

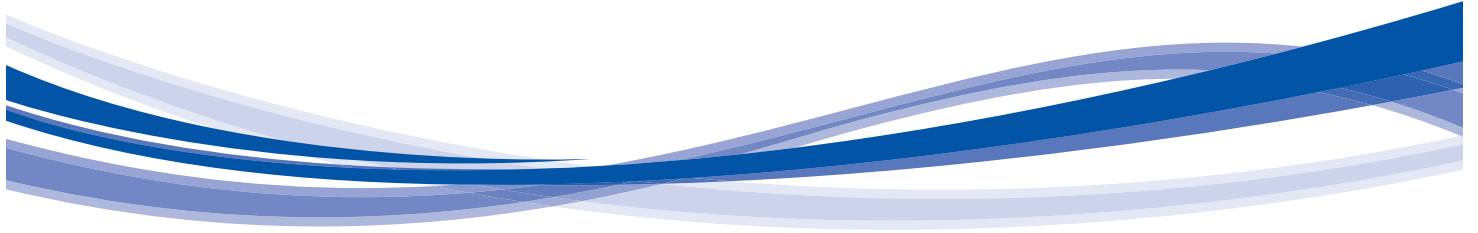


Turn to the experts

Product Data

WeatherMaster® Single Packaged Rooftop

3 to 5 Nominal Tons



ecoblue™  technology



48/50GC**04, 05, 06

48GC: Single-Package Gas Heating/Electric Cooling Rooftop Units

50GC: Electric Cooling Rooftop Units with Optional Electric Heat
with Puron® Refrigerant (R-410A)

The New Carrier WeatherMaster® rooftop units (RTU) with EcoBlue™ Technology were designed by customers for customers and integrate new technology to provide value added benefits never seen in this type of equipment before.

New major design features include:

- Patent pending, Industry’s first efficient indoor fan system using Vane Axial Fan technology – with electric commutated variable speed motor.
- Reliable two stage scroll compressor on all sizes.
- Upgraded unit control board with intuitive indoor fan adjustment.
- Reliable copper tube/aluminum fin condenser coil with 5/16-in. tubing to help reduce refrigerant charge verses prior designs.
- New outdoor fan system with rugged – lightweight high impact composite fan blade

48/50GC WeatherMaster® units up to 5 tons are specifically designed to fit on Carrier roof curbs that were installed back to 1989, which makes replacement easy and eliminates the need for curb adapters or changing utility connections.

Two stage cooling capacity control delivers SEERs up 16.0. All models are capable of either vertical or horizontal airflow.

The Carrier rooftop unit (RTU) was designed by customers for customers. 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 3 to 5 ton WeatherMaster Carrier rooftop unit (RTU) provides optimum comfort and control from a packaged rooftop.

Value-added features include:

- optional Humidi-MiZer® adaptive dehumidification system for improved part load humidity performance
- Puron® refrigerant (R-410A)
- single point gas and electrical connections
- optional fully integrated SystemVu™ controls
- RTU Open controller for BACnet¹, LonWorks², Modbus³ and Johnson Controls N2
- optional fully insulated cabinet with optional foil faced insulation
- TXV refrigerant metering system
- Scroll compressors with internal line-break overload protection
- Units come with an easy access tool-less filter door. Filter track tilts out for filter removal and replacement. All filters are the same size in each unit.

Installation ease

All WeatherMaster units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected

1. BACnet is a registered trademark of ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers).
2. LonWorks is a registered trademark of Echelon Corporation.
3. Modbus is a registered trademark of Schneider Electric.

job-site complications. Lighter units make for easy replacement. Simple, fast plug-in connections to the standard integrated unit control board (UCB). Clearly labeled connections points to reduce installation time. Also, a large control box provides room to work and room to mount Carrier accessory controls.

Easy to maintain

With the new EcoBlue Vane Axial fan system and direct drive ECM motor — there is no longer a need to adjust belts or pulleys as in past designs. This frees up maintenance and installation time.

Easy access handles by Carrier provide quick and easy access to all normally serviced components. Our “no-strip” screw system has superior holding power and guides screws into position while preventing the screw from stripping the unit’s metal.

Sloped, corrosion resistant composite drain pan sheds water; and won’t rust.

Easy to use

The newly re-designed Unit Control Board by Carrier puts all connections and troubleshooting points in one convenient place. Most low voltage connections are made to the same board and make it easy to access it. Setting up the fan is simple by an intuitive switch and rotary dial arrangement. Carrier rooftops have high and low pressure switches, a filter drier, and 2-in. filters standard.

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EcoBlue Technology

Direct drive EcoBlue™ Technology indoor fan system uses Vane Axial fan design and electrically commutated motors.

This new Vane Axial design over past belt drive systems has 75% fewer moving parts, uses up to 40% less energy and has no fan belts, blower bearings and shaft.

Streamlined control and integration

Carrier controllers make connecting WeatherMaster® rooftops into existing building automation systems easy. The units are compatible with conventional

thermostat controls, SystemVu™ controls and Carrier RTU Open multi-protocol controller.

Operating efficiency and flexibility

The 48/50GC rooftops exceed ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016, IECC¹ (International Energy Conservation Code) IECC-2018 minimum efficiency requirements.

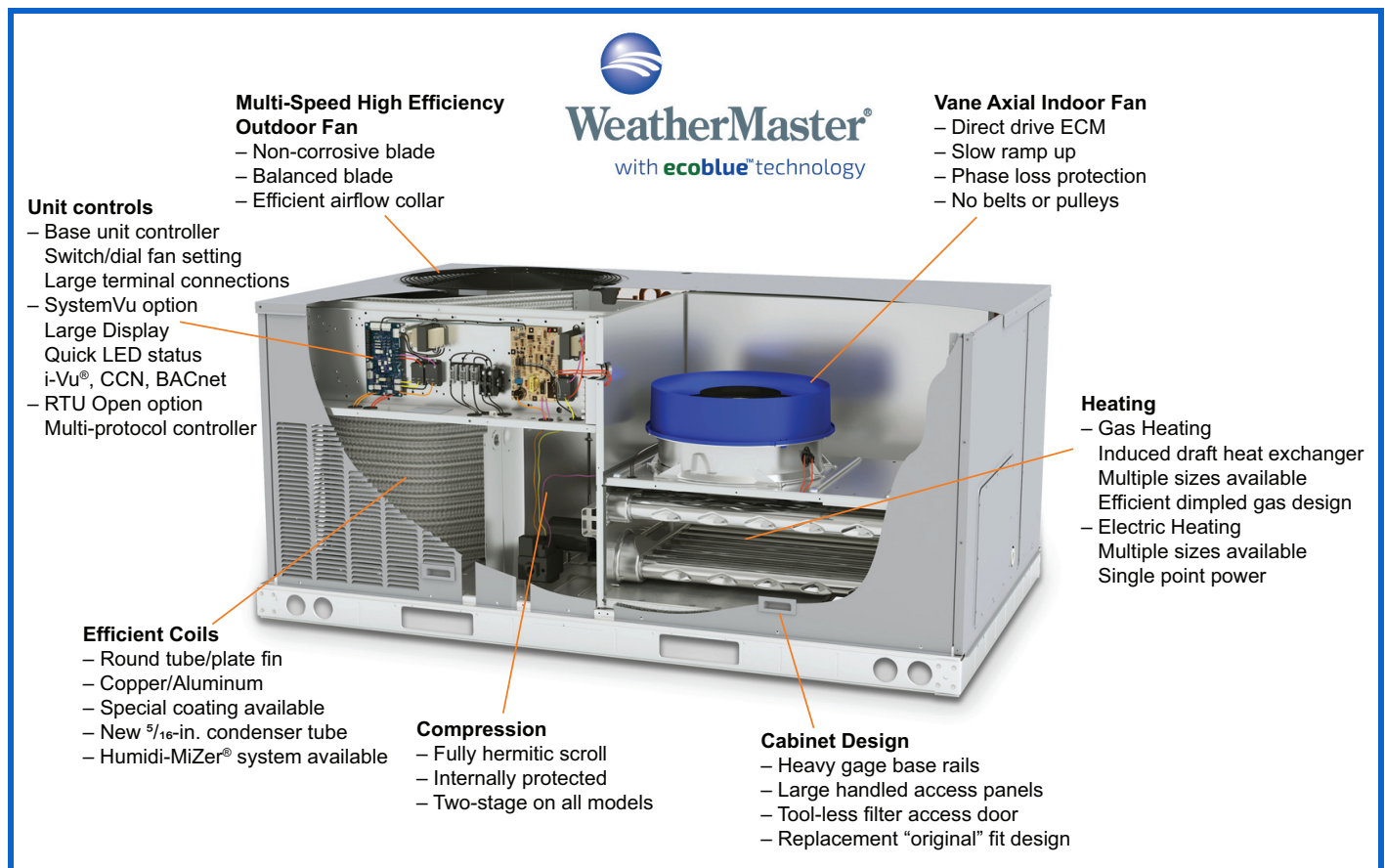
1. IECC is a registered trademark of the International Code Council, Inc.

Field convertible airflow

All WeatherMaster 3 to 5 ton units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected job-site.

Comfort control

Carrier's patented Humidi-MiZer® adaptive dehumidification system is an all-inclusive factory-installed option on gas heating/electric cooling and electric cooling/electric heat models. This system provides reliable, flexible operation to meet indoor part load sensible and latent requirements.



48GC MODEL NUMBER NOMENCLATURE

| | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| Position: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Example: | 4 | 8 | G | C | D | M | 0 | 4 | A | 2 | A | 5 | - | 0 | A | 0 | A | 0 |

Unit Heat Type
48 - Gas Heat Packaged Rooftop

Model Series - WeatherMaster®
GC - 16 SEER Efficiency

Heat Options
D = Low Gas Heat
E = Medium Gas Heat
F = High Gas Heat
L = Low NOx – Low Gas Heat*
S = Low Heat w/ Stainless Steel Exchanger
R = Medium Heat w/ Stainless Steel Exchanger
T = High Heat w/ Stainless Steel Exchanger
* Low NOx models include – Stainless Steel HX

Refrig. Systems Options
M = Two Stage Cooling
N = Two Stage Cooling with Humidi-MiZer® system (includes Low Ambient control)
P = Two Stage Cooling with Low Ambient control

Cooling Tons
04 - 3 ton
05 - 4 ton
06 - 5 ton

Sensor Options
A = None
B = RA (Return Air) Smoke Detector
C = SA (Supply Air) Smoke Detector
D = RA + SA Smoke Detector
E = CO₂
F = RA Smoke Detector and CO₂
G = SA Smoke Detector and CO₂
H = RA + SA Smoke Detector and CO₂
J = Condensate Overflow Switch (electro-mechanical controls only)
K = Condensate Overflow Switch and RA Smoke Detector
L = Condensate Overflow Switch and RA and SA Smoke Detectors
M = Condensate Overflow Switch and SA Smoke Detector

Indoor Fan Options
1 = Direct Drive EcoBlue™ - Standard Static
2 = Direct Drive EcoBlue - Medium Static
3 = Direct Drive EcoBlue - High Static

Coil Options - Round Tube/Plate Fin Condenser Coil (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
E = Cu/Cu - Al/Cu
F = Cu/Cu - Cu/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

Factory Assigned
0 = Standard
1 = LTL

Electrical Options
A = None
B = HACR Breaker
C = Non-Fused Disconnect (NFD)
D = Thru-The-Base (TTB) Connections
F = Non-Fused Disconnect and TTB
N = Phase Monitor Protection
P = Phase Monitor and HACR
Q = Phase Monitor and NFD
R = Phase Monitor and TTB
S = Phase Monitor and HACR and TTB
T = Phase Monitor and NFD and TTB

Service Options
0 = None
1 = Unpowered Convenience Outlet
2 = Powered Convenience Outlet
3 = Hinged Access Panels
4 = Hinged Access Panels and Unpowered Convenience Outlet
5 = Hinged Panels and Powered Convenience Outlet
6 = MERV 8 Filters
C = Foil Faced Insulation

Intake / Exhaust Options
A = None
B = Temperature Economizer w/ Barometric Relief
F = Enthalpy Economizer w/ Barometric Relief
U = Temperature Ultra Low Leak Economizer w/ Barometric Relief
W = Enthalpy Ultra Low Leak Economizer w/ Barometric Relief

Base Unit Controls
0 = Electro-mechanical Controls - can be used with field-installed W7212 EconoMiSer® IV (Non-Fault Detection and Diagnostic)
2 = RTU Open Multi-Protocol Controller
3 = SystemVu™ Controls
6 = Electro-mechanical Controls - can be used with W7220 EconoMiSer X (with Fault Detection and Diagnostic)

Design Revision
- = Factory Design Revision

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

Note: On single phase (-3 voltage code) models, the following are not available as a factory-installed option:
- Humidi-MiZer System
- Coated Coils or Cu Fin Coils
- Louvered Hail Guards
- Economizer
- Powered 115 Volt Convenience Outlet



50GC 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 | C | - | M | 0 | 4 | A | 1 | A | 5 | - | 0 | A | 0 | A | 0 |

Unit Heat Type

50 - Electric Heat
Packaged Rooftop

Model Series - WeatherMaster®

GC - 16 SEER Efficiency

Heat Options

- = No Heat
A = Low Electric Heat
B = Medium Electric Heat
C = High Electric Heat

Refrig. Systems Options

M = Two Stage Cooling Models
N = Two Stage Cooling Models with Humidi-MiZer® system (includes Low Ambient control)
P = Two Stage Cooling Models with Low Ambient control

Cooling Tons

04 - 3 ton
05 - 4 ton
06 - 5 ton

Sensor Options

A = None
B = RA (Return Air) Smoke Detector
C = SA (Supply Air) Smoke Detector
D = RA + SA Smoke Detector
E = CO₂
F = RA Smoke Detector and CO₂
G = SA Smoke Detector and CO₂
H = RA + SA Smoke Detector and CO₂
J = Condensate Overflow Switch
K = Condensate Overflow Switch and RA Smoke Detectors
L = Condensate Overflow Switch and RA and SA Smoke Detectors
M = Condensate Overflow Switch and SA Smoke Detectors

Indoor Fan Options

1 = Direct Drive – EcoBlue – Standard Static
2 = Direct Drive – EcoBlue – Medium Static
3 = Direct Drive – EcoBlue – High Static

Coil Options (RTPF) (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
E = Cu/Cu - Al/Cu
F = Cu/Cu - Cu/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

Factory Assigned

0 = Standard
1 = LTL

Electrical Options

A = None
B = HACR Breaker
C = Non-Fused Disconnect (NFD)
D = Thru-The-Base Connections (TTB)
E = HACR and Thru-The-Base Connections
F = Non-Fused Disconnect and TTB
N = Phase Monitor Protection
P = Phase Monitor and HACR
Q = Phase Monitor and NFD
R = Phase Monitor and TTB
S = Phase Monitor and HACR and TTB
T = Phase Monitor and NFD and TTB

Service Options

0 = None
1 = Unpowered Convenience Outlet
2 = Powered Convenience Outlet
3 = Hinged Panels
4 = Hinged Panels and Unpowered Convenience Outlet
5 = Hinged Panels and Powered Convenience Outlet
6 = MERV 8 Filters
C = Foil Faced Insulation

Intake / Exhaust Options

A = None
B = Temperature Economizer w/ Barometric Relief
F = Enthalpy Economizer w/ Barometric Relief
U = Temperature Ultra Low Leak Economizer w/ Barometric Relief
W = Enthalpy Ultra Low Leak Economizer w/ Barometric Relief

Base Unit Controls

0 = Electro-mechanical controls - can be used with field-installed W7212 EconoMi\$er® IV (Non-Fault Detection and Diagnostic)
2 = RTU Open Multi-Protocol Controller
3 = SystemVu™ Controller
6 = Electro-mechanical - can be used with W7220 EconoMi\$er X (with Fault Detection and Diagnostic)

Design Revision

- = Factory Design Revision

Voltage

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

Note: On single phase (-3 voltage code) models, the following are not available as factory-installed options:

- Humidi-MiZer® System
- Coated Coils or Cu Fin Coils
- Louvered Hail Guards
- Economizer
- Powered 115 Volt Convenience Outlet

48GC AHRI RATINGS

| 48GC UNIT | COOLING STAGES | NOMINAL CAPACITY (TONS) | NET COOLING CAPACITY (MBH) | TOTAL POWER (kW) | SEER | EER |
|-----------|----------------|-------------------------|----------------------------|------------------|------|------|
| 48GC*M04 | 2 | 3 | 35.2 | 2.9 | 16.0 | 12.5 |
| 48GC*M05 | 2 | 4 | 47.0 | 3.9 | 16.0 | 12.0 |
| 48GC*M06 | 2 | 5 | 60.0 | 5.0 | 16.0 | 12.5 |

LEGEND

- AHRI** — Air-Conditioning, Heating and Refrigeration Institute
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio
SEER — Seasonal Energy Efficiency Ratio

NOTES:

1. Rated in accordance with AHRI Standards 210/240.
2. 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.
3. All 48GC units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2018 (Department of Energy) Energy Standard for minimum SEER and EER requirements.
4. 48GC units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.



50GC AHRI RATINGS

| 50GC UNIT | COOLING STAGES | NOMINAL CAPACITY (TONS) | NET COOLING CAPACITY (MBH) | TOTAL POWER (kW) | SEER | EER |
|-----------|----------------|-------------------------|----------------------------|------------------|------|------|
| 50GC*M04 | 2 | 3 | 35.2 | 2.9 | 16.0 | 12.5 |
| 50GC*M05 | 2 | 4 | 47.0 | 3.9 | 16.0 | 12.2 |
| 50GC*M06 | 2 | 5 | 60.0 | 4.9 | 16.0 | 12.5 |

LEGEND

- AHRI** — Air-Conditioning, Heating and Refrigeration Institute
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio
SEER — Seasonal Energy Efficiency Ratio

NOTES:

1. Rated in accordance with AHRI Standards 210/240.
2. 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.
3. All 50GC units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2018 (Department of Energy) Energy Standard for minimum SEER and EER requirements.
4. 50GC units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.





SOUND RATINGS TABLE

| 48/50GC UNIT | COOLING STAGES | OUTDOOR SOUND (dB) AT 60 Hz | | | | | | | | |
|--------------|----------------|-----------------------------|------|------|------|------|------|------|------|------|
| | | A-WEIGHTED | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| M04 | 2 | 79 | 85.6 | 84.7 | 80.5 | 76.0 | 72.4 | 68.0 | 62.8 | 59.3 |
| M05 | 2 | 79 | 85.6 | 84.7 | 80.5 | 76.0 | 72.4 | 68.0 | 62.8 | 59.3 |
| M06 | 2 | 79 | 85.6 | 84.7 | 80.5 | 76.0 | 72.4 | 68.0 | 62.8 | 59.3 |

LEGEND

dB — Decibel

NOTES:

1. Outdoor sound data is measured in accordance with AHRI.
2. 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.
3. 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.

Capacity ratings (cont)



MINIMUM - MAXIMUM AIRFLOW RATINGS (CFM) — NATURAL GAS AND PROPANE

| UNIT | HEAT LEVEL | VOLTAGE | COOLING | | | | HEATING* | |
|----------|------------|---------|---------------------|--------------------------------------|---------------------------------------|---------------------|---------------------|---------------------|
| | | | MINIMUM AIRFLOW CFM | MINIMUM 2- SPEED AIRFLOW (LOW SPEED) | MINIMUM 2- SPEED AIRFLOW (HIGH SPEED) | MAXIMUM AIRFLOW CFM | MINIMUM AIRFLOW CFM | MAXIMUM AIRFLOW CFM |
| 48GC**04 | LOW | 1 PHASE | 900 | 675 | 900 | 1500 | 890 | 1950 |
| | MED | | | | | | 800 | 1520 |
| | HIGH | | | | | | N/A | N/A |
| 48GC**05 | LOW | 1 PHASE | 1200 | 900 | 1200 | 2000 | 890 | 2440 |
| | MED | | | | | | 1050 | 2280 |
| | HIGH | | | | | | 1220 | 2170 |
| 48GC**06 | LOW | 1 PHASE | 1500 | 1125 | 1500 | 2500 | 890 | 3250 |
| | MED | | | | | | 1050 | 2730 |
| | HIGH | | | | | | 1220 | 2790 |
| 48GC**04 | LOW | 3 PHASE | 900 | 675 | 900 | 1500 | 910 | 2010 |
| | MED | | | | | | 960 | 1160 |
| | HIGH | | | | | | N/A | N/A |
| 48GC**05 | LOW | 3 PHASE | 1200 | 900 | 1200 | 2000 | 910 | 2010 |
| | MED | | | | | | 1250 | 2330 |
| | HIGH | | | | | | 1390 | 2220 |
| 48GC**06 | LOW | 3 PHASE | 1500 | 1125 | 1500 | 2500 | 910 | 2510 |
| | MED | | | | | | 1250 | 2720 |
| | HIGH | | | | | | 1390 | 2780 |

* Heating rating values are identical for aluminum heat exchangers and stainless steel heat exchangers.

MINIMUM - MAXIMUM AIRFLOW RATINGS (CFM) — COOLING UNITS AND ACCESSORY ELECTRIC HEAT

| UNIT | COOLING | | | | ELECTRIC HEAT* | |
|----------|---------------------|-------------------------------------|--------------------------------------|---------------------|---------------------|---------------------|
| | MINIMUM AIRFLOW CFM | MINIMUM 2-SPEED AIRFLOW (LOW SPEED) | MINIMUM 2-SPEED AIRFLOW (HIGH SPEED) | MAXIMUM AIRFLOW CFM | MINIMUM AIRFLOW CFM | MAXIMUM AIRFLOW CFM |
| 50GC**04 | 900 | 675 | 900 | 1500 | 900 | 1500 |
| 50GC**05 | 1200 | 900 | 1200 | 2000 | 1200 | 2000 |
| 50GC**06 | 1500 | 1125 | 1500 | 2500 | 1500 | 2500 |

* Electric heat modules are available as both factory-installed options or field-installed accessories for 50GC units.



HEAT RATING TABLE — NATURAL GAS AND PROPANE

| 48GC UNIT | | GAS HEAT | AL/SS HEAT EXCHANGER | | TEMPERATURE RISE (°F) | THERMAL EFFICIENCY (%) | AFUE EFFICIENCY (%) |
|--------------|----|----------|----------------------------|----------------------------|-----------------------|------------------------|---------------------|
| | | | INPUT/OUTPUT STAGE 1 (MBH) | INPUT/OUTPUT STAGE 2 (MBH) | | | |
| Single Phase | 04 | LOW | -/- | 65/53 | 25-55 | 81 | 81 |
| | | MED | -/- | 90/73 | 45-85 | 82 | 81 |
| | | HIGH | -/- | — | — | — | — |
| | 05 | LOW | -/- | 65/53 | 20-55 | 81 | 81 |
| | | MED | -/- | 90/73 | 30-65 | 82 | 81 |
| | | HIGH | -/- | 130/106 | 45-80 | 81 | 81 |
| | 06 | LOW | -/- | 65/53 | 15-55 | 81 | 81 |
| | | MED | -/- | 90/73 | 25-65 | 82 | 81 |
| | | HIGH | -/- | 130/106 | 35-80 | 81 | 81 |
| Three Phase | 04 | LOW | 50/40 | 67/54 | 25-55 | 81 | N/A |
| | | MED | 82/65 | 110/88 | 50-85 | 80 | N/A |
| | | HIGH | — | — | — | — | — |
| | 05 | LOW | 50/40 | 67/54 | 25-55 | 81 | N/A |
| | | MED | 82/65 | 110/88 | 35-65 | 80 | N/A |
| | | HIGH | 120/96 | 150/120 | 50-80 | 80 | N/A |
| | 06 | LOW | 50/40 | 67/54 | 20-55 | 81 | N/A |
| | | MED | 82/65 | 110/88 | 30-65 | 80 | N/A |
| | | HIGH | 120/96 | 150/120 | 40-80 | 80 | N/A |

HEAT RATING TABLE — LOW NO_x

| 48GC UNIT | | GAS HEAT | AL/SS HEAT EXCHANGER | | TEMPERATURE RISE (°F) | THERMAL EFFICIENCY (%) | AFUE EFFICIENCY (%) |
|--------------|----|----------|----------------------------|----------------------------|-----------------------|------------------------|---------------------|
| | | | INPUT/OUTPUT STAGE 1 (MBH) | INPUT/OUTPUT STAGE 2 (MBH) | | | |
| Single Phase | 04 | LOW | — | 60 / 49 | 20 - 50 | 81% | 81% |
| | 05 | LOW | — | 60 / 49 | 20 - 50 | 81% | 81% |
| | 06 | LOW | — | 60 / 49 | 15 - 50 | 81% | 81% |
| Three Phase | 04 | LOW | — | 60 / 49 | 20 - 50 | 81% | n/a |
| | 05 | LOW | — | 60 / 49 | 20 - 50 | 81% | n/a |
| | 06 | LOW | — | 60 / 49 | 15 - 50 | 81% | n/a |

48/50GC 3 TO 5 TON PHYSICAL DATA

| 48/50GC UNIT | 48/50GC*M04 | 48/50GC*N04 | 48/50GC*M05 | 48/50GC*N05 | 48/50GC*M06 | 48/50GC*N06 |
|--|------------------------|--------------|--------------|--------------|--------------|--------------|
| NOMINAL TONS | 3 | | 4 | | 5 | |
| BASE UNIT OPERATING WT (lb) 48GC/50GC* | 513/468 | | 555/510 | | 600/555 | |
| REFRIGERATION SYSTEM | | | | | | |
| No. Circuits/No. Compressors/Type | 1 / 1 / 2-Stage Scroll | | | | | |
| Puron® (R-410A) charge A/B (lbs-oz) | 8-4 | — | 8-11 | — | 11-0 | — |
| Humidi-MiZer® Puron (R-410A) charge A/B (lbs-oz) | — | 8-3 | — | 14-8 | — | 18-0 |
| Metering device | TXV | | | | | |
| Humidi-MiZer metering device | — | TXV | — | TXV | — | TXV |
| High-Pressure Trip/Reset (psig) | 630/505 | | | | | |
| Low-Pressure Trip/Reset (psig) | 54/117 | 27/44 | 54/117 | 27/44 | 54/117 | 27/44 |
| EVAPORATOR COIL | | | | | | |
| Material (Tube/Fin) | Cu/Al | | | | | |
| Coil Type | 3/8-in. RTPF | | | | | |
| Rows/FPI | 2/15 | — | — | — | 4/15 | — |
| Total Face Area (ft ²) | 5.5 | | — | | 7.3 | |
| Condensate Drain Connection Size | 3/4-in. | | | | | |
| CONDENSER COIL | | | | | | |
| Material | Cu/Al | | | | | |
| Coil Type | 5/16-in. RTPF | | | | | |
| Rows/FPI | 2/18 | | | | | |
| Total Face Area (ft ²) | 14.6 | — | 15.9 | — | 20.5 | |
| HUMIDI-MIZER COIL | | | | | | |
| Material | — | Cu/Al | — | Cu/Al | — | Cu/Al |
| Coil Type | — | 3/8-in. RTPF | — | 3/8-in. RTPF | — | 3/8-in. RTPF |
| Rows/FPI | — | 1/17 | — | 2/17 | — | 2/17 |
| Total Face Area (ft ²) | — | 4.1 | — | 4.1 | — | 5.5 |
| EVAPORATOR FAN AND MOTOR | | | | | | |
| Standard Static 1 Phase | | | | | | |
| Motor Qty/Drive Type | 1/Direct | — | 1/Direct | — | 1/Direct | — |
| Max Cont BHP | 0.44 | — | 0.72 | — | 1.06 | — |
| RPM Range | 189-1890 | — | 190-1900 | — | 215-2150 | — |
| Fan Qty/Type | 1/Vane Axial | — | 1/Vane Axial | — | 1/Vane Axial | — |
| Fan Diameter (in.) | 16.6 | — | 16.6 | — | 16.6 | — |
| Medium Static 1 Phase | | | | | | |
| Motor Qty/Drive Type | 1/Direct | — | 1/Direct | — | 1/Direct | — |
| Max Cont BHP | 0.71 | — | 1.06 | — | 1.44 | — |
| RPM Range | 219-2190 | — | 217-2170 | — | 239-2390 | — |
| Fan Qty/Type | 1/Vane Axial | — | 1/Vane Axial | — | 1/Vane Axial | — |
| Fan Diameter (in.) | 16.6 | — | 16.6 | — | 16.6 | — |
| High Static 1 Phase | | | | | | |
| Motor Qty/Drive Type | 1/Direct | — | 1/Direct | — | — | — |
| Max Cont BHP | 1.07 | — | 1.53 | — | — | — |
| RPM Range | 249-2490 | — | 246-2460 | — | — | — |
| Fan Qty/Type | 1/Vane Axial | — | 1/Vane Axial | — | — | — |
| Fan Diameter (in.) | 16.6 | — | 16.6 | — | — | — |
| Standard Static 3 Phase | | | | | | |
| Motor Qty/Drive Type | — | | 1/Direct | | — | |
| Max Cont BHP | 0.44 | — | 0.72 | — | 1.06 | — |
| RPM Range | 189-1890 | — | 190-1900 | — | 215-2150 | — |
| Fan Qty/Type | — | | 1/Vane Axial | | — | |
| Fan Diameter (in.) | — | | 16.6 | | — | |
| Medium Static 3 Phase | | | | | | |
| Motor Qty/Drive Type | — | | 1/Direct | | — | |
| Max Cont BHP | 0.71 | — | 1.06 | — | 1.44 | — |
| RPM Range | 219-2190 | — | 217-2170 | — | 239-2390 | — |
| Fan Qty/Type | — | | 1/Vane Axial | | — | |
| Fan Diameter (in.) | — | | 16.6 | | — | |
| High Static 3 Phase | | | | | | |
| Motor Qty/Drive Type | — | | 1/Direct | | — | |
| Max Cont BHP | 1.07 | — | 1.96 | — | 2.43 | — |
| RPM Range | 249-2490 | — | 266-2660 | — | 284-2836 | — |
| Fan Qty/Type | — | | 1/Vane Axial | | — | |
| Fan Diameter (in.) | — | | 16.6 | | — | |



48/50GC 3 TO 5 TON PHYSICAL DATA (cont)

| 48/50GC UNIT | 48/50GC*M04 | 48/50GC*N04 | 48/50GC*M05 | 48/50GC*N05 | 48/50GC*M06 | 48/50GC*N06 |
|----------------------------------|---------------|-------------|-------------|----------------|-------------|-------------|
| CONDENSER FAN AND MOTOR | | | | | | |
| Qty / Motor Drive Type | | | | 1 / Direct | | |
| Motor HP/RPM | 1/5 / 825/675 | | | 1/4 / 1100/900 | | |
| Fan Diameter (in.) | | | | 23 | | |
| FILTERS | | | | | | |
| RA Filter Qty / Size (in.) | 2 / 16x25x2 | | | 4 / 16x16x2 | | |
| OA Inlet Screen Qty / Size (in.) | | | | 1 / 20x24x1 | | |

LEGEND

- BHP** — Break Horsepower
- FPI** — Fins Per Inch
- OA** — Outdoor Air
- RA** — Return Air

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

48GC 3 TO 5 TON GAS HEAT DATA — 1 PHASE UNITS

| 48GC UNIT | 48GC**04 | 48GC**05 | 48GC**06 |
|---|----------|-------------------|----------|
| GAS CONNECTION | | | |
| No. of Gas Valves | | 1 | |
| Natural Gas Supply Line Pressure (in. wg)/(psig) | | 4-13 / 0.18-0.47 | |
| Liquid Propane Supply Line Pressure (in. wg)/(psig) | | 11-13 / 0.40-0.47 | |
| HEAT ANTICIPATOR SETTING (AMPS) | | | |
| First Stage | | 0.14 | |
| Second Stage | | 0.14 | |
| NATURAL GAS HEAT | | | |
| LOW | | | |
| No. of Stages / No. of Burners (total) | | 1 / 2 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 25-55 | 20-55 | 15-55 |
| MEDIUM | | | |
| No. of Stages / No. of Burners (total) | | 1 / 3 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 45-85 | 30-65 | 25-65 |
| HIGH | | | |
| No. of Stages / No. of Burners (total) | — | 1 / 3 | |
| Connection Size | — | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | — | 195 / 115 | |
| Temperature Rise (°F) | — | 45-80 | 35-80 |
| LIQUID PROPANE HEAT | | | |
| LOW | | | |
| No. of Stages / No. of Burners (total) | | 1 / 2 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 25-55 | 20-55 | 15-55 |
| MEDIUM | | | |
| No. of Stages / No. of Burners (total) | | 1 / 3 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 45-85 | 30-65 | 25-65 |
| HIGH | | | |
| No. of Stages / No. of Burners (total) | — | 1 / 3 | |
| Connection Size | — | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | — | 195 / 115 | |
| Temperature Rise (°F) | — | 45-80 | 35-80 |
| LOW NOx HEAT | | | |
| LOW | | | |
| No. of Stages / No. of Burners (total) | | 1 / 2 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 20-50 | | 15-50 |



48GC 3 TO 6 TON GAS HEAT DATA — 3 PHASE UNITS

| 48GC UNIT | 48GC**04 | 48GC**05 | 48GC**06 |
|---|----------|-------------------|----------|
| GAS CONNECTION | | | |
| No. of Gas Valves | | 1 | |
| Natural Gas Supply Line Pressure (in. wg)/(psig) | | 4-13 / 0.18-0.47 | |
| Liquid Propane Supply Line Pressure (in. wg)/(psig) | | 11-13 / 0.40-0.47 | |
| HEAT ANTICIPATOR SETTING (AMPS) | | | |
| First Stage | | 0.14 | |
| Second Stage | | 0.14 | |
| NATURAL GAS HEAT | | | |
| LOW | | | |
| No. of Stages / No. of Burners (total) | | 2 / 2 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 25-55 | | 20-55 |
| MEDIUM | | | |
| No. of Stages / No. of Burners (total) | | 2 / 3 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 50-85 | 35-65 | 30-65 |
| HIGH | | | |
| No. of Stages / No. of Burners (total) | — | 2 / 3 | |
| Connection Size | — | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | — | 195 / 115 | |
| Temperature Rise (°F) | — | 50-80 | 40-80 |
| LIQUID PROPANE HEAT | | | |
| LOW | | | |
| No. of Stages / No. of Burners (total) | | 2 / 2 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 25-55 | | 20-55 |
| MEDIUM | | | |
| No. of Stages / No. of Burners (total) | | 2 / 3 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 50-85 | 35-65 | 30-65 |
| HIGH | | | |
| No. of Stages / No. of Burners (total) | — | 2 / 3 | |
| Connection Size | — | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | — | 195 / 115 | |
| Temperature Rise (°F) | — | 50-80 | 40-80 |
| LOW NOx HEAT | | | |
| LOW | | | |
| No. of Stages / No. of Burners (total) | | 1 / 2 | |
| Connection Size | | 1/2-in. NPT | |
| Rollout Switch Opens / Closes (°F) | | 195 / 115 | |
| Temperature Rise (°F) | 20-50 | | 15-50 |

| ITEM | OPTION* | ACCESSORY† |
|---|---------|------------|
| GAS HEAT (48GC units only) | | |
| Low, Medium or High Gas Heat — Aluminized Heat Exchanger | X | |
| Low, Medium or High Gas Heat — Stainless Steel Heat Exchanger | X | |
| Low NOx, Low Heat — Stainless Steel Heat Exchanger | X | |
| Propane Conversion Kit | | X |
| High Altitude Conversion Kit | | X |
| Flue Discharge Deflector | | X |
| Flue Shield | | X |
| ELECTRIC HEAT (50GC units only) | | |
| Electric Resistance Heaters | X | X |
| Single Point Kits | | X |
| CABINET | | |
| Thru-the-Base electrical or gas-line connections | X | X |
| Hinged Access Panels | X | |
| COIL OPTIONS | | |
| Cu/Cu indoor and/or outdoor coils ¹ | X | |
| Pre-coated outdoor coils ¹ | X | |
| Premium, E-coated outdoor coils ¹ | X | |
| HUMIDITY CONTROL | | |
| Humidi-MiZer® Adaptive Dehumidification System ¹ | X | |
| CONDENSER PROTECTION | | |
| Condenser coil hail guard (louvered design) ¹ | X | X |
| CONTROLS | | |
| Thermostats, temperature sensors, and subbases | | X |
| SystemVu™ DDC communicating controller | X | |
| RTU Open Multi-Protocol controller | X | |
| Smoke detector (supply and/or return air) | X | |
| Horn Strobe Annunciator ² | | X |
| Time Guard II compressor delay control circuit | | X |
| Phase Monitor | | X |
| Condensate Overflow switch | X | X |
| FILTERS | | |
| MERV-8 Return Air Filters | X | |

| ITEM | OPTION* | ACCESSORY† |
|--|---------|------------|
| ECONOMIZERS AND OUTDOOR AIR DAMPERS | | |
| EconoMi\$er® IV for electro-mechanical controls - Non FDD (Standard air leak damper models) ^{1, 3} | | X |
| EconoMi\$er2 for DDC controls (Standard and Ultra Low Leak air damper models) ^{1, 4} | X | X |
| EconoMi\$er X for electro-mechanical controls, complies with FDD (Standard and Ultra Low Leak damper models) ^{1, 3} | X | X |
| Motorized 2-position outdoor-air damper ¹ | | X |
| Manual outdoor-air damper (25% and 50%) | | X |
| Barometric relief ⁵ | X | X |
| Power exhaust - prop design | | X |
| ECONOMIZER SENSORS AND IAQ DEVICES | | |
| Single dry bulb temperature sensors ⁶ | X | X |
| Differential dry bulb temperature sensors ⁶ | | X |
| Single enthalpy sensors ⁶ | X | X |
| Differential enthalpy sensors ⁶ | | X |
| CO ₂ sensor (wall, duct, or unit mounted) ⁶ | X | X |
| INDOOR MOTOR AND DRIVE | | |
| Multiple motor and drive packages | X | |
| LOW AMBIENT CONTROL | | |
| Winter start kit ⁷ | | X |
| Low Ambient controller to -20°F (-29°C) ⁷ | X | X |
| POWER OPTIONS | | |
| Convenience outlet (powered) ¹ | X | |
| Convenience outlet (unpowered) | X | |
| HACR circuit breaker ⁸ | X | |
| Non-fused disconnect ⁹ | X | |
| ROOF CURBS | | |
| Roof curb 14-in. (356 mm) | | X |
| Roof curb 24-in. (610 mm) | | X |

* Factory-installed option.

