
5. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
6. Unit casing shall be capable of withstanding 500 hour salt spray exposure per ASTM B117 (scribed specimen).
7. Unit shall be designed in accordance with ISO 9001, and shall be manufactured in a facility registered by ISO 9001:2015.
8. Roof curb shall be designed to conform to NRCA Standards.
9. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
10. Unit shall be designed in accordance with UL Standards 60335-1 and 60335-2-40, including testing to withstand rain. Unit shall be IPX4 rated.
11. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.

12. Unit shall be tested to assurance level 1, ASTM D4169 to ensure shipping reliability.
- C. (23 81 19.13.C.) Delivery, Storage, and Handling:
 1. Unit shall be stored and handled per manufacturer's recommendations.
 2. Lifted by crane requires either shipping top panel or spreader bars.
 3. Unit shall only be stored or positioned in the upright position.
- D. (23 81 19.13.D.) Project Conditions:
 1. As specified in the contract.
- E. (23 81 19.13.E.) Operating Characteristics:
 1. Unit shall be capable of starting and running at 125°F (52°C) ambient outdoor temperature meeting maximum load criteria of AHRI Standard 340/360 at ±10% voltage.
 2. Compressor with standard controls shall be capable of operation down to 35°F (1.6°C) (0°F [-18°C] for size 09 models), ambient outdoor temperatures in cooling mode.
 3. Compressor with standard controls shall be capable of operation down to -10°F (-23°C) ambient outdoor temperatures or lower in heat pump heating mode.
 4. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
 5. Unit shall be factory configured for vertical - supply and return configurations.
 6. Unit shall be field convertible from vertical to horizontal airflow on all models. No special kit required except on 12 size models that require a Supply Duct Kit field installed for horizontal air flow.
 7. Unit shall be capable of mixed operation: vertical supply with horizontal return or horizontal supply with vertical return.
- F. (23 81 19.13.F.) Electrical Requirements:
 1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.
- G. (23 81 19.13.G.) Unit Cabinet:
 1. Unit cabinet shall be constructed of galvanized steel, and shall be bonderized and coated with a prepainted baked enamel finish on all externally exposed surfaces.
 2. Unit cabinet exterior paint shall be: film thickness, (dry) 0.003 in. minimum, gloss (per ASTM D523, 60°F/16°C): 60, Hardness: H-2H Pencil hardness.
 3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 340/360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 1/2 in. thick, 1 lb density, flexible fiberglass insulation, neoprene coated on the air side. Aluminum foil-faced fiberglass insulation shall be used in the heat compartment.
4. Base of unit shall have a minimum of four locations for thru-the-base gas and electrical connections (factory-installed or field-installed), standard.
5. Base Rail:
 - a. Unit shall have base rails on a minimum of 2 sides.
 - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
 - c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
 - d. Base rail shall be a minimum of 16 gauge thickness.
6. Condensate Pan and Connections:
 - a. Shall be a sloped condensate drain pan made of a corrosion resistant material.
 - b. Shall comply with ASHRAE Standard 62.
 - c. Shall use a 3/4 in. 14 NPT drain connection, possible either through the bottom or side of the drain pan. Connection shall be made per manufacturer's recommendations.
7. Top Panel:
 - a. Shall be a single piece top panel on 07-09 models and 2 piece on size 12 models.
8. Electrical Connections:
 - a. All unit power wiring shall enter unit cabinet at a single, factory prepared, knockout location.
 - b. Thru-the-base capability.
 - 1) Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
 - 2) Optional, factory approved, water-tight connection method must be used for thru-the-base electrical connections.
 - 3) No basepan penetration, other than those authorized by the manufacturer, is permitted.
9. Component Access Panels (standard):
 - a. Cabinet panels shall be easily removable for servicing.
 - b. Unit shall have one factory installed, tool-less, removable, filter access panel.
 - c. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and compressors shall have molded composite handles.
 - d. Handles shall be UV modified, composite. They shall be permanently attached, and recessed into the panel.
 - e. Screws on the vertical portion of all removable access panel shall engage into heat resistant, molded composite collars.

- f. Collars shall be removable and easily replaceable using manufacturer recommended parts.

H. (23 81 19.13.H.) Coils:

1. Standard Aluminum Fin-Copper Tube Coils:

- a. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internal helical grooved copper tubes with all joints brazed.
- b. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 60335-2-40 burst test at 1775 psig.
- c. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 60335-2-40 burst test at 1980 psig.