† Field-installed accessory.

NOTES:

- Not available on single phase (-3 voltage code) models. Use field-installed accessory where available.
- Requires a field-supplied 24V transformer for each application. See price pages for details.
- FDD (Fault Detection and Diagnostic) capability per California Title 24 section 120.2.
- Models with SystemVu and RTU Open DDC controls comply with California Title 24 Fault Detection and Diagnostic (FDD).
- Included with economizer.
- Sensors used to optimize economizer performance.
- See application data for assistance.
- HACR circuit breaker cannot be used on 04-06 sizes when unit FLA electrical rating exceeds:
208/230/1/60 and 208/230/3/60 = 100 amps (FLA)
460/3/60 = 90 amps (FLA)
Carrier RTUBuilder automatically selects the amps limitations.
- Non-fused disconnect switch cannot be used when unit electrical rating exceeds:
Without factory-installed electric heat:
208-230/1/60 and 208-230/3/60 = 80 amps (FLA).
480/3/60 and 575/3/60 = 80 amps (FLA).
With factory-installed electric heat:
208-230/1/60 and 208-230/3/60 = 100 amps (FLA).
480/3/60 and 575/3/60 = 80 amps (FLA).
Carrier RTUBuilder automatically selects the amp limitations.

Factory-installed options

Economizer (dry-bulb or enthalpy)

Economizers save money. They bring in fresh, outside air for ventilation; and provide cool, outside air to cool your building. This is the preferred method of low-ambient cooling. When coupled to CO₂ sensors, economizers can provide even more savings by coupling the ventilation air to only that amount required.

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 powered exhaust system to help equalize building pressures.

Economizers include gravity controlled barometric relief that helps equalize building pressure and ambient air pressures. This can be a cost effective solution to prevent building pressurization. Economizers are available in Ultra Low Leak and standard low leak versions. Economizers 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. Also available as a field-installed accessory.

Smoke detector (supply and/or return air)

Trust the experts. 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[®] 48/50GC04-06 rooftop unit, with the exception of single phase voltage (208-230/1/60) units.

This system expands the envelope of operation of Carrier's WeatherMaker 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. The Humidi-MiZer system provides greater dehumidification of the occupied space by two modes of dehumidification operations in addition to its normal design cooling mode.

The WeatherMaster 48/50GC04-06 rooftop coupled with the Humidi-MiZer system 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 will operate when outdoor temperatures diminish and the need for latent capacity is required for sole humidity control. Hot Gas Reheat mode will provide neutral air for maximum dehumidification operation.

NOTE: Humidi-MiZer system includes Low Ambient controller.

Thru-the-base connection

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, as well as control power.

Hinged access panels

Allows access to unit's major components with specifically designed hinged access panels. Panels are filter, control box access indoor fan motor access.

Cu/Cu (indoor) 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 potential for galvanic corrosion between coil and pan.

E-coated (outdoor and indoor) coils

A flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation of tubes, fins and headers.

Pre-coated outdoor coils

A durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments. The coating minimizes galvanic action between dissimilar metals. 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

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

Single enthalpy sensor

Prevents the wheel from rotating if the outside air conditions are acceptable for free cooling. Both exhaust and supply blowers will remain on.

Stainless steel heat exchanger (48GC units only)

The stainless steel heat exchanger option provides the tubular heat exchanger be made out of a minimum 20 gage type 409 stainless steel for applications where the mixed air to the heat exchanger is expected to drop below 45°F (7°C). Stainless steel may be specified on applications where the presence of airborne contaminants require its use (applications such as paper mills) or in area with very high outdoor humidity that may result in severe condensation in the heat exchanger during cooling operation.

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. Provides a convenient, 15 amp, 115v 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 115/120v power source.

The unpowered convenience 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. Factory wired and mounted with the units with 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 they are sized for the unit as ordered from the factory. The sizing of these do 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.

SystemVu™ controller

Carrier’s SystemVu controller is an optional factory-installed and tested controller.

This controller takes on a whole new approach to provide an intuitive, intelligent controller that not only monitors and controls the unit, but also provides linkage to multiple building automation systems.

Each SystemVu controller makes it easy to set up, service, troubleshoot, gain historical data, generate reports and provide comfort only Carrier is noted for.

Key features include:

- Easy to read back lit four line text screen for superior visibility.
- Quick operational condition LEDs of: Run, Alert, and Fault.
- Simple navigation with large keypad buttons of: Navigation arrows, Test, Back, Enter and Menu.
- Capable of being controlled with a conventional thermostat, space sensor or build automation system.
- Service capabilities include:
 - Auto run test
 - Manual run test
 - Component run hours and starts
 - Commissioning reports
 - Data logging
- Full range of diagnosis:
 - Read refrigerant pressures without the need of gages
 - Sensor faults
 - Compressor reverse rotation
 - Economizer diagnostics that meet California Title 24 requirements
- Quick data transfer via USB port:
 - Unit configuration uploading/downloading

Data logging

Software upgrades

- Built in capacity for:
 - i-Vu® open systems
 - BACnet systems
 - CCN systems
- Configuration and alarm point capability:
 - Contain over 100 alarm codes
 - Contain over 260 status, troubleshooting, diagnostic and maintenance points
 - Contain over 270 control configuration setpoints

RTU Open, multi-protocol controller

Connect the rooftop to an existing BAS (building automation system) without needing complicated translators or adapter modules using the RTU Open controller. The RTU Open controller speaks the 4 most common building automation system languages (BACnet, Modbus, Johnson Controls N2, and LonWorks). Use this controller when you have an existing BAS. Besides the 4 protocols, it also communicates with a Carrier Open system (i-Vu and VVT®).

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:

- Indicator light – solid red (more than 10 seconds on water contact – compressors disabled), blinking red (sensor disconnected)
- 10 second delay to break – eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping)
- Disables the compressor(s) operation when condensate plug is detected, but still allows fans to run for economizer.

MERV-8 return air filters

This factory option upgrades the return air filters from standard unit filters to high efficiency MERV-8 filters. Non-woven MERV-8 filter media with high strength, moisture-resistant frame. Filter media is securely fastened inside the filter frame on all four sides.

Low ambient controller

The low ambient controller is a head pressure controller kit that is designed to maintain the unit’s condenser head pressure during periods of low ambient cooling operation. This device should be used as an alternative to economizer free cooling when economizer usage is either not appropriate or desired. The low ambient controller will either cycle the outdoor fan motors or operate them at reduced speed to maintain the unit operation, depending on the model. This controller allows cooling operation down to -20°F (-29°C) ambient conditions.

Electric Heaters

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

Field-installed accessories

Filter 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.

Condenser coil hail guard

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 return air enthalpy sensors 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.

Propane conversion kit (48GC units only)

Convert your gas heat rooftop from standard natural gas operation to Propane using this field-installed kit.

High altitude conversion kit (48GC units only)

High altitudes have less oxygen, which affects the fuel/air mixture in heat exchangers. In order to maintain a proper fuel/air mixture, heat exchangers operating in altitudes above 2000 ft (610 m) require different orifices. To select the correct burner orifices or determine the heat capacity for a high altitude application, use either the selection software, or the unit's service manual. High altitudes have less oxygen, which means heat exchangers need less fuel. The new gas orifices in this field-installed kit make the necessary adjustment for high altitude applications. They restore the optimal fuel to air mixture and maintain healthy combustion on altitudes above 2000 ft (610 m).

NOTE: Typical natural gas heating value ranges from 975 to 1050 Btu/ft³ at sea level nationally. The heating value goes down approximately 1.7% per every thousand feet elevation. Standard factory orifices can typically be used up to 2000 ft (610 m) elevation without any operational issues.

Flue discharge deflector (48GC units only)

The flue discharge deflector is a useful accessory when flue gas recirculation is a concern. By venting the flue discharge upwards, the deflector minimizes the chance for a neighboring unit to intake the flue exhaust.

Winter start kit

The winter start kit by Carrier extends the low ambient limit of your rooftop to 25°F (-4°C). The kit bypasses the low pressure switch, preventing nuisance tripping of the low pressure switch. Other low ambient precautions may still be prudent.

Low Ambient controller

The Low Ambient controller is a head pressure controller kit that is designed to maintain the unit's condenser head pressure during periods of low ambient cooling operation. This device should be used as an alternative to economizer free cooling not when economizer usage is either not appropriate or desired. The low ambient controller will either cycle the outdoor-fan motors or operate them at reduced speed to maintain the unit operation, depending on the model. This controller allows cooling operation down to -20°F (-29°C) ambient conditions.

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

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

Filter status indicator accessory

Monitors static pressure across supply and exhaust filters and provides indication when filters become clogged.

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 2-Position Damper

The Carrier 2-position, motorized outdoor air damper admits up to 100% outside air. Using reliable, gear-driven technology, the 2-position damper opens to allow ventilation air and closes when the rooftop stops, stopping unwanted infiltration.

Time Guard II control circuit

This accessory protects your compressor by preventing short-cycling in the event of some other failure, prevents the compressor from restarting for 30 seconds after stopping. Not required with SystemVu™ controller, RTU Open controller, or authorized commercial thermostats.

Power exhaust

Superior internal building pressure control. This field-installed accessory may eliminate the need for costly, external pressure control fans.

Phase monitor protection

The Phase Monitor Control will monitor the sequence of three phase electrical system to provide a phase reversal protection; and monitor the three phase voltage inputs to provide a phase loss protection for the three phase device. It will work on either a Delta or Wye power connection.

OPTIONS AND ACCESSORY WEIGHTS

| OPTION / ACCESSORY NAME | 48/50GC UNIT WEIGHT | | | | | |
|--------------------------------------|---------------------|----|-----|----|-----|----|
| | 04 | | 05 | | 06 | |
| | lb | kg | lb | kg | lb | kg |
| Humidi-MiZer® System* | 15 | 7 | 15 | 7 | 24 | 11 |
| Power Exhaust - vertical | 51 | 23 | 51 | 23 | 51 | 23 |
| Power Exhaust - horizontal | 39 | 18 | 39 | 18 | 39 | 18 |
| EconoMiSer® (X, IV or 2) | 35 | 16 | 35 | 16 | 35 | 16 |
| 2-Position Damper | 39 | 18 | 39 | 18 | 39 | 18 |
| Manual Damper | 12 | 5 | 12 | 5 | 12 | 5 |
| Medium Gas Heat (48GC units only) | 9 | 4 | 9 | 4 | 9 | 4 |
| High Gas Heat (48GC units only) | — | — | 63 | 29 | 63 | 29 |
| Hail Guard (louvered) | 13 | 6 | 13 | 6 | 17 | 8 |
| Cu/Cu Condenser Coil | 37 | 17 | 74 | 34 | 90 | 41 |
| Cu/Cu Condenser and Evaporator Coils | 75 | 34 | 112 | 51 | 160 | 73 |
| Roof Curb (14-in. curb) | 95 | 43 | 95 | 43 | 95 | 43 |
| Roof Curb (24-in. curb) | 150 | 68 | 150 | 68 | 150 | 68 |
| CO ₂ sensor | 2 | 1 | 2 | 1 | 2 | 1 |
| Flue Discharge Deflector | 7 | 3 | 7 | 3 | 7 | 3 |
| Optional Indoor Motor/Drive | 10 | 5 | 10 | 5 | 10 | 5 |
| Low Ambient Controller | 9 | 4 | 9 | 4 | 9 | 4 |
| Winter Start Kit | 5 | 2 | 5 | 2 | 5 | 2 |
| Return Air Smoke Detector | 7 | 3 | 7 | 3 | 7 | 3 |
| Supply Air Smoke Detector | 7 | 3 | 7 | 3 | 7 | 3 |
| Fan Filter Switch | 2 | 1 | 2 | 1 | 2 | 1 |
| Non-Fused Disconnect | 15 | 7 | 15 | 7 | 15 | 7 |
| Powered Convenience Outlet | 36 | 16 | 36 | 16 | 36 | 16 |
| Unpowered Convenience Outlet | 4 | 2 | 4 | 2 | 4 | 2 |
| Enthalpy Sensor | 2 | 1 | 2 | 1 | 2 | 1 |
| Differential Enthalpy Sensor | 3 | 1 | 3 | 1 | 3 | 1 |

LEGEND

— Not Available

* For Humidi-MiZer system add Low Ambient controller.

NOTE: Where multiple variations are available, the heaviest combination is listed.

Base unit dimensions



48GC**04-06 BASE UNIT DIMENSIONS

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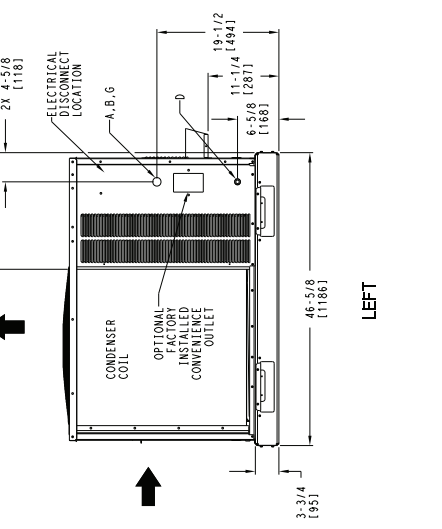
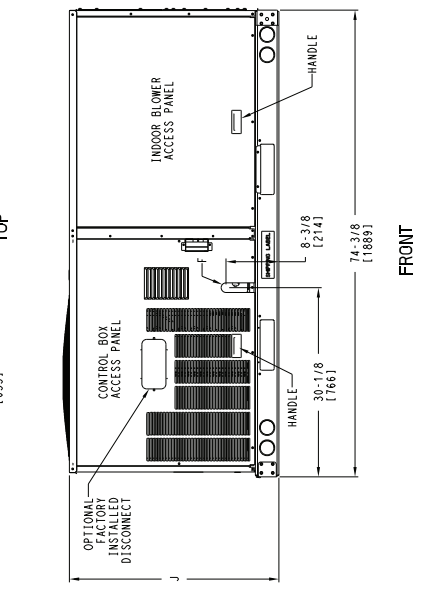
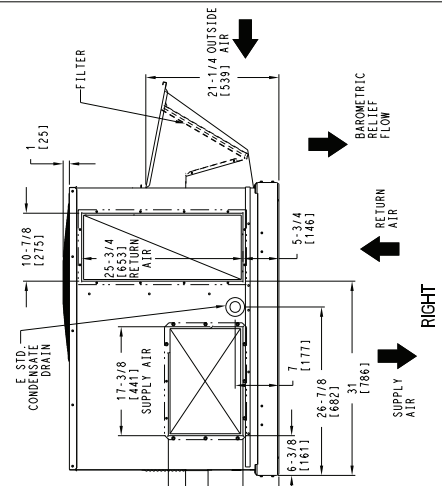
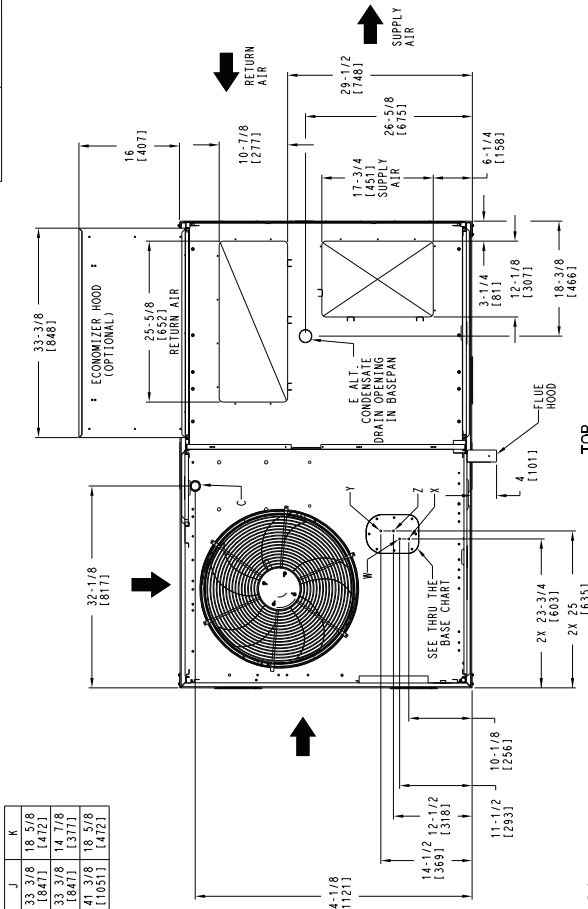
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| UNIT | J | K |
|----------|---------------|--------------|
| 48GC**04 | 33 3/8 [847] | 18 5/8 [472] |
| 48GC**05 | 33 3/8 [847] | 18 5/8 [472] |
| 48GC**06 | 41 3/8 [1051] | 18 5/8 [472] |

| CONNECTION SIZES | |
|------------------|--|
| A | 1 3/8" [35] DIA. FIELD POWER SUPPLY HOLE |
| B | 2" [50] 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 |
| F | 1/2" - 14 NPT GAS CONNECTION |
| G | 2 1/2" [64] DIA. POWER SUPPLY KNOCK-OUT |

| THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE THESE HOLES REQUIRED FOR USE | |
|---|------------------------------|
| W | 1/2" [12.7] WIRE SIZE (MAX.) |
| X | 1/2" [12.7] WIRE SIZE (MAX.) |
| Y | 24V [24V] POWER |
| Z* | 1/2" [12.7] FPT GAS |

* FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED (008A00) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING.



| ITC CLASSIFICATION | SHEET | DATE | SUPERCEDES | REV |
|--|--------|----------|------------|------------|
| U.S. ECCN: NSR | 1 OF 3 | 04/02/19 | 10/25/18 | D |
| 48GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT | | | | 48TC003099 |

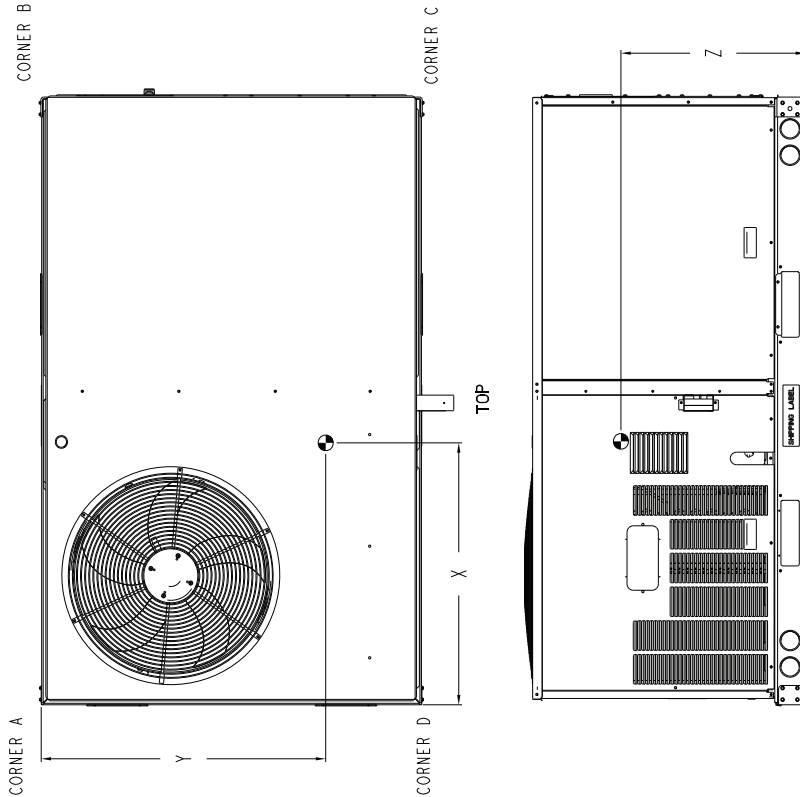
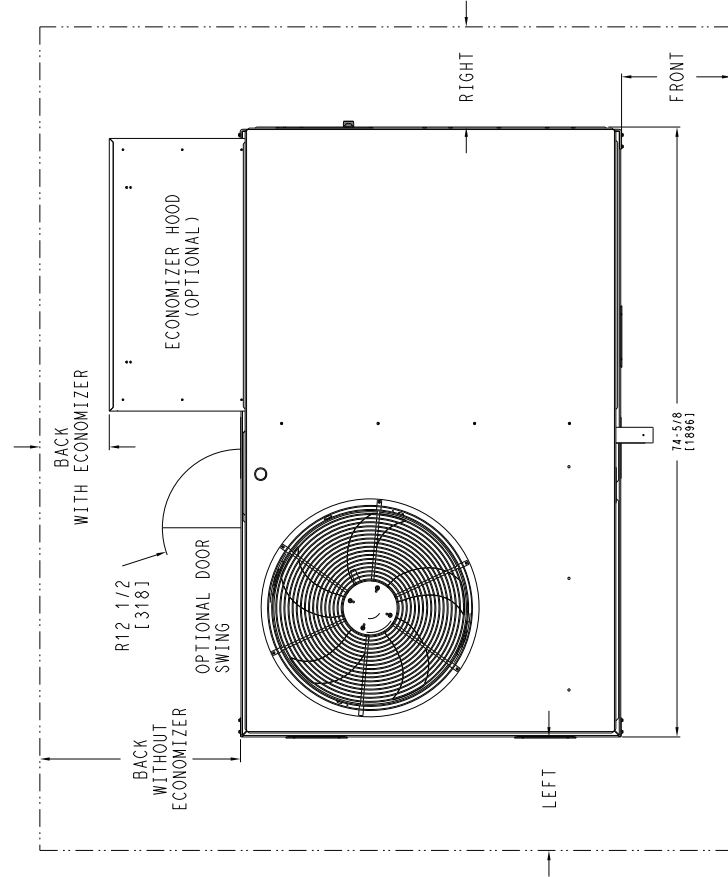
48GC**04-06 BASE UNIT DIMENSIONS (cont)

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| UNIT | CORNER WEIGHT (A) | | CORNER WEIGHT (B) | | CORNER WEIGHT (C) | | CORNER WEIGHT (D) | | C. G. | | | HEIGHT | | |
|----------|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------|----|--------------|--------------|--------------|---|
| | LBS. | KG. | LBS. | KG. | LBS. | KG. | LBS. | KG. | X | Y | Z | | | |
| 48GC**04 | 513 | 233 | 131 | 59 | 127 | 58 | 125 | 57 | 130 | 59 | 36 1/2 [927] | 23 1/4 [591] | 18 1/4 [464] | Z |
| 48GC**05 | 555 | 252 | 142 | 64 | 137 | 62 | 135 | 61 | 141 | 64 | 36 1/2 [927] | 23 1/4 [591] | 18 [457] | |
| 48GC**06 | 600 | 272 | 161 | 73 | 151 | 68 | 140 | 64 | 149 | 68 | 36 [914] | 22 1/2 [572] | 19 3/8 [492] | |

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

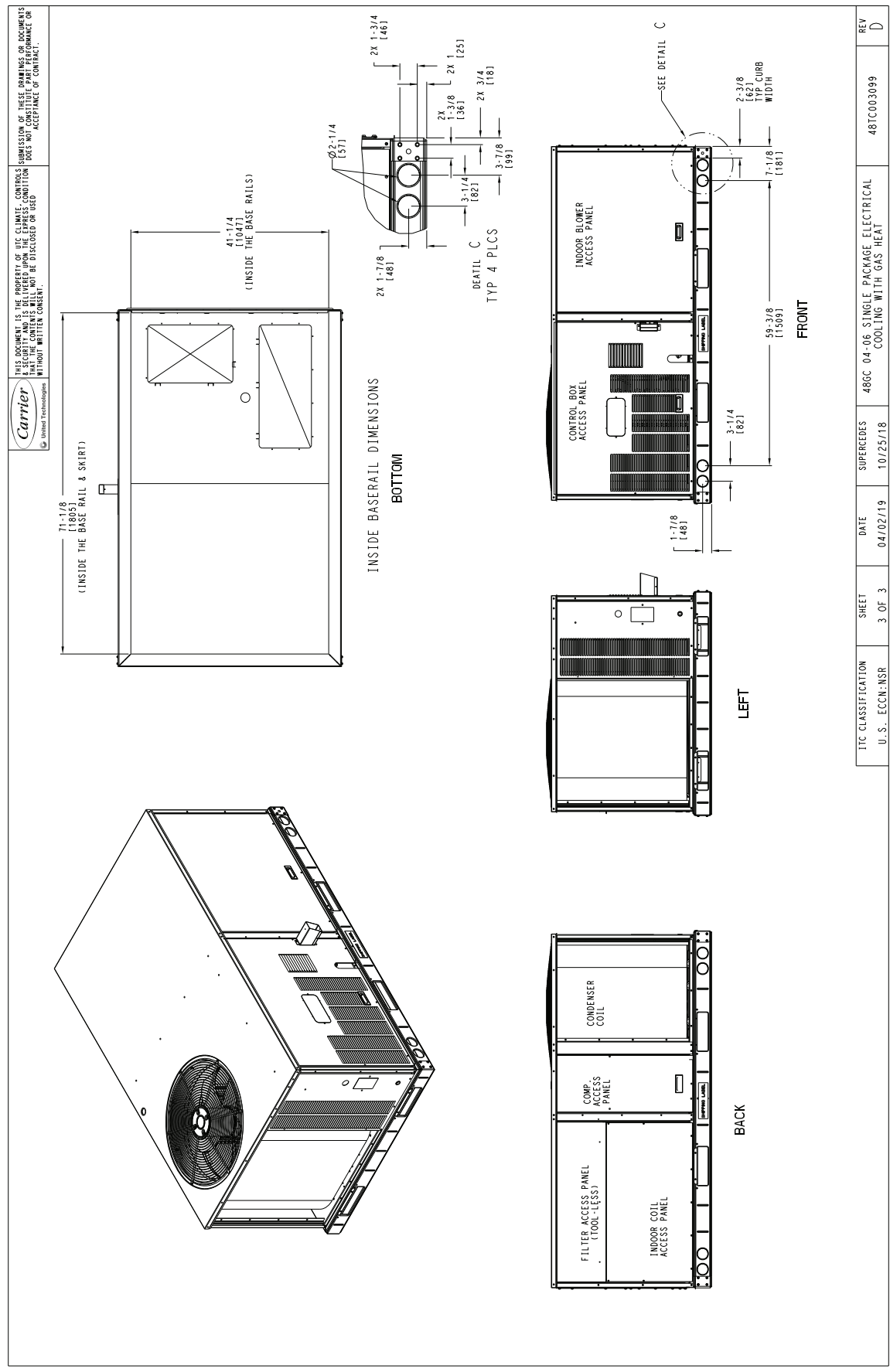


NOTES:
 1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

| SURFACE | CLEARANCE | | OPERATING CLEARANCE |
|---------------|---------------------------------|------------------------------------|---------------------|
| | SERVICE WITH CONDUCTIVE BARRIER | SERVICE WITH NONCONDUCTIVE BARRIER | |
| FRONT | 48 [1219mm] | 36 [914mm] | 18 [457mm] |
| LEFT | 48 [1219mm] | 42 [1067mm] | 18 [457mm] |
| BACK W/O HOOD | 48 [1219mm] | 42 [1067mm] | 18 [457mm] |
| BACK W/HOOD | 36 [914mm] | 36 [914mm] | 18 [457mm] |
| RIGHT | 36 [914mm] | 36 [914mm] | 18 [457mm] |
| TOP | 72 [1829mm] | 72 [1829mm] | 72 [1829mm] |

| | | | |
|--------------------|--|--------|------------|
| ITC CLASSIFICATION | DATE | SHEET | REV |
| U.S. - ECCN: NSR | 04/02/19 | 2 OF 3 | 48TC003099 |
| SUPERCEDES | 48GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT | | D |

48GC**04-06 BASE UNIT DIMENSIONS (cont)



50GC-04-06 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

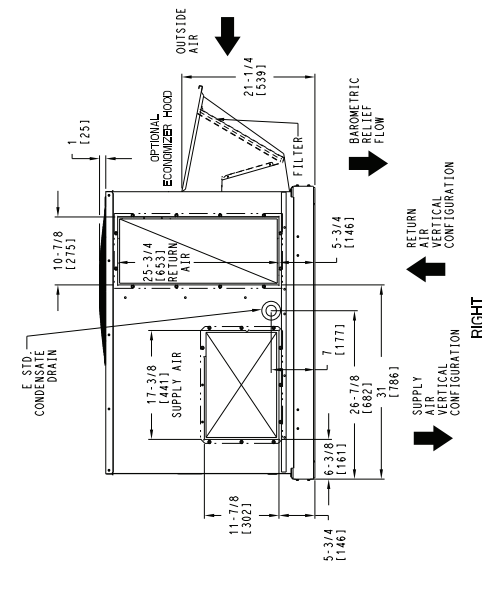
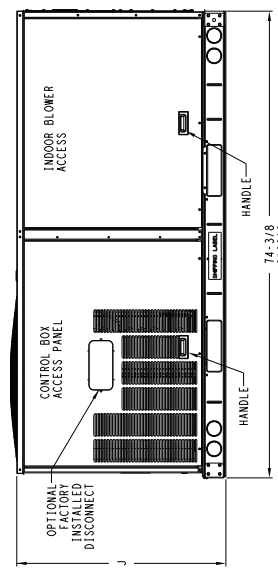
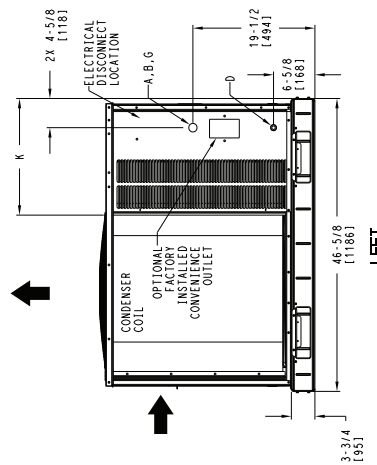
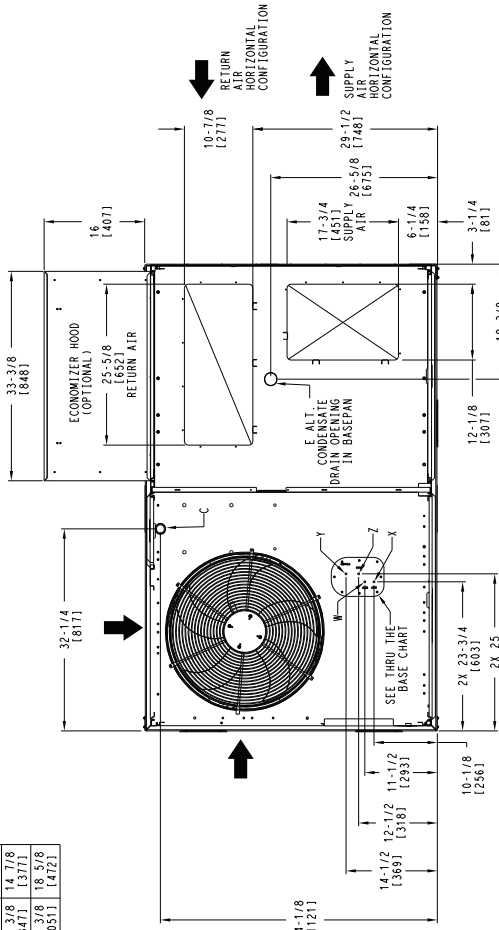
| UNIT | J | K |
|----------|---------------|--------------|
| 50GC**04 | 33-3/8 [848] | 18-7/8 [470] |
| 50GC**05 | 33-5/8 [847] | 14-7/8 [378] |
| 50GC**06 | 41-3/8 [1051] | 18-5/8 [472] |



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| CONNECTION SIZES | |
|------------------|--|
| A | 1 3/8" [35] DIA. FIELD POWER SUPPLY HOLE |
| B | 2" [51] DIA. POWER SUPPLY KNOCKOUT |
| C | 1 3/4" [44] DIA. GAUGE ACCESS PLUG |
| D | 7/8" [22] DIA. FIELD CONTROL WIRING HOLE |
| E | 3/4" - 14 NPT CONDENSATE DRAIN |
| G | 2 1/2" [64] DIA. POWER SUPPLY KNOCK-OUT |

| THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRB1PWR008A00... 009A00 | |
|--|---------------------------------|
| W | 1 1/2" WIRE RECD HOLE (MAX. Y.) |
| X | 2 1/2" WIRE RECD HOLE (MAX. Y.) |
| Y | 3/4" WIRE RECD HOLE (MAX. Y.) |
| Z | 1/2" WIRE RECD HOLE (MAX. Y.) |



| | | | | | | | |
|--------------------|--------|----------|------------|------|-------|--|-----|
| ITC CLASSIFICATION | SHEET | DATE | SUPERCEDES | 50GC | 04-06 | SINGLE PACKAGE ELECTRICAL COOLING WITH ELECTRIC HEAT | REV |
| U.S. - ECCN: NSR | 1 OF 3 | 03/21/19 | 10/25/18 | | | | D |

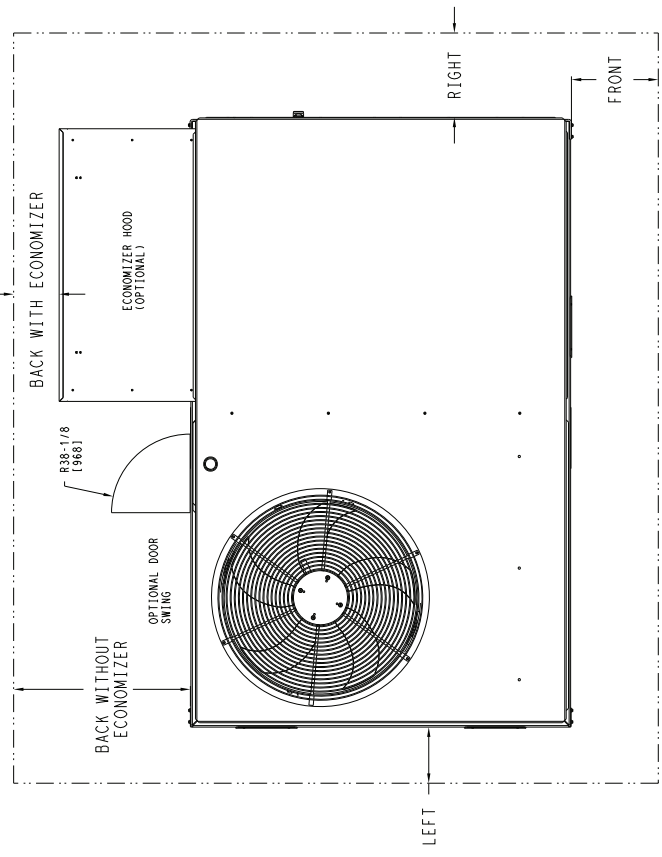
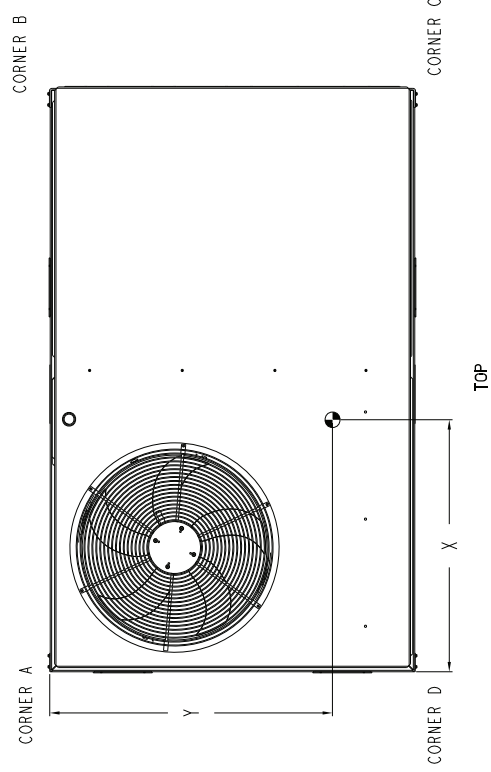
50GC-*04-06 BASE UNIT DIMENSIONS (cont)

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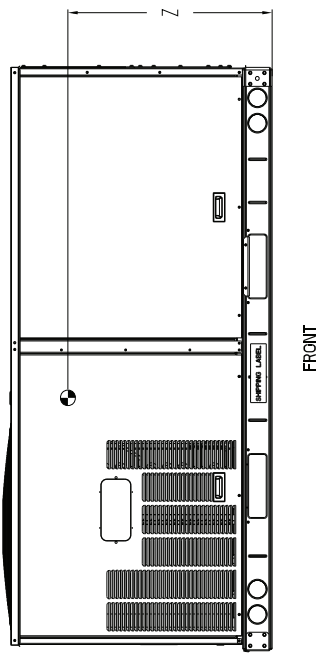
| UNIT | STD. WEIGHT * | | CORNER WEIGHT (A) | | CORNER WEIGHT (B) | | CORNER WEIGHT (C) | | CORNER WEIGHT (D) | | C. G. | | | HEIGHT | | | | | |
|----------|---------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------|-------|-------|--------|-------|-------|-----|-------|-------|
| | LBS. | KG. | LBS. | KG. | LBS. | KG. | LBS. | KG. | LBS. | KG. | X | Y | Z | | | | | | |
| 50GC**04 | 468 | 212 | 128 | 58 | 117 | 53 | 106 | 48 | 116 | 53 | 35 | 172 | 19021 | 22 | 1/4 | 15651 | 18 | 3/8 | 14671 |
| 50GC**05 | 510 | 231 | 140 | 64 | 128 | 58 | 116 | 53 | 127 | 58 | 35 | 172 | 19021 | 22 | 1/4 | 15651 | 18 | 3/8 | 14671 |
| 50GC**06 | 555 | 252 | 152 | 69 | 135 | 61 | 126 | 57 | 141 | 64 | 35 | 18891 | 22 | 1/2 | 15121 | 19 | 1/2 | 14951 | |

* 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 | | OPERATING CLEARANCE | |
|---------------|---------------------------------|-----------------------|---------------------------------|-----------------------|
| | SERVICE WITH CONDUCTIVE BARRIER | NONCONDUCTIVE BARRIER | SERVICE WITH CONDUCTIVE BARRIER | NONCONDUCTIVE BARRIER |
| FRONT | 48 [1219mm] | 36 [914mm] | 18 [457mm] | 18 [457mm] |
| LEFT | 48 [1219mm] | 42 [1067mm] | 18 [457mm] | 18 [457mm] |
| BACK W/O HOOD | 48 [1219mm] | 42 [1067mm] | 18 [457mm] | 18 [457mm] |
| BACK W/ HOOD | 36 [914mm] | 36 [914mm] | 18 [457mm] | 18 [457mm] |
| RIGHT | 36 [914mm] | 36 [914mm] | 18 [457mm] | 18 [457mm] |
| TOP | 72 [1829mm] | 72 [1829mm] | 72 [1829mm] | 72 [1829mm] |



| | | | |
|--------------------|--------|---|------------|
| TIC CLASSIFICATION | SHEET | DATE | REV |
| U.S. ECCN: NSR | 2 OF 3 | 03/21/19 | D |
| SUPERCEDES | | 50GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH ELECTRIC HEAT | 48TC003100 |

Base unit dimensions (cont)



50GC-*04-06 BASE UNIT DIMENSIONS (cont)

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INSIDE BASERAIL DIMENSIONS

BOTTOM

DETAIL C

TYP 4 PLCS

LEFT

FRONT

BACK

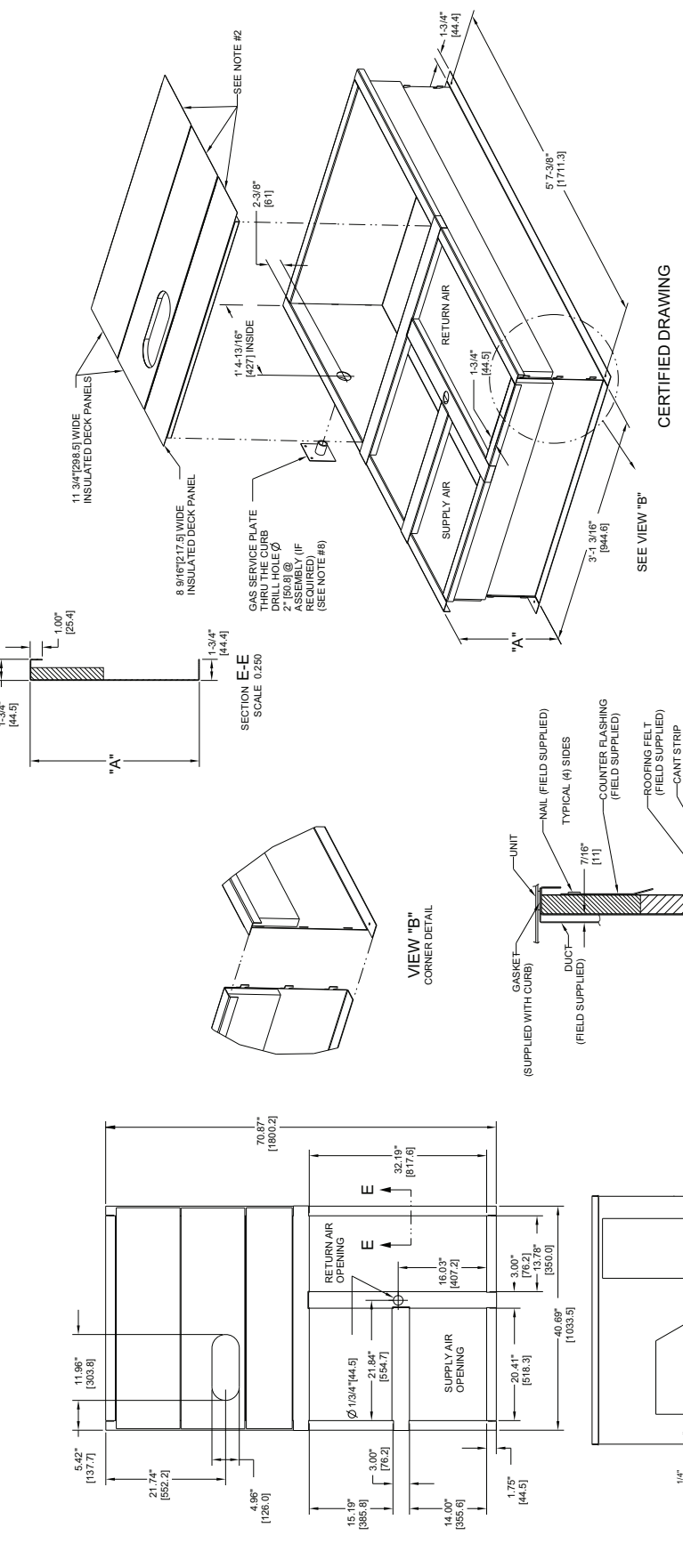
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|--|-----------------|------------------|------------------------|---|------------|----------|
| ITC CLASSIFICATION U.S. - ECCN: NSR | SHEET 3 OF 3 | DATE 03/21/19 | SUPERCEDES 10/25/18 | 50GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH ELECTRIC HEAT | 48TC003100 | REV D |
|--|-----------------|------------------|------------------------|---|------------|----------|



ROOF CURB DIMENSIONS — 48/50GC 04-06

| ROOF CURB ACCESSORY # | A | CONNECTOR PKG. ACC. | GAS CONNECTION TYPE | GAS FITTING | POWER WIRING FITTING | CONTROL WIRING FITTING | ACCESSORY CONVENIENCE OUTLET WIRING CONNECTOR |
|-----------------------|-----------|---------------------|---------------------|-----------------|----------------------|------------------------|---|
| CRRCURB001A01 | 14" [356] | CRBTMPWR001A01 | THRU THE CURB | 3/4" [19] NPT | 3/4" [19] NPT | 1/2" [12.7] NPT | 1/2" [12.7] NPT |
| CRRCURB002A01 | 24" [610] | CRBTMPWR003A01 | THRU THE BOTTOM | 1/2" [12.7] NPT | 1/2" [12.7] NPT | | |

- NOTES:
 1. ROOF-CURB ACCESSORY IS SHIPPED DISASSEMBLED.
 2. INSULATED PANELS: 25.4 [1] THK. POLYURETHANE FOAM, 44.5 [1.34] # DENSITY.
 3. DIMENSIONS IN [] ARE IN MILLIMETERS.
 4. ROOF CURB: 18 GAGE STEEL.
 5. EACH DUCT HAS A CURB FLANGE OF DUCT REST ON CURB.
 6. EACH DUCT HAS A GASKET ON EACH SIDE.
 7. DIRECTION OF AIR FLOW.
 8. CONNECTOR PACKAGE CRBTMPWR001A01 IS FOR THRU-THE-CURB GAS TYPE CONNECTIONS. PACKAGE CRBTMPWR003A01 IS FOR THRU-THE-BOTTOM TYPE GAS CONNECTIONS.



CERTIFIED DRAWING

DRAWING RELEASE LEVEL: **PRODUCTION**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:

| DEC | ZDEC | 3 DEC | ANG |
|-------|-------|-------|-------|
| ±.005 | ±.002 | ±.010 | ±.010 |

MATERIAL: -

| ENGINEERING | MANUFACTURING |
|-------------|---------------|
| - | - |

| ENGINEERING REQUIREMENTS | DESIGNER | CHECKER | REV |
|--------------------------|----------|---------|-----|
| 1-005, 1-002 | MMC | MMC | B |

AUTHORIZATION NUMBER: 1041738

TITLE: CURB ASY, ROOF

| SIZE | DRAWING NUMBER | REV |
|------|----------------|-----|
| D | 48TC400427 | B |

SCALE: NEXT DRAWING: -

DISTRIBUTION: -

MMSC

48/50GC**04 HIGH STAGE COOLING CAPACITIES

| 48/50GC**04 | | | | AMBIENT TEMPERATURE (F) | | | | | | | | | | | | |
|-------------|-------------|-------------|------|-------------------------|------|------|----------|------|------|----------|------|------|----------|------|------|------|
| | | | | 85 | | | 95 | | | 105 | | | 115 | | | |
| | | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | |
| | | | | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | |
| 900 Cfm | EAT (wb) | 58 | TC | 29.3 | 29.3 | 33.4 | 27.3 | 27.3 | 31.3 | 25.2 | 25.2 | 29.1 | 23.0 | 23.0 | 26.6 | |
| | | | SHC | 25.1 | 29.3 | 33.4 | 23.3 | 27.3 | 31.3 | 21.4 | 25.2 | 29.1 | 19.3 | 23.0 | 26.6 | |
| | | 62 | TC | 31.6 | 31.6 | 31.6 | 29.2 | 29.2 | 30.0 | 26.7 | 26.7 | 28.3 | 23.9 | 23.9 | 26.5 | |
| | | | SHC | 22.6 | 27.1 | 31.6 | 21.0 | 25.5 | 30.0 | 19.4 | 23.8 | 28.3 | 17.6 | 22.1 | 26.5 | |
| | | 67 | TC | 35.5 | 35.5 | 35.5 | 33.0 | 33.0 | 33.0 | 30.3 | 30.3 | 30.3 | 27.3 | 27.3 | 27.3 | |
| | | | SHC | 18.7 | 23.2 | 27.7 | 17.1 | 21.6 | 26.1 | 15.5 | 20.0 | 24.4 | 13.8 | 18.2 | 22.7 | |
| | 72 | TC | 39.6 | 39.6 | 39.6 | 36.9 | 36.9 | 36.9 | 34.0 | 34.0 | 34.0 | 30.9 | 30.9 | 30.9 | | |
| | | SHC | 14.7 | 19.2 | 23.8 | 13.1 | 17.6 | 22.2 | 11.5 | 16.0 | 20.5 | 9.8 | 14.3 | 18.8 | | |
| | 76 | TC | — | 43.1 | 43.1 | — | 40.2 | 40.2 | — | 37.2 | 37.2 | — | 33.9 | 33.9 | | |
| | | SHC | — | 16.0 | 20.9 | — | 14.4 | 19.3 | — | 12.8 | 17.6 | — | 11.1 | 15.8 | | |
| | 1050 Cfm | EAT (wb) | 58 | TC | 31.4 | 31.4 | 35.7 | 29.3 | 29.3 | 33.5 | 27.1 | 27.1 | 31.1 | 24.7 | 24.7 | 28.5 |
| | | | | SHC | 27.0 | 31.4 | 35.7 | 25.1 | 29.3 | 33.5 | 23.0 | 27.1 | 31.1 | 20.8 | 24.7 | 28.5 |
| 62 | | | TC | 32.9 | 32.9 | 34.9 | 30.4 | 30.4 | 33.3 | 27.8 | 27.8 | 31.5 | 25.2 | 25.2 | 28.8 | |
| | | | SHC | 24.7 | 29.8 | 34.9 | 23.0 | 28.2 | 33.3 | 21.3 | 26.4 | 31.5 | 19.1 | 24.0 | 28.8 | |
| 67 | | | TC | 36.9 | 36.9 | 36.9 | 34.2 | 34.2 | 34.2 | 31.3 | 31.3 | 31.3 | 28.3 | 28.3 | 28.3 | |
| | | | SHC | 20.1 | 25.3 | 30.4 | 18.5 | 23.7 | 28.8 | 16.8 | 22.0 | 27.1 | 15.1 | 20.2 | 25.3 | |
| 72 | | TC | 41.0 | 41.0 | 41.0 | 38.2 | 38.2 | 38.2 | 35.2 | 35.2 | 35.2 | 31.9 | 31.9 | 31.9 | | |
| | | SHC | 15.4 | 20.6 | 25.8 | 13.8 | 19.0 | 24.2 | 12.1 | 17.3 | 22.5 | 10.4 | 15.6 | 20.7 | | |
| 76 | | TC | — | 44.5 | 44.5 | — | 41.5 | 41.5 | — | 38.3 | 38.3 | — | 34.9 | 34.9 | | |
| | | SHC | — | 16.8 | 22.3 | — | 15.2 | 20.7 | — | 13.6 | 19.0 | — | 11.8 | 17.2 | | |
| 1200 Cfm | | EAT (wb) | 58 | TC | 33.1 | 33.1 | 37.7 | 30.9 | 30.9 | 35.3 | 28.6 | 28.6 | 32.8 | 26.1 | 26.1 | 30.1 |
| | | | | SHC | 28.5 | 33.1 | 37.7 | 26.5 | 30.9 | 35.3 | 24.4 | 28.6 | 32.8 | 22.1 | 26.1 | 30.1 |
| | 62 | | TC | 34.0 | 34.0 | 38.0 | 31.4 | 31.4 | 36.2 | 29.4 | 29.4 | 31.6 | 26.8 | 26.8 | 29.2 | |
| | | | SHC | 26.6 | 32.3 | 38.0 | 24.8 | 30.5 | 36.2 | 21.8 | 26.7 | 31.6 | 19.8 | 24.5 | 29.2 | |
| | 67 | | TC | 37.9 | 37.9 | 37.9 | 35.1 | 35.1 | 35.1 | 32.2 | 32.2 | 32.2 | 29.0 | 29.0 | 29.0 | |
| | | | SHC | 21.5 | 27.2 | 33.0 | 19.8 | 25.6 | 31.4 | 18.1 | 23.9 | 29.6 | 16.3 | 22.1 | 27.8 | |
| | 72 | TC | 42.1 | 42.1 | 42.1 | 39.1 | 39.1 | 39.1 | 36.0 | 36.0 | 36.0 | 32.7 | 32.7 | 32.7 | | |
| | | SHC | 16.1 | 21.9 | 27.8 | 14.4 | 20.3 | 26.1 | 12.7 | 18.6 | 24.4 | 11.0 | 16.8 | 22.6 | | |
| | 76 | TC | — | 45.5 | 45.5 | — | 42.5 | 42.5 | — | 39.2 | 39.2 | — | 35.6 | 35.6 | | |
| | | SHC | — | 17.6 | 23.7 | — | 16.0 | 22.0 | — | 14.3 | 20.3 | — | 12.5 | 18.5 | | |
| | 1350 Cfm | EAT (wb) | 58 | TC | 34.6 | 34.6 | 39.3 | 32.3 | 32.3 | 36.9 | 29.9 | 29.9 | 34.2 | 27.3 | 27.3 | 31.4 |
| | | | | SHC | 29.9 | 34.6 | 39.3 | 27.8 | 32.3 | 36.9 | 25.5 | 29.9 | 34.2 | 23.1 | 27.3 | 31.4 |
| 62 | | | TC | 35.3 | 35.3 | 38.8 | 33.0 | 33.0 | 36.2 | 30.5 | 30.5 | 33.4 | 27.3 | 27.3 | 32.8 | |
| | | | SHC | 27.4 | 33.1 | 38.8 | 25.2 | 30.7 | 36.2 | 23.0 | 28.2 | 33.4 | 21.8 | 27.3 | 32.8 | |
| 67 | | | TC | 38.7 | 38.7 | 38.7 | 35.9 | 35.9 | 35.9 | 32.9 | 32.9 | 32.9 | 29.6 | 29.6 | 30.2 | |
| | | | SHC | 22.7 | 29.1 | 35.5 | 21.0 | 27.4 | 33.8 | 19.3 | 25.7 | 32.1 | 17.4 | 23.8 | 30.2 | |
| 72 | | TC | 42.9 | 42.9 | 42.9 | 39.9 | 39.9 | 39.9 | 36.7 | 36.7 | 36.7 | 33.2 | 33.2 | 33.2 | | |
| | | SHC | 16.7 | 23.1 | 29.6 | 15.0 | 21.4 | 27.9 | 13.3 | 19.7 | 26.1 | 11.5 | 17.9 | 24.3 | | |
| 76 | | TC | — | 46.4 | 46.4 | — | 43.2 | 43.2 | — | 39.8 | 39.8 | — | 36.2 | 36.2 | | |
| | | SHC | — | 18.3 | 25.0 | — | 16.6 | 23.3 | — | 14.9 | 21.5 | — | 13.1 | 19.7 | | |
| 1500 Cfm | | EAT (wb) | 58 | TC | 29.3 | 29.3 | 33.4 | 27.3 | 27.3 | 31.3 | 25.2 | 25.2 | 29.1 | 23.0 | 23.0 | 26.6 |
| | | | | SHC | 25.1 | 29.3 | 33.4 | 23.3 | 27.3 | 31.3 | 21.4 | 25.2 | 29.1 | 19.3 | 23.0 | 26.6 |
| | 62 | | TC | 31.6 | 31.6 | 31.6 | 29.2 | 29.2 | 30.0 | 26.7 | 26.7 | 28.3 | 23.9 | 23.9 | 26.5 | |
| | | | SHC | 22.6 | 27.1 | 31.6 | 21.0 | 25.5 | 30.0 | 19.4 | 23.8 | 28.3 | 17.6 | 22.1 | 26.5 | |
| | 67 | | TC | 35.5 | 35.5 | 35.5 | 33.0 | 33.0 | 33.0 | 30.3 | 30.3 | 30.3 | 27.3 | 27.3 | 27.3 | |
| | | | SHC | 18.7 | 23.2 | 27.7 | 17.1 | 21.6 | 26.1 | 15.5 | 20.0 | 24.4 | 13.8 | 18.2 | 22.7 | |
| | 72 | TC | 39.6 | 39.6 | 39.6 | 36.9 | 36.9 | 36.9 | 34.0 | 34.0 | 34.0 | 30.9 | 30.9 | 30.9 | | |
| | | SHC | 14.7 | 19.2 | 23.8 | 13.1 | 17.6 | 22.2 | 11.5 | 16.0 | 20.5 | 9.8 | 14.3 | 18.8 | | |
| | 76 | TC | — | 43.1 | 43.1 | — | 40.2 | 40.2 | — | 37.2 | 37.2 | — | 33.9 | 33.9 | | |
| | | SHC | — | 16.0 | 20.9 | — | 14.4 | 19.3 | — | 12.8 | 17.6 | — | 11.1 | 15.8 | | |

LEGEND

- Do Not Operate
- Cfm** — Cubic Feet Per Minute (Supply Air)
- EAT (db)** — Entering Air Temperature (dry bulb)
- EAT (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 8.



48/50GC**04 LOW STAGE COOLING CAPACITIES

| 48/50GC**04 | | | | AMBIENT TEMPERATURE (F) | | | | | | | | | | | | |
|-------------|-------------|-------------|------|-------------------------|------|------|----------|------|------|----------|------|------|----------|------|------|------|
| | | | | 85 | | | 95 | | | 105 | | | 115 | | | |
| | | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | |
| | | | | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | |
| 600 Cfm | EAT (wb) | 58 | TC | 20.8 | 20.8 | 23.6 | 19.7 | 19.7 | 22.4 | 18.5 | 18.5 | 21.1 | 17.3 | 17.3 | 19.7 | |
| | | | SHC | 18.1 | 20.8 | 23.6 | 17.1 | 19.7 | 22.4 | 16.0 | 18.5 | 21.1 | 14.9 | 17.3 | 19.7 | |
| | | 62 | TC | 22.3 | 22.3 | 22.5 | 20.9 | 20.9 | 21.7 | 19.4 | 19.4 | 20.8 | 17.7 | 17.7 | 19.9 | |
| | | | SHC | 16.4 | 19.4 | 22.5 | 15.6 | 18.6 | 21.7 | 14.8 | 17.8 | 20.8 | 13.9 | 16.9 | 19.9 | |
| | | 67 | TC | 25.0 | 25.0 | 25.0 | 23.5 | 23.5 | 23.5 | 21.9 | 21.9 | 21.9 | 20.1 | 20.1 | 20.1 | |
| | | | SHC | 13.7 | 16.7 | 19.8 | 12.9 | 16.0 | 19.0 | 12.1 | 15.1 | 18.2 | 11.2 | 14.3 | 17.3 | |
| | 72 | TC | 27.9 | 27.9 | 27.9 | 26.3 | 26.3 | 26.3 | 24.6 | 24.6 | 24.6 | 22.7 | 22.7 | 22.7 | | |
| | | SHC | 10.9 | 14.0 | 17.1 | 10.1 | 13.2 | 16.3 | 9.3 | 12.4 | 15.5 | 8.5 | 11.5 | 14.6 | | |
| | 76 | TC | — | 30.4 | 30.4 | — | 28.8 | 28.8 | — | 26.9 | 26.9 | — | 24.9 | 24.9 | | |
| | | SHC | — | 11.7 | 15.0 | — | 11.0 | 14.2 | — | 10.2 | 13.4 | — | 9.3 | 12.5 | | |
| | 700 Cfm | EAT (wb) | 58 | TC | 22.2 | 22.2 | 25.2 | 21.0 | 21.0 | 23.9 | 19.8 | 19.8 | 22.5 | 18.4 | 18.4 | 21.0 |
| | | | | SHC | 19.3 | 22.2 | 25.2 | 18.2 | 21.0 | 23.9 | 17.1 | 19.8 | 22.5 | 15.9 | 18.4 | 21.0 |
| 62 | | | TC | 23.2 | 23.2 | 24.8 | 21.7 | 21.7 | 23.9 | 20.1 | 20.1 | 23.0 | 18.9 | 18.9 | 20.4 | |
| | | | SHC | 17.8 | 21.3 | 24.8 | 17.0 | 20.4 | 23.9 | 16.1 | 19.5 | 23.0 | 14.4 | 17.4 | 20.4 | |
| 67 | | | TC | 25.9 | 25.9 | 25.9 | 24.3 | 24.3 | 24.3 | 22.7 | 22.7 | 22.7 | 20.8 | 20.8 | 20.8 | |
| | | | SHC | 14.7 | 18.1 | 21.6 | 13.8 | 17.3 | 20.8 | 13.0 | 16.5 | 20.0 | 12.1 | 15.6 | 19.1 | |
| 72 | | TC | 28.9 | 28.9 | 28.9 | 27.2 | 27.2 | 27.2 | 25.4 | 25.4 | 25.4 | 23.4 | 23.4 | 23.4 | | |
| | | SHC | 11.4 | 14.9 | 18.5 | 10.6 | 14.1 | 17.7 | 9.8 | 13.3 | 16.8 | 8.9 | 12.4 | 15.9 | | |
| 76 | | TC | — | 31.5 | 31.5 | — | 29.7 | 29.7 | — | 27.8 | 27.8 | — | 25.7 | 25.7 | | |
| | | SHC | — | 12.3 | 16.0 | — | 11.5 | 15.2 | — | 10.7 | 14.3 | — | 9.8 | 13.4 | | |
| 800 Cfm | | EAT (wb) | 58 | TC | 23.4 | 23.4 | 26.5 | 22.2 | 22.2 | 25.1 | 20.8 | 20.8 | 23.6 | 19.4 | 19.4 | 22.1 |
| | | | | SHC | 20.3 | 23.4 | 26.5 | 19.2 | 22.2 | 25.1 | 18.0 | 20.8 | 23.6 | 16.8 | 19.4 | 22.1 |
| | 62 | | TC | 23.9 | 23.9 | 26.8 | 22.7 | 22.7 | 24.6 | 21.3 | 21.3 | 23.2 | 19.4 | 19.4 | 23.0 | |
| | | | SHC | 19.1 | 22.9 | 26.8 | 17.6 | 21.1 | 24.6 | 16.4 | 19.8 | 23.2 | 15.9 | 19.4 | 23.0 | |
| | 67 | | TC | 26.7 | 26.7 | 26.7 | 25.0 | 25.0 | 25.0 | 23.3 | 23.3 | 23.3 | 21.3 | 21.3 | 21.3 | |
| | | | SHC | 15.5 | 19.5 | 23.4 | 14.7 | 18.6 | 22.6 | 13.8 | 17.8 | 21.7 | 12.9 | 16.9 | 20.8 | |
| | 72 | TC | 29.7 | 29.7 | 29.7 | 28.0 | 28.0 | 28.0 | 26.1 | 26.1 | 26.1 | 24.0 | 24.0 | 24.0 | | |
| | | SHC | 11.8 | 15.8 | 19.8 | 11.0 | 15.0 | 19.0 | 10.2 | 14.1 | 18.1 | 9.3 | 13.2 | 17.2 | | |
| | 76 | TC | — | 32.3 | 32.3 | — | 30.5 | 30.5 | — | 28.4 | 28.4 | — | 26.3 | 26.3 | | |
| | | SHC | — | 12.8 | 16.9 | — | 12.0 | 16.1 | — | 11.2 | 15.2 | — | 10.3 | 14.3 | | |
| | 900 Cfm | EAT (wb) | 58 | TC | 24.4 | 24.4 | 27.6 | 23.1 | 23.1 | 26.2 | 21.7 | 21.7 | 24.7 | 20.2 | 20.2 | 23.0 |
| | | | | SHC | 21.2 | 24.4 | 27.6 | 20.1 | 23.1 | 26.2 | 18.8 | 21.7 | 24.7 | 17.5 | 20.2 | 23.0 |
| 62 | | | TC | 25.0 | 25.0 | 26.8 | 23.6 | 23.6 | 25.4 | 21.8 | 21.8 | 25.7 | 20.2 | 20.2 | 23.9 | |
| | | | SHC | 19.3 | 23.1 | 26.8 | 18.2 | 21.8 | 25.4 | 17.9 | 21.8 | 25.7 | 16.6 | 20.2 | 23.9 | |
| 67 | | | TC | 27.3 | 27.3 | 27.3 | 25.6 | 25.6 | 25.6 | 23.7 | 23.7 | 23.7 | 21.8 | 21.8 | 22.5 | |
| | | | SHC | 16.3 | 20.7 | 25.1 | 15.5 | 19.9 | 24.3 | 14.6 | 19.0 | 23.4 | 13.7 | 18.1 | 22.5 | |
| 72 | | TC | 30.3 | 30.3 | 30.3 | 28.5 | 28.5 | 28.5 | 26.6 | 26.6 | 26.6 | 24.5 | 24.5 | 24.5 | | |
| | | SHC | 12.2 | 16.6 | 21.0 | 11.4 | 15.8 | 20.2 | 10.5 | 14.9 | 19.3 | 9.6 | 14.0 | 18.4 | | |
| 76 | | TC | — | 33.0 | 33.0 | — | 31.1 | 31.1 | — | 29.0 | 29.0 | — | 26.7 | 26.7 | | |
| | | SHC | — | 13.3 | 17.8 | — | 12.5 | 17.0 | — | 11.6 | 16.1 | — | 10.7 | 15.2 | | |
| 1000 Cfm | | EAT (wb) | 58 | TC | 25.3 | 25.3 | 28.6 | 24.0 | 24.0 | 27.1 | 22.5 | 22.5 | 25.5 | 20.9 | 20.9 | 23.8 |
| | | | | SHC | 22.0 | 25.3 | 28.6 | 20.8 | 24.0 | 27.1 | 19.5 | 22.5 | 25.5 | 18.1 | 20.9 | 23.8 |
| | 62 | | TC | 25.8 | 25.8 | 27.8 | 24.0 | 24.0 | 28.2 | 22.5 | 22.5 | 26.6 | 21.0 | 21.0 | 24.7 | |
| | | | SHC | 20.0 | 23.9 | 27.8 | 19.8 | 24.0 | 28.2 | 18.5 | 22.5 | 26.6 | 17.2 | 21.0 | 24.7 | |
| | 67 | | TC | 27.7 | 27.7 | 27.7 | 26.0 | 26.0 | 26.0 | 24.1 | 24.1 | 25.0 | 22.1 | 22.1 | 24.0 | |
| | | | SHC | 17.1 | 21.9 | 26.7 | 16.3 | 21.1 | 25.9 | 15.4 | 20.2 | 25.0 | 14.4 | 19.2 | 24.0 | |
| | 72 | TC | 30.8 | 30.8 | 30.8 | 29.0 | 29.0 | 29.0 | 27.0 | 27.0 | 27.0 | 24.8 | 24.8 | 24.8 | | |
| | | SHC | 12.6 | 17.4 | 22.2 | 11.7 | 16.6 | 21.4 | 10.9 | 15.7 | 20.5 | 10.0 | 14.8 | 19.6 | | |
| | 76 | TC | — | 33.5 | 33.5 | — | 31.5 | 31.5 | — | 29.4 | 29.4 | — | 27.1 | 27.1 | | |
| | | SHC | — | 13.7 | 18.7 | — | 12.9 | 17.8 | — | 12.0 | 16.9 | — | 11.1 | 16.0 | | |

LEGEND

- Do Not Operate
- Cfm** — Cubic Feet Per Minute (Supply Air)
- EAT (db)** — Entering Air Temperature (dry bulb)
- EAT (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 8.

48/50GC*N04 — UNIT WITH HUMIDI-MIZER® SYSTEM IN SUBCOOLING MODE — COOLING CAPACITIES

| TEMP (F) AIR ENTERING CONDENSER (Edb) | | AIR ENTERING EVAPORATOR — SCFM/BF | | | | | | | | |
|---|-----|-----------------------------------|------|------|-------------|------|------|-------------|------|------|
| | | 900 / 0.01 | | | 1200 / 0.02 | | | 1500 / 0.04 | | |
| | | Air Entering Evaporator — Ewb (F) | | | | | | | | |
| | | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 |
| 75 | TC | 44.4 | 40.1 | 36.3 | 46.8 | 42.7 | 38.9 | 48.6 | 44.1 | 40.6 |
| | SHC | 19.7 | 24.4 | 29.1 | 22.5 | 28.9 | 35.1 | 25.3 | 32.8 | 40.2 |
| | kW | 2.02 | 1.97 | 1.93 | 1.96 | 2.00 | 2.05 | 2.08 | 2.02 | 1.98 |
| 85 | TC | 41.9 | 37.9 | 34.2 | 44.4 | 40.3 | 36.7 | 45.8 | 41.7 | 38.4 |
| | SHC | 17.5 | 22.3 | 27.2 | 20.3 | 26.6 | 33.0 | 22.8 | 30.6 | 38.0 |
| | kW | 2.28 | 2.23 | 2.19 | 2.22 | 2.26 | 2.31 | 2.33 | 2.28 | 2.24 |
| 95 | TC | 39.4 | 35.6 | 32.1 | 41.6 | 37.8 | 34.3 | 43.0 | 39.1 | 36.0 |
| | SHC | 15.1 | 20.2 | 25.3 | 17.7 | 24.4 | 30.9 | 20.1 | 28.2 | 35.7 |
| | kW | 2.56 | 2.51 | 2.47 | 2.50 | 2.54 | 2.60 | 2.62 | 2.56 | 2.52 |
| 105 | TC | 36.6 | 33.1 | 29.9 | 38.7 | 35.1 | 31.9 | 40.0 | 36.3 | 33.4 |
| | SHC | 12.6 | 18.0 | 23.3 | 15.1 | 21.9 | 28.7 | 17.4 | 25.7 | 33.4 |
| | kW | 2.88 | 2.83 | 2.79 | 2.82 | 2.86 | 2.91 | 2.93 | 2.88 | 2.84 |
| 115 | TC | 33.7 | 30.4 | 27.4 | 35.6 | 32.3 | 29.2 | 36.8 | 33.3 | 30.7 |
| | SHC | 10.0 | 15.6 | 21.1 | 12.3 | 19.4 | 26.3 | 14.5 | 23.0 | 30.7 |
| | kW | 3.23 | 3.19 | 3.15 | 3.17 | 3.21 | 3.26 | 3.28 | 3.23 | 3.19 |
| 125 | TC | 30.6 | 27.5 | 24.8 | 32.3 | 29.2 | 26.4 | 33.3 | 30.2 | 27.8 |
| | SHC | 7.3 | 13.1 | 18.8 | 9.3 | 16.7 | 23.8 | 11.4 | 20.2 | 27.8 |
| | kW | 3.62 | 3.59 | 3.56 | 3.57 | 3.60 | 3.65 | 3.66 | 3.62 | 3.59 |

48/50GC*N04 — UNIT WITH HUMIDI-MIZER SYSTEM IN HOT GAS REHEAT MODE — COOLING CAPACITIES

| TEMP (F) AIR ENTERING CONDENSER (Edb) | | AIR ENTERING EVAPORATOR — Ewb (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 — Cfm | | | | | | | | |
| | | 900 | 1200 | 1500 | 900 | 1200 | 1500 | 900 | 1200 | 1500 |
| 80 | TC | 13.33 | 13.89 | 14.37 | 13.49 | 13.96 | 14.41 | 13.65 | 14.37 | 14.82 |
| | SHC | 4.13 | 5.35 | 6.60 | 2.60 | 3.51 | 4.55 | 1.28 | 2.23 | 3.10 |
| | kW | 1.94 | 2.01 | 2.02 | 2.04 | 2.13 | 2.15 | 2.12 | 2.14 | 2.16 |
| 75 | TC | 13.45 | 14.19 | 14.65 | 13.91 | 14.65 | 15.12 | 14.33 | 15.08 | 15.55 |
| | SHC | 4.25 | 5.64 | 6.87 | 3.01 | 4.17 | 5.22 | 1.94 | 2.91 | 3.80 |
| | kW | 1.98 | 2.00 | 2.01 | 1.99 | 2.01 | 2.02 | 2.00 | 2.02 | 2.03 |
| 70 | TC | 13.77 | 14.63 | 15.09 | 14.22 | 14.95 | 15.72 | 14.91 | 15.67 | 16.29 |
| | SHC | 4.55 | 6.05 | 7.29 | 3.30 | 4.45 | 5.80 | 2.51 | 3.49 | 4.52 |
| | kW | 1.96 | 1.94 | 1.96 | 1.97 | 2.00 | 1.94 | 1.91 | 1.94 | 1.92 |
| 60 | TC | 14.28 | 14.98 | 15.69 | 14.72 | 15.70 | 16.16 | 15.11 | 15.81 | 16.57 |
| | SHC | 5.03 | 6.39 | 7.87 | 3.77 | 5.18 | 6.22 | 2.68 | 3.61 | 4.78 |
| | kW | 1.93 | 1.96 | 1.92 | 1.95 | 1.92 | 1.94 | 1.97 | 2.00 | 1.96 |
| 50 | TC | 14.43 | 15.06 | 15.98 | 14.83 | 15.98 | 16.41 | 15.19 | 16.37 | 16.79 |
| | SHC | 5.18 | 6.47 | 8.14 | 3.88 | 5.44 | 6.46 | 2.75 | 4.14 | 4.99 |
| | kW | 1.98 | 2.03 | 1.94 | 2.01 | 1.94 | 1.97 | 2.03 | 1.96 | 1.99 |
| 40 | TC | 14.34 | 15.70 | 16.08 | 15.47 | 16.44 | 16.48 | 15.82 | 16.81 | 17.22 |
| | SHC | 5.10 | 7.08 | 8.24 | 4.49 | 5.88 | 6.52 | 3.35 | 4.57 | 5.40 |
| | kW | 2.07 | 1.95 | 1.99 | 1.93 | 1.91 | 2.02 | 1.96 | 1.94 | 1.97 |