2. Optional Pre-coated Aluminum-Fin Condenser Coils:

- a. Shall have a durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments.
- b. Coating shall be applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube.
- c. Epoxy-phenolic barrier shall minimize galvanic action between dissimilar metals.
- d. Corrosion durability of fin stock shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117.
- e. Corrosion durability of fin stock shall be confirmed through testing to have no visible corrosion after 48 hour immersion in a room temperature solution of 5% salt, 1% acetic acid.
- f. Fin stock coating shall pass 2000 hours of the following: one week exposure in the prohesion chamber followed by one week of accelerated ultraviolet light testing. Prohesion chamber: the solution shall contain 3.5% sodium chloride and 0.35% ammonium sulfate. The exposure cycle is one hour of salt fog application at ambient followed by one hour drying at 95°F (35°C).

3. Optional Copper-Fin Evaporator and Condenser Coils:

- a. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
- b. Galvanized steel tube sheets shall not be acceptable.
- c. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

4. Optional E-coated Aluminum-Fin Evaporator and Condenser Coils:

- a. Shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins.
- b. Coating process shall ensure complete coil encapsulation of tubes, fins and headers.
- c. Color shall be high gloss black with gloss per ASTM D523.
- d. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges.
- e. Superior hardness characteristics of 2H per ASTM D3363 and cross-hatch adhesion of 4B-5B per ASTM D3359.
- f. Impact resistance shall be up to 160 in.-lb (ASTM D2794).
- g. Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247 and ASTM D870).
- h. Corrosion durability shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117.

I. (23 81 19.13.I.) Refrigerant Components:

1. Refrigerant circuit shall include the following control, safety, and maintenance features:

- a. Thermostatic Expansion Valve (TXV) shall help provide optimum performance across the entire operating range. Shall contain removable power element to allow change out of power element and bulb without removing the valve body.
- b. Refrigerant filter drier — Solid core design with pre and post-filter service gauge connections for filter diagnostics and maintenance.
- c. Service gauge connections on suction and discharge lines.
- d. Pressure gauge access through a specially designed access port in the top panel of the unit.

2. There shall be gauge line access port in the skin of the rooftop.

- a. The plug shall be easy to remove and replace.
- b. When the plug is removed, the gauge access port shall enable maintenance personnel to route their pressure gauge lines.
- c. This gauge access port shall facilitate correct and accurate condenser pressure readings by enabling the reading with the compressor access panel on.

3. Compressors:

- a. Unit shall use tandem scroll compressor assembly on a single refrigeration circuit with

two stages of cooling for efficient comfort cooling operation.

- b. Evaporator coils shall be a full active design to help better control latent removal and minimize unconditioned bypass air.
- c. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
- d. Compressors shall be internally protected from high discharge temperature conditions.
- e. Compressors shall be protected from an over-temperature and over-ampereage conditions by an internal, motor overload device.
- f. Compressor shall be factory mounted on rubber grommets.
- g. Compressor motors shall have internal line break thermal, current overload and high pressure differential protection.
- h. Crankcase heaters shall not be required for normal operating range, unless required by the manufacturer due to refrigerant charge limits.

J. (23 81 19.13.J.) Filter Section:

- 1. Filters access is specified in the unit cabinet section of this specification.
- 2. Filters shall be held in place by a pivoting filter tray, facilitating easy removal and installation.
- 3. Shall consist of factory installed, low velocity, throw-away 2 in. thick fiberglass filters.
- 4. Filters shall be standard, commercially available sizes.
- 5. Only one size filter per unit is allowed.

K. (23 81 19.13.K.) Evaporator Fan and Motor with EcoBlue™ Technology:

- 1. Direct Drive Evaporator Fan Motor:
 - a. Shall be an ECM motor design.
 - b. Shall be direct drive design for all static options.
 - c. Shall have permanently lubricated bearings.
 - d. Shall have inherent automatic-reset thermal overload protection.
 - e. Shall have slow ramp up to speed capabilities.
 - f. Shall require no fan/motor belts for operation, adjustments and or initial fan speed setup.
 - g. Fan set up via the SystemVu™ controller shall eliminate the need of removal of blower access door, required on conventional belt drive systems.
 - h. Shall be internally protected from electrical phase reversal.
- 2. Evaporator Fan:
 - a. Speed shall be easily through SystemVu controller.
 - b. Shall provide 3 stage cooling capacity control, the indoor fan speed is automatically

controlled to meet the code-compliant <40% low fan speed and 100% at full fan speed operation.