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



48/50GC**05 HIGH STAGE COOLING CAPACITIES

| 48/50GC**05 | | | | AMBIENT TEMPERATURE (F) | | | | | | | | | | | | |
|-------------|-------------|-------------|------|-------------------------|------|------|----------|------|------|----------|------|------|----------|------|------|------|
| | | | | 85 | | | 95 | | | 105 | | | 115 | | | |
| | | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | |
| | | | | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | |
| 1200 Cfm | EAT (wb) | 58 | TC | 42.6 | 42.6 | 48.4 | 40.2 | 40.2 | 45.8 | 37.6 | 37.6 | 43.0 | 35.0 | 35.0 | 40.1 | |
| | | | SHC | 36.8 | 42.6 | 48.4 | 34.6 | 40.2 | 45.8 | 32.3 | 37.6 | 43.0 | 30.0 | 35.0 | 40.1 | |
| | | 62 | TC | 45.7 | 45.7 | 45.7 | 42.6 | 42.6 | 43.6 | 39.5 | 39.5 | 41.7 | 36.3 | 36.3 | 39.8 | |
| | | | SHC | 33.0 | 39.2 | 45.4 | 31.2 | 37.4 | 43.6 | 29.3 | 35.5 | 41.7 | 27.5 | 33.6 | 39.8 | |
| | | 67 | TC | 50.5 | 50.5 | 50.5 | 47.3 | 47.3 | 47.3 | 44.0 | 44.0 | 44.0 | 40.6 | 40.6 | 40.6 | |
| | | | SHC | 27.3 | 33.5 | 39.7 | 25.5 | 31.7 | 37.9 | 23.7 | 29.9 | 36.1 | 21.8 | 28.0 | 34.2 | |
| | 72 | TC | 55.7 | 55.7 | 55.7 | 52.3 | 52.3 | 52.3 | 48.7 | 48.7 | 48.7 | 45.1 | 45.1 | 45.1 | | |
| | | SHC | 21.3 | 27.6 | 33.9 | 19.6 | 25.8 | 32.1 | 17.8 | 24.0 | 30.3 | 16.0 | 22.2 | 28.4 | | |
| | 76 | TC | — | 60.0 | 60.0 | — | 56.4 | 56.4 | — | 52.6 | 52.6 | — | 48.8 | 48.8 | | |
| | | SHC | — | 22.8 | 29.4 | — | 21.1 | 27.7 | — | 19.3 | 25.8 | — | 17.5 | 24.0 | | |
| | 1400 Cfm | EAT (wb) | 58 | TC | 45.3 | 45.3 | 51.4 | 42.7 | 42.7 | 48.6 | 40.0 | 40.0 | 45.6 | 37.2 | 37.2 | 42.6 |
| | | | | SHC | 39.2 | 45.3 | 51.4 | 36.9 | 42.7 | 48.6 | 34.4 | 40.0 | 45.6 | 31.9 | 37.2 | 42.6 |
| 62 | | | TC | 47.3 | 47.3 | 50.1 | 44.1 | 44.1 | 48.1 | 40.9 | 40.9 | 46.1 | 37.6 | 37.6 | 43.9 | |
| | | | SHC | 35.8 | 43.0 | 50.1 | 33.9 | 41.0 | 48.1 | 32.0 | 39.0 | 46.1 | 29.9 | 36.9 | 43.9 | |
| 67 | | | TC | 52.2 | 52.2 | 52.2 | 48.8 | 48.8 | 48.8 | 45.3 | 45.3 | 45.3 | 41.8 | 41.8 | 41.8 | |
| | | | SHC | 29.2 | 36.3 | 43.5 | 27.3 | 34.5 | 41.6 | 25.4 | 32.6 | 39.7 | 23.6 | 30.7 | 37.8 | |
| 72 | | TC | 57.4 | 57.4 | 57.4 | 53.8 | 53.8 | 53.8 | 50.1 | 50.1 | 50.1 | 46.3 | 46.3 | 46.3 | | |
| | | SHC | 22.2 | 29.4 | 36.7 | 20.4 | 27.6 | 34.8 | 18.6 | 25.8 | 33.0 | 16.7 | 23.9 | 31.1 | | |
| 76 | | TC | — | 61.6 | 61.6 | — | 57.9 | 57.9 | — | 54.0 | 54.0 | — | 50.0 | 50.0 | | |
| | | SHC | — | 23.9 | 31.4 | — | 22.1 | 29.6 | — | 20.3 | 27.7 | — | 18.4 | 25.8 | | |
| 1600 Cfm | | EAT (wb) | 58 | TC | 47.6 | 47.6 | 54.0 | 44.8 | 44.8 | 50.9 | 42.0 | 42.0 | 47.8 | 39.0 | 39.0 | 44.6 |
| | | | | SHC | 41.2 | 47.6 | 54.0 | 38.7 | 44.8 | 50.9 | 36.1 | 42.0 | 47.8 | 33.5 | 39.0 | 44.6 |
| | 62 | | TC | 48.6 | 48.6 | 54.3 | 45.4 | 45.4 | 52.2 | 42.4 | 42.4 | 48.5 | 39.8 | 39.8 | 43.7 | |
| | | | SHC | 38.4 | 46.3 | 54.3 | 36.4 | 44.3 | 52.2 | 33.6 | 41.1 | 48.5 | 30.4 | 37.1 | 43.7 | |
| | 67 | | TC | 53.5 | 53.5 | 53.5 | 50.0 | 50.0 | 50.0 | 46.3 | 46.3 | 46.3 | 42.7 | 42.7 | 42.7 | |
| | | | SHC | 30.9 | 38.9 | 47.0 | 29.0 | 37.1 | 45.1 | 27.1 | 35.1 | 43.2 | 25.2 | 33.2 | 41.3 | |
| | 72 | TC | 58.6 | 58.6 | 58.6 | 54.9 | 54.9 | 54.9 | 51.1 | 51.1 | 51.1 | 47.2 | 47.2 | 47.2 | | |
| | | SHC | 23.0 | 31.1 | 39.2 | 21.2 | 29.3 | 37.4 | 19.3 | 27.4 | 35.5 | 17.4 | 25.5 | 33.6 | | |
| | 76 | TC | — | 62.9 | 62.9 | — | 59.0 | 59.0 | — | 55.0 | 55.0 | — | 51.0 | 51.0 | | |
| | | SHC | — | 24.8 | 33.2 | — | 23.0 | 31.3 | — | 21.1 | 29.4 | — | 19.3 | 27.5 | | |
| | 1800 Cfm | EAT (wb) | 58 | TC | 49.5 | 49.5 | 56.1 | 46.6 | 46.6 | 52.9 | 43.6 | 43.6 | 49.6 | 40.5 | 40.5 | 46.3 |
| | | | | SHC | 42.9 | 49.5 | 56.1 | 40.3 | 46.6 | 52.9 | 37.6 | 43.6 | 49.6 | 34.8 | 40.5 | 46.3 |
| 62 | | | TC | 50.1 | 50.1 | 56.5 | 47.5 | 47.5 | 51.7 | 43.7 | 43.7 | 51.7 | 40.6 | 40.6 | 48.2 | |
| | | | SHC | 39.9 | 48.2 | 56.5 | 36.7 | 44.2 | 51.7 | 35.6 | 43.7 | 51.7 | 32.9 | 40.6 | 48.2 | |
| 67 | | | TC | 54.4 | 54.4 | 54.4 | 50.8 | 50.8 | 50.8 | 47.1 | 47.1 | 47.1 | 43.4 | 43.4 | 44.6 | |
| | | | SHC | 32.5 | 41.4 | 50.4 | 30.6 | 39.5 | 48.5 | 28.7 | 37.6 | 46.5 | 26.7 | 35.6 | 44.6 | |
| 72 | | TC | 59.6 | 59.6 | 59.6 | 55.8 | 55.8 | 55.8 | 51.9 | 51.9 | 51.9 | 47.9 | 47.9 | 47.9 | | |
| | | SHC | 23.7 | 32.7 | 41.7 | 21.9 | 30.8 | 39.8 | 20.0 | 28.9 | 37.9 | 18.1 | 27.0 | 36.0 | | |
| 76 | | TC | — | 63.9 | 63.9 | — | 59.9 | 59.9 | — | 55.8 | 55.8 | — | 51.7 | 51.7 | | |
| | | SHC | — | 25.7 | 34.9 | — | 23.8 | 33.0 | — | 22.0 | 31.1 | — | 20.1 | 29.2 | | |
| 2000 Cfm | | EAT (wb) | 58 | TC | 51.1 | 51.1 | 57.9 | 48.1 | 48.1 | 54.6 | 45.0 | 45.0 | 51.2 | 41.8 | 41.8 | 47.7 |
| | | | | SHC | 44.3 | 51.1 | 57.9 | 41.6 | 48.1 | 54.6 | 38.8 | 45.0 | 51.2 | 36.0 | 41.8 | 47.7 |
| | 62 | | TC | 52.0 | 52.0 | 56.4 | 48.1 | 48.1 | 56.8 | 45.0 | 45.0 | 53.3 | 41.9 | 41.9 | 49.7 | |
| | | | SHC | 40.3 | 48.3 | 56.4 | 39.5 | 48.1 | 56.8 | 36.8 | 45.0 | 53.3 | 34.0 | 41.9 | 49.7 | |
| | 67 | | TC | 55.2 | 55.2 | 55.2 | 51.5 | 51.5 | 51.7 | 47.8 | 47.8 | 49.7 | 43.9 | 43.9 | 47.7 | |
| | | | SHC | 34.0 | 43.8 | 53.7 | 32.1 | 41.9 | 51.7 | 30.1 | 39.9 | 49.7 | 28.1 | 37.9 | 47.7 | |
| | 72 | TC | 60.4 | 60.4 | 60.4 | 56.5 | 56.5 | 56.5 | 52.5 | 52.5 | 52.5 | 48.5 | 48.5 | 48.5 | | |
| | | SHC | 24.3 | 34.2 | 44.1 | 22.5 | 32.3 | 42.2 | 20.6 | 30.4 | 40.2 | 18.7 | 28.5 | 38.3 | | |
| | 76 | TC | — | 64.7 | 64.7 | — | 60.6 | 60.6 | — | 56.5 | 56.5 | — | 52.3 | 52.3 | | |
| | | SHC | — | 26.5 | 36.5 | — | 24.6 | 34.6 | — | 22.7 | 32.7 | — | 20.8 | 30.7 | | |

LEGEND

- Do Not Operate
- Cfm** — Cubic Feet Per Minute (Supply Air)
- EAT (db)** — Entering Air Temperature (dry bulb)
- EAT (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 8.

48/50GC**05 LOW STAGE COOLING CAPACITIES

| 48/50GC**05 | | | | AMBIENT TEMPERATURE (F) | | | | | | | | | | | | |
|-------------|-------------|-------------|------|-------------------------|------|------|----------|------|------|----------|------|------|----------|------|------|------|
| | | | | 85 | | | 95 | | | 105 | | | 115 | | | |
| | | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | |
| | | | | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | |
| 900 Cfm | EAT (wb) | 58 | TC | 30.3 | 30.3 | 34.3 | 28.5 | 28.5 | 32.4 | 26.6 | 26.6 | 30.2 | 24.5 | 24.5 | 27.9 | |
| | | | SHC | 26.2 | 30.3 | 34.3 | 24.6 | 28.5 | 32.4 | 22.9 | 26.6 | 30.2 | 21.0 | 24.5 | 27.9 | |
| | | 62 | TC | 31.9 | 31.9 | 33.1 | 29.7 | 29.7 | 31.8 | 27.3 | 27.3 | 30.4 | 24.7 | 24.7 | 28.8 | |
| | | | SHC | 23.9 | 28.5 | 33.1 | 22.6 | 27.2 | 31.8 | 21.3 | 25.8 | 30.4 | 19.8 | 24.3 | 28.8 | |
| | | 67 | TC | 35.6 | 35.6 | 35.6 | 33.2 | 33.2 | 33.2 | 30.7 | 30.7 | 30.7 | 28.0 | 28.0 | 28.0 | |
| | | | SHC | 19.7 | 24.3 | 28.9 | 18.5 | 23.1 | 27.7 | 17.2 | 21.8 | 26.4 | 15.8 | 20.4 | 25.0 | |
| | 72 | TC | 39.5 | 39.5 | 39.5 | 37.1 | 37.1 | 37.1 | 34.4 | 34.4 | 34.4 | 31.5 | 31.5 | 31.5 | | |
| | | SHC | 15.4 | 20.0 | 24.7 | 14.2 | 18.8 | 23.5 | 12.9 | 17.6 | 22.2 | 11.6 | 16.2 | 20.9 | | |
| | 76 | TC | — | 42.9 | 42.9 | — | 40.4 | 40.4 | — | 37.6 | 37.6 | — | 34.6 | 34.6 | | |
| | | SHC | — | 16.6 | 21.5 | — | 15.4 | 20.3 | — | 14.2 | 19.0 | — | 12.9 | 17.6 | | |
| | 1050 Cfm | EAT (wb) | 58 | TC | 32.2 | 32.2 | 36.4 | 30.3 | 30.3 | 34.4 | 28.2 | 28.2 | 32.1 | 26.0 | 26.0 | 29.7 |
| | | | | SHC | 27.9 | 32.2 | 36.4 | 26.2 | 30.3 | 34.4 | 24.4 | 28.2 | 32.1 | 22.4 | 26.0 | 29.7 |
| 62 | | | TC | 33.1 | 33.1 | 36.4 | 30.8 | 30.8 | 35.0 | 28.9 | 28.9 | 31.6 | 26.1 | 26.1 | 30.9 | |
| | | | SHC | 25.9 | 31.2 | 36.4 | 24.6 | 29.8 | 35.0 | 22.3 | 27.0 | 31.6 | 21.2 | 26.1 | 30.9 | |
| 67 | | | TC | 36.8 | 36.8 | 36.8 | 34.3 | 34.3 | 34.3 | 31.7 | 31.7 | 31.7 | 28.8 | 28.8 | 28.8 | |
| | | | SHC | 21.1 | 26.4 | 31.7 | 19.8 | 25.1 | 30.4 | 18.5 | 23.8 | 29.1 | 17.1 | 22.4 | 27.7 | |
| 72 | | TC | 40.8 | 40.8 | 40.8 | 38.2 | 38.2 | 38.2 | 35.4 | 35.4 | 35.4 | 32.4 | 32.4 | 32.4 | | |
| | | SHC | 16.0 | 21.4 | 26.7 | 14.8 | 20.2 | 25.5 | 13.6 | 18.9 | 24.2 | 12.2 | 17.5 | 22.8 | | |
| 76 | | TC | — | 44.2 | 44.2 | — | 41.6 | 41.6 | — | 38.6 | 38.6 | — | 35.5 | 35.5 | | |
| | | SHC | — | 17.4 | 23.0 | — | 16.2 | 21.7 | — | 14.9 | 20.4 | — | 13.6 | 19.0 | | |
| 1200 Cfm | | EAT (wb) | 58 | TC | 33.7 | 33.7 | 38.2 | 31.8 | 31.8 | 36.0 | 29.6 | 29.6 | 33.7 | 27.3 | 27.3 | 31.1 |
| | | | | SHC | 29.3 | 33.7 | 38.2 | 27.5 | 31.8 | 36.0 | 25.6 | 29.6 | 33.7 | 23.5 | 27.3 | 31.1 |
| | 62 | | TC | 34.5 | 34.5 | 37.7 | 32.3 | 32.3 | 36.0 | 29.7 | 29.7 | 35.1 | 27.4 | 27.4 | 32.4 | |
| | | | SHC | 26.9 | 32.3 | 37.7 | 25.4 | 30.7 | 36.0 | 24.3 | 29.7 | 35.1 | 22.3 | 27.4 | 32.4 | |
| | 67 | | TC | 37.7 | 37.7 | 37.7 | 35.2 | 35.2 | 35.2 | 32.4 | 32.4 | 32.4 | 29.5 | 29.5 | 30.2 | |
| | | | SHC | 22.3 | 28.3 | 34.3 | 21.1 | 27.0 | 33.0 | 19.7 | 25.7 | 31.7 | 18.3 | 24.3 | 30.2 | |
| | 72 | TC | 41.8 | 41.8 | 41.8 | 39.1 | 39.1 | 39.1 | 36.2 | 36.2 | 36.2 | 33.2 | 33.2 | 33.2 | | |
| | | SHC | 16.6 | 22.7 | 28.7 | 15.4 | 21.4 | 27.4 | 14.1 | 20.1 | 26.1 | 12.7 | 18.7 | 24.7 | | |
| | 76 | TC | — | 45.2 | 45.2 | — | 42.5 | 42.5 | — | 39.5 | 39.5 | — | 36.2 | 36.2 | | |
| | | SHC | — | 18.1 | 24.3 | — | 16.9 | 23.0 | — | 15.6 | 21.7 | — | 14.2 | 20.3 | | |
| | 1350 Cfm | EAT (wb) | 58 | TC | 35.1 | 35.1 | 39.7 | 33.0 | 33.0 | 37.5 | 30.8 | 30.8 | 35.0 | 28.4 | 28.4 | 32.3 |
| | | | | SHC | 30.5 | 35.1 | 39.7 | 28.6 | 33.0 | 37.5 | 26.6 | 30.8 | 35.0 | 24.5 | 28.4 | 32.3 |
| 62 | | | TC | 35.7 | 35.7 | 39.3 | 33.1 | 33.1 | 39.0 | 30.8 | 30.8 | 36.4 | 28.4 | 28.4 | 33.7 | |
| | | | SHC | 28.0 | 33.6 | 39.3 | 27.2 | 33.1 | 39.0 | 25.3 | 30.8 | 36.4 | 23.2 | 28.4 | 33.7 | |
| 67 | | | TC | 38.4 | 38.4 | 38.4 | 35.8 | 35.8 | 35.8 | 33.0 | 33.0 | 34.1 | 30.0 | 30.0 | 32.6 | |
| | | | SHC | 23.5 | 30.2 | 36.8 | 22.3 | 28.9 | 35.5 | 20.9 | 27.5 | 34.1 | 19.4 | 26.0 | 32.6 | |
| 72 | | TC | 42.5 | 42.5 | 42.5 | 39.8 | 39.8 | 39.8 | 36.9 | 36.9 | 36.9 | 33.7 | 33.7 | 33.7 | | |
| | | SHC | 17.2 | 23.8 | 30.5 | 15.9 | 22.6 | 29.2 | 14.6 | 21.3 | 27.9 | 13.2 | 19.8 | 26.5 | | |
| 76 | | TC | — | 46.0 | 46.0 | — | 43.2 | 43.2 | — | 40.1 | 40.1 | — | 36.8 | 36.8 | | |
| | | SHC | — | 18.7 | 25.6 | — | 17.5 | 24.3 | — | 16.2 | 22.9 | — | 14.8 | 21.5 | | |
| 1500 Cfm | | EAT (wb) | 58 | TC | 36.3 | 36.3 | 41.0 | 34.1 | 34.1 | 38.7 | 31.8 | 31.8 | 36.1 | 29.4 | 29.4 | 33.4 |
| | | | | SHC | 31.5 | 36.3 | 41.0 | 29.6 | 34.1 | 38.7 | 27.5 | 31.8 | 36.1 | 25.3 | 29.4 | 33.4 |
| | 62 | | TC | 36.3 | 36.3 | 42.7 | 34.2 | 34.2 | 40.2 | 31.9 | 31.9 | 37.6 | 29.4 | 29.4 | 34.8 | |
| | | | SHC | 29.9 | 36.3 | 42.7 | 28.1 | 34.2 | 40.2 | 26.1 | 31.9 | 37.6 | 24.0 | 29.4 | 34.8 | |
| | 67 | | TC | 39.0 | 39.0 | 39.3 | 36.3 | 36.3 | 37.9 | 33.5 | 33.5 | 36.5 | 30.4 | 30.4 | 34.9 | |
| | | | SHC | 24.7 | 32.0 | 39.3 | 23.4 | 30.6 | 37.9 | 22.0 | 29.2 | 36.5 | 20.5 | 27.7 | 34.9 | |
| | 72 | TC | 43.1 | 43.1 | 43.1 | 40.4 | 40.4 | 40.4 | 37.4 | 37.4 | 37.4 | 34.2 | 34.2 | 34.2 | | |
| | | SHC | 17.7 | 25.0 | 32.3 | 16.4 | 23.7 | 31.0 | 15.1 | 22.4 | 29.6 | 13.7 | 20.9 | 28.2 | | |
| | 76 | TC | — | 46.7 | 46.7 | — | 43.8 | 43.8 | — | 40.7 | 40.7 | — | 37.3 | 37.3 | | |
| | | SHC | — | 19.4 | 26.8 | — | 18.1 | 25.5 | — | 16.8 | 24.1 | — | 15.4 | 22.6 | | |

LEGEND

- Do Not Operate
- Cfm** — Cubic Feet Per Minute (Supply Air)
- EAT (db)** — Entering Air Temperature (dry bulb)
- EAT (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 8.



48/50GC*N05 — UNIT WITH HUMIDI-MIZER® SYSTEM IN SUBCOOLING MODE — COOLING CAPACITIES

| TEMP (F) AIR ENTERING CONDENSER (Edb) | | AIR ENTERING EVAPORATOR — SCFM/BF | | | | | | | | |
|---|-----|-----------------------------------|------|------|-------------|------|------|-------------|------|------|
| | | 1200 / 0.04 | | | 1600 / 0.07 | | | 2000 / 0.10 | | |
| | | Air Entering Evaporator — Ewb (F) | | | | | | | | |
| | | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 |
| 75 | TC | 35.1 | 36.7 | 40.7 | 40.2 | 42.8 | 40.6 | 43.9 | 41.8 | 35.3 |
| | SHC | 16.2 | 21.3 | 31.2 | 31.0 | 24.0 | 16.7 | 15.9 | 22.1 | 26.6 |
| | kW | 3.06 | 3.07 | 3.06 | 3.44 | 3.43 | 3.41 | 3.84 | 3.82 | 3.72 |
| 85 | TC | 43.0 | 36.4 | 29.3 | 22.6 | 29.8 | 37.5 | 30.7 | 22.9 | 15.5 |
| | SHC | 12.9 | 17.4 | 21.3 | 15.4 | 11.6 | 7.7 | 2.0 | 5.7 | 9.1 |
| | kW | 4.28 | 4.20 | 4.05 | 4.77 | 4.57 | 4.42 | 5.17 | 4.99 | 4.81 |
| 95 | TC | 34.2 | 34.6 | 35.3 | 42.4 | 40.0 | 37.4 | 42.0 | 43.4 | 38.9 |
| | SHC | 16.1 | 20.7 | 27.4 | 36.3 | 23.6 | 16.1 | 16.2 | 25.8 | 33.9 |
| | kW | 3.25 | 3.25 | 3.24 | 3.63 | 3.63 | 3.61 | 4.04 | 4.02 | 4.00 |
| 105 | TC | 43.6 | 39.9 | 33.0 | 26.0 | 33.3 | 40.6 | 33.9 | 25.9 | 18.4 |
| | SHC | 14.9 | 22.7 | 28.6 | 22.4 | 17.0 | 11.0 | 5.0 | 10.5 | 15.7 |
| | kW | 4.49 | 4.47 | 4.32 | 4.99 | 4.87 | 4.69 | 5.50 | 5.28 | 5.09 |
| 115 | TC | 32.9 | 33.2 | 37.9 | 39.4 | 36.9 | 35.1 | 39.9 | 41.6 | 40.9 |
| | SHC | 15.4 | 20.1 | 30.9 | 34.4 | 22.1 | 15.1 | 15.7 | 25.9 | 39.2 |
| | kW | 3.53 | 3.51 | 3.46 | 3.89 | 3.89 | 3.88 | 4.31 | 4.30 | 4.26 |
| 125 | TC | 42.2 | 41.3 | 35.3 | 28.2 | 35.0 | 41.1 | 35.3 | 27.3 | 20.7 |
| | SHC | 15.2 | 26.5 | 34.3 | 27.8 | 21.3 | 12.8 | 7.3 | 14.6 | 20.7 |
| | kW | 4.78 | 4.75 | 4.65 | 5.28 | 5.24 | 5.00 | 5.83 | 5.63 | 5.41 |

48/50GC*N05 — UNIT WITH HUMIDI-MIZER SYSTEM IN HOT GAS REHEAT MODE — COOLING CAPACITIES

| TEMP (F) AIR ENTERING CONDENSER (Edb) | | AIR ENTERING EVAPORATOR — Ewb (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 — Cfm | | | | | | | | |
| | | 1200 | 1600 | 2000 | 1200 | 1600 | 2000 | 1200 | 1600 | 2000 |
| 80 | TC | 14.91 | 15.96 | 16.62 | 15.48 | 16.57 | 17.21 | 16.00 | 17.09 | 17.86 |
| | SHC | 0.62 | 3.49 | 6.59 | -1.56 | 0.81 | 3.43 | -3.47 | -1.53 | 0.79 |
| | kW | 2.66 | 2.68 | 2.69 | 2.67 | 2.69 | 2.69 | 2.68 | 2.69 | 2.68 |
| 75 | TC | 15.50 | 16.97 | 17.72 | 16.37 | 17.57 | 18.34 | 16.92 | 18.22 | 18.92 |
| | SHC | 1.19 | 4.42 | 7.59 | -0.73 | 1.74 | 4.45 | -2.61 | -0.48 | 1.76 |
| | kW | 2.62 | 2.54 | 2.54 | 2.56 | 2.55 | 2.55 | 2.56 | 2.55 | 2.56 |
| 70 | TC | 15.94 | 17.30 | 18.11 | 16.61 | 18.01 | 18.89 | 17.36 | 18.71 | 19.41 |
| | SHC | 1.61 | 4.75 | 7.98 | -0.49 | 2.16 | 4.98 | -2.18 | -0.02 | 2.22 |
| | kW | 2.60 | 2.56 | 2.54 | 2.58 | 2.54 | 2.53 | 2.54 | 2.52 | 2.54 |
| 60 | TC | 16.09 | 17.02 | 17.79 | 16.60 | 18.52 | 18.74 | 17.99 | 19.02 | 19.64 |
| | SHC | 1.79 | 4.56 | 7.76 | -0.45 | 2.68 | 4.92 | -1.56 | 0.32 | 2.50 |
| | kW | 2.69 | 2.74 | 2.73 | 2.72 | 2.58 | 2.68 | 2.56 | 2.60 | 2.63 |
| 50 | TC | 17.25 | 18.16 | 18.69 | 17.75 | 18.67 | 19.21 | 18.20 | 19.12 | 20.32 |
| | SHC | 2.88 | 5.62 | 8.61 | 0.63 | 2.86 | 5.38 | -1.34 | 0.45 | 3.16 |
| | kW | 2.57 | 2.63 | 2.66 | 2.60 | 2.66 | 2.69 | 2.63 | 2.69 | 2.62 |
| 40 | TC | 17.33 | 18.59 | 19.23 | 18.21 | 19.06 | 20.45 | 18.62 | 19.47 | 20.91 |
| | SHC | 2.99 | 6.05 | 7.91 | 1.08 | 3.25 | 6.54 | -0.92 | 0.81 | 3.74 |
| | kW | 2.64 | 2.64 | 2.69 | 2.61 | 2.67 | 2.58 | 2.64 | 2.70 | 2.61 |

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



48/50GC**06 HIGH STAGE COOLING CAPACITIES

| 48/50GC**06 | | | | AMBIENT TEMPERATURE (F) | | | | | | | | | | | | |
|-------------|-------------|-------------|------|-------------------------|------|------|----------|------|------|----------|------|------|----------|------|------|------|
| | | | | 85 | | | 95 | | | 105 | | | 115 | | | |
| | | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | |
| | | | | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | |
| 1500 Cfm | EAT (wb) | 58 | TC | 54.4 | 54.4 | 61.6 | 51.9 | 51.9 | 58.8 | 49.1 | 49.1 | 55.8 | 46.1 | 46.1 | 52.4 | |
| | | | SHC | 47.2 | 54.4 | 61.6 | 44.9 | 51.9 | 58.8 | 42.4 | 49.1 | 55.8 | 39.8 | 46.1 | 52.4 | |
| | | 62 | TC | 57.4 | 57.4 | 58.6 | 54.2 | 54.2 | 56.8 | 50.8 | 50.8 | 54.8 | 49.0 | 49.0 | 49.0 | |
| | | | SHC | 42.6 | 50.6 | 58.6 | 40.8 | 48.8 | 56.8 | 38.9 | 46.9 | 54.8 | 34.0 | 40.0 | 46.0 | |
| | | 67 | TC | 63.3 | 63.3 | 63.3 | 59.9 | 59.9 | 59.9 | 56.2 | 56.2 | 56.2 | 52.1 | 52.1 | 52.1 | |
| | | | SHC | 35.1 | 43.1 | 51.1 | 33.3 | 41.3 | 49.3 | 31.5 | 39.4 | 47.4 | 29.5 | 37.5 | 45.4 | |
| | 72 | TC | 69.6 | 69.6 | 69.6 | 66.0 | 66.0 | 66.0 | 62.0 | 62.0 | 62.0 | 57.7 | 57.7 | 57.7 | | |
| | | SHC | 27.4 | 35.4 | 43.5 | 25.6 | 33.6 | 41.7 | 23.8 | 31.8 | 39.8 | 21.8 | 29.8 | 37.9 | | |
| | 76 | TC | — | 75.1 | 75.1 | — | 71.2 | 71.2 | — | 67.0 | 67.0 | — | 62.4 | 62.4 | | |
| | | SHC | — | 29.1 | 37.4 | — | 27.4 | 35.7 | — | 25.6 | 33.8 | — | 23.7 | 31.9 | | |
| | 1750 Cfm | EAT (wb) | 58 | TC | 57.6 | 57.6 | 65.2 | 54.9 | 54.9 | 62.2 | 52.0 | 52.0 | 59.0 | 48.7 | 48.7 | 55.4 |
| | | | | SHC | 50.0 | 57.6 | 65.2 | 47.6 | 54.9 | 62.2 | 45.0 | 52.0 | 59.0 | 42.1 | 48.7 | 55.4 |
| 62 | | | TC | 59.3 | 59.3 | 64.6 | 58.1 | 58.1 | 58.1 | 54.9 | 54.9 | 54.9 | 49.7 | 49.7 | 54.7 | |
| | | | SHC | 46.2 | 55.4 | 64.6 | 40.6 | 47.4 | 54.2 | 38.3 | 44.9 | 51.4 | 38.6 | 46.7 | 54.7 | |
| 67 | | | TC | 65.2 | 65.2 | 65.2 | 61.6 | 61.6 | 61.6 | 57.8 | 57.8 | 57.8 | 53.6 | 53.6 | 53.6 | |
| | | | SHC | 37.5 | 46.7 | 56.0 | 35.7 | 44.9 | 54.2 | 33.7 | 43.0 | 52.2 | 31.7 | 41.0 | 50.2 | |
| 72 | | TC | 71.7 | 71.7 | 71.7 | 67.8 | 67.8 | 67.8 | 63.7 | 63.7 | 63.7 | 59.1 | 59.1 | 59.1 | | |
| | | SHC | 28.5 | 37.8 | 47.1 | 26.7 | 36.0 | 45.3 | 24.8 | 34.1 | 43.4 | 22.8 | 32.1 | 41.4 | | |
| 76 | | TC | — | 77.2 | 77.2 | — | 73.1 | 73.1 | — | 68.7 | 68.7 | — | 63.9 | 63.9 | | |
| | | SHC | — | 30.5 | 40.1 | — | 28.7 | 38.3 | — | 26.9 | 36.3 | — | 24.9 | 34.3 | | |
| 2000 Cfm | | EAT (wb) | 58 | TC | 60.4 | 60.4 | 68.3 | 57.5 | 57.5 | 65.1 | 54.3 | 54.3 | 61.6 | 50.9 | 50.9 | 57.8 |
| | | | | SHC | 52.4 | 60.4 | 68.3 | 49.8 | 57.5 | 65.1 | 47.1 | 54.3 | 61.6 | 44.0 | 50.9 | 57.8 |
| | 62 | | TC | 63.4 | 63.4 | 63.4 | 59.9 | 59.9 | 59.9 | 54.4 | 54.4 | 64.1 | 51.0 | 51.0 | 60.2 | |
| | | | SHC | 44.8 | 52.2 | 59.6 | 43.4 | 51.2 | 59.0 | 44.7 | 54.4 | 64.1 | 41.7 | 51.0 | 60.2 | |
| | 67 | | TC | 66.7 | 66.7 | 66.7 | 63.0 | 63.0 | 63.0 | 59.0 | 59.0 | 59.0 | 54.6 | 54.6 | 54.7 | |
| | | | SHC | 39.7 | 50.2 | 60.7 | 37.8 | 48.3 | 58.8 | 35.9 | 46.4 | 56.8 | 33.8 | 44.3 | 54.7 | |
| | 72 | TC | 73.3 | 73.3 | 73.3 | 69.3 | 69.3 | 69.3 | 64.9 | 64.9 | 64.9 | 60.3 | 60.3 | 60.3 | | |
| | | SHC | 29.4 | 40.0 | 50.5 | 27.6 | 38.2 | 48.7 | 25.7 | 36.2 | 46.7 | 23.7 | 34.2 | 44.7 | | |
| | 76 | TC | — | 78.8 | 78.8 | — | 74.6 | 74.6 | — | 70.0 | 70.0 | — | 65.0 | 65.0 | | |
| | | SHC | — | 31.8 | 42.5 | — | 29.9 | 40.6 | — | 28.0 | 38.7 | — | 26.0 | 36.6 | | |
| | 2250 Cfm | EAT (wb) | 58 | TC | 62.7 | 62.7 | 70.9 | 59.6 | 59.6 | 67.5 | 56.3 | 56.3 | 63.9 | 52.7 | 52.7 | 59.9 |
| | | | | SHC | 54.5 | 62.7 | 70.9 | 51.7 | 59.6 | 67.5 | 48.8 | 56.3 | 63.9 | 45.6 | 52.7 | 59.9 |
| 62 | | | TC | 63.8 | 63.8 | 69.8 | 59.7 | 59.7 | 70.2 | 56.4 | 56.4 | 66.4 | 52.8 | 52.8 | 62.3 | |
| | | | SHC | 50.0 | 59.9 | 69.8 | 49.2 | 59.7 | 70.2 | 46.3 | 56.4 | 66.4 | 43.3 | 52.8 | 62.3 | |
| 67 | | | TC | 67.9 | 67.9 | 67.9 | 64.1 | 64.1 | 64.1 | 59.9 | 59.9 | 61.3 | 55.5 | 55.5 | 59.1 | |
| | | | SHC | 41.8 | 53.5 | 65.2 | 39.9 | 51.6 | 63.3 | 37.9 | 49.6 | 61.3 | 35.8 | 47.5 | 59.1 | |
| 72 | | TC | 74.5 | 74.5 | 74.5 | 70.4 | 70.4 | 70.4 | 65.9 | 65.9 | 65.9 | 61.2 | 61.2 | 61.2 | | |
| | | SHC | 30.4 | 42.1 | 53.8 | 28.5 | 40.2 | 51.9 | 26.6 | 38.3 | 50.0 | 24.6 | 36.2 | 47.9 | | |
| 76 | | TC | — | 80.1 | 80.1 | — | 75.8 | 75.8 | — | 71.0 | 71.0 | — | 65.9 | 65.9 | | |
| | | SHC | — | 32.9 | 44.8 | — | 31.1 | 42.9 | — | 29.1 | 40.9 | — | 27.0 | 38.7 | | |
| 2500 Cfm | | EAT (wb) | 58 | TC | 64.6 | 64.6 | 73.1 | 61.5 | 61.5 | 69.6 | 58.0 | 58.0 | 65.7 | 54.3 | 54.3 | 61.6 |
| | | | | SHC | 56.2 | 64.6 | 73.1 | 53.4 | 61.5 | 69.6 | 50.3 | 58.0 | 65.7 | 47.0 | 54.3 | 61.6 |
| | 62 | | TC | 64.7 | 64.7 | 75.9 | 61.5 | 61.5 | 72.3 | 58.1 | 58.1 | 68.4 | 54.3 | 54.3 | 64.1 | |
| | | | SHC | 53.4 | 64.7 | 75.9 | 50.7 | 61.5 | 72.3 | 47.8 | 58.1 | 68.4 | 44.6 | 54.3 | 64.1 | |
| | 67 | | TC | 68.8 | 68.8 | 69.5 | 64.9 | 64.9 | 67.6 | 60.7 | 60.7 | 65.5 | 56.2 | 56.2 | 63.3 | |
| | | | SHC | 43.8 | 56.7 | 69.5 | 41.9 | 54.7 | 67.6 | 39.9 | 52.7 | 65.5 | 37.8 | 50.5 | 63.3 | |
| | 72 | TC | 75.5 | 75.5 | 75.5 | 71.3 | 71.3 | 71.3 | 66.7 | 66.7 | 66.7 | 61.9 | 61.9 | 61.9 | | |
| | | SHC | 31.2 | 44.1 | 57.0 | 29.4 | 42.2 | 55.1 | 27.4 | 40.3 | 53.1 | 25.4 | 38.2 | 51.0 | | |
| | 76 | TC | — | 81.2 | 81.2 | — | 76.7 | 76.7 | — | 71.8 | 71.8 | — | 66.6 | 66.6 | | |
| | | SHC | — | 34.0 | 47.0 | — | 32.1 | 45.0 | — | 30.1 | 42.9 | — | 28.0 | 40.7 | | |

LEGEND

- Do Not Operate
- Cfm** — Cubic Feet Per Minute (Supply Air)
- EAT (db)** — Entering Air Temperature (dry bulb)
- EAT (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 8.