- c. Blower fan shall be a vane axial fan design with fan assembly secured directly to ECM motor. Additional shafts, belts, pulleys/sheaves, and bearing blocks to drive fan shall not be permitted or necessary.
 - d. Additional variable frequency drive to control fan motor speed shall not be permitted or necessary. All speed control electronics must be on board fan motor assembly.
 - e. Shall be constructed of a cast aluminum stator and high impact composite material on rotor and air inlet casing.
 - f. Shall be a patented/pending design with a corrosion resistant material.
 - g. Fan assembly design shall be integrated to fan deck, dynamically balanced, and require no additional vibration isolation for normal operation.
 - h. Shall have slow ramp up to speed capabilities to help reduce sound and comfort issues typically associated with single speed belt drive systems.
 - i. Shall be a slide out design with removal of a few support brackets.
3. Shall include an easily accessible SystemVu MBB (main base board) to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, economizer, thermostat, DDC control options, and low and high pressure switches. Controller shall also provide a means to adjust the indoor fan speed using the keypad on the SystemVu interface.

L. (23 81 19.13.L.) Condenser Fans and Motors:

- 1. Condenser Fan Motors:
 - a. Shall be a totally enclosed motor.
 - b. Shall use permanently lubricated bearings.
 - c. Shall have inherent thermal overload protection with an automatic reset feature.
 - d. Shall use a shaft-down design on all sizes.
- 2. Condenser Fans:
 - a. Shall be a direct-driven propeller type fan.
 - b. Shall have galvalum blades riveted to steel spider that have corrosion-resistant properties and shall be dynamically balanced.

M. (23 81 19.13.M.) Special Features Options and Accessories:

- 1. Integrated EconoMi\$er® 2 Low Leak Rate Models.
 - a. Integrated, gear driven opposing modulating blade design type capable of simultaneous economizer and compressor operation.

- b. Independent modules for vertical or horizontal return configuration shall be available. Vertical return modules shall be available as a factory installed option.
 - c. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable.
 - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
 - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
 - f. Low leak rate shall be equipped with dampers not to exceed 2% leakage at 1 in. wg pressure differential.
 - g. Economizer controller on EconoMi\$er 2 models with SystemVu controllers shall be a 4-20 mA design controlled directly by the controller. SystemVu controllers meet California Title 24, ASHRAE 90.1, and IECC Fault Detection and Diagnostic (FDD) requirements.
 - h. Shall be capable of introducing up to 100% outdoor air.
 - i. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air and contain seals that meet ASHRAE 90.1 requirements.
 - j. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - k. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory installed only. Outdoor air sensor setpoint shall be adjustable and shall range from 40°F to 100°F (4°C to 38°C). Additional sensor options shall be available as accessories.
 - l. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 100%, with a range of 0% to 100%.
 - m. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
 - n. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - o. Economizer controller shall accept a 0 to 10 vdc CO₂ sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.
 - p. Compressor lockout temperature on POL224 control is adjustable from -45°F to 80°F (-43°C to 26°C), set at a factory default of 32°F (0°C).
 - q. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - r. Contains LED indication for free cooling, sensor, and damper operation.
2. Integrated EconoMi\$er 2 Ultra Low Leak Rate Models.
- a. Integrated, gear driven opposing modulating blade design type capable of simultaneous economizer and compressor operation.
 - b. Independent modules for vertical or horizontal return configuration shall be available. Vertical return modules shall be available as a factory-installed option.
 - c. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable.
 - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
 - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
 - f. Ultra Low Leak design meets California Title 24 section 140.4 and ASHRAE 90.1 requirements for 4 cfm per sq ft on the outside air dampers and 10 cfm per sq ft on the return dampers.
 - g. Economizer controller on EconoMi\$er 2 models with SystemVu controllers shall be a 4-20 mA design controlled directly by the controller. SystemVu controllers meet California Title 24, ASHRAE 90.1, and IECC Fault Detection and Diagnostic (FDD) requirements.
 - h. Shall be capable of introducing up to 100% outdoor air.
 - i. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air and contain seals that meet ASHRAE 90.1 requirements.
 - j. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - k. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory installed only. Outdoor air sensor setpoint shall be adjustable and shall range from 40°F to 100°F (4°C to 38°C). Additional sensor options shall be available as accessories.
 - l. The economizer controller shall also provide control of an accessory power exhaust unit

function. Factory set at 100%, with a range of 0% to 100%.