48/50GC**06 LOW STAGE COOLING CAPACITIES

| 48/50GC**06 | | | | AMBIENT TEMPERATURE (F) | | | | | | | | | | | | |
|-------------|-------------|-------------|------|-------------------------|------|------|----------|------|------|----------|------|------|----------|------|------|------|
| | | | | 85 | | | 95 | | | 105 | | | 115 | | | |
| | | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | EAT (db) | | | |
| | | | | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | 75 | 80 | 85 | |
| 1000 Cfm | EAT (wb) | 58 | TC | 35.3 | 35.3 | 40.2 | 32.8 | 32.8 | 37.5 | 30.1 | 30.1 | 34.5 | 27.3 | 27.3 | 31.4 | |
| | | | SHC | 30.4 | 35.3 | 40.2 | 28.2 | 32.8 | 37.5 | 25.7 | 30.1 | 34.5 | 23.2 | 27.3 | 31.4 | |
| | | 62 | TC | 37.6 | 37.6 | 38.3 | 34.5 | 34.5 | 36.4 | 31.1 | 31.1 | 34.5 | 28.9 | 28.9 | 29.5 | |
| | | | SHC | 27.4 | 32.8 | 38.3 | 25.6 | 31.0 | 36.4 | 23.7 | 29.1 | 34.5 | 20.5 | 25.0 | 29.5 | |
| | | 67 | TC | 42.2 | 42.2 | 42.2 | 38.9 | 38.9 | 38.9 | 35.4 | 35.4 | 35.4 | 31.7 | 31.7 | 31.7 | |
| | | | SHC | 22.6 | 28.1 | 33.5 | 20.8 | 26.2 | 31.7 | 18.9 | 24.4 | 29.8 | 17.0 | 22.4 | 27.8 | |
| | 72 | TC | 47.1 | 47.1 | 47.1 | 43.7 | 43.7 | 43.7 | 40.0 | 40.0 | 40.0 | 36.0 | 36.0 | 36.0 | | |
| | | SHC | 17.7 | 23.1 | 28.6 | 15.9 | 21.3 | 26.8 | 14.1 | 19.5 | 24.9 | 12.1 | 17.6 | 23.0 | | |
| | 76 | TC | — | 51.2 | 51.2 | — | 47.7 | 47.7 | — | 43.8 | 43.8 | — | 39.7 | 39.7 | | |
| | | SHC | — | 19.0 | 24.5 | — | 17.3 | 22.8 | — | 15.5 | 21.0 | — | 13.6 | 19.1 | | |
| | 1150 Cfm | EAT (wb) | 58 | TC | 37.6 | 37.6 | 42.7 | 34.9 | 34.9 | 39.8 | 32.1 | 32.1 | 36.7 | 29.1 | 29.1 | 33.4 |
| | | | | SHC | 32.4 | 37.6 | 42.7 | 30.0 | 34.9 | 39.8 | 27.4 | 32.1 | 36.7 | 24.7 | 29.1 | 33.4 |
| 62 | | | TC | 38.9 | 38.9 | 42.1 | 35.7 | 35.7 | 40.2 | 32.3 | 32.3 | 38.1 | 29.1 | 29.1 | 34.9 | |
| | | | SHC | 29.7 | 35.9 | 42.1 | 27.9 | 34.0 | 40.2 | 25.8 | 31.9 | 38.1 | 23.3 | 29.1 | 34.9 | |
| 67 | | | TC | 43.6 | 43.6 | 43.6 | 40.1 | 40.1 | 40.1 | 36.5 | 36.5 | 36.5 | 32.6 | 32.6 | 32.6 | |
| | | | SHC | 24.2 | 30.3 | 36.5 | 22.3 | 28.5 | 34.7 | 20.4 | 26.6 | 32.8 | 18.4 | 24.6 | 30.8 | |
| 72 | | TC | 48.5 | 48.5 | 48.5 | 44.9 | 44.9 | 44.9 | 41.1 | 41.1 | 41.1 | 37.0 | 37.0 | 37.0 | | |
| | | SHC | 18.4 | 24.6 | 30.8 | 16.6 | 22.8 | 29.0 | 14.7 | 20.9 | 27.1 | 12.7 | 19.0 | 25.2 | | |
| 76 | | TC | — | 52.6 | 52.6 | — | 49.1 | 49.1 | — | 45.0 | 45.0 | — | 40.7 | 40.7 | | |
| | | SHC | — | 19.9 | 26.2 | — | 17.8 | 23.4 | — | 16.3 | 22.6 | — | 14.4 | 20.7 | | |
| 1350 Cfm | | EAT (wb) | 58 | TC | 40.0 | 40.0 | 45.4 | 37.2 | 37.2 | 42.4 | 34.2 | 34.2 | 39.1 | 31.0 | 31.0 | 35.5 |
| | | | | SHC | 34.5 | 40.0 | 45.4 | 32.0 | 37.2 | 42.4 | 29.3 | 34.2 | 39.1 | 26.4 | 31.0 | 35.5 |
| | 62 | | TC | 41.8 | 41.8 | 42.1 | 37.2 | 37.2 | 44.2 | 34.2 | 34.2 | 40.8 | 31.0 | 31.0 | 37.1 | |
| | | | SHC | 30.5 | 36.3 | 42.1 | 30.3 | 37.2 | 44.2 | 27.7 | 34.2 | 40.8 | 24.9 | 31.0 | 37.1 | |
| | 67 | | TC | 44.8 | 44.8 | 44.8 | 41.3 | 41.3 | 41.3 | 37.5 | 37.5 | 37.5 | 33.4 | 33.4 | 34.5 | |
| | | | SHC | 26.0 | 33.2 | 40.4 | 24.1 | 31.3 | 38.6 | 22.1 | 29.4 | 36.6 | 20.1 | 27.3 | 34.5 | |
| | 72 | TC | 49.8 | 49.8 | 49.8 | 46.1 | 46.1 | 46.1 | 42.1 | 42.1 | 42.1 | 37.9 | 37.9 | 37.9 | | |
| | | SHC | 19.1 | 26.4 | 33.7 | 17.3 | 24.6 | 31.8 | 15.4 | 22.6 | 29.9 | 13.4 | 20.7 | 27.9 | | |
| | 76 | TC | — | 54.0 | 54.0 | — | 50.1 | 50.1 | — | 46.0 | 46.0 | — | 41.6 | 41.6 | | |
| | | SHC | — | 20.8 | 28.2 | — | 19.1 | 26.5 | — | 17.2 | 24.5 | — | 15.2 | 22.6 | | |
| | 1500 Cfm | EAT (wb) | 58 | TC | 41.5 | 41.5 | 47.1 | 38.6 | 38.6 | 43.9 | 35.4 | 35.4 | 40.5 | 32.1 | 32.1 | 36.8 |
| | | | | SHC | 35.8 | 41.5 | 47.1 | 33.2 | 38.6 | 43.9 | 30.4 | 35.4 | 40.5 | 27.4 | 32.1 | 36.8 |
| 62 | | | TC | 41.5 | 41.5 | 49.1 | 38.6 | 38.6 | 45.8 | 35.5 | 35.5 | 42.2 | 32.2 | 32.2 | 38.5 | |
| | | | SHC | 34.0 | 41.5 | 49.1 | 31.5 | 38.6 | 45.8 | 28.7 | 35.5 | 42.2 | 25.8 | 32.2 | 38.5 | |
| 67 | | | TC | 45.5 | 45.5 | 45.5 | 41.9 | 41.9 | 41.9 | 38.0 | 38.0 | 39.3 | 33.9 | 33.9 | 37.2 | |
| | | | SHC | 27.2 | 35.2 | 43.2 | 25.3 | 33.3 | 41.3 | 23.3 | 31.3 | 39.3 | 21.3 | 29.3 | 37.2 | |
| 72 | | TC | 50.5 | 50.5 | 50.5 | 46.7 | 46.7 | 46.7 | 42.6 | 42.6 | 42.6 | 38.3 | 38.3 | 38.3 | | |
| | | SHC | 19.6 | 27.6 | 35.7 | 17.8 | 25.8 | 33.8 | 15.8 | 23.9 | 31.9 | 13.8 | 21.9 | 29.9 | | |
| 76 | | TC | — | 54.7 | 54.7 | — | 50.8 | 50.8 | — | 46.6 | 46.6 | — | 42.1 | 42.1 | | |
| | | SHC | — | 21.4 | 29.6 | — | 19.7 | 27.8 | — | 17.8 | 25.9 | — | 15.8 | 23.9 | | |
| 1650 Cfm | | EAT (wb) | 58 | TC | 42.7 | 42.7 | 48.5 | 39.7 | 39.7 | 45.2 | 36.5 | 36.5 | 41.7 | 33.0 | 33.0 | 37.9 |
| | | | | SHC | 36.9 | 42.7 | 48.5 | 34.2 | 39.7 | 45.2 | 31.3 | 36.5 | 41.7 | 28.2 | 33.0 | 37.9 |
| | 62 | | TC | 42.8 | 42.8 | 50.5 | 39.8 | 39.8 | 47.1 | 36.5 | 36.5 | 43.4 | 33.1 | 33.1 | 39.5 | |
| | | | SHC | 35.0 | 42.8 | 50.5 | 32.4 | 39.8 | 47.1 | 29.6 | 36.5 | 43.4 | 26.6 | 33.1 | 39.5 | |
| | 67 | | TC | 46.0 | 46.0 | 46.0 | 42.3 | 42.3 | 44.0 | 38.3 | 38.3 | 41.9 | 34.2 | 34.2 | 39.8 | |
| | | | SHC | 28.4 | 37.1 | 45.9 | 26.5 | 35.2 | 44.0 | 24.5 | 33.2 | 41.9 | 22.4 | 31.1 | 39.8 | |
| | 72 | TC | 51.0 | 51.0 | 51.0 | 47.1 | 47.1 | 47.1 | 42.9 | 42.9 | 42.9 | 38.6 | 38.6 | 38.6 | | |
| | | SHC | 20.0 | 28.8 | 37.6 | 18.1 | 26.9 | 35.7 | 16.2 | 25.0 | 33.8 | 14.2 | 23.0 | 31.7 | | |
| | 76 | TC | — | 55.2 | 55.2 | — | 51.2 | 51.2 | — | 47.0 | 47.0 | — | 42.4 | 42.4 | | |
| | | SHC | — | 22.0 | 30.9 | — | 20.2 | 29.1 | — | 18.3 | 27.2 | — | 16.3 | 25.2 | | |

LEGEND

- Do Not Operate
- Cfm** — Cubic Feet Per Minute (Supply Air)
- EAT (db)** — Entering Air Temperature (dry bulb)
- EAT (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 8.

48/50GC*N06 — UNIT WITH HUMIDI-MIZER® SYSTEM IN SUBCOOLING MODE — COOLING CAPACITIES

| TEMP (F) AIR ENTERING CONDENSER (Edb) | | AIR ENTERING EVAPORATOR — SCFM/BF | | | | | | | | |
|---|-----|-----------------------------------|------|------|-------------|------|------|-------------|------|------|
| | | 1500 / 0.01 | | | 2000 / 0.02 | | | 2500 / 0.03 | | |
| | | Air Entering Evaporator — Ewb (F) | | | | | | | | |
| | | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 |
| 75 | TC | 67.6 | 60.9 | 55.4 | 71.7 | 65.0 | 59.2 | 74.2 | 67.6 | 62.2 |
| | SHC | 26.1 | 34.5 | 43.4 | 30.9 | 42.1 | 53.2 | 35.3 | 49.1 | 61.8 |
| | kW | 3.11 | 3.06 | 3.03 | 3.05 | 3.09 | 3.16 | 3.16 | 3.11 | 3.07 |
| 85 | TC | 63.0 | 57.1 | 51.7 | 67.0 | 60.7 | 55.3 | 68.8 | 62.9 | 58.1 |
| | SHC | 21.7 | 30.9 | 40.0 | 26.4 | 38.0 | 49.5 | 30.2 | 44.7 | 57.8 |
| | kW | 3.47 | 3.43 | 3.39 | 3.42 | 3.46 | 3.51 | 3.52 | 3.48 | 3.44 |
| 95 | TC | 58.4 | 52.8 | 47.8 | 61.9 | 56.1 | 51.1 | 64.1 | 58.2 | 53.7 |
| | SHC | 17.4 | 26.9 | 36.3 | 21.7 | 33.7 | 45.5 | 25.8 | 40.3 | 53.7 |
| | kW | 3.89 | 3.85 | 3.80 | 3.83 | 3.88 | 3.93 | 3.95 | 3.90 | 3.86 |
| 105 | TC | 53.4 | 48.0 | 43.3 | 55.9 | 50.5 | 45.8 | 58.6 | 52.7 | 48.4 |
| | SHC | 12.7 | 22.3 | 32.0 | 16.0 | 28.4 | 40.5 | 20.6 | 35.1 | 48.4 |
| | kW | 4.36 | 4.31 | 4.26 | 4.29 | 4.33 | 4.38 | 4.42 | 4.36 | 4.32 |
| 115 | TC | 47.9 | 43.2 | 39.0 | 50.6 | 45.6 | 41.5 | 52.4 | 47.6 | 43.8 |
| | SHC | 7.5 | 17.9 | 28.0 | 11.1 | 23.9 | 36.5 | 14.8 | 30.3 | 43.8 |
| | kW | 4.88 | 4.83 | 4.78 | 4.81 | 4.86 | 4.91 | 4.93 | 4.88 | 4.84 |
| 125 | TC | 42.0 | 37.9 | 34.1 | 44.5 | 40.1 | 36.1 | 46.3 | 41.7 | 38.4 |
| | SHC | 2.1 | 12.9 | 23.5 | 5.3 | 18.7 | 31.5 | 9.2 | 24.9 | 38.4 |
| | kW | 5.44 | 5.39 | 5.35 | 5.37 | 5.42 | 5.47 | 5.49 | 5.44 | 5.40 |

48/50GC*N06 — UNIT WITH HUMIDI-MIZER SYSTEM IN HOT GAS REHEAT MODE — COOLING CAPACITIES

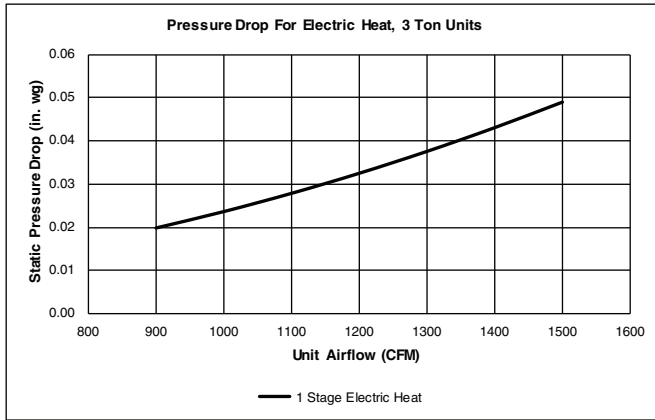
| TEMP (F) AIR ENTERING CONDENSER (Edb) | | AIR ENTERING EVAPORATOR — Ewb (F) | | | | | | | | |
|---|-----|--|-------|-------|--|-------|-------|--|-------|-------|
| | | 75 Dry Bulb 62.5 Wet Bulb (50% Relative) | | | 75 Dry Bulb 64 Wet Bulb (56% Relative) | | | 75 Dry Bulb 65.3 Wet Bulb (60% Relative) | | |
| | | Air Entering Evaporator — Cfm | | | | | | | | |
| | | 1500 | 2000 | 2500 | 1500 | 2000 | 2500 | 1500 | 2000 | 2500 |
| 80 | TC | 18.64 | 19.95 | 20.78 | 19.35 | 20.71 | 21.51 | 20.00 | 21.37 | 22.33 |
| | SHC | 0.78 | 4.36 | 8.24 | -1.95 | 1.01 | 4.29 | -4.33 | -1.91 | 0.99 |
| | kW | 2.66 | 2.68 | 2.69 | 2.67 | 2.69 | 2.69 | 2.68 | 2.69 | 2.68 |
| 75 | TC | 19.37 | 21.21 | 22.15 | 20.47 | 21.97 | 22.92 | 21.15 | 22.78 | 23.65 |
| | SHC | 1.48 | 5.52 | 9.49 | -0.91 | 2.18 | 5.57 | -3.26 | -0.61 | 2.20 |
| | kW | 2.62 | 2.54 | 2.54 | 2.56 | 2.55 | 2.55 | 2.56 | 2.55 | 2.56 |
| 70 | TC | 19.92 | 21.63 | 22.64 | 20.77 | 22.52 | 23.61 | 21.70 | 23.39 | 24.26 |
| | SHC | 2.01 | 5.94 | 9.98 | -0.61 | 2.70 | 6.23 | -2.72 | -0.02 | 2.78 |
| | kW | 2.60 | 2.56 | 2.54 | 2.58 | 2.54 | 2.53 | 2.54 | 2.52 | 2.54 |
| 60 | TC | 20.11 | 21.27 | 22.23 | 20.75 | 23.15 | 23.43 | 22.49 | 23.78 | 24.55 |
| | SHC | 2.24 | 5.70 | 9.70 | -0.57 | 3.35 | 6.15 | -1.95 | 0.40 | 3.13 |
| | kW | 2.69 | 2.74 | 2.73 | 2.72 | 2.58 | 2.68 | 2.56 | 2.60 | 2.63 |
| 50 | TC | 21.56 | 22.70 | 23.37 | 22.18 | 23.33 | 24.01 | 22.75 | 23.90 | 25.40 |
| | SHC | 3.61 | 7.03 | 10.76 | 0.78 | 3.57 | 6.73 | -1.67 | 0.57 | 3.96 |
| | kW | 2.57 | 2.63 | 2.66 | 2.60 | 2.66 | 2.69 | 2.63 | 2.69 | 2.62 |
| 40 | TC | 21.67 | 23.23 | 24.04 | 22.76 | 23.82 | 25.57 | 23.28 | 24.34 | 26.13 |
| | SHC | 3.74 | 7.56 | 9.89 | 1.35 | 4.06 | 8.17 | -1.15 | 1.01 | 4.67 |
| | kW | 2.64 | 2.64 | 2.69 | 2.61 | 2.67 | 2.58 | 2.64 | 2.70 | 2.61 |

LEGEND

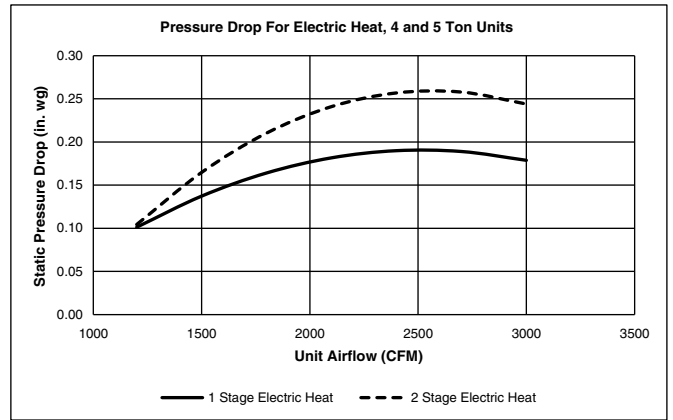
- Edb** — Entering Dry Bulb
- Ewb** — Entering Wet Bulb
- kW** — Compressor Power Input
- SCFM/BF** — Standard Cubic Feet per Minute/Bypass Factor
- SHC** — Sensible Heat Capacity (1000 Btuh) Gross
- TC** — Total Capacity (1000 Btuh) Gross

PRESSURE DROPS FOR GAS AND ELECTRIC HEATING UNITS

**PRESSURE DROP FOR ELECTRIC HEAT
3 TON UNITS - 1 STAGE HEAT**



**PRESSURE DROP FOR ELECTRIC HEAT
4 AND 5 TON UNITS - 1 AND 2 STAGE HEAT**



SINGLE PHASE GAS HEAT STAGES

| UNIT SIZE | HEAT SIZE | | |
|----------------|-----------|-----|------|
| | Low | Med | High |
| 1 Phase | | | |
| 04 | 1 | 1 | — |
| 05 | 1 | 1 | 1 |
| 06 | 1 | 1 | 1 |

THREE PHASE GAS HEAT STAGES

| UNIT SIZE | HEAT SIZE | | |
|----------------|-----------|-----|------|
| | Low | Med | High |
| 3 Phase | | | |
| 04 | 2 | 2 | — |
| 05 | 2 | 2 | 2 |
| 06 | 2 | 2 | 2 |

GAS HEAT STATIC PRESSURE GAIN - 3 TON UNITS

| CFM | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
|--------------------------|------|------|------|------|------|------|------|
| Low Gas Heat Gain | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 |

GAS HEAT STATIC PRESSURE GAIN - 4 TO 5 TON UNITS

| CFM | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
|-----------------------------|------|------|------|------|------|------|------|
| Medium Gas Heat Gain | 0.01 | 0.05 | 0.08 | 0.12 | 0.15 | 0.18 | 0.20 |
| Low Gas Heat Gain | 0.03 | 0.10 | 0.17 | 0.23 | 0.29 | 0.36 | 0.42 |

FACTORY-INSTALLED ELECTRIC HEAT STAGES FOR 50GC 208/230-3-60 VOLTAGE UNITS

| UNIT SIZE | HEAT SIZE | | |
|-----------|-----------|--------|------|
| | Low | Medium | High |
| 04 | 1 | 1 | 1 |
| 05 | 1 | 1 | 2 |
| 06 | 1 | 2 | 2 |

FACTORY-INSTALLED ELECTRIC HEAT STAGES FOR 50GC 460-3-60 VOLTAGE UNITS

| UNIT SIZE | HEAT SIZE | | |
|-----------|-----------|--------|------|
| | Low | Medium | High |
| 04 | 1 | 1 | 1 |
| 05 | 1 | 1 | 1 |
| 06 | 1 | 1 | 2 |

FACTORY-INSTALLED ELECTRIC HEATER STAGING DATA FOR 50GC UNITS

| UNIT | VOLT-PH-HZ | HEAT SIZE | FIOP HEATER NO. | NOMINAL kW | STAGES |
|----------|--------------|-----------|-----------------|------------|--------|
| 50GC**04 | 208/230-3-60 | Low | CRHEATER323A00 | 4.4 | 1 |
| | | Medium | CRHEATER326A00 | 10.5 | 1 |
| | | High | CRHEATER328A00 | 15.5 | 1 |
| | 460-3-60 | Low | CRHEATER333A00 | 6.0 | 1 |
| | | Medium | CRHEATER335A00 | 11.5 | 1 |
| | | High | CRHEATER336A00 | 14.0 | 1 |
| 50GC**05 | 208/230-3-60 | Low | CRHEATER323A00 | 4.4 | 1 |
| | | Medium | CRHEATER326A00 | 10.5 | 1 |
| | | High | CRHEATER329A00 | 17.4 | 2 |
| | 460-3-60 | Low | CRHEATER333A00 | 6.0 | 1 |
| | | Medium | CRHEATER335A00 | 11.5 | 1 |
| | | High | CRHEATER336A00 | 14.0 | 1 |
| 50GC**06 | 208/230-3-60 | Low | CRHEATER324A00 | 6.5 | 1 |
| | | Medium | CRHEATER329A00 | 17.4 | 2 |
| | | High | CRHEATER332A00 | 24.5 | 2 |
| | 460-3-60 | Low | CRHEATER333A00 | 6.0 | 1 |
| | | Medium | CRHEATER335A00 | 11.5 | 1 |
| | | High | CRHEATER338A00 | 24.0 | 2 |



FIELD-INSTALLED ACCESSORY ELECTRIC HEATER DATA

| 50GC UNIT SIZE | VOLTAGE | HEATER MODEL NUMBER* | NUMBER OF STAGES |
|----------------|---------|----------------------|------------------|
| 04 | 208/230 | CRHEATER323A00 | 1 |
| | | CRHEATER324A00 | 1 |
| | | CRHEATER325A00 | 1 |
| | | CRHEATER326A00 | 1 |
| | | CRHEATER327A00 | 2 |
| | | CRHEATER328A00 | 1 |
| | 460 | CRHEATER333A00 | 1 |
| | | CRHEATER334A00 | 1 |
| | | CRHEATER335A00 | 1 |
| | | CRHEATER336A00 | 1 |
| | 575 | CRHEATER339A00 | 1 |
| | | CRHEATER340A00 | 1 |
| 05 | 208/230 | CRHEATER323A00 | 1 |
| | | CRHEATER324A00 | 1 |
| | | CRHEATER325A00 | 1 |
| | | CRHEATER326A00 | 1 |
| | | CRHEATER327A00 | 2 |
| | | CRHEATER328A00 | 1 |
| | | CRHEATER329A00 | 2 |
| | | CRHEATER330A00† | 2 |
| | | CRHEATER331A00** | 2 |
| | 460 | CRHEATER333A00 | 1 |
| | | CRHEATER335A00 | 1 |
| | | CRHEATER336A00 | 1 |
| | | CRHEATER337A00 | 2 |
| | 575 | CRHEATER339A00 | 1 |
| | | CRHEATER340A00 | 1 |
| | | CRHEATER341A00 | 2 |
| 06 | 208/230 | CRHEATER324A00 | 1 |
| | | CRHEATER325A00 | 1 |
| | | CRHEATER326A00 | 1 |
| | | CRHEATER327A00 | 2 |
| | | CRHEATER328A00 | 1 |
| | | CRHEATER329A00 | 2 |
| | | CRHEATER331A00 | 2 |
| | | CRHEATER332A00 | 2 |
| | 460 | CRHEATER333A00 | 1 |
| | | CRHEATER335A00 | 1 |
| | | CRHEATER336A00 | 1 |
| | | CRHEATER337A00 | 2 |
| | 575 | CRHEATER338A00 | 2 |
| | | CRHEATER340A00 | 1 |
| | | CRHEATER341A00 | 2 |

*Check heater nameplate for model number.

**Do not use with size 05 vertical supply duct configuration units.

†Do not use with size 05 horizontal supply duct configuration units.

USE OF CRHEATER330A00 FOR 50GC UNITS (WITH OR WITHOUT NON-FUSED DISCONNECT)

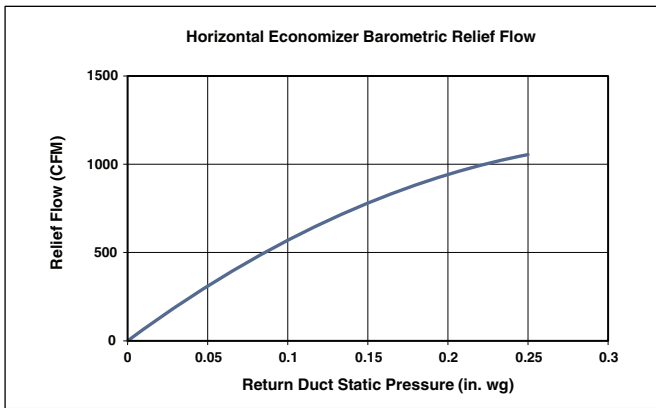
| DUCT CONFIGURATION | 50GC UNIT SIZE | | |
|--------------------|----------------|---------------|---------------|
| | 04 | 05 | 06 |
| Vertical Supply | Not available | Available | Not available |
| Horizontal Supply | Not available | Not available | Not available |

USE OF CRHEATER331A00 FOR 50GC UNITS (WITH OR WITHOUT NON-FUSED DISCONNECT)

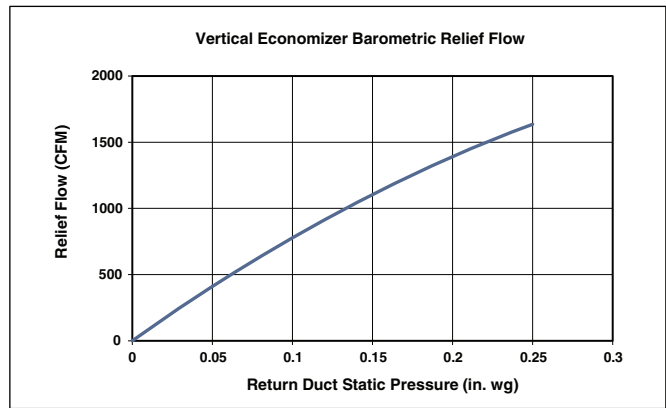
| DUCT CONFIGURATION | 50GC UNIT SIZE | | |
|--------------------|----------------|---------------|-----------|
| | 04 | 05 | 06 |
| Vertical Supply | Not available | Not available | Available |
| Horizontal Supply | Not available | Available | Available |

ECONOMIZER BAROMETRIC RELIEF AND STATIC PRESSURE

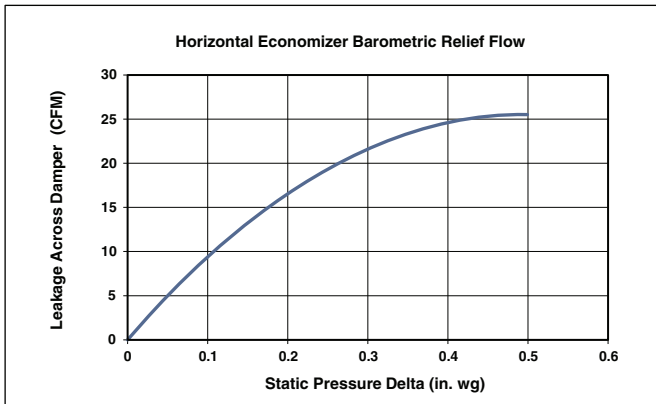
HORIZONTAL ECONOMIZER BAROMETRIC RELIEF



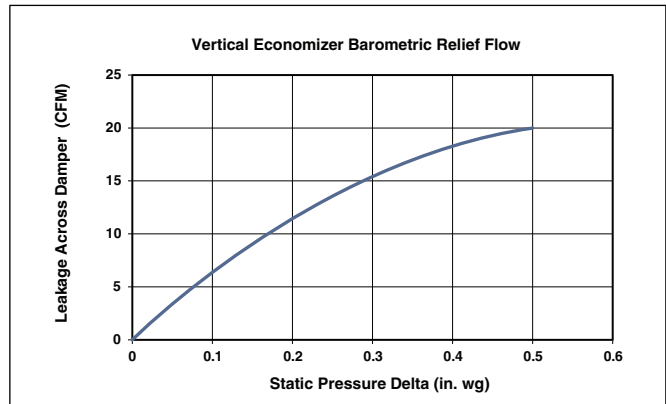
VERTICAL ECONOMIZER BAROMETRIC RELIEF



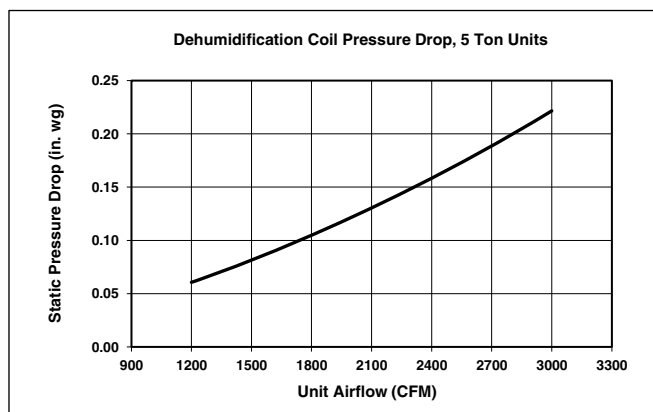
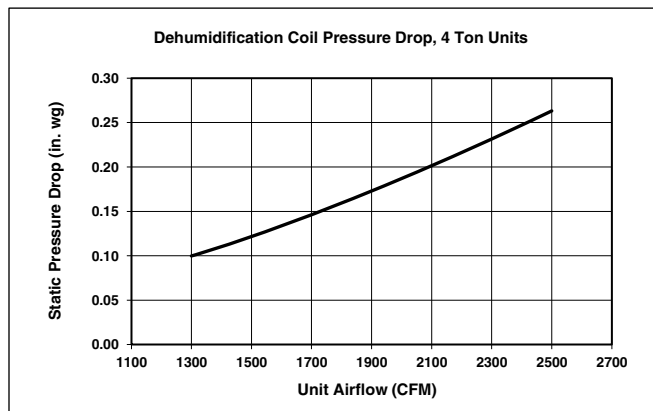
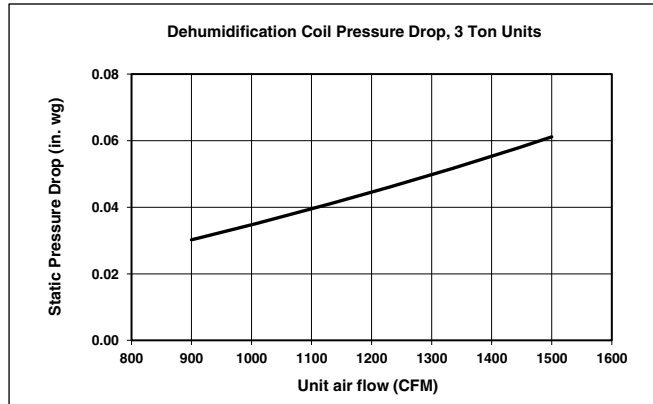
HORIZONTAL ECONOMIZER DAMPER LEAKAGE



VERTICAL ECONOMIZER DAMPER LEAKAGE



HUMIDI-MIZER® COIL PRESSURE DROPS



MERV-8 filters pressure drop

NOTE: For factory-installed MERV-8 filters, no additional pressure drop adjustments are necessary. The standard fan tables accommodate usage.

48GC04 SINGLE PHASE — 3 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 |
| 900 | 1129 | 0.10 | 1356 | 0.17 | 1544 | 0.26 | 1708 | 0.35 | 1857 | 0.45 |
| 975 | 1182 | 0.11 | 1402 | 0.19 | 1586 | 0.28 | 1748 | 0.37 | 1894 | 0.47 |
| 1050 | 1236 | 0.13 | 1449 | 0.21 | 1630 | 0.30 | 1789 | 0.40 | 1933 | 0.50 |
| 1125 | 1290 | 0.15 | 1498 | 0.23 | 1675 | 0.33 | 1831 | 0.43 | 1973 | 0.53 |
| 1200 | 1346 | 0.17 | 1547 | 0.26 | 1721 | 0.35 | 1874 | 0.46 | 2014 | 0.57 |
| 1275 | 1403 | 0.19 | 1598 | 0.28 | 1768 | 0.38 | 1919 | 0.49 | 2057 | 0.61 |
| 1350 | 1460 | 0.22 | 1651 | 0.31 | 1816 | 0.42 | 1965 | 0.53 | 2100 | 0.64 |
| 1425 | 1519 | 0.24 | 1703 | 0.34 | 1865 | 0.45 | 2012 | 0.57 | 2145 | 0.69 |
| 1500 | 1579 | 0.27 | 1757 | 0.38 | 1916 | 0.49 | 2059 | 0.61 | 2191 | 0.73 |

| 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 |
| 900 | 1994 | 0.55 | 2121 | 0.66 | 2241 | 0.78 | 2354 | 0.91 | 2461 | 1.04 |
| 975 | 2029 | 0.58 | 2155 | 0.70 | 2274 | 0.82 | 2386 | 0.95 | — | — |
| 1050 | 2066 | 0.61 | 2190 | 0.73 | 2307 | 0.86 | 2419 | 0.99 | — | — |
| 1125 | 2104 | 0.65 | 2227 | 0.77 | 2343 | 0.90 | 2453 | 1.03 | — | — |
| 1200 | 2144 | 0.69 | 2265 | 0.81 | 2379 | 0.94 | 2488 | 1.07 | — | — |
| 1275 | 2184 | 0.73 | 2304 | 0.85 | 2417 | 0.98 | — | — | — | — |
| 1350 | 2226 | 0.77 | 2345 | 0.90 | 2456 | 1.03 | — | — | — | — |
| 1425 | 2269 | 0.81 | 2386 | 0.95 | — | — | — | — | — | — |
| 1500 | 2313 | 0.86 | 2429 | 1.00 | — | — | — | — | — | — |

- Standard Static 1129-1890 RPM, 0.44 Max BHP
- Medium Static 1129-2190 RPM, 0.71 Max BHP
- High Static 1129-2490 RPM, 1.07 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC04 SINGLE PHASE - STANDARD STATIC — 3 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 |
| 900 | 1129 | 6.0 | 1356 | 7.2 | 1544 | 8.2 | 1708 | 9.0 | — | — |
| 975 | 1182 | 6.3 | 1402 | 7.4 | 1586 | 8.4 | 1748 | 9.2 | — | — |
| 1050 | 1236 | 6.5 | 1449 | 7.7 | 1630 | 8.6 | 1789 | 9.5 | — | — |
| 1125 | 1290 | 6.8 | 1498 | 7.9 | 1675 | 8.9 | 1831 | 9.7 | — | — |
| 1200 | 1346 | 7.1 | 1547 | 8.2 | 1721 | 9.1 | — | — | — | — |
| 1275 | 1403 | 7.4 | 1598 | 8.5 | 1768 | 9.4 | — | — | — | — |
| 1350 | 1460 | 7.7 | 1651 | 8.7 | 1816 | 9.6 | — | — | — | — |
| 1425 | 1519 | 8.0 | 1703 | 9.0 | — | — | — | — | — | — |
| 1500 | 1579 | 8.4 | 1757 | 9.3 | — | — | — | — | — | — |

| 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 |
| 900 | — | — | — | — | — | — | — | — | — | — |
| 975 | — | — | — | — | — | — | — | — | — | — |
| 1050 | — | — | — | — | — | — | — | — | — | — |
| 1125 | — | — | — | — | — | — | — | — | — | — |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1129-1890 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC04 SINGLE PHASE - MEDIUM STATIC — 3 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 |
| 900 | 1129 | 5.2 | 1356 | 6.2 | 1544 | 7.1 | 1708 | 7.8 | 1857 | 8.5 |
| 975 | 1182 | 5.4 | 1402 | 6.4 | 1586 | 7.2 | 1748 | 8.0 | 1894 | 8.6 |
| 1050 | 1236 | 5.6 | 1449 | 6.6 | 1630 | 7.4 | 1789 | 8.2 | 1933 | 8.8 |
| 1125 | 1290 | 5.9 | 1498 | 6.8 | 1675 | 7.6 | 1831 | 8.4 | 1973 | 9.0 |
| 1200 | 1346 | 6.1 | 1547 | 7.1 | 1721 | 7.9 | 1874 | 8.6 | 2014 | 9.2 |
| 1275 | 1403 | 6.4 | 1598 | 7.3 | 1768 | 8.1 | 1919 | 8.8 | 2057 | 9.4 |
| 1350 | 1460 | 6.7 | 1651 | 7.5 | 1816 | 8.3 | 1965 | 9.0 | 2100 | 9.6 |
| 1425 | 1519 | 6.9 | 1703 | 7.8 | 1865 | 8.5 | 2012 | 9.2 | 2145 | 9.8 |
| 1500 | 1579 | 7.2 | 1757 | 8.0 | 1916 | 8.7 | 2059 | 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 |
| 900 | 1994 | 9.1 | 2121 | 9.7 | — | — | — | — | — | — |
| 975 | 2029 | 9.3 | 2155 | 9.8 | — | — | — | — | — | — |
| 1050 | 2066 | 9.4 | — | — | — | — | — | — | — | — |
| 1125 | 2104 | 9.6 | — | — | — | — | — | — | — | — |
| 1200 | 2144 | 9.8 | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1129-2190 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC04 SINGLE PHASE - HIGH STATIC — 3 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 |
| 900 | 1129 | 4.5 | 1356 | 5.4 | 1544 | 6.2 | 1708 | 6.9 | 1857 | 7.5 |
| 975 | 1182 | 4.7 | 1402 | 5.6 | 1586 | 6.4 | 1748 | 7.0 | 1894 | 7.6 |
| 1050 | 1236 | 5.0 | 1449 | 5.8 | 1630 | 6.5 | 1789 | 7.2 | 1933 | 7.8 |
| 1125 | 1290 | 5.2 | 1498 | 6.0 | 1675 | 6.7 | 1831 | 7.4 | 1973 | 7.9 |
| 1200 | 1346 | 5.4 | 1547 | 6.2 | 1721 | 6.9 | 1874 | 7.5 | 2014 | 8.1 |
| 1275 | 1403 | 5.6 | 1598 | 6.4 | 1768 | 7.1 | 1919 | 7.7 | 2057 | 8.3 |
| 1350 | 1460 | 5.9 | 1651 | 6.6 | 1816 | 7.3 | 1965 | 7.9 | 2100 | 8.4 |
| 1425 | 1519 | 6.1 | 1703 | 6.8 | 1865 | 7.5 | 2012 | 8.1 | 2145 | 8.6 |
| 1500 | 1579 | 6.3 | 1757 | 7.1 | 1916 | 7.7 | 2059 | 8.3 | 2191 | 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 |
| 900 | 1994 | 8.0 | 2121 | 8.5 | 2241 | 9.0 | 2354 | 9.5 | 2461 | 9.9 |
| 975 | 2029 | 8.1 | 2155 | 8.7 | 2274 | 9.1 | 2386 | 9.6 | — | — |
| 1050 | 2066 | 8.3 | 2190 | 8.8 | 2307 | 9.3 | 2419 | 9.7 | — | — |
| 1125 | 2104 | 8.4 | 2227 | 8.9 | 2343 | 9.4 | 2453 | 9.9 | — | — |
| 1200 | 2144 | 8.6 | 2265 | 9.1 | 2379 | 9.6 | 2488 | 10.0 | — | — |
| 1275 | 2184 | 8.8 | 2304 | 9.3 | 2417 | 9.7 | — | — | — | — |
| 1350 | 2226 | 8.9 | 2345 | 9.4 | 2456 | 9.9 | — | — | — | — |
| 1425 | 2269 | 9.1 | 2386 | 9.6 | — | — | — | — | — | — |
| 1500 | 2313 | 9.3 | 2429 | 9.8 | — | — | — | — | — | — |

High Static 1129-2490 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**04 THREE PHASE — 3 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 |
| 900 | 1129 | 0.10 | 1356 | 0.17 | 1544 | 0.26 | 1708 | 0.35 | 1857 | 0.45 |
| 975 | 1182 | 0.11 | 1402 | 0.19 | 1586 | 0.28 | 1748 | 0.37 | 1894 | 0.47 |
| 1050 | 1236 | 0.13 | 1449 | 0.21 | 1630 | 0.30 | 1789 | 0.40 | 1933 | 0.50 |
| 1125 | 1290 | 0.15 | 1498 | 0.23 | 1675 | 0.33 | 1831 | 0.43 | 1973 | 0.53 |
| 1200 | 1346 | 0.17 | 1547 | 0.26 | 1721 | 0.35 | 1874 | 0.46 | 2014 | 0.57 |
| 1275 | 1403 | 0.19 | 1598 | 0.28 | 1768 | 0.38 | 1919 | 0.49 | 2057 | 0.61 |
| 1350 | 1460 | 0.22 | 1651 | 0.31 | 1816 | 0.42 | 1965 | 0.53 | 2100 | 0.64 |
| 1425 | 1519 | 0.24 | 1703 | 0.34 | 1865 | 0.45 | 2012 | 0.57 | 2145 | 0.69 |
| 1500 | 1579 | 0.27 | 1757 | 0.38 | 1916 | 0.49 | 2059 | 0.61 | 2191 | 0.73 |

| 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 |
| 900 | 1994 | 0.55 | 2121 | 0.66 | 2241 | 0.78 | 2354 | 0.91 | 2461 | 1.04 |
| 975 | 2029 | 0.58 | 2155 | 0.70 | 2274 | 0.82 | 2386 | 0.95 | — | — |
| 1050 | 2066 | 0.61 | 2190 | 0.73 | 2307 | 0.86 | 2419 | 0.99 | — | — |
| 1125 | 2104 | 0.65 | 2227 | 0.77 | 2343 | 0.90 | 2453 | 1.03 | — | — |
| 1200 | 2144 | 0.69 | 2265 | 0.81 | 2379 | 0.94 | 2488 | 1.07 | — | — |
| 1275 | 2184 | 0.73 | 2304 | 0.85 | 2417 | 0.98 | — | — | — | — |
| 1350 | 2226 | 0.77 | 2345 | 0.90 | 2456 | 1.03 | — | — | — | — |
| 1425 | 2269 | 0.81 | 2386 | 0.95 | — | — | — | — | — | — |
| 1500 | 2313 | 0.86 | 2429 | 1.00 | — | — | — | — | — | — |