- m. The economizer shall maintain minimum air-flow into the building during occupied period and provide design ventilation rate for full occupancy.
 - n. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - o. Economizer controller shall accept a 0 to 10 vdc CO₂ sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.
 - p. Compressor lockout temperature on POL224 control is adjustable from -45°F to 80°F (-43°C to 26°C), set at a factory default of 32°F (0°C).
 - q. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - r. Contains LED indication for free cooling, sensor, and damper operation.
3. Two-Position Damper (field-installed only):
- a. Damper shall be a Two-Position Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
 - b. Damper shall include adjustable damper travel from 25% to 100% (full open).
 - c. Damper shall include single or dual blade, gear driven dampers and actuator motor.
 - d. Actuator shall be direct coupled to damper gear. No linkage arms or control rods shall be acceptable.
 - e. Damper will admit up to 100% outdoor air for applicable rooftop units.
 - f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
 - g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
 - h. Outside air hood shall include aluminum water entrainment filter.
4. Manual Damper (field-installed only):
- a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 25% or 50% outdoor air for year round ventilation.
5. Condenser Coil Hail Guard Assembly (factory or field installed):
- a. Shall protect against damage from hail.
 - b. Shall be louvered type.
6. Unit-Mounted, Non-Fused Disconnect Switch:
- a. Available on 6 to 8.5 ton units with FLA of 80 amps or less, or 10 ton units with FLA of

100 amps or less (460/575V) or 200 amps or less (208/230V).

- b. Switch shall be factory installed, internally mounted.
 - c. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
 - d. Shall be accessible from outside the unit.
 - e. Shall provide local shutdown and lockout capability.
 - f. Sized **only** for the unit as ordered from the factory. Does not accommodate field-installed devices.
7. HACR Breaker:
- a. These manual reset devices provide overload and short circuit protection for the unit. Factory wired and mounted with the units, with access cover to help provide environmental protection. On 575V applications, HACR breaker can only be used with WYE power distribution systems. Use on Delta power distribution systems is prohibited.
 - b. Sized **only** for the unit as ordered from the factory. Does not accommodate field-installed devices.
8. Convenience Outlet:
- a. Factory-Installed Powered Convenience Outlet.
 - 1) Outlet shall be powered from main line power to the rooftop unit.
 - 2) Outlet shall be powered from line side or load side of disconnect by installing contractor, as required by code. If outlet is powered from load side of disconnect, unit electrical ratings shall be UL certified and rated for additional outlet amperage.
 - 3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
 - 4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
 - 5) Voltage required to operate convenience outlet shall be provided by a factory installed step-down transformer.
 - 6) Outlet shall be accessible from outside the unit.
 - 7) Outlet shall include a field installed "Wet in Use" cover.
 - b. Factory-Installed Non-Powered Convenience Outlet.
 - 1) Outlet shall be powered from a separate 115/120-v power source.
 - 2) A transformer shall not be included.
 - 3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.

- 4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
- 5) Outlet shall be accessible from outside the unit.
- 6) Outlet shall include a field installed "Wet in Use" cover.
- c. Field-Installed Non-Powered Convenience Outlet.
 - 1) Outlet shall be powered from a separate 115/120-v power source.
 - 2) A transformer shall not be included.
 - 3) Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
 - 4) Outlet shall include 20 amp GFI receptacles. This kit provides a flexible installation method which allows code compliance for height requirements of the GFCI outlet from the finished roof surface as well as the capability to relocate the outlet to a more convenient location.
 - 5) Outlet shall be accessible from outside the unit.
 - 6) Outlet shall include a field installed "Wet in Use" cover.
9. Thru-the-Base Connectors:
 - a. Shall provide connectors to permit electrical connections to be brought to the unit through the unit basepan.
 - b. Minimum of four connection locations per unit.
10. Supply Duct Cover (size 12 only):
 - a. Required when field converting the factory standard vertical duct supply to horizontal duct supply configuration. One required per unit.
11. Propeller Power Exhaust:
 - a. Power exhaust shall be used in conjunction with an integrated economizer.
 - b. Independent modules for vertical or horizontal return configurations shall be available.
 - c. Horizontal power exhaust shall be mounted in return ductwork.
 - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0 to 100% adjustable setpoint on the economizer control.
12. Roof Curbs (Vertical):
 - a. Full perimeter roof curb with exhaust capability providing separate air streams for energy recovery from the exhaust air without supply air contamination.
 - b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
 - c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
13. Outdoor Air Enthalpy Sensor:

The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.
14. Return Air Enthalpy Sensor:

The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
15. Indoor Air Quality (CO₂) Sensor:
 - a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
 - b. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The setpoint shall have adjustment capability.
16. Smoke Detectors:
 - a. Shall be a 4-wire controller and detector.
 - b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
 - c. Shall use magnet-activated test/reset sensor switches.
 - d. Shall have tool-less connection terminal access.
 - e. Shall have a recessed momentary switch for testing and resetting the detector.
 - f. Controller shall include:
 - 1) One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
 - 2) Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
 - 3) One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
 - 4) Capable of direct connection to two individual detector modules.
 - 5) Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
17. Winter Start Kit:
 - a. Is not compatible with SystemVu controls.
18. Time Guard Control Circuit:
 - a. Shall prevent compressor short-cycling by providing a 5-minute delay (± 2 minutes)

Guide specifications (cont)

- before restarting a compressor after shut-down for any reason.
- b. One device shall be required per compressor.
19. Hinged Access Panels:
- a. Shall provide easy access through integrated quarter turn latches.
- b. Shall be on major panels of: filter, control box, fan motor, and compressor.
20. Condensate Overflow Switch:
- This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:
- a. Indicator light — solid red (more than 10 seconds on water contact — compressors disabled), blinking red (sensor disconnected).
- b. 10 second delay to break — eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping).
- c. Disables the compressors operation when condensate plug is detected, but still allows fans to run for economizer.
21. Foil Faced Insulation:
- Throughout unit cabinet air stream, non-fibrous and cleanable foil faced insulation is used.
22. 4 in. MERV-13 Return Air Filters (factory-installed only):
- a. Factory option to upgrade standard unit filters to 4 in. MERV-13 filters.
- b. Upgraded option shall include factory-installed 4 in. filter rack.
- c. Shall not be compatible with horizontal units with field-installed economizers.
23. 4 in. Return Air Rack (field-installed only):
- a. Accessory kit is designed to hold 4 in. MERV-8 or MERV-13 filters. Filters not included in kit.
- b. Shall not be compatible with horizontal units with field installed economizers.
24. 2 in. MERV-13 Return Air Filters:
- a. Accessory kit to field upgrade standard unit filters to 2 in. MERV-13 filters.
- b. Correct size and quantity of filters shall ship in a single box
25. 2 in. MERV-8 Return Air Filters:
- a. Accessory kit to field upgrade standard unit filters to 2 in. MERV-8 filters.
- b. Correct size and quantity of filters shall ship in a single box.
26. Phase Monitor Control:
- a. Shall monitor the sequence of 3-phase electrical system to provide a phase reversal protection.
- b. Shall monitor the 3-phase voltage inputs to provide a phase loss protection for the three phase device.
- c. Will work on either a Delta or Wye power connection.
27. Horn/Strobe Annunciator:
- a. Provides an audible/visual signaling device for use with factory-installed option or field installed accessory smoke detectors.
- b. Requires installation of a field-supplied 24-v transformer suitable for 4.2 VA (AC) or 3.0 VA (DC) per horn/strobe accessory.
- c. Requires field-supplied electrical box, North American 1-gang box, 2 in. x 4 in. (51 mm x 102 mm).
- d. Shall have a clear colored lens.
28. Electric Heat:
- a. Heating Section:
- 1) Heater element open coil resistance wire, nickel-chrome alloy, 0.29 in. inside diameter, strung through ceramic insulators mounted on metal frame. Coil ends are staked and welded to terminal screw slots.
- 2) Heater assemblies are provided with integral fusing for protection of internal heater circuits. Auto reset thermo limit controls, magnetic heater contactors (24-v coil), and terminal block all mounted in electric heater control box (minimum 18 ga galvanized steel) attached to end of heater assembly.
29. High Short Circuit Current Rating (SCCR) Protection:
- a. Factory-installed option provides high short circuit current protection to compressor and all indoor and outdoor fan motors rated at 10 kA against high potential fault current situations. (Standard unit comes with 5 kA rating.)
- b. This option is not available on 50GEQ*09 units, 575-v units, or units with factory-installed powered convenience outlet, low ambient controls, phase loss monitor/protection, HACR breaker, or non-fused disconnect.