- Standard Static 1129-1890 RPM, 0.44 Max BHP
- Medium Static 1129-2190 RPM, 0.71 Max BHP
- High Static 1129-2490 RPM, 1.07 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**04 THREE PHASE - STANDARD STATIC — 3 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 |
| 900 | 1129 | 6.0 | 1356 | 7.2 | 1544 | 8.2 | 1708 | 9.0 | — | — |
| 975 | 1182 | 6.3 | 1402 | 7.4 | 1586 | 8.4 | 1748 | 9.2 | — | — |
| 1050 | 1236 | 6.5 | 1449 | 7.7 | 1630 | 8.6 | 1789 | 9.5 | — | — |
| 1125 | 1290 | 6.8 | 1498 | 7.9 | 1675 | 8.9 | 1831 | 9.7 | — | — |
| 1200 | 1346 | 7.1 | 1547 | 8.2 | 1721 | 9.1 | — | — | — | — |
| 1275 | 1403 | 7.4 | 1598 | 8.5 | 1768 | 9.4 | — | — | — | — |
| 1350 | 1460 | 7.7 | 1651 | 8.7 | 1816 | 9.6 | — | — | — | — |
| 1425 | 1519 | 8.0 | 1703 | 9.0 | — | — | — | — | — | — |
| 1500 | 1579 | 8.4 | 1757 | 9.3 | — | — | — | — | — | — |

| 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 |
| 900 | — | — | — | — | — | — | — | — | — | — |
| 975 | — | — | — | — | — | — | — | — | — | — |
| 1050 | — | — | — | — | — | — | — | — | — | — |
| 1125 | — | — | — | — | — | — | — | — | — | — |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1129-1890 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC04 THREE PHASE - MEDIUM STATIC — 3 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 |
| 900 | 1129 | 5.2 | 1356 | 6.2 | 1544 | 7.1 | 1708 | 7.8 | 1857 | 8.5 |
| 975 | 1182 | 5.4 | 1402 | 6.4 | 1586 | 7.2 | 1748 | 8.0 | 1894 | 8.6 |
| 1050 | 1236 | 5.6 | 1449 | 6.6 | 1630 | 7.4 | 1789 | 8.2 | 1933 | 8.8 |
| 1125 | 1290 | 5.9 | 1498 | 6.8 | 1675 | 7.6 | 1831 | 8.4 | 1973 | 9.0 |
| 1200 | 1346 | 6.1 | 1547 | 7.1 | 1721 | 7.9 | 1874 | 8.6 | 2014 | 9.2 |
| 1275 | 1403 | 6.4 | 1598 | 7.3 | 1768 | 8.1 | 1919 | 8.8 | 2057 | 9.4 |
| 1350 | 1460 | 6.7 | 1651 | 7.5 | 1816 | 8.3 | 1965 | 9.0 | 2100 | 9.6 |
| 1425 | 1519 | 6.9 | 1703 | 7.8 | 1865 | 8.5 | 2012 | 9.2 | 2145 | 9.8 |
| 1500 | 1579 | 7.2 | 1757 | 8.0 | 1916 | 8.7 | 2059 | 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 |
| 900 | 1994 | 9.1 | 2121 | 9.7 | — | — | — | — | — | — |
| 975 | 2029 | 9.3 | 2155 | 9.8 | — | — | — | — | — | — |
| 1050 | 2066 | 9.4 | — | — | — | — | — | — | — | — |
| 1125 | 2104 | 9.6 | — | — | — | — | — | — | — | — |
| 1200 | 2144 | 9.8 | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1129-2190 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC04 THREE PHASE - HIGH STATIC — 3 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 |
| 900 | 1129 | 4.5 | 1356 | 5.4 | 1544 | 6.2 | 1708 | 6.9 | 1857 | 7.5 |
| 975 | 1182 | 4.7 | 1402 | 5.6 | 1586 | 6.4 | 1748 | 7.0 | 1894 | 7.6 |
| 1050 | 1236 | 5.0 | 1449 | 5.8 | 1630 | 6.5 | 1789 | 7.2 | 1933 | 7.8 |
| 1125 | 1290 | 5.2 | 1498 | 6.0 | 1675 | 6.7 | 1831 | 7.4 | 1973 | 7.9 |
| 1200 | 1346 | 5.4 | 1547 | 6.2 | 1721 | 6.9 | 1874 | 7.5 | 2014 | 8.1 |
| 1275 | 1403 | 5.6 | 1598 | 6.4 | 1768 | 7.1 | 1919 | 7.7 | 2057 | 8.3 |
| 1350 | 1460 | 5.9 | 1651 | 6.6 | 1816 | 7.3 | 1965 | 7.9 | 2100 | 8.4 |
| 1425 | 1519 | 6.1 | 1703 | 6.8 | 1865 | 7.5 | 2012 | 8.1 | 2145 | 8.6 |
| 1500 | 1579 | 6.3 | 1757 | 7.1 | 1916 | 7.7 | 2059 | 8.3 | 2191 | 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 |
| 900 | 1994 | 8.0 | 2121 | 8.5 | 2241 | 9.0 | 2354 | 9.5 | 2461 | 9.9 |
| 975 | 2029 | 8.1 | 2155 | 8.7 | 2274 | 9.1 | 2386 | 9.6 | — | — |
| 1050 | 2066 | 8.3 | 2190 | 8.8 | 2307 | 9.3 | 2419 | 9.7 | — | — |
| 1125 | 2104 | 8.4 | 2227 | 8.9 | 2343 | 9.4 | 2453 | 9.9 | — | — |
| 1200 | 2144 | 8.6 | 2265 | 9.1 | 2379 | 9.6 | 2488 | 10.0 | — | — |
| 1275 | 2184 | 8.8 | 2304 | 9.3 | 2417 | 9.7 | — | — | — | — |
| 1350 | 2226 | 8.9 | 2345 | 9.4 | 2456 | 9.9 | — | — | — | — |
| 1425 | 2269 | 9.1 | 2386 | 9.6 | — | — | — | — | — | — |
| 1500 | 2313 | 9.3 | 2429 | 9.8 | — | — | — | — | — | — |

High Static 1129-2490 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 SINGLE PHASE — 4 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 |
| 1200 | 1262 | 0.21 | 1453 | 0.33 | 1614 | 0.45 | 1757 | 0.58 | 1888 | 0.72 |
| 1300 | 1333 | 0.25 | 1517 | 0.37 | 1674 | 0.50 | 1813 | 0.63 | 1942 | 0.78 |
| 1400 | 1405 | 0.29 | 1583 | 0.42 | 1735 | 0.55 | 1872 | 0.70 | 1997 | 0.84 |
| 1500 | 1478 | 0.34 | 1650 | 0.48 | 1799 | 0.62 | 1932 | 0.76 | 2055 | 0.92 |
| 1600 | 1552 | 0.40 | 1718 | 0.54 | 1863 | 0.68 | 1994 | 0.84 | 2114 | 1.00 |
| 1700 | 1627 | 0.46 | 1787 | 0.60 | 1929 | 0.76 | 2057 | 0.92 | 2174 | 1.09 |
| 1800 | 1704 | 0.52 | 1857 | 0.68 | 1995 | 0.84 | 2121 | 1.01 | 2236 | 1.18 |
| 1900 | 1781 | 0.60 | 1929 | 0.76 | 2063 | 0.93 | 2186 | 1.10 | 2299 | 1.28 |
| 2000 | 1859 | 0.68 | 2001 | 0.85 | 2132 | 1.02 | 2252 | 1.21 | 2363 | 1.39 |

| 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 |
| 1200 | 2011 | 0.87 | 2126 | 1.02 | 2236 | 1.19 | 2341 | 1.37 | 2442 | 1.56 |
| 1300 | 2061 | 0.93 | 2174 | 1.09 | 2281 | 1.26 | 2383 | 1.44 | — | — |
| 1400 | 2114 | 1.00 | 2224 | 1.17 | 2329 | 1.34 | 2429 | 1.52 | — | — |
| 1500 | 2169 | 1.08 | 2277 | 1.25 | 2379 | 1.43 | — | — | — | — |
| 1600 | 2226 | 1.17 | 2331 | 1.34 | 2432 | 1.52 | — | — | — | — |
| 1700 | 2284 | 1.26 | 2388 | 1.44 | — | — | — | — | — | — |
| 1800 | 2344 | 1.36 | 2446 | 1.55 | — | — | — | — | — | — |
| 1900 | 2405 | 1.47 | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1262-1900 RPM, 0.72 Max BHP
- Medium Static 1262-2170 RPM, 1.06 Max BHP
- High Static 1262-2460 RPM, 1.53 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 SINGLE PHASE - STANDARD STATIC — 4 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 |
| 1200 | 1262 | 6.6 | 1453 | 7.6 | 1614 | 8.5 | 1757 | 9.2 | 1888 | 9.9 |
| 1300 | 1333 | 7.0 | 1517 | 8.0 | 1674 | 8.8 | 1813 | 9.5 | — | — |
| 1400 | 1405 | 7.4 | 1583 | 8.3 | 1735 | 9.1 | 1872 | 9.9 | — | — |
| 1500 | 1478 | 7.8 | 1650 | 8.7 | 1799 | 9.5 | — | — | — | — |
| 1600 | 1552 | 8.2 | 1718 | 9.0 | 1863 | 9.8 | — | — | — | — |
| 1700 | 1627 | 8.6 | 1787 | 9.4 | — | — | — | — | — | — |
| 1800 | 1704 | 9.0 | 1857 | 9.8 | — | — | — | — | — | — |
| 1900 | 1781 | 9.4 | — | — | — | — | — | — | — | — |
| 2000 | 1859 | 9.8 | — | — | — | — | — | — | — | — |

| 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 |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1300 | — | — | — | — | — | — | — | — | — | — |
| 1400 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1262-1900 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC**05 SINGLE PHASE - MEDIUM STATIC — 4 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 |
| 1200 | 1262 | 5.8 | 1453 | 6.7 | 1614 | 7.4 | 1757 | 8.1 | 1888 | 8.7 |
| 1300 | 1333 | 6.1 | 1517 | 7.0 | 1674 | 7.7 | 1813 | 8.4 | 1942 | 8.9 |
| 1400 | 1405 | 6.5 | 1583 | 7.3 | 1735 | 8.0 | 1872 | 8.6 | 1997 | 9.2 |
| 1500 | 1478 | 6.8 | 1650 | 7.6 | 1799 | 8.3 | 1932 | 8.9 | 2055 | 9.5 |
| 1600 | 1552 | 7.2 | 1718 | 7.9 | 1863 | 8.6 | 1994 | 9.2 | 2114 | 9.7 |
| 1700 | 1627 | 7.5 | 1787 | 8.2 | 1929 | 8.9 | 2057 | 9.5 | — | — |
| 1800 | 1704 | 7.9 | 1857 | 8.6 | 1995 | 9.2 | 2121 | 9.8 | — | — |
| 1900 | 1781 | 8.2 | 1929 | 8.9 | 2063 | 9.5 | — | — | — | — |
| 2000 | 1859 | 8.6 | 2001 | 9.2 | 2132 | 9.8 | — | — | — | — |

| 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 |
| 1200 | 2011 | 9.3 | 2126 | 9.8 | — | — | — | — | — | — |
| 1300 | 2061 | 9.5 | — | — | — | — | — | — | — | — |
| 1400 | 2114 | 9.7 | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1262-2170 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 SINGLE PHASE - HIGH STATIC — 4 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 |
| 1200 | 1262 | 5.1 | 1453 | 5.9 | 1614 | 6.6 | 1757 | 7.1 | 1888 | 7.7 |
| 1300 | 1333 | 5.4 | 1517 | 6.2 | 1674 | 6.8 | 1813 | 7.4 | 1942 | 7.9 |
| 1400 | 1405 | 5.7 | 1583 | 6.4 | 1735 | 7.1 | 1872 | 7.6 | 1997 | 8.1 |
| 1500 | 1478 | 6.0 | 1650 | 6.7 | 1799 | 7.3 | 1932 | 7.9 | 2055 | 8.4 |
| 1600 | 1552 | 6.3 | 1718 | 7.0 | 1863 | 7.6 | 1994 | 8.1 | 2114 | 8.6 |
| 1700 | 1627 | 6.6 | 1787 | 7.3 | 1929 | 7.8 | 2057 | 8.4 | 2174 | 8.8 |
| 1800 | 1704 | 6.9 | 1857 | 7.5 | 1995 | 8.1 | 2121 | 8.6 | 2236 | 9.1 |
| 1900 | 1781 | 7.2 | 1929 | 7.8 | 2063 | 8.4 | 2186 | 8.9 | 2299 | 9.3 |
| 2000 | 1859 | 7.6 | 2001 | 8.1 | 2132 | 8.7 | 2252 | 9.2 | 2363 | 9.6 |

| 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 |
| 1200 | 2011 | 8.2 | 2126 | 8.6 | 2236 | 9.1 | 2341 | 9.5 | 2442 | 9.9 |
| 1300 | 2061 | 8.4 | 2174 | 8.8 | 2281 | 9.3 | 2383 | 9.7 | — | — |
| 1400 | 2114 | 8.6 | 2224 | 9.0 | 2329 | 9.5 | 2429 | 9.9 | — | — |
| 1500 | 2169 | 8.8 | 2277 | 9.3 | 2379 | 9.7 | — | — | — | — |
| 1600 | 2226 | 9.0 | 2331 | 9.5 | 2432 | 9.9 | — | — | — | — |
| 1700 | 2284 | 9.3 | 2388 | 9.7 | — | — | — | — | — | — |
| 1800 | 2344 | 9.5 | 2446 | 9.9 | — | — | — | — | — | — |
| 1900 | 2405 | 9.8 | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

High Static 1262-2460 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 THREE PHASE — 4 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 |
| 1200 | 1262 | 0.21 | 1452 | 0.33 | 1614 | 0.45 | 1757 | 0.58 | 1888 | 0.72 |
| 1300 | 1333 | 0.25 | 1516 | 0.37 | 1674 | 0.50 | 1813 | 0.63 | 1942 | 0.78 |
| 1400 | 1405 | 0.29 | 1583 | 0.42 | 1735 | 0.55 | 1872 | 0.70 | 1997 | 0.84 |
| 1500 | 1478 | 0.34 | 1650 | 0.48 | 1798 | 0.62 | 1932 | 0.76 | 2054 | 0.92 |
| 1600 | 1552 | 0.40 | 1718 | 0.54 | 1863 | 0.68 | 1993 | 0.84 | 2114 | 1.00 |
| 1700 | 1627 | 0.46 | 1787 | 0.60 | 1928 | 0.76 | 2057 | 0.92 | 2174 | 1.09 |
| 1800 | 1704 | 0.52 | 1857 | 0.68 | 1995 | 0.84 | 2121 | 1.01 | 2236 | 1.18 |
| 1900 | 1781 | 0.60 | 1929 | 0.76 | 2063 | 0.93 | 2185 | 1.10 | 2299 | 1.28 |
| 2000 | 1859 | 0.68 | 2001 | 0.85 | 2132 | 1.02 | 2252 | 1.21 | 2363 | 1.39 |

| 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 |
| 1200 | 2011 | 0.87 | 2126 | 1.02 | 2236 | 1.19 | 2341 | 1.37 | 2442 | 1.55 |
| 1300 | 2061 | 0.93 | 2174 | 1.09 | 2281 | 1.26 | 2384 | 1.44 | 2482 | 1.62 |
| 1400 | 2114 | 1.00 | 2224 | 1.17 | 2329 | 1.34 | 2429 | 1.52 | 2526 | 1.71 |
| 1500 | 2169 | 1.08 | 2277 | 1.25 | 2379 | 1.43 | 2477 | 1.61 | 2572 | 1.80 |
| 1600 | 2226 | 1.17 | 2331 | 1.34 | 2432 | 1.52 | 2528 | 1.71 | 2621 | 1.91 |
| 1700 | 2284 | 1.26 | 2388 | 1.44 | 2486 | 1.63 | 2581 | 1.82 | — | — |
| 1800 | 2344 | 1.36 | 2446 | 1.55 | 2543 | 1.74 | 2636 | 1.94 | — | — |
| 1900 | 2405 | 1.47 | 2505 | 1.66 | 2600 | 1.86 | — | — | — | — |
| 2000 | 2467 | 1.59 | 2565 | 1.78 | 2659 | 1.99 | — | — | — | — |

- Standard Static 1262-1900 RPM, 0.72 Max BHP
- Medium Static 1262-2170 RPM, 1.06 Max BHP
- High Static 1262-2660 RPM, 1.96 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 THREE PHASE - STANDARD STATIC — 4 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 |
| 1200 | 1262 | 6.6 | 1453 | 7.6 | 1614 | 8.5 | 1757 | 9.2 | 1888 | 9.9 |
| 1300 | 1333 | 7.0 | 1517 | 8.0 | 1674 | 8.8 | 1813 | 9.5 | — | — |
| 1400 | 1405 | 7.4 | 1583 | 8.3 | 1735 | 9.1 | 1872 | 9.9 | — | — |
| 1500 | 1478 | 7.8 | 1650 | 8.7 | 1799 | 9.5 | — | — | — | — |
| 1600 | 1552 | 8.2 | 1718 | 9.0 | 1863 | 9.8 | — | — | — | — |
| 1700 | 1627 | 8.6 | 1787 | 9.4 | — | — | — | — | — | — |
| 1800 | 1704 | 9.0 | 1857 | 9.8 | — | — | — | — | — | — |
| 1900 | 1781 | 9.4 | — | — | — | — | — | — | — | — |
| 2000 | 1859 | 9.8 | — | — | — | — | — | — | — | — |

| 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 |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1300 | — | — | — | — | — | — | — | — | — | — |
| 1400 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1262-1900 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC05 THREE PHASE - MEDIUM STATIC — 4 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 |
| 1200 | 1262 | 5.8 | 1453 | 6.7 | 1614 | 7.4 | 1757 | 8.1 | 1888 | 8.7 |
| 1300 | 1333 | 6.1 | 1517 | 7.0 | 1674 | 7.7 | 1813 | 8.4 | 1942 | 8.9 |
| 1400 | 1405 | 6.5 | 1583 | 7.3 | 1735 | 8.0 | 1872 | 8.6 | 1997 | 9.2 |
| 1500 | 1478 | 6.8 | 1650 | 7.6 | 1799 | 8.3 | 1932 | 8.9 | 2055 | 9.5 |
| 1600 | 1552 | 7.2 | 1718 | 7.9 | 1863 | 8.6 | 1994 | 9.2 | 2114 | 9.7 |
| 1700 | 1627 | 7.5 | 1787 | 8.2 | 1929 | 8.9 | 2057 | 9.5 | — | — |
| 1800 | 1704 | 7.9 | 1857 | 8.6 | 1995 | 9.2 | 2121 | 9.8 | — | — |
| 1900 | 1781 | 8.2 | 1929 | 8.9 | 2063 | 9.5 | — | — | — | — |
| 2000 | 1859 | 8.6 | 2001 | 9.2 | 2132 | 9.8 | — | — | — | — |

| 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 |
| 1200 | 2011 | 9.3 | 2126 | 9.8 | — | — | — | — | — | — |
| 1300 | 2061 | 9.5 | — | — | — | — | — | — | — | — |
| 1400 | 2114 | 9.7 | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1262-2170 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC05 THREE PHASE - HIGH STATIC — 4 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 |
| 1200 | 1262 | 4.7 | 1452 | 5.5 | 1614 | 6.1 | 1757 | 6.6 | 1888 | 7.1 |
| 1300 | 1333 | 5.0 | 1516 | 5.7 | 1674 | 6.3 | 1813 | 6.8 | 1942 | 7.3 |
| 1400 | 1405 | 5.3 | 1583 | 6.0 | 1735 | 6.5 | 1872 | 7.0 | 1997 | 7.5 |
| 1500 | 1478 | 5.6 | 1650 | 6.2 | 1798 | 6.8 | 1932 | 7.3 | 2054 | 7.7 |
| 1600 | 1552 | 5.8 | 1718 | 6.5 | 1863 | 7.0 | 1993 | 7.5 | 2114 | 7.9 |
| 1700 | 1627 | 6.1 | 1787 | 6.7 | 1928 | 7.2 | 2057 | 7.7 | 2174 | 8.2 |
| 1800 | 1704 | 6.4 | 1857 | 7.0 | 1995 | 7.5 | 2121 | 8.0 | 2236 | 8.4 |
| 1900 | 1781 | 6.7 | 1929 | 7.3 | 2063 | 7.8 | 2185 | 8.2 | 2299 | 8.6 |
| 2000 | 1859 | 7.0 | 2001 | 7.5 | 2132 | 8.0 | 2252 | 8.5 | 2363 | 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 |
| 1200 | 2011 | 7.6 | 2126 | 8.0 | 2236 | 8.4 | 2341 | 8.8 | 2442 | 9.2 |
| 1300 | 2061 | 7.7 | 2174 | 8.2 | 2281 | 8.6 | 2384 | 9.0 | 2482 | 9.3 |
| 1400 | 2114 | 7.9 | 2224 | 8.4 | 2329 | 8.8 | 2429 | 9.1 | 2526 | 9.5 |
| 1500 | 2169 | 8.2 | 2277 | 8.6 | 2379 | 8.9 | 2477 | 9.3 | 2572 | 9.7 |
| 1600 | 2226 | 8.4 | 2331 | 8.8 | 2432 | 9.1 | 2528 | 9.5 | 2621 | 9.9 |
| 1700 | 2284 | 8.6 | 2388 | 9.0 | 2486 | 9.3 | 2581 | 9.7 | — | — |
| 1800 | 2344 | 8.8 | 2446 | 9.2 | 2543 | 9.6 | 2623 | 9.9 | — | — |
| 1900 | 2405 | 9.0 | 2505 | 9.4 | 2600 | 9.8 | — | — | — | — |
| 2000 | 2467 | 9.3 | 2565 | 9.6 | 2659 | 10.0 | — | — | — | — |

High Static 1262-2660 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**06 SINGLE PHASE — 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 |
| 1500 | 1387 | 0.28 | 1561 | 0.40 | 1711 | 0.53 | 1845 | 0.66 | 1966 | 0.80 |
| 1625 | 1473 | 0.34 | 1638 | 0.46 | 1784 | 0.60 | 1914 | 0.74 | 2034 | 0.89 |
| 1750 | 1560 | 0.40 | 1717 | 0.53 | 1859 | 0.68 | 1986 | 0.83 | 2103 | 0.98 |
| 1875 | 1650 | 0.47 | 1798 | 0.61 | 1935 | 0.77 | 2059 | 0.92 | 2174 | 1.08 |
| 2000 | 1741 | 0.56 | 1881 | 0.70 | 2012 | 0.86 | 2134 | 1.03 | 2246 | 1.20 |
| 2125 | 1832 | 0.65 | 1965 | 0.80 | 2091 | 0.97 | 2209 | 1.14 | 2320 | 1.32 |
| 2250 | 1925 | 0.75 | 2050 | 0.91 | 2172 | 1.08 | 2286 | 1.26 | — | — |
| 2375 | 2018 | 0.87 | 2137 | 1.03 | 2254 | 1.21 | 2365 | 1.40 | — | — |
| 2500 | 2113 | 1.00 | 2225 | 1.16 | 2337 | 1.35 | — | — | — | — |

| 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 |
| 1500 | 2079 | 0.95 | 2185 | 1.10 | 2285 | 1.26 | 2381 | 1.43 | — | — |
| 1625 | 2144 | 1.04 | 2248 | 1.20 | 2346 | 1.36 | — | — | — | — |
| 1750 | 2211 | 1.14 | 2313 | 1.31 | — | — | — | — | — | — |
| 1875 | 2281 | 1.25 | 2380 | 1.42 | — | — | — | — | — | — |
| 2000 | 2351 | 1.37 | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1387-2150 RPM, 1.06 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Medium Static 1387-2390 RPM, 1.44 Max BHP

48GC**06 SINGLE PHASE - STANDARD STATIC — 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 |
| 1500 | 1387 | 6.5 | 1561 | 7.3 | 1711 | 8.0 | 1845 | 8.6 | 1966 | 9.1 |
| 1625 | 1473 | 6.9 | 1638 | 7.6 | 1784 | 8.3 | 1914 | 8.9 | 2034 | 9.5 |
| 1750 | 1560 | 7.3 | 1717 | 8.0 | 1859 | 8.6 | 1986 | 9.2 | 2103 | 9.8 |
| 1875 | 1650 | 7.7 | 1798 | 8.4 | 1935 | 9.0 | 2059 | 9.6 | — | — |
| 2000 | 1741 | 8.1 | 1881 | 8.7 | 2012 | 9.4 | 2134 | 9.9 | — | — |
| 2125 | 1832 | 8.5 | 1965 | 9.1 | 2091 | 9.7 | — | — | — | — |
| 2250 | 1925 | 9.0 | 2050 | 9.5 | — | — | — | — | — | — |
| 2375 | 2018 | 9.4 | 2137 | 9.9 | — | — | — | — | — | — |
| 2500 | 2113 | 9.8 | — | — | — | — | — | — | — | — |

| 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 |
| 1500 | 2079 | 9.7 | — | — | — | — | — | — | — | — |
| 1625 | 2144 | 10.0 | — | — | — | — | — | — | — | — |
| 1750 | — | — | — | — | — | — | — | — | — | — |
| 1875 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1387-2150 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC06 SINGLE PHASE - MEDIUM STATIC — 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 |
| 1500 | 1387 | 5.8 | 1561 | 6.5 | 1711 | 7.2 | 1845 | 7.7 | 1966 | 8.2 |
| 1625 | 1473 | 6.2 | 1638 | 6.9 | 1784 | 7.5 | 1914 | 8.0 | 2034 | 8.5 |
| 1750 | 1560 | 6.5 | 1717 | 7.2 | 1859 | 7.8 | 1986 | 8.3 | 2103 | 8.8 |
| 1875 | 1650 | 6.9 | 1798 | 7.5 | 1935 | 8.1 | 2059 | 8.6 | 2174 | 9.1 |
| 2000 | 1741 | 7.3 | 1881 | 7.9 | 2012 | 8.4 | 2134 | 8.9 | 2246 | 9.4 |
| 2125 | 1832 | 7.7 | 1965 | 8.2 | 2091 | 8.7 | 2209 | 9.2 | 2320 | 9.7 |
| 2250 | 1925 | 8.1 | 2050 | 8.6 | 2172 | 9.1 | 2286 | 9.6 | — | — |
| 2375 | 2018 | 8.4 | 2137 | 8.9 | 2254 | 9.4 | 2365 | 9.9 | — | — |
| 2500 | 2113 | 8.8 | 2225 | 9.3 | 2337 | 9.8 | — | — | — | — |

| 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 |
| 1500 | 2079 | 8.7 | 2185 | 9.1 | 2285 | 9.6 | 2381 | 10.0 | — | — |
| 1625 | 2144 | 9.0 | 2248 | 9.4 | 2346 | 9.8 | — | — | — | — |
| 1750 | 2211 | 9.3 | 2313 | 9.7 | — | — | — | — | — | — |
| 1875 | 2281 | 9.5 | 2380 | 10.0 | — | — | — | — | — | — |
| 2000 | 2351 | 9.8 | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1387-2390 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**06 THREE PHASE — 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 |
| 1500 | 1387 | 0.28 | 1560 | 0.40 | 1711 | 0.53 | 1845 | 0.66 | 1966 | 0.80 |
| 1625 | 1473 | 0.34 | 1638 | 0.46 | 1784 | 0.60 | 1915 | 0.74 | 2034 | 0.89 |
| 1750 | 1561 | 0.40 | 1717 | 0.53 | 1858 | 0.68 | 1986 | 0.83 | 2103 | 0.98 |
| 1875 | 1650 | 0.47 | 1798 | 0.61 | 1934 | 0.76 | 2059 | 0.92 | 2174 | 1.08 |
| 2000 | 1741 | 0.56 | 1881 | 0.70 | 2012 | 0.86 | 2133 | 1.02 | 2246 | 1.20 |
| 2125 | 1832 | 0.65 | 1965 | 0.80 | 2091 | 0.97 | 2209 | 1.14 | 2319 | 1.32 |
| 2250 | 1925 | 0.75 | 2050 | 0.91 | 2172 | 1.08 | 2286 | 1.26 | 2394 | 1.45 |
| 2375 | 2018 | 0.87 | 2137 | 1.03 | 2254 | 1.21 | 2364 | 1.40 | 2469 | 1.59 |
| 2500 | 2113 | 1.00 | 2225 | 1.16 | 2337 | 1.35 | 2444 | 1.54 | 2547 | 1.75 |

| 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 |
| 1500 | 2079 | 0.95 | 2185 | 1.10 | 2285 | 1.26 | 2381 | 1.43 | 2473 | 1.60 |
| 1625 | 2144 | 1.04 | 2248 | 1.20 | 2346 | 1.36 | 2440 | 1.53 | 2530 | 1.71 |
| 1750 | 2212 | 1.14 | 2313 | 1.31 | 2410 | 1.48 | 2502 | 1.65 | 2590 | 1.83 |
| 1875 | 2281 | 1.25 | 2381 | 1.43 | 2475 | 1.60 | 2566 | 1.78 | 2653 | 1.97 |
| 2000 | 2351 | 1.37 | 2449 | 1.55 | 2543 | 1.74 | 2632 | 1.93 | 2717 | 2.12 |
| 2125 | 2422 | 1.50 | 2519 | 1.69 | 2611 | 1.88 | 2699 | 2.08 | 2783 | 2.28 |
| 2250 | 2495 | 1.64 | 2590 | 1.84 | 2681 | 2.04 | 2767 | 2.24 | — | — |
| 2375 | 2569 | 1.79 | 2663 | 2.00 | 2752 | 2.20 | — | — | — | — |
| 2500 | 2643 | 1.95 | 2736 | 2.17 | 2824 | 2.38 | — | — | — | — |

- Standard Static 1387-2150 RPM, 1.06 Max BHP
- Medium Static 1387-2390 RPM, 1.44 Max BHP
- High Static 1387-2836 RPM, 2.43 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**06 THREE PHASE — STANDARD STATIC — 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 |
| 1500 | 1387 | 6.5 | 1560 | 7.3 | 1711 | 8.0 | 1845 | 8.6 | 1966 | 9.1 |
| 1625 | 1473 | 6.9 | 1638 | 7.6 | 1784 | 8.3 | 1915 | 8.9 | 2034 | 9.5 |
| 1750 | 1561 | 7.3 | 1717 | 8.0 | 1858 | 8.6 | 1986 | 9.2 | 2103 | 9.8 |
| 1875 | 1650 | 7.7 | 1798 | 8.4 | 1934 | 9.0 | 2059 | 9.6 | — | — |
| 2000 | 1741 | 8.1 | 1881 | 8.7 | 2012 | 9.4 | 2133 | 9.9 | — | — |
| 2125 | 1832 | 8.5 | 1965 | 9.1 | 2091 | 9.7 | — | — | — | — |
| 2250 | 1925 | 9.0 | 2050 | 9.5 | — | — | — | — | — | — |
| 2375 | 2018 | 9.4 | 2137 | 9.9 | — | — | — | — | — | — |
| 2500 | 2113 | 9.8 | — | — | — | — | — | — | — | — |

| 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 |
| 1500 | 2079 | 9.7 | — | — | — | — | — | — | — | — |
| 1625 | 2144 | 10.0 | — | — | — | — | — | — | — | — |
| 1750 | — | — | — | — | — | — | — | — | — | — |
| 1875 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1387-2150 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC06 THREE PHASE - MEDIUM STATIC — 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 |
| 1500 | 1387 | 5.8 | 1560 | 6.5 | 1711 | 7.2 | 1845 | 7.7 | 1966 | 8.2 |
| 1625 | 1473 | 6.2 | 1638 | 6.9 | 1784 | 7.5 | 1915 | 8.0 | 2034 | 8.5 |
| 1750 | 1561 | 6.5 | 1717 | 7.2 | 1858 | 7.8 | 1986 | 8.3 | 2103 | 8.8 |
| 1875 | 1650 | 6.9 | 1798 | 7.5 | 1934 | 8.1 | 2059 | 8.6 | 2174 | 9.1 |
| 2000 | 1741 | 7.3 | 1881 | 7.9 | 2012 | 8.4 | 2133 | 8.9 | 2246 | 9.4 |
| 2125 | 1832 | 7.7 | 1965 | 8.2 | 2091 | 8.7 | 2209 | 9.2 | 2319 | 9.7 |
| 2250 | 1925 | 8.1 | 2050 | 8.6 | 2172 | 9.1 | 2286 | 9.6 | — | — |
| 2375 | 2018 | 8.4 | 2137 | 8.9 | 2254 | 9.4 | 2364 | 9.9 | — | — |
| 2500 | 2113 | 8.8 | 2225 | 9.3 | 2337 | 9.8 | — | — | — | — |

| 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 |
| 1500 | 2079 | 8.7 | 2185 | 9.1 | 2285 | 9.6 | 2381 | 10.0 | — | — |
| 1625 | 2144 | 9.0 | 2248 | 9.4 | 2346 | 9.8 | — | — | — | — |
| 1750 | 2212 | 9.3 | 2313 | 9.7 | — | — | — | — | — | — |
| 1875 | 2281 | 9.5 | 2381 | 10.0 | — | — | — | — | — | — |
| 2000 | 2351 | 9.8 | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1387-2390 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC06 THREE PHASE - HIGH STATIC — 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 |
| 1500 | 1387 | 4.9 | 1560 | 5.5 | 1711 | 6.0 | 1845 | 6.5 | 1966 | 6.9 |
| 1625 | 1473 | 5.2 | 1638 | 5.8 | 1784 | 6.3 | 1915 | 6.8 | 2034 | 7.2 |
| 1750 | 1561 | 5.5 | 1717 | 6.1 | 1858 | 6.6 | 1986 | 7.0 | 2103 | 7.4 |
| 1875 | 1650 | 5.8 | 1798 | 6.3 | 1934 | 6.8 | 2059 | 7.3 | 2174 | 7.7 |
| 2000 | 1741 | 6.1 | 1881 | 6.6 | 2012 | 7.1 | 2133 | 7.5 | 2246 | 7.9 |
| 2125 | 1832 | 6.5 | 1965 | 6.9 | 2091 | 7.4 | 2209 | 7.8 | 2319 | 8.2 |
| 2250 | 1925 | 6.8 | 2050 | 7.2 | 2172 | 7.7 | 2286 | 8.1 | 2394 | 8.4 |
| 2375 | 2018 | 7.1 | 2137 | 7.5 | 2254 | 7.9 | 2364 | 8.3 | 2469 | 8.7 |
| 2500 | 2113 | 7.5 | 2225 | 7.8 | 2337 | 8.2 | 2444 | 8.6 | 2547 | 9.0 |

| 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 |
| 1500 | 2079 | 7.3 | 2185 | 7.7 | 2285 | 8.1 | 2381 | 8.4 | 2473 | 8.7 |
| 1625 | 2144 | 7.6 | 2248 | 7.9 | 2346 | 8.3 | 2440 | 8.6 | 2530 | 8.9 |
| 1750 | 2212 | 7.8 | 2313 | 8.2 | 2410 | 8.5 | 2502 | 8.8 | 2590 | 9.1 |
| 1875 | 2281 | 8.0 | 2381 | 8.4 | 2475 | 8.7 | 2566 | 9.0 | 2653 | 9.4 |
| 2000 | 2351 | 8.3 | 2449 | 8.6 | 2543 | 9.0 | 2632 | 9.3 | 2717 | 9.6 |
| 2125 | 2422 | 8.5 | 2519 | 8.9 | 2611 | 9.2 | 2699 | 9.5 | 2783 | 9.8 |
| 2250 | 2495 | 8.8 | 2590 | 9.1 | 2681 | 9.5 | 2767 | 9.8 | — | — |
| 2375 | 2569 | 9.1 | 2663 | 9.4 | 2752 | 9.7 | — | — | — | — |
| 2500 | 2643 | 9.3 | 2736 | 9.6 | 2824 | 10.0 | — | — | — | — |

High Static 1387-2836 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**04 SINGLE PHASE — 3 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 |
| 900 | 1097 | 0.09 | 1331 | 0.16 | 1524 | 0.25 | 1692 | 0.34 | 1842 | 0.44 |
| 975 | 1146 | 0.10 | 1373 | 0.18 | 1562 | 0.27 | 1728 | 0.36 | 1877 | 0.46 |
| 1050 | 1197 | 0.12 | 1416 | 0.20 | 1601 | 0.29 | 1765 | 0.38 | 1912 | 0.49 |
| 1125 | 1249 | 0.14 | 1460 | 0.22 | 1642 | 0.31 | 1803 | 0.41 | 1949 | 0.52 |
| 1200 | 1303 | 0.15 | 1506 | 0.24 | 1684 | 0.33 | 1842 | 0.44 | 1986 | 0.55 |
| 1275 | 1359 | 0.17 | 1553 | 0.26 | 1727 | 0.36 | 1883 | 0.46 | 2025 | 0.58 |
| 1350 | 1415 | 0.20 | 1602 | 0.29 | 1771 | 0.39 | 1925 | 0.50 | 2064 | 0.61 |
| 1425 | 1472 | 0.22 | 1652 | 0.31 | 1817 | 0.42 | 1967 | 0.53 | 2105 | 0.65 |
| 1500 | 1530 | 0.25 | 1703 | 0.34 | 1863 | 0.45 | 2010 | 0.57 | 2147 | 0.69 |

| 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 |
| 900 | 1980 | 0.54 | 2107 | 0.65 | 2225 | 0.77 | 2337 | 0.89 | 2443 | 1.02 |
| 975 | 2013 | 0.57 | 2139 | 0.68 | 2258 | 0.80 | 2369 | 0.93 | 2475 | 1.06 |
| 1050 | 2048 | 0.60 | 2173 | 0.71 | 2291 | 0.84 | 2401 | 0.96 | — | — |
| 1125 | 2083 | 0.63 | 2207 | 0.75 | 2324 | 0.87 | 2435 | 1.01 | — | — |
| 1200 | 2119 | 0.66 | 2242 | 0.78 | 2359 | 0.91 | 2468 | 1.05 | — | — |
| 1275 | 2156 | 0.70 | 2278 | 0.82 | 2394 | 0.96 | — | — | — | — |
| 1350 | 2194 | 0.74 | 2315 | 0.86 | 2429 | 1.00 | — | — | — | — |
| 1425 | 2233 | 0.78 | 2353 | 0.91 | 2466 | 1.04 | — | — | — | — |
| 1500 | 2273 | 0.82 | 2391 | 0.95 | — | — | — | — | — | — |

- Standard Static 1097-1890 RPM, 0.44 Max BHP
- Medium Static 1097-2190 RPM, 0.71 Max BHP
- High Static 1097-2490 RPM, 1.07 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**04 SINGLE PHASE - STANDARD STATIC — 3 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 |
| 900 | 1097 | 5.8 | 1331 | 7.0 | 1524 | 8.1 | 1692 | 9.0 | 1842 | 9.7 |
| 975 | 1146 | 6.1 | 1373 | 7.3 | 1562 | 8.3 | 1728 | 9.1 | — | — |
| 1050 | 1197 | 6.3 | 1416 | 7.5 | 1601 | 8.5 | 1765 | 9.3 | — | — |
| 1125 | 1249 | 6.6 | 1460 | 7.7 | 1642 | 8.7 | 1803 | 9.5 | — | — |
| 1200 | 1303 | 6.9 | 1506 | 8.0 | 1684 | 8.9 | 1842 | 9.7 | — | — |
| 1275 | 1359 | 7.2 | 1553 | 8.2 | 1727 | 9.1 | — | — | — | — |
| 1350 | 1415 | 7.5 | 1602 | 8.5 | 1771 | 9.4 | — | — | — | — |
| 1425 | 1472 | 7.8 | 1652 | 8.7 | 1817 | 9.6 | — | — | — | — |
| 1500 | 1530 | 8.1 | 1703 | 9.0 | — | — | — | — | — | — |

| 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 |
| 900 | — | — | — | — | — | — | — | — | — | — |
| 975 | — | — | — | — | — | — | — | — | — | — |
| 1050 | — | — | — | — | — | — | — | — | — | — |
| 1125 | — | — | — | — | — | — | — | — | — | — |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1097-1890 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC04 SINGLE PHASE - MEDIUM STATIC — 3 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 |
| 900 | 1097 | 5.0 | 1331 | 6.1 | 1524 | 7.0 | 1692 | 7.7 | 1842 | 8.4 |
| 975 | 1146 | 5.2 | 1373 | 6.3 | 1562 | 7.1 | 1728 | 7.9 | 1877 | 8.6 |
| 1050 | 1197 | 5.5 | 1416 | 6.5 | 1601 | 7.3 | 1765 | 8.1 | 1912 | 8.7 |
| 1125 | 1249 | 5.7 | 1460 | 6.7 | 1642 | 7.5 | 1803 | 8.2 | 1949 | 8.9 |
| 1200 | 1303 | 5.9 | 1506 | 6.9 | 1684 | 7.7 | 1842 | 8.4 | 1986 | 9.1 |
| 1275 | 1359 | 6.2 | 1553 | 7.1 | 1727 | 7.9 | 1883 | 8.6 | 2025 | 9.2 |
| 1350 | 1415 | 6.5 | 1602 | 7.3 | 1771 | 8.1 | 1925 | 8.8 | 2064 | 9.4 |
| 1425 | 1472 | 6.7 | 1652 | 7.5 | 1817 | 8.3 | 1967 | 9.0 | 2105 | 9.6 |
| 1500 | 1530 | 7.0 | 1703 | 7.8 | 1863 | 8.5 | 2010 | 9.2 | 2147 | 9.8 |

| 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 |
| 900 | 1980 | 9.0 | 2107 | 9.6 | — | — | — | — | — | — |
| 975 | 2013 | 9.2 | 2139 | 9.8 | — | — | — | — | — | — |
| 1050 | 2048 | 9.4 | 2173 | 9.9 | — | — | — | — | — | — |
| 1125 | 2083 | 9.5 | — | — | — | — | — | — | — | — |
| 1200 | 2119 | 9.7 | — | — | — | — | — | — | — | — |
| 1275 | 2156 | 9.8 | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1097-2190 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC04 SINGLE PHASE - HIGH STATIC — 3 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 |
| 900 | 1097 | 4.4 | 1331 | 5.3 | 1524 | 6.1 | 1692 | 6.8 | 1842 | 7.4 |
| 975 | 1146 | 4.6 | 1373 | 5.5 | 1562 | 6.3 | 1728 | 6.9 | 1877 | 7.5 |
| 1050 | 1197 | 4.8 | 1416 | 5.7 | 1601 | 6.4 | 1765 | 7.1 | 1912 | 7.7 |
| 1125 | 1249 | 5.0 | 1460 | 5.9 | 1642 | 6.6 | 1803 | 7.2 | 1949 | 7.8 |
| 1200 | 1303 | 5.2 | 1506 | 6.0 | 1684 | 6.8 | 1842 | 7.4 | 1986 | 8.0 |
| 1275 | 1359 | 5.5 | 1553 | 6.2 | 1727 | 6.9 | 1883 | 7.6 | 2025 | 8.1 |
| 1350 | 1415 | 5.7 | 1602 | 6.4 | 1771 | 7.1 | 1925 | 7.7 | 2064 | 8.3 |
| 1425 | 1472 | 5.9 | 1652 | 6.6 | 1817 | 7.3 | 1967 | 7.9 | 2105 | 8.5 |
| 1500 | 1530 | 6.1 | 1703 | 6.8 | 1863 | 7.5 | 2010 | 8.1 | 2147 | 8.6 |

| 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 |
| 900 | 1980 | 8.0 | 2107 | 8.5 | 2225 | 8.9 | 2337 | 9.4 | 2443 | 9.8 |
| 975 | 2013 | 8.1 | 2139 | 8.6 | 2258 | 9.1 | 2369 | 9.5 | 2475 | 9.9 |
| 1050 | 2048 | 8.2 | 2173 | 8.7 | 2291 | 9.2 | 2401 | 9.6 | — | — |
| 1125 | 2083 | 8.4 | 2207 | 8.9 | 2324 | 9.3 | 2435 | 9.8 | — | — |
| 1200 | 2119 | 8.5 | 2242 | 9.0 | 2359 | 9.5 | 2468 | 9.9 | — | — |
| 1275 | 2156 | 8.7 | 2278 | 9.1 | 2394 | 9.6 | — | — | — | — |
| 1350 | 2194 | 8.8 | 2315 | 9.3 | 2429 | 9.8 | — | — | — | — |
| 1425 | 2233 | 9.0 | 2353 | 9.4 | 2466 | 9.9 | — | — | — | — |
| 1500 | 2273 | 9.1 | 2391 | 9.6 | — | — | — | — | — | — |

High Static 1097-2490 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**04 THREE PHASE — 3 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 |
| 900 | 1097 | 0.09 | 1331 | 0.16 | 1524 | 0.25 | 1692 | 0.34 | 1842 | 0.44 |
| 975 | 1146 | 0.10 | 1373 | 0.18 | 1562 | 0.27 | 1728 | 0.36 | 1877 | 0.46 |
| 1050 | 1197 | 0.12 | 1416 | 0.20 | 1601 | 0.29 | 1765 | 0.38 | 1912 | 0.49 |
| 1125 | 1249 | 0.14 | 1460 | 0.22 | 1642 | 0.31 | 1803 | 0.41 | 1949 | 0.52 |
| 1200 | 1303 | 0.15 | 1506 | 0.24 | 1684 | 0.33 | 1842 | 0.44 | 1986 | 0.55 |
| 1275 | 1359 | 0.17 | 1553 | 0.26 | 1727 | 0.36 | 1883 | 0.46 | 2025 | 0.58 |
| 1350 | 1415 | 0.20 | 1602 | 0.29 | 1771 | 0.39 | 1925 | 0.50 | 2064 | 0.61 |
| 1425 | 1472 | 0.22 | 1652 | 0.31 | 1817 | 0.42 | 1967 | 0.53 | 2105 | 0.65 |
| 1500 | 1530 | 0.25 | 1703 | 0.34 | 1863 | 0.45 | 2010 | 0.57 | 2147 | 0.69 |

| 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 |
| 900 | 1980 | 0.54 | 2107 | 0.65 | 2225 | 0.77 | 2337 | 0.89 | 2443 | 1.02 |
| 975 | 2013 | 0.57 | 2139 | 0.68 | 2258 | 0.80 | 2369 | 0.93 | 2475 | 1.06 |
| 1050 | 2048 | 0.60 | 2173 | 0.71 | 2291 | 0.84 | 2401 | 0.96 | — | — |
| 1125 | 2083 | 0.63 | 2207 | 0.75 | 2324 | 0.87 | 2435 | 1.01 | — | — |
| 1200 | 2119 | 0.66 | 2242 | 0.78 | 2359 | 0.91 | 2468 | 1.05 | — | — |
| 1275 | 2156 | 0.70 | 2278 | 0.82 | 2394 | 0.96 | — | — | — | — |
| 1350 | 2194 | 0.74 | 2315 | 0.86 | 2429 | 1.00 | — | — | — | — |
| 1425 | 2233 | 0.78 | 2353 | 0.91 | 2466 | 1.04 | — | — | — | — |
| 1500 | 2273 | 0.82 | 2391 | 0.95 | — | — | — | — | — | — |

- Standard Static 1097-1890 RPM, 0.44 Max BHP
- Medium Static 1097-2190 RPM, 0.71 Max BHP
- High Static 1097-2490 RPM, 1.07 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**04 THREE PHASE - STANDARD STATIC — 3 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 |
| 900 | 1097 | 5.8 | 1331 | 7.0 | 1524 | 8.1 | 1692 | 9.0 | 1842 | 9.7 |
| 975 | 1146 | 6.1 | 1373 | 7.3 | 1562 | 8.3 | 1728 | 9.1 | — | — |
| 1050 | 1197 | 6.3 | 1416 | 7.5 | 1601 | 8.5 | 1765 | 9.3 | — | — |
| 1125 | 1249 | 6.6 | 1460 | 7.7 | 1642 | 8.7 | 1803 | 9.5 | — | — |
| 1200 | 1303 | 6.9 | 1506 | 8.0 | 1684 | 8.9 | 1842 | 9.7 | — | — |
| 1275 | 1359 | 7.2 | 1553 | 8.2 | 1727 | 9.1 | — | — | — | — |
| 1350 | 1415 | 7.5 | 1602 | 8.5 | 1771 | 9.4 | — | — | — | — |
| 1425 | 1472 | 7.8 | 1652 | 8.7 | 1817 | 9.6 | — | — | — | — |
| 1500 | 1530 | 8.1 | 1703 | 9.0 | — | — | — | — | — | — |

| 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 |
| 900 | — | — | — | — | — | — | — | — | — | — |
| 975 | — | — | — | — | — | — | — | — | — | — |
| 1050 | — | — | — | — | — | — | — | — | — | — |
| 1125 | — | — | — | — | — | — | — | — | — | — |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1097-1890 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC04 THREE PHASE - MEDIUM STATIC — 3 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 |
| 900 | 1097 | 5.0 | 1331 | 6.1 | 1524 | 7.0 | 1692 | 7.7 | 1842 | 8.4 |
| 975 | 1146 | 5.2 | 1373 | 6.3 | 1562 | 7.1 | 1728 | 7.9 | 1877 | 8.6 |
| 1050 | 1197 | 5.5 | 1416 | 6.5 | 1601 | 7.3 | 1765 | 8.1 | 1912 | 8.7 |
| 1125 | 1249 | 5.7 | 1460 | 6.7 | 1642 | 7.5 | 1803 | 8.2 | 1949 | 8.9 |
| 1200 | 1303 | 5.9 | 1506 | 6.9 | 1684 | 7.7 | 1842 | 8.4 | 1986 | 9.1 |
| 1275 | 1359 | 6.2 | 1553 | 7.1 | 1727 | 7.9 | 1883 | 8.6 | 2025 | 9.2 |
| 1350 | 1415 | 6.5 | 1602 | 7.3 | 1771 | 8.1 | 1925 | 8.8 | 2064 | 9.4 |
| 1425 | 1472 | 6.7 | 1652 | 7.5 | 1817 | 8.3 | 1967 | 9.0 | 2105 | 9.6 |
| 1500 | 1530 | 7.0 | 1703 | 7.8 | 1863 | 8.5 | 2010 | 9.2 | 2147 | 9.8 |

| 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 |
| 900 | 1980 | 9.0 | 2107 | 9.6 | — | — | — | — | — | — |
| 975 | 2013 | 9.2 | 2139 | 9.8 | — | — | — | — | — | — |
| 1050 | 2048 | 9.4 | 2173 | 9.9 | — | — | — | — | — | — |
| 1125 | 2083 | 9.5 | — | — | — | — | — | — | — | — |
| 1200 | 2119 | 9.7 | — | — | — | — | — | — | — | — |
| 1275 | 2156 | 9.8 | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1097-2190 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC04 THREE PHASE - HIGH STATIC — 3 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 |
| 900 | 1097 | 4.4 | 1331 | 5.3 | 1524 | 6.1 | 1692 | 6.8 | 1842 | 7.4 |
| 975 | 1146 | 4.6 | 1373 | 5.5 | 1562 | 6.3 | 1728 | 6.9 | 1877 | 7.5 |
| 1050 | 1197 | 4.8 | 1416 | 5.7 | 1601 | 6.4 | 1765 | 7.1 | 1912 | 7.7 |
| 1125 | 1249 | 5.0 | 1460 | 5.9 | 1642 | 6.6 | 1803 | 7.2 | 1949 | 7.8 |
| 1200 | 1303 | 5.2 | 1506 | 6.0 | 1684 | 6.8 | 1842 | 7.4 | 1986 | 8.0 |
| 1275 | 1359 | 5.5 | 1553 | 6.2 | 1727 | 6.9 | 1883 | 7.6 | 2025 | 8.1 |
| 1350 | 1415 | 5.7 | 1602 | 6.4 | 1771 | 7.1 | 1925 | 7.7 | 2064 | 8.3 |
| 1425 | 1472 | 5.9 | 1652 | 6.6 | 1817 | 7.3 | 1967 | 7.9 | 2105 | 8.5 |
| 1500 | 1530 | 6.1 | 1703 | 6.8 | 1863 | 7.5 | 2010 | 8.1 | 2147 | 8.6 |

| 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 |
| 900 | 1980 | 8.0 | 2107 | 8.5 | 2225 | 8.9 | 2337 | 9.4 | 2443 | 9.8 |
| 975 | 2013 | 8.1 | 2139 | 8.6 | 2258 | 9.1 | 2369 | 9.5 | 2475 | 9.9 |
| 1050 | 2048 | 8.2 | 2173 | 8.7 | 2291 | 9.2 | 2401 | 9.6 | — | — |
| 1125 | 2083 | 8.4 | 2207 | 8.9 | 2324 | 9.3 | 2435 | 9.8 | — | — |
| 1200 | 2119 | 8.5 | 2242 | 9.0 | 2359 | 9.5 | 2468 | 9.9 | — | — |
| 1275 | 2156 | 8.7 | 2278 | 9.1 | 2394 | 9.6 | — | — | — | — |
| 1350 | 2194 | 8.8 | 2315 | 9.3 | 2429 | 9.8 | — | — | — | — |
| 1425 | 2233 | 9.0 | 2353 | 9.4 | 2466 | 9.9 | — | — | — | — |
| 1500 | 2273 | 9.1 | 2391 | 9.6 | — | — | — | — | — | — |

High Static 1097-2490 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 SINGLE PHASE — 4 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 |
| 1200 | 1217 | 0.19 | 1411 | 0.30 | 1576 | 0.42 | 1722 | 0.55 | 1855 | 0.68 |
| 1300 | 1283 | 0.23 | 1470 | 0.34 | 1631 | 0.46 | 1774 | 0.60 | 1904 | 0.74 |
| 1400 | 1351 | 0.26 | 1531 | 0.38 | 1688 | 0.51 | 1827 | 0.65 | 1955 | 0.80 |
| 1500 | 1420 | 0.31 | 1593 | 0.43 | 1746 | 0.57 | 1883 | 0.71 | 2008 | 0.86 |
| 1600 | 1491 | 0.35 | 1657 | 0.48 | 1805 | 0.63 | 1939 | 0.78 | 2062 | 0.93 |
| 1700 | 1563 | 0.41 | 1722 | 0.54 | 1866 | 0.69 | 1997 | 0.85 | 2118 | 1.01 |
| 1800 | 1635 | 0.46 | 1789 | 0.61 | 1928 | 0.76 | 2056 | 0.92 | 2174 | 1.09 |
| 1900 | 1709 | 0.53 | 1856 | 0.68 | 1991 | 0.84 | 2116 | 1.01 | 2232 | 1.18 |
| 2000 | 1784 | 0.60 | 1925 | 0.76 | 2056 | 0.92 | 2178 | 1.10 | 2291 | 1.28 |

| 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 |
| 1200 | 1978 | 0.83 | 2094 | 0.98 | 2204 | 1.15 | 2308 | 1.32 | 2409 | 1.50 |
| 1300 | 2025 | 0.89 | 2138 | 1.05 | 2246 | 1.21 | 2349 | 1.39 | 2447 | 1.57 |
| 1400 | 2074 | 0.95 | 2185 | 1.11 | 2291 | 1.28 | 2391 | 1.46 | — | — |
| 1500 | 2124 | 1.02 | 2234 | 1.19 | 2338 | 1.36 | 2436 | 1.54 | — | — |
| 1600 | 2176 | 1.10 | 2284 | 1.27 | 2386 | 1.45 | — | — | — | — |
| 1700 | 2230 | 1.18 | 2336 | 1.36 | 2436 | 1.54 | — | — | — | — |
| 1800 | 2285 | 1.27 | 2389 | 1.45 | — | — | — | — | — | — |
| 1900 | 2341 | 1.36 | 2444 | 1.55 | — | — | — | — | — | — |
| 2000 | 2398 | 1.46 | — | — | — | — | — | — | — | — |

- Standard Static 1217-1900 RPM, 0.72 Max BHP
- Medium Static 1217-2170 RPM, 1.06 Max BHP
- High Static 1217-2460 RPM, 1.53, Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 SINGLE PHASE - STANDARD STATIC — 4 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 |
| 1200 | 1217 | 6.4 | 1411 | 7.4 | 1576 | 8.3 | 1722 | 9.1 | 1855 | 9.8 |
| 1300 | 1283 | 6.8 | 1470 | 7.7 | 1631 | 8.6 | 1774 | 9.3 | — | — |
| 1400 | 1351 | 7.1 | 1531 | 8.1 | 1688 | 8.9 | 1827 | 9.6 | — | — |
| 1500 | 1420 | 7.5 | 1593 | 8.4 | 1746 | 9.2 | 1883 | 9.9 | — | — |
| 1600 | 1491 | 7.8 | 1657 | 8.7 | 1805 | 9.5 | — | — | — | — |
| 1700 | 1563 | 8.2 | 1722 | 9.1 | 1866 | 9.8 | — | — | — | — |
| 1800 | 1635 | 8.6 | 1789 | 9.4 | — | — | — | — | — | — |
| 1900 | 1709 | 9.0 | 1856 | 9.8 | — | — | — | — | — | — |
| 2000 | 1784 | 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 |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1300 | — | — | — | — | — | — | — | — | — | — |
| 1400 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1217-1990 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC05 SINGLE PHASE - MEDIUM STATIC — 4 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 |
| 1200 | 1217 | 5.6 | 1411 | 6.5 | 1576 | 7.3 | 1722 | 7.9 | 1855 | 8.5 |
| 1300 | 1283 | 5.9 | 1470 | 6.8 | 1631 | 7.5 | 1774 | 8.2 | 1904 | 8.8 |
| 1400 | 1351 | 6.2 | 1531 | 7.1 | 1688 | 7.8 | 1827 | 8.4 | 1955 | 9.0 |
| 1500 | 1420 | 6.5 | 1593 | 7.3 | 1746 | 8.0 | 1883 | 8.7 | 2008 | 9.3 |
| 1600 | 1491 | 6.9 | 1657 | 7.6 | 1805 | 8.3 | 1939 | 8.9 | 2062 | 9.5 |
| 1700 | 1563 | 7.2 | 1722 | 7.9 | 1866 | 8.6 | 1997 | 9.2 | 2118 | 9.8 |
| 1800 | 1635 | 7.5 | 1789 | 8.2 | 1928 | 8.9 | 2056 | 9.5 | — | — |
| 1900 | 1709 | 7.9 | 1856 | 8.6 | 1991 | 9.2 | 2116 | 9.8 | — | — |
| 2000 | 1784 | 8.2 | 1925 | 8.9 | 2056 | 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 |
| 1200 | 1978 | 9.1 | 2094 | 9.6 | — | — | — | — | — | — |
| 1300 | 2025 | 9.3 | 2138 | 9.9 | — | — | — | — | — | — |
| 1400 | 2074 | 9.6 | — | — | — | — | — | — | — | — |
| 1500 | 2124 | 9.8 | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1217-2170 RPM, 1.06 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC05 SINGLE PHASE - HIGH STATIC — 4 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 |
| 1200 | 1217 | 4.9 | 1411 | 5.7 | 1576 | 6.4 | 1722 | 7.0 | 1855 | 7.5 |
| 1300 | 1283 | 5.2 | 1470 | 6.0 | 1631 | 6.6 | 1774 | 7.2 | 1904 | 7.7 |
| 1400 | 1351 | 5.5 | 1531 | 6.2 | 1688 | 6.9 | 1827 | 7.4 | 1955 | 7.9 |
| 1500 | 1420 | 5.8 | 1593 | 6.5 | 1746 | 7.1 | 1883 | 7.7 | 2008 | 8.2 |
| 1600 | 1491 | 6.1 | 1657 | 6.7 | 1805 | 7.3 | 1939 | 7.9 | 2062 | 8.4 |
| 1700 | 1563 | 6.4 | 1722 | 7.0 | 1866 | 7.6 | 1997 | 8.1 | 2118 | 8.6 |
| 1800 | 1635 | 6.6 | 1789 | 7.3 | 1928 | 7.8 | 2056 | 8.4 | 2174 | 8.8 |
| 1900 | 1709 | 6.9 | 1856 | 7.5 | 1991 | 8.1 | 2116 | 8.6 | 2232 | 9.1 |
| 2000 | 1784 | 7.3 | 1925 | 7.8 | 2056 | 8.4 | 2178 | 8.9 | 2291 | 9.3 |

| 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 |
| 1200 | 1978 | 8.0 | 2094 | 8.5 | 2204 | 9.0 | 2308 | 9.4 | 2409 | 9.8 |
| 1300 | 2025 | 8.2 | 2138 | 8.7 | 2246 | 9.1 | 2349 | 9.5 | 2447 | 9.9 |
| 1400 | 2074 | 8.4 | 2185 | 8.9 | 2291 | 9.3 | 2391 | 9.7 | — | — |
| 1500 | 2124 | 8.6 | 2234 | 9.1 | 2338 | 9.5 | 2436 | 9.9 | — | — |
| 1600 | 2176 | 8.8 | 2284 | 9.3 | 2386 | 9.7 | — | — | — | — |
| 1700 | 2230 | 9.1 | 2336 | 9.5 | 2436 | 9.9 | — | — | — | — |
| 1800 | 2285 | 9.3 | 2389 | 9.7 | — | — | — | — | — | — |
| 1900 | 2341 | 9.5 | 2444 | 9.9 | — | — | — | — | — | — |
| 2000 | 2398 | 9.7 | — | — | — | — | — | — | — | — |

High Static 1217-2460 RPM1.53, Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 THREE PHASE — 4 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 |
| 1200 | 1216 | 0.19 | 1411 | 0.30 | 1576 | 0.42 | 1722 | 0.55 | 1855 | 0.68 |
| 1300 | 1283 | 0.23 | 1470 | 0.34 | 1631 | 0.46 | 1774 | 0.60 | 1904 | 0.74 |
| 1400 | 1351 | 0.26 | 1531 | 0.38 | 1687 | 0.51 | 1827 | 0.65 | 1955 | 0.80 |
| 1500 | 1420 | 0.31 | 1593 | 0.43 | 1746 | 0.57 | 1882 | 0.71 | 2008 | 0.86 |
| 1600 | 1491 | 0.35 | 1657 | 0.48 | 1806 | 0.63 | 1939 | 0.78 | 2062 | 0.93 |
| 1700 | 1562 | 0.41 | 1722 | 0.54 | 1866 | 0.69 | 1998 | 0.85 | 2117 | 1.01 |
| 1800 | 1636 | 0.47 | 1788 | 0.61 | 1928 | 0.76 | 2056 | 0.92 | 2175 | 1.09 |
| 1900 | 1710 | 0.53 | 1856 | 0.68 | 1991 | 0.84 | 2117 | 1.01 | 2233 | 1.18 |
| 2000 | 1784 | 0.60 | 1924 | 0.76 | 2055 | 0.92 | 2178 | 1.10 | 2292 | 1.28 |

| 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 |
| 1200 | 1978 | 0.83 | 2094 | 0.98 | 2204 | 1.15 | 2308 | 1.32 | 2409 | 1.50 |
| 1300 | 2025 | 0.89 | 2138 | 1.05 | 2246 | 1.21 | 2349 | 1.39 | 2447 | 1.57 |
| 1400 | 2073 | 0.95 | 2185 | 1.11 | 2291 | 1.28 | 2392 | 1.46 | 2488 | 1.64 |
| 1500 | 2124 | 1.02 | 2233 | 1.19 | 2338 | 1.36 | 2437 | 1.54 | 2532 | 1.73 |
| 1600 | 2176 | 1.10 | 2284 | 1.27 | 2386 | 1.45 | 2483 | 1.63 | 2577 | 1.82 |
| 1700 | 2230 | 1.18 | 2336 | 1.36 | 2436 | 1.54 | 2532 | 1.73 | 2624 | 1.92 |
| 1800 | 2285 | 1.27 | 2389 | 1.45 | 2488 | 1.64 | 2582 | 1.83 | — | — |
| 1900 | 2341 | 1.36 | 2443 | 1.55 | 2541 | 1.74 | 2634 | 1.94 | — | — |
| 2000 | 2399 | 1.46 | 2499 | 1.66 | 2595 | 1.85 | — | — | — | — |

- Standard Static 1216-1900 RPM, 0.72 Max BHP
- Medium Static 1216-2170 RPM, 1.06 Max BHP
- High Static 1216-2660 RPM, 1.96 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**05 THREE PHASE - STANDARD STATIC — 4 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 |
| 1200 | 1216 | 6.4 | 1411 | 7.4 | 1576 | 8.3 | 1722 | 9.1 | 1855 | 9.8 |
| 1300 | 1283 | 6.8 | 1470 | 7.7 | 1631 | 8.6 | 1774 | 9.3 | — | — |
| 1400 | 1351 | 7.1 | 1531 | 8.1 | 1687 | 8.9 | 1827 | 9.6 | — | — |
| 1500 | 1420 | 7.5 | 1593 | 8.4 | 1746 | 9.2 | 1882 | 9.9 | — | — |
| 1600 | 1491 | 7.8 | 1657 | 8.7 | 1806 | 9.5 | — | — | — | — |
| 1700 | 1562 | 8.2 | 1722 | 9.1 | 1866 | 9.8 | — | — | — | — |
| 1800 | 1636 | 8.6 | 1788 | 9.4 | — | — | — | — | — | — |
| 1900 | 1710 | 9.0 | 1856 | 9.8 | — | — | — | — | — | — |
| 2000 | 1784 | 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 |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1300 | — | — | — | — | — | — | — | — | — | — |
| 1400 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

- Standard Static 1216-1900 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC05 THREE PHASE - MEDIUM STATIC — 4 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 |
| 1200 | 1216 | 5.6 | 1411 | 6.5 | 1576 | 7.3 | 1722 | 7.9 | 1855 | 8.5 |
| 1300 | 1283 | 5.9 | 1470 | 6.8 | 1631 | 7.5 | 1774 | 8.2 | 1904 | 8.8 |
| 1400 | 1351 | 6.2 | 1531 | 7.1 | 1687 | 7.8 | 1827 | 8.4 | 1955 | 9.0 |
| 1500 | 1420 | 6.5 | 1593 | 7.3 | 1746 | 8.0 | 1882 | 8.7 | 2008 | 9.3 |
| 1600 | 1491 | 6.9 | 1657 | 7.6 | 1806 | 8.3 | 1939 | 8.9 | 2062 | 9.5 |
| 1700 | 1562 | 7.2 | 1722 | 7.9 | 1866 | 8.6 | 1998 | 9.2 | 2117 | 9.8 |
| 1800 | 1636 | 7.5 | 1788 | 8.2 | 1928 | 8.9 | 2056 | 9.5 | — | — |
| 1900 | 1710 | 7.9 | 1856 | 8.6 | 1991 | 9.2 | 2117 | 9.8 | — | — |
| 2000 | 1784 | 8.2 | 1924 | 8.9 | 2055 | 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 |
| 1200 | 1978 | 9.1 | 2094 | 9.6 | — | — | — | — | — | — |
| 1300 | 2025 | 9.3 | 2138 | 9.9 | — | — | — | — | — | — |
| 1400 | 2073 | 9.6 | — | — | — | — | — | — | — | — |
| 1500 | 2124 | 9.8 | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1216-2170 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC05 THREE PHASE - HIGH STATIC — 4 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 |
| 1200 | 1216 | 4.6 | 1411 | 5.3 | 1576 | 5.9 | 1722 | 6.5 | 1855 | 7.0 |
| 1300 | 1283 | 4.8 | 1470 | 5.5 | 1631 | 6.1 | 1774 | 6.7 | 1904 | 7.2 |
| 1400 | 1351 | 5.1 | 1531 | 5.8 | 1687 | 6.3 | 1827 | 6.9 | 1955 | 7.3 |
| 1500 | 1420 | 5.3 | 1593 | 6.0 | 1746 | 6.6 | 1882 | 7.1 | 2008 | 7.5 |
| 1600 | 1491 | 5.6 | 1657 | 6.2 | 1806 | 6.8 | 1939 | 7.3 | 2062 | 7.8 |
| 1700 | 1562 | 5.9 | 1722 | 6.5 | 1866 | 7.0 | 1998 | 7.5 | 2117 | 8.0 |
| 1800 | 1636 | 6.2 | 1788 | 6.7 | 1928 | 7.2 | 2056 | 7.7 | 2175 | 8.2 |
| 1900 | 1710 | 6.4 | 1856 | 7.0 | 1991 | 7.5 | 2117 | 8.0 | 2233 | 8.4 |
| 2000 | 1784 | 6.7 | 1924 | 7.2 | 2055 | 7.7 | 2178 | 8.2 | 2292 | 8.6 |

| 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 |
| 1200 | 1978 | 7.4 | 2094 | 7.9 | 2204 | 8.3 | 2308 | 8.7 | 2409 | 9.1 |
| 1300 | 2025 | 7.6 | 2138 | 8.0 | 2246 | 8.4 | 2349 | 8.8 | 2447 | 9.2 |
| 1400 | 2073 | 7.8 | 2185 | 8.2 | 2291 | 8.6 | 2392 | 9.0 | 2488 | 9.4 |
| 1500 | 2124 | 8.0 | 2233 | 8.4 | 2338 | 8.8 | 2437 | 9.2 | 2532 | 9.5 |
| 1600 | 2176 | 8.2 | 2284 | 8.6 | 2386 | 9.0 | 2483 | 9.3 | 2577 | 9.7 |
| 1700 | 2230 | 8.4 | 2336 | 8.8 | 2436 | 9.2 | 2532 | 9.5 | 2624 | 9.9 |
| 1800 | 2285 | 8.6 | 2389 | 9.0 | 2488 | 9.4 | 2582 | 9.7 | — | — |
| 1900 | 2341 | 8.8 | 2443 | 9.2 | 2541 | 9.6 | 2634 | 9.9 | — | — |
| 2000 | 2399 | 9.0 | 2499 | 9.4 | 2595 | 9.8 | — | — | — | — |

High Static 1216-2660 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**06 SINGLE PHASE — 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 |
| 1500 | 1335 | 0.25 | 1507 | 0.36 | 1660 | 0.49 | 1796 | 0.61 | 1921 | 0.75 |
| 1625 | 1417 | 0.30 | 1580 | 0.42 | 1727 | 0.55 | 1860 | 0.68 | 1982 | 0.82 |
| 1750 | 1502 | 0.36 | 1654 | 0.48 | 1796 | 0.61 | 1926 | 0.76 | 2046 | 0.91 |
| 1875 | 1589 | 0.42 | 1731 | 0.55 | 1867 | 0.69 | 1993 | 0.84 | 2110 | 0.99 |
| 2000 | 1677 | 0.50 | 1810 | 0.63 | 1940 | 0.77 | 2062 | 0.92 | 2177 | 1.09 |
| 2125 | 1765 | 0.58 | 1890 | 0.71 | 2015 | 0.86 | 2133 | 1.02 | 2244 | 1.19 |
| 2250 | 1855 | 0.67 | 1972 | 0.81 | 2091 | 0.96 | 2206 | 1.13 | 2314 | 1.31 |
| 2375 | 1946 | 0.78 | 2057 | 0.92 | 2169 | 1.07 | 2279 | 1.25 | 2385 | 1.43 |
| 2500 | 2038 | 0.89 | 2142 | 1.03 | 2249 | 1.20 | 2355 | 1.37 | — | — |

| 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 |
| 1500 | 2036 | 0.89 | 2143 | 1.04 | 2245 | 1.20 | 2342 | 1.36 | — | — |
| 1625 | 2095 | 0.97 | 2201 | 1.13 | 2301 | 1.29 | — | — | — | — |
| 1750 | 2157 | 1.06 | 2261 | 1.22 | 2359 | 1.39 | — | — | — | — |
| 1875 | 2219 | 1.15 | 2322 | 1.32 | — | — | — | — | — | — |
| 2000 | 2284 | 1.26 | 2384 | 1.43 | — | — | — | — | — | — |
| 2125 | 2349 | 1.37 | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1335-2150 RPM, 1.06 Max BHP

Medium Static 1335-2390 RPM, 1.44 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**06 SINGLE PHASE - STANDARD STATIC — 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 |
| 1500 | 1335 | 6.2 | 1507 | 7.0 | 1660 | 7.7 | 1796 | 8.4 | 1921 | 8.9 |
| 1625 | 1417 | 6.6 | 1580 | 7.3 | 1727 | 8.0 | 1860 | 8.7 | 1982 | 9.2 |
| 1750 | 1502 | 7.0 | 1654 | 7.7 | 1796 | 8.4 | 1926 | 9.0 | 2046 | 9.5 |
| 1875 | 1589 | 7.4 | 1731 | 8.1 | 1867 | 8.7 | 1993 | 9.3 | 2110 | 9.8 |
| 2000 | 1677 | 7.8 | 1810 | 8.4 | 1940 | 9.0 | 2062 | 9.6 | — | — |
| 2125 | 1765 | 8.2 | 1890 | 8.8 | 2015 | 9.4 | 2133 | 9.9 | — | — |
| 2250 | 1855 | 8.6 | 1972 | 9.2 | 2091 | 9.7 | — | — | — | — |
| 2375 | 1946 | 9.1 | 2057 | 9.6 | — | — | — | — | — | — |
| 2500 | 2038 | 9.5 | 2142 | 10.0 | — | — | — | — | — | — |

| 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 |
| 1500 | 2036 | 9.5 | 2143 | 10.0 | — | — | — | — | — | — |
| 1625 | 2095 | 9.7 | — | — | — | — | — | — | — | — |
| 1750 | — | — | — | — | — | — | — | — | — | — |
| 1875 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1335-2150 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC06 SINGLE PHASE - MEDIUM STATIC — 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 |
| 1500 | 1335 | 5.6 | 1507 | 6.3 | 1660 | 6.9 | 1796 | 7.5 | 1921 | 8.0 |
| 1625 | 1417 | 5.9 | 1580 | 6.6 | 1727 | 7.2 | 1860 | 7.8 | 1982 | 8.3 |
| 1750 | 1502 | 6.3 | 1654 | 6.9 | 1796 | 7.5 | 1926 | 8.1 | 2046 | 8.6 |
| 1875 | 1589 | 6.6 | 1731 | 7.2 | 1867 | 7.8 | 1993 | 8.3 | 2110 | 8.8 |
| 2000 | 1677 | 7.0 | 1810 | 7.6 | 1940 | 8.1 | 2062 | 8.6 | 2177 | 9.1 |
| 2125 | 1765 | 7.4 | 1890 | 7.9 | 2015 | 8.4 | 2133 | 8.9 | 2244 | 9.4 |
| 2250 | 1855 | 7.8 | 1972 | 8.3 | 2091 | 8.7 | 2206 | 9.2 | 2314 | 9.7 |
| 2375 | 1946 | 8.1 | 2057 | 8.6 | 2169 | 9.1 | 2279 | 9.5 | 2385 | 10.0 |
| 2500 | 2038 | 8.5 | 2142 | 9.0 | 2249 | 9.4 | 2355 | 9.9 | — | — |

| 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 |
| 1500 | 2036 | 8.5 | 2143 | 9.0 | 2245 | 9.4 | 2342 | 9.8 | — | — |
| 1625 | 2095 | 8.8 | 2201 | 9.2 | 2301 | 9.6 | — | — | — | — |
| 1750 | 2157 | 9.0 | 2261 | 9.5 | 2359 | 9.9 | — | — | — | — |
| 1875 | 2219 | 9.3 | 2322 | 9.7 | — | — | — | — | — | — |
| 2000 | 2284 | 9.6 | 2384 | 10.0 | — | — | — | — | — | — |
| 2125 | 2349 | 9.8 | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1335-2390 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**06 THREE PHASE — 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 |
| 1500 | 1335 | 0.25 | 1507 | 0.36 | 1660 | 0.49 | 1796 | 0.61 | 1921 | 0.75 |
| 1625 | 1418 | 0.30 | 1579 | 0.42 | 1727 | 0.55 | 1860 | 0.68 | 1982 | 0.82 |
| 1750 | 1502 | 0.36 | 1654 | 0.48 | 1797 | 0.61 | 1927 | 0.76 | 2046 | 0.91 |
| 1875 | 1589 | 0.42 | 1731 | 0.55 | 1867 | 0.69 | 1994 | 0.84 | 2111 | 0.99 |
| 2000 | 1676 | 0.50 | 1810 | 0.63 | 1940 | 0.77 | 2063 | 0.93 | 2177 | 1.09 |
| 2125 | 1765 | 0.58 | 1890 | 0.71 | 2015 | 0.86 | 2133 | 1.02 | 2245 | 1.19 |
| 2250 | 1855 | 0.67 | 1973 | 0.81 | 2091 | 0.96 | 2206 | 1.13 | 2314 | 1.31 |
| 2375 | 1946 | 0.78 | 2057 | 0.92 | 2169 | 1.07 | 2279 | 1.25 | 2385 | 1.43 |
| 2500 | 2038 | 0.89 | 2142 | 1.03 | 2249 | 1.20 | 2355 | 1.37 | 2457 | 1.56 |

| 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 |
| 1500 | 2036 | 0.89 | 2144 | 1.05 | 2245 | 1.20 | 2342 | 1.36 | 2435 | 1.53 |
| 1625 | 2095 | 0.97 | 2201 | 1.13 | 2301 | 1.29 | 2396 | 1.46 | 2487 | 1.63 |
| 1750 | 2157 | 1.06 | 2261 | 1.22 | 2359 | 1.39 | 2453 | 1.56 | 2543 | 1.74 |
| 1875 | 2219 | 1.15 | 2322 | 1.32 | 2419 | 1.49 | 2511 | 1.67 | 2599 | 1.85 |
| 2000 | 2284 | 1.26 | 2384 | 1.43 | 2480 | 1.61 | 2571 | 1.79 | 2658 | 1.98 |
| 2125 | 2350 | 1.37 | 2449 | 1.55 | 2542 | 1.73 | 2632 | 1.92 | 2718 | 2.12 |
| 2250 | 2417 | 1.49 | 2514 | 1.67 | 2607 | 1.87 | 2695 | 2.06 | 2779 | 2.26 |
| 2375 | 2485 | 1.62 | 2581 | 1.81 | 2672 | 2.01 | 2759 | 2.21 | — | — |
| 2500 | 2555 | 1.76 | 2648 | 1.95 | 2738 | 2.16 | 2824 | 2.37 | — | — |

Standard Static 1335-2150 RPM, 1.06 Max BHP

Medium Static 1335-2390 RPM, 1.44 Max BHP

High Static 1335-2836 RPM, 2.43 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC**06 THREE PHASE - STANDARD STATIC — 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 |
| 1500 | 1335 | 6.2 | 1507 | 7.0 | 1660 | 7.7 | 1796 | 8.4 | 1921 | 8.9 |
| 1625 | 1418 | 6.6 | 1579 | 7.3 | 1727 | 8.0 | 1860 | 8.7 | 1982 | 9.2 |
| 1750 | 1502 | 7.0 | 1654 | 7.7 | 1797 | 8.4 | 1927 | 9.0 | 2046 | 9.5 |
| 1875 | 1589 | 7.4 | 1731 | 8.1 | 1867 | 8.7 | 1994 | 9.3 | 2111 | 9.8 |
| 2000 | 1676 | 7.8 | 1810 | 8.4 | 1940 | 9.0 | 2063 | 9.6 | — | — |
| 2125 | 1765 | 8.2 | 1890 | 8.8 | 2015 | 9.4 | 2133 | 9.9 | — | — |
| 2250 | 1855 | 8.6 | 1973 | 9.2 | 2091 | 9.7 | — | — | — | — |
| 2375 | 1946 | 9.1 | 2057 | 9.6 | — | — | — | — | — | — |
| 2500 | 2038 | 9.5 | 2142 | 10.0 | — | — | — | — | — | — |

| 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 |
| 1500 | 2036 | 9.5 | 2144 | 10.0 | — | — | — | — | — | — |
| 1625 | 2095 | 9.7 | — | — | — | — | — | — | — | — |
| 1750 | — | — | — | — | — | — | — | — | — | — |
| 1875 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1335-2150 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.



48GC06 THREE PHASE - MEDIUM STATIC — 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 |
| 1500 | 1335 | 5.6 | 1507 | 6.3 | 1660 | 6.9 | 1796 | 7.5 | 1921 | 8.0 |
| 1625 | 1418 | 5.9 | 1579 | 6.6 | 1727 | 7.2 | 1860 | 7.8 | 1982 | 8.3 |
| 1750 | 1502 | 6.3 | 1654 | 6.9 | 1797 | 7.5 | 1927 | 8.1 | 2046 | 8.6 |
| 1875 | 1589 | 6.6 | 1731 | 7.2 | 1867 | 7.8 | 1994 | 8.3 | 2111 | 8.8 |
| 2000 | 1676 | 7.0 | 1810 | 7.6 | 1940 | 8.1 | 2063 | 8.6 | 2177 | 9.1 |
| 2125 | 1765 | 7.4 | 1890 | 7.9 | 2015 | 8.4 | 2133 | 8.9 | 2245 | 9.4 |
| 2250 | 1855 | 7.8 | 1973 | 8.3 | 2091 | 8.7 | 2206 | 9.2 | 2314 | 9.7 |
| 2375 | 1946 | 8.1 | 2057 | 8.6 | 2169 | 9.1 | 2279 | 9.5 | 2385 | 10.0 |
| 2500 | 2038 | 8.5 | 2142 | 9.0 | 2249 | 9.4 | 2355 | 9.9 | — | — |

| 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 |
| 1500 | 2036 | 8.5 | 2144 | 9.0 | 2245 | 9.4 | 2342 | 9.8 | — | — |
| 1625 | 2095 | 8.8 | 2201 | 9.2 | 2301 | 9.6 | — | — | — | — |
| 1750 | 2157 | 9.0 | 2261 | 9.5 | 2359 | 9.9 | — | — | — | — |
| 1875 | 2219 | 9.3 | 2322 | 9.7 | — | — | — | — | — | — |
| 2000 | 2284 | 9.6 | 2384 | 10.0 | — | — | — | — | — | — |
| 2125 | 2350 | 9.8 | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1335-2390 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

48GC06 THREE PHASE - HIGH STATIC — 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 |
| 1500 | 1335 | 4.7 | 1507 | 5.3 | 1660 | 5.9 | 1796 | 6.3 | 1921 | 6.8 |
| 1625 | 1418 | 5.0 | 1579 | 5.6 | 1727 | 6.1 | 1860 | 6.6 | 1982 | 7.0 |
| 1750 | 1502 | 5.3 | 1654 | 5.8 | 1797 | 6.3 | 1927 | 6.8 | 2046 | 7.2 |
| 1875 | 1589 | 5.6 | 1731 | 6.1 | 1867 | 6.6 | 1994 | 7.0 | 2111 | 7.4 |
| 2000 | 1676 | 5.9 | 1810 | 6.4 | 1940 | 6.8 | 2063 | 7.3 | 2177 | 7.7 |
| 2125 | 1765 | 6.2 | 1890 | 6.7 | 2015 | 7.1 | 2133 | 7.5 | 2245 | 7.9 |
| 2250 | 1855 | 6.5 | 1973 | 7.0 | 2091 | 7.4 | 2206 | 7.8 | 2314 | 8.2 |
| 2375 | 1946 | 6.9 | 2057 | 7.3 | 2169 | 7.6 | 2279 | 8.0 | 2385 | 8.4 |
| 2500 | 2038 | 7.2 | 2142 | 7.6 | 2249 | 7.9 | 2355 | 8.3 | 2457 | 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 |
| 1500 | 2036 | 7.2 | 2144 | 7.6 | 2245 | 7.9 | 2342 | 8.3 | 2435 | 8.6 |
| 1625 | 2095 | 7.4 | 2201 | 7.8 | 2301 | 8.1 | 2396 | 8.4 | 2487 | 8.8 |
| 1750 | 2157 | 7.6 | 2261 | 8.0 | 2359 | 8.3 | 2453 | 8.6 | 2543 | 9.0 |
| 1875 | 2219 | 7.8 | 2322 | 8.2 | 2419 | 8.5 | 2511 | 8.9 | 2599 | 9.2 |
| 2000 | 2284 | 8.1 | 2384 | 8.4 | 2480 | 8.7 | 2571 | 9.1 | 2658 | 9.4 |
| 2125 | 2350 | 8.3 | 2449 | 8.6 | 2542 | 9.0 | 2632 | 9.3 | 2718 | 9.6 |
| 2250 | 2417 | 8.5 | 2514 | 8.9 | 2607 | 9.2 | 2695 | 9.5 | 2779 | 9.8 |
| 2375 | 2485 | 8.8 | 2581 | 9.1 | 2672 | 9.4 | 2759 | 9.7 | — | — |
| 2500 | 2555 | 9.0 | 2648 | 9.3 | 2738 | 9.7 | 2824 | 10.0 | — | — |

High Static 1335-2836 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

50GC**04 SINGLE PHASE — 3 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 |
| 900 | 1060 | 0.08 | 1325 | 0.16 | 1541 | 0.25 | 1718 | 0.35 | 1870 | 0.46 |
| 975 | 1103 | 0.09 | 1356 | 0.17 | 1572 | 0.27 | 1752 | 0.37 | 1906 | 0.48 |
| 1050 | 1149 | 0.11 | 1388 | 0.19 | 1602 | 0.29 | 1784 | 0.40 | 1941 | 0.51 |
| 1125 | 1198 | 0.12 | 1423 | 0.20 | 1632 | 0.30 | 1815 | 0.42 | 1973 | 0.53 |
| 1200 | 1249 | 0.14 | 1460 | 0.22 | 1663 | 0.32 | 1845 | 0.44 | 2005 | 0.56 |
| 1275 | 1302 | 0.15 | 1500 | 0.24 | 1694 | 0.34 | 1875 | 0.46 | 2036 | 0.59 |
| 1350 | 1356 | 0.17 | 1542 | 0.26 | 1728 | 0.36 | 1905 | 0.48 | 2066 | 0.61 |
| 1425 | 1412 | 0.20 | 1587 | 0.28 | 1764 | 0.38 | 1936 | 0.51 | 2096 | 0.64 |
| 1500 | 1469 | 0.22 | 1634 | 0.30 | 1803 | 0.41 | 1968 | 0.53 | 2126 | 0.67 |

| 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 |
| 900 | 2006 | 0.56 | 2130 | 0.67 | 2244 | 0.79 | 2352 | 0.91 | 2453 | 1.03 |
| 975 | 2044 | 0.59 | 2168 | 0.71 | 2283 | 0.83 | 2391 | 0.95 | — | — |
| 1050 | 2080 | 0.63 | 2206 | 0.75 | 2322 | 0.87 | 2430 | 1.00 | — | — |
| 1125 | 2115 | 0.66 | 2242 | 0.78 | 2359 | 0.91 | 2468 | 1.05 | — | — |
| 1200 | 2148 | 0.69 | 2277 | 0.82 | 2396 | 0.96 | — | — | — | — |
| 1275 | 2180 | 0.72 | 2311 | 0.86 | 2431 | 1.00 | — | — | — | — |
| 1350 | 2211 | 0.75 | 2343 | 0.90 | 2465 | 1.04 | — | — | — | — |
| 1425 | 2241 | 0.78 | 2375 | 0.93 | — | — | — | — | — | — |
| 1500 | 2271 | 0.82 | 2405 | 0.97 | — | — | — | — | — | — |

Standard Static 1060-1890 RPM, 0.44 Max BHP

Medium Static 1060-2190 RPM, 0.71 Max BHP

High Static 1060-2490 RPM, 1.07 Max BHP

50GC**04 SINGLE PHASE - STANDARD STATIC — 3 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 |
| 900 | 1060 | 5.6 | 1325 | 7.0 | 1541 | 8.2 | 1718 | 9.1 | — | — |
| 975 | 1103 | 5.8 | 1356 | 7.2 | 1572 | 8.3 | 1752 | 9.3 | — | — |
| 1050 | 1149 | 6.1 | 1388 | 7.3 | 1602 | 8.5 | 1784 | 9.4 | — | — |
| 1125 | 1198 | 6.3 | 1423 | 7.5 | 1632 | 8.6 | 1815 | 9.6 | — | — |
| 1200 | 1249 | 6.6 | 1460 | 7.7 | 1663 | 8.8 | 1845 | 9.8 | — | — |
| 1275 | 1302 | 6.9 | 1500 | 7.9 | 1694 | 9.0 | — | — | — | — |
| 1350 | 1356 | 7.2 | 1542 | 8.2 | 1728 | 9.1 | — | — | — | — |
| 1425 | 1412 | 7.5 | 1587 | 8.4 | 1764 | 9.3 | — | — | — | — |
| 1500 | 1469 | 7.8 | 1634 | 8.6 | 1803 | 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 |
| 900 | — | — | — | — | — | — | — | — | — | — |
| 975 | — | — | — | — | — | — | — | — | — | — |
| 1050 | — | — | — | — | — | — | — | — | — | — |
| 1125 | — | — | — | — | — | — | — | — | — | — |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1060-1890 RPM



50GC04 SINGLE PHASE - MEDIUM STATIC — 3 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 |
| 900 | 1060 | 4.8 | 1325 | 6.1 | 1541 | 7.0 | 1718 | 7.8 | 1870 | 8.5 |
| 975 | 1103 | 5.0 | 1356 | 6.2 | 1572 | 7.2 | 1752 | 8.0 | 1906 | 8.7 |
| 1050 | 1149 | 5.2 | 1388 | 6.3 | 1602 | 7.3 | 1784 | 8.1 | 1941 | 8.9 |
| 1125 | 1198 | 5.5 | 1423 | 6.5 | 1632 | 7.5 | 1815 | 8.3 | 1973 | 9.0 |
| 1200 | 1249 | 5.7 | 1460 | 6.7 | 1663 | 7.6 | 1845 | 8.4 | 2005 | 9.2 |
| 1275 | 1302 | 5.9 | 1500 | 6.8 | 1694 | 7.7 | 1875 | 8.6 | 2036 | 9.3 |
| 1350 | 1356 | 6.2 | 1542 | 7.0 | 1728 | 7.9 | 1905 | 8.7 | 2066 | 9.4 |
| 1425 | 1412 | 6.4 | 1587 | 7.2 | 1764 | 8.1 | 1936 | 8.8 | 2096 | 9.6 |
| 1500 | 1469 | 6.7 | 1634 | 7.5 | 1803 | 8.2 | 1968 | 9.0 | 2126 | 9.7 |

| 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 |
| 900 | 2006 | 9.2 | 2130 | 9.7 | — | — | — | — | — | — |
| 975 | 2044 | 9.3 | 2168 | 9.9 | — | — | — | — | — | — |
| 1050 | 2080 | 9.5 | — | — | — | — | — | — | — | — |
| 1125 | 2115 | 9.7 | — | — | — | — | — | — | — | — |
| 1200 | 2148 | 9.8 | — | — | — | — | — | — | — | — |
| 1275 | 2180 | 10.0 | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1060-2190 RPM

50GC04 SINGLE PHASE - HIGH STATIC — 3 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 |
| 900 | 1060 | 4.3 | 1325 | 5.3 | 1541 | 6.2 | 1718 | 6.9 | 1870 | 7.5 |
| 975 | 1103 | 4.4 | 1356 | 5.4 | 1572 | 6.3 | 1752 | 7.0 | 1906 | 7.7 |
| 1050 | 1149 | 4.6 | 1388 | 5.6 | 1602 | 6.4 | 1784 | 7.2 | 1941 | 7.8 |
| 1125 | 1198 | 4.8 | 1423 | 5.7 | 1632 | 6.6 | 1815 | 7.3 | 1973 | 7.9 |
| 1200 | 1249 | 5.0 | 1460 | 5.9 | 1663 | 6.7 | 1845 | 7.4 | 2005 | 8.1 |
| 1275 | 1302 | 5.2 | 1500 | 6.0 | 1694 | 6.8 | 1875 | 7.5 | 2036 | 8.2 |
| 1350 | 1356 | 5.4 | 1542 | 6.2 | 1728 | 6.9 | 1905 | 7.7 | 2066 | 8.3 |
| 1425 | 1412 | 5.7 | 1587 | 6.4 | 1764 | 7.1 | 1936 | 7.8 | 2096 | 8.4 |
| 1500 | 1469 | 5.9 | 1634 | 6.6 | 1803 | 7.2 | 1968 | 7.9 | 2126 | 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 |
| 900 | 2006 | 8.1 | 2130 | 8.6 | 2244 | 9.0 | 2352 | 9.4 | 2453 | 9.9 |
| 975 | 2044 | 8.2 | 2168 | 8.7 | 2283 | 9.2 | 2391 | 9.6 | — | — |
| 1050 | 2080 | 8.4 | 2206 | 8.9 | 2322 | 9.3 | 2430 | 9.8 | — | — |
| 1125 | 2115 | 8.5 | 2242 | 9.0 | 2359 | 9.5 | 2468 | 9.9 | — | — |
| 1200 | 2148 | 8.6 | 2277 | 9.1 | 2396 | 9.6 | — | — | — | — |
| 1275 | 2180 | 8.8 | 2311 | 9.3 | 2431 | 9.8 | — | — | — | — |
| 1350 | 2211 | 8.9 | 2343 | 9.4 | 2465 | 9.9 | — | — | — | — |
| 1425 | 2241 | 9.0 | 2375 | 9.5 | — | — | — | — | — | — |
| 1500 | 2271 | 9.1 | 2405 | 9.7 | — | — | — | — | — | — |

High Static 1060-2490 RPM

50GC**04 THREE PHASE — 3 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 |
| 900 | 1060 | 0.08 | 1325 | 0.16 | 1541 | 0.25 | 1718 | 0.35 | 1870 | 0.46 |
| 975 | 1103 | 0.09 | 1356 | 0.17 | 1572 | 0.27 | 1752 | 0.37 | 1906 | 0.48 |
| 1050 | 1149 | 0.11 | 1388 | 0.19 | 1602 | 0.29 | 1784 | 0.40 | 1941 | 0.51 |
| 1125 | 1198 | 0.12 | 1423 | 0.20 | 1632 | 0.30 | 1815 | 0.42 | 1973 | 0.53 |
| 1200 | 1249 | 0.14 | 1460 | 0.22 | 1663 | 0.32 | 1845 | 0.44 | 2005 | 0.56 |
| 1275 | 1302 | 0.15 | 1500 | 0.24 | 1694 | 0.34 | 1875 | 0.46 | 2036 | 0.59 |
| 1350 | 1356 | 0.17 | 1542 | 0.26 | 1728 | 0.36 | 1905 | 0.48 | 2066 | 0.61 |
| 1425 | 1412 | 0.20 | 1587 | 0.28 | 1764 | 0.38 | 1936 | 0.51 | 2096 | 0.64 |
| 1500 | 1469 | 0.22 | 1634 | 0.30 | 1803 | 0.41 | 1968 | 0.53 | 2126 | 0.67 |

| 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 |
| 900 | 2006 | 0.56 | 2130 | 0.67 | 2244 | 0.79 | 2352 | 0.91 | 2453 | 1.03 |
| 975 | 2044 | 0.59 | 2168 | 0.71 | 2283 | 0.83 | 2391 | 0.95 | — | — |
| 1050 | 2080 | 0.63 | 2206 | 0.75 | 2322 | 0.87 | 2430 | 1.00 | — | — |
| 1125 | 2115 | 0.66 | 2242 | 0.78 | 2359 | 0.91 | 2468 | 1.05 | — | — |
| 1200 | 2148 | 0.69 | 2277 | 0.82 | 2396 | 0.96 | — | — | — | — |
| 1275 | 2180 | 0.72 | 2311 | 0.86 | 2431 | 1.00 | — | — | — | — |
| 1350 | 2211 | 0.75 | 2343 | 0.90 | 2465 | 1.04 | — | — | — | — |
| 1425 | 2241 | 0.78 | 2375 | 0.93 | — | — | — | — | — | — |
| 1500 | 2271 | 0.82 | 2405 | 0.97 | — | — | — | — | — | — |

Standard Static 1060-1890 RPM, 0.44 Max BHP

Medium Static 1060-2190 RPM, 0.71 Max BHP

High Static 1060-2490 RPM, 1.07 Max BHP

50GC**04 THREE PHASE - STANDARD STATIC — 3 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 |
| 900 | 1060 | 5.6 | 1325 | 7.0 | 1541 | 8.2 | 1718 | 9.1 | — | — |
| 975 | 1103 | 5.8 | 1356 | 7.2 | 1572 | 8.3 | 1752 | 9.3 | — | — |
| 1050 | 1149 | 6.1 | 1388 | 7.3 | 1602 | 8.5 | 1784 | 9.4 | — | — |
| 1125 | 1198 | 6.3 | 1423 | 7.5 | 1632 | 8.6 | 1815 | 9.6 | — | — |
| 1200 | 1249 | 6.6 | 1460 | 7.7 | 1663 | 8.8 | 1845 | 9.8 | — | — |
| 1275 | 1302 | 6.9 | 1500 | 7.9 | 1694 | 9.0 | — | — | — | — |
| 1350 | 1356 | 7.2 | 1542 | 8.2 | 1728 | 9.1 | — | — | — | — |
| 1425 | 1412 | 7.5 | 1587 | 8.4 | 1764 | 9.3 | — | — | — | — |
| 1500 | 1469 | 7.8 | 1634 | 8.6 | 1803 | 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 |
| 900 | — | — | — | — | — | — | — | — | — | — |
| 975 | — | — | — | — | — | — | — | — | — | — |
| 1050 | — | — | — | — | — | — | — | — | — | — |
| 1125 | — | — | — | — | — | — | — | — | — | — |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1060-1890 RPM



50GC04 THREE PHASE - MEDIUM STATIC — 3 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 |
| 900 | 1060 | 4.8 | 1325 | 6.1 | 1541 | 7.0 | 1718 | 7.8 | 1870 | 8.5 |
| 975 | 1103 | 5.0 | 1356 | 6.2 | 1572 | 7.2 | 1752 | 8.0 | 1906 | 8.7 |
| 1050 | 1149 | 5.2 | 1388 | 6.3 | 1602 | 7.3 | 1784 | 8.1 | 1941 | 8.9 |
| 1125 | 1198 | 5.5 | 1423 | 6.5 | 1632 | 7.5 | 1815 | 8.3 | 1973 | 9.0 |
| 1200 | 1249 | 5.7 | 1460 | 6.7 | 1663 | 7.6 | 1845 | 8.4 | 2005 | 9.2 |
| 1275 | 1302 | 5.9 | 1500 | 6.8 | 1694 | 7.7 | 1875 | 8.6 | 2036 | 9.3 |
| 1350 | 1356 | 6.2 | 1542 | 7.0 | 1728 | 7.9 | 1905 | 8.7 | 2066 | 9.4 |
| 1425 | 1412 | 6.4 | 1587 | 7.2 | 1764 | 8.1 | 1936 | 8.8 | 2096 | 9.6 |
| 1500 | 1469 | 6.7 | 1634 | 7.5 | 1803 | 8.2 | 1968 | 9.0 | 2126 | 9.7 |

| 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 |
| 900 | 2006 | 9.2 | 2130 | 9.7 | — | — | — | — | — | — |
| 975 | 2044 | 9.3 | 2168 | 9.9 | — | — | — | — | — | — |
| 1050 | 2080 | 9.5 | — | — | — | — | — | — | — | — |
| 1125 | 2115 | 9.7 | — | — | — | — | — | — | — | — |
| 1200 | 2148 | 9.8 | — | — | — | — | — | — | — | — |
| 1275 | 2180 | 10.0 | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1060-2190 RPM

50GC04 THREE PHASE - HIGH STATIC — 3 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 |
| 900 | 1060 | 4.3 | 1325 | 5.3 | 1541 | 6.2 | 1718 | 6.9 | 1870 | 7.5 |
| 975 | 1103 | 4.4 | 1356 | 5.4 | 1572 | 6.3 | 1752 | 7.0 | 1906 | 7.7 |
| 1050 | 1149 | 4.6 | 1388 | 5.6 | 1602 | 6.4 | 1784 | 7.2 | 1941 | 7.8 |
| 1125 | 1198 | 4.8 | 1423 | 5.7 | 1632 | 6.6 | 1815 | 7.3 | 1973 | 7.9 |
| 1200 | 1249 | 5.0 | 1460 | 5.9 | 1663 | 6.7 | 1845 | 7.4 | 2005 | 8.1 |
| 1275 | 1302 | 5.2 | 1500 | 6.0 | 1694 | 6.8 | 1875 | 7.5 | 2036 | 8.2 |
| 1350 | 1356 | 5.4 | 1542 | 6.2 | 1728 | 6.9 | 1905 | 7.7 | 2066 | 8.3 |
| 1425 | 1412 | 5.7 | 1587 | 6.4 | 1764 | 7.1 | 1936 | 7.8 | 2096 | 8.4 |
| 1500 | 1469 | 5.9 | 1634 | 6.6 | 1803 | 7.2 | 1968 | 7.9 | 2126 | 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 |
| 900 | 2006 | 8.1 | 2130 | 8.6 | 2244 | 9.0 | 2352 | 9.4 | 2453 | 9.9 |
| 975 | 2044 | 8.2 | 2168 | 8.7 | 2283 | 9.2 | 2391 | 9.6 | — | — |
| 1050 | 2080 | 8.4 | 2206 | 8.9 | 2322 | 9.3 | 2430 | 9.8 | — | — |
| 1125 | 2115 | 8.5 | 2242 | 9.0 | 2359 | 9.5 | 2468 | 9.9 | — | — |
| 1200 | 2148 | 8.6 | 2277 | 9.1 | 2396 | 9.6 | — | — | — | — |
| 1275 | 2180 | 8.8 | 2311 | 9.3 | 2431 | 9.8 | — | — | — | — |
| 1350 | 2211 | 8.9 | 2343 | 9.4 | 2465 | 9.9 | — | — | — | — |
| 1425 | 2241 | 9.0 | 2375 | 9.5 | — | — | — | — | — | — |
| 1500 | 2271 | 9.1 | 2405 | 9.7 | — | — | — | — | — | — |

High Static 1060-2490 RPM

50GC**05 SINGLE PHASE — 4 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 |
| 1200 | 1121 | 0.15 | 1327 | 0.25 | 1507 | 0.37 | 1667 | 0.50 | 1814 | 0.65 |
| 1300 | 1179 | 0.18 | 1375 | 0.28 | 1549 | 0.40 | 1705 | 0.54 | 1849 | 0.69 |
| 1400 | 1239 | 0.21 | 1425 | 0.31 | 1593 | 0.44 | 1746 | 0.58 | 1886 | 0.73 |
| 1500 | 1301 | 0.24 | 1477 | 0.35 | 1639 | 0.47 | 1788 | 0.62 | 1925 | 0.77 |
| 1600 | 1365 | 0.27 | 1531 | 0.39 | 1688 | 0.52 | 1832 | 0.66 | 1966 | 0.82 |
| 1700 | 1430 | 0.31 | 1587 | 0.43 | 1738 | 0.56 | 1878 | 0.71 | 2009 | 0.87 |
| 1800 | 1496 | 0.36 | 1644 | 0.48 | 1789 | 0.61 | 1926 | 0.76 | 2053 | 0.93 |
| 1900 | 1565 | 0.41 | 1703 | 0.53 | 1842 | 0.67 | 1975 | 0.82 | 2099 | 0.99 |
| 2000 | 1633 | 0.46 | 1764 | 0.59 | 1897 | 0.73 | 2025 | 0.89 | 2147 | 1.06 |

| 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 |
| 1200 | 1950 | 0.81 | 2077 | 0.97 | 2195 | 1.15 | 2306 | 1.33 | 2411 | 1.52 |
| 1300 | 1983 | 0.85 | 2108 | 1.02 | 2226 | 1.20 | 2337 | 1.38 | — | — |
| 1400 | 2017 | 0.89 | 2140 | 1.06 | 2257 | 1.24 | 2367 | 1.43 | — | — |
| 1500 | 2053 | 0.93 | 2174 | 1.11 | 2289 | 1.29 | 2398 | 1.49 | — | — |
| 1600 | 2092 | 0.98 | 2210 | 1.16 | 2323 | 1.35 | — | — | — | — |
| 1700 | 2132 | 1.04 | 2248 | 1.22 | 2359 | 1.41 | — | — | — | — |
| 1800 | 2174 | 1.10 | 2288 | 1.28 | 2397 | 1.47 | — | — | — | — |
| 1900 | 2217 | 1.16 | 2329 | 1.35 | — | — | — | — | — | — |
| 2000 | 2262 | 1.23 | 2372 | 1.42 | — | — | — | — | — | — |

Standard Static 1121-1900 RPM, 0.72 Max BHP

Medium Static 1121-2170 RPM, 1.06 Max BHP

High Static 1121-2460 RPM, 1.53 Max BHP

50GC**05 SINGLE PHASE - STANDARD STATIC — 4 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 |
| 1200 | 1121 | 5.9 | 1327 | 7.0 | 1507 | 7.9 | 1667 | 8.8 | 1814 | 9.5 |
| 1300 | 1179 | 6.2 | 1375 | 7.2 | 1549 | 8.2 | 1705 | 9.0 | 1849 | 9.7 |
| 1400 | 1239 | 6.5 | 1425 | 7.5 | 1593 | 8.4 | 1746 | 9.2 | 1886 | 9.9 |
| 1500 | 1301 | 6.8 | 1477 | 7.8 | 1639 | 8.6 | 1788 | 9.4 | — | — |
| 1600 | 1365 | 7.2 | 1531 | 8.1 | 1688 | 8.9 | 1832 | 9.6 | — | — |
| 1700 | 1430 | 7.5 | 1587 | 8.4 | 1738 | 9.1 | 1878 | 9.9 | — | — |
| 1800 | 1496 | 7.9 | 1644 | 8.7 | 1789 | 9.4 | — | — | — | — |
| 1900 | 1565 | 8.2 | 1703 | 9.0 | 1842 | 9.7 | — | — | — | — |
| 2000 | 1633 | 8.6 | 1764 | 9.3 | 1897 | 10.0 | — | — | — | — |

| 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 |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1300 | — | — | — | — | — | — | — | — | — | — |
| 1400 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1121-1900 RPM



50GC05 SINGLE PHASE - MEDIUM STATIC — 4 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 |
| 1200 | 1121 | 5.2 | 1327 | 6.1 | 1507 | 6.9 | 1667 | 7.7 | 1814 | 8.4 |
| 1300 | 1179 | 5.4 | 1375 | 6.3 | 1549 | 7.1 | 1705 | 7.9 | 1849 | 8.5 |
| 1400 | 1239 | 5.7 | 1425 | 6.6 | 1593 | 7.3 | 1746 | 8.0 | 1886 | 8.7 |
| 1500 | 1301 | 6.0 | 1477 | 6.8 | 1639 | 7.6 | 1788 | 8.2 | 1925 | 8.9 |
| 1600 | 1365 | 6.3 | 1531 | 7.1 | 1688 | 7.8 | 1832 | 8.4 | 1966 | 9.1 |
| 1700 | 1430 | 6.6 | 1587 | 7.3 | 1738 | 8.0 | 1878 | 8.7 | 2009 | 9.3 |
| 1800 | 1496 | 6.9 | 1644 | 7.6 | 1789 | 8.2 | 1926 | 8.9 | 2053 | 9.5 |
| 1900 | 1565 | 7.2 | 1703 | 7.8 | 1842 | 8.5 | 1975 | 9.1 | 2099 | 9.7 |
| 2000 | 1633 | 7.5 | 1764 | 8.1 | 1897 | 8.7 | 2025 | 9.3 | 2147 | 9.9 |

| 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 |
| 1200 | 1950 | 9.0 | 2077 | 9.6 | — | — | — | — | — | — |
| 1300 | 1983 | 9.1 | 2108 | 9.7 | — | — | — | — | — | — |
| 1400 | 2017 | 9.3 | 2140 | 9.9 | — | — | — | — | — | — |
| 1500 | 2053 | 9.5 | — | — | — | — | — | — | — | — |
| 1600 | 2092 | 9.6 | — | — | — | — | — | — | — | — |
| 1700 | 2132 | 9.8 | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1121-2170 RPM

50GC05 SINGLE PHASE - HIGH STATIC — 4 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 |
| 1200 | 1121 | 4.6 | 1327 | 5.4 | 1507 | 6.1 | 1667 | 6.8 | 1814 | 7.4 |
| 1300 | 1179 | 4.8 | 1375 | 5.6 | 1549 | 6.3 | 1705 | 6.9 | 1849 | 7.5 |
| 1400 | 1239 | 5.0 | 1425 | 5.8 | 1593 | 6.5 | 1746 | 7.1 | 1886 | 7.7 |
| 1500 | 1301 | 5.3 | 1477 | 6.0 | 1639 | 6.7 | 1788 | 7.3 | 1925 | 7.8 |
| 1600 | 1365 | 5.5 | 1531 | 6.2 | 1688 | 6.9 | 1832 | 7.4 | 1966 | 8.0 |
| 1700 | 1430 | 5.8 | 1587 | 6.5 | 1738 | 7.1 | 1878 | 7.6 | 2009 | 8.2 |
| 1800 | 1496 | 6.1 | 1644 | 6.7 | 1789 | 7.3 | 1926 | 7.8 | 2053 | 8.3 |
| 1900 | 1565 | 6.4 | 1703 | 6.9 | 1842 | 7.5 | 1975 | 8.0 | 2099 | 8.5 |
| 2000 | 1633 | 6.6 | 1764 | 7.2 | 1897 | 7.7 | 2025 | 8.2 | 2147 | 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 |
| 1200 | 1950 | 7.9 | 2077 | 8.4 | 2195 | 8.9 | 2306 | 9.4 | 2411 | 9.8 |
| 1300 | 1983 | 8.1 | 2108 | 8.6 | 2226 | 9.0 | 2337 | 9.5 | — | — |
| 1400 | 2017 | 8.2 | 2140 | 8.7 | 2257 | 9.2 | 2367 | 9.6 | — | — |
| 1500 | 2053 | 8.3 | 2174 | 8.8 | 2289 | 9.3 | 2398 | 9.7 | — | — |
| 1600 | 2092 | 8.5 | 2210 | 9.0 | 2323 | 9.4 | — | — | — | — |
| 1700 | 2132 | 8.7 | 2248 | 9.1 | 2359 | 9.6 | — | — | — | — |
| 1800 | 2174 | 8.8 | 2288 | 9.3 | 2397 | 9.7 | — | — | — | — |
| 1900 | 2217 | 9.0 | 2329 | 9.5 | — | — | — | — | — | — |
| 2000 | 2262 | 9.2 | 2372 | 9.6 | — | — | — | — | — | — |

High Static 1121-2460 RPM

50GC**05 THREE PHASE — 4 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 |
| 1200 | 1120 | 0.15 | 1327 | 0.25 | 1506 | 0.37 | 1667 | 0.50 | 1814 | 0.65 |
| 1300 | 1178 | 0.18 | 1375 | 0.28 | 1549 | 0.40 | 1705 | 0.54 | 1849 | 0.69 |
| 1400 | 1238 | 0.21 | 1424 | 0.31 | 1593 | 0.44 | 1745 | 0.57 | 1886 | 0.73 |
| 1500 | 1300 | 0.24 | 1476 | 0.35 | 1639 | 0.47 | 1788 | 0.62 | 1925 | 0.77 |
| 1600 | 1365 | 0.27 | 1530 | 0.39 | 1687 | 0.52 | 1832 | 0.66 | 1966 | 0.82 |
| 1700 | 1430 | 0.31 | 1586 | 0.43 | 1737 | 0.56 | 1878 | 0.71 | 2009 | 0.87 |
| 1800 | 1497 | 0.36 | 1644 | 0.48 | 1789 | 0.61 | 1925 | 0.76 | 2053 | 0.93 |
| 1900 | 1565 | 0.41 | 1703 | 0.53 | 1842 | 0.67 | 1974 | 0.82 | 2099 | 0.99 |
| 2000 | 1633 | 0.46 | 1764 | 0.59 | 1897 | 0.73 | 2025 | 0.89 | 2146 | 1.05 |

| 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 |
| 1200 | 1950 | 0.81 | 2077 | 0.97 | 2195 | 1.15 | 2306 | 1.33 | 2411 | 1.52 |
| 1300 | 1983 | 0.85 | 2108 | 1.02 | 2225 | 1.19 | 2336 | 1.38 | 2442 | 1.58 |
| 1400 | 2017 | 0.89 | 2140 | 1.06 | 2257 | 1.24 | 2367 | 1.43 | 2472 | 1.63 |
| 1500 | 2053 | 0.93 | 2174 | 1.11 | 2289 | 1.29 | 2398 | 1.49 | 2502 | 1.69 |
| 1600 | 2091 | 0.98 | 2210 | 1.16 | 2323 | 1.35 | 2431 | 1.55 | 2534 | 1.75 |
| 1700 | 2132 | 1.04 | 2248 | 1.22 | 2359 | 1.41 | 2465 | 1.61 | 2567 | 1.82 |
| 1800 | 2174 | 1.10 | 2288 | 1.28 | 2397 | 1.47 | 2501 | 1.67 | 2601 | 1.88 |
| 1900 | 2217 | 1.16 | 2329 | 1.35 | 2436 | 1.54 | 2539 | 1.75 | 2637 | 1.96 |
| 2000 | 2262 | 1.23 | 2372 | 1.42 | 2477 | 1.62 | 2578 | 1.83 | — | — |

Standard Static 1120-1900 RPM, 0.72 Max BHP

Medium Static 1120-2170 RPM, 1.06 Max BHP

High Static 1120-2660 RPM, 1.96 Max BHP

50GC**05 THREE PHASE - STANDARD STATIC — 4 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 |
| 1200 | 1120 | 5.9 | 1327 | 7.0 | 1506 | 7.9 | 1667 | 8.8 | 1814 | 9.5 |
| 1300 | 1178 | 6.2 | 1375 | 7.2 | 1549 | 8.2 | 1705 | 9.0 | 1849 | 9.7 |
| 1400 | 1238 | 6.5 | 1424 | 7.5 | 1593 | 8.4 | 1745 | 9.2 | 1886 | 9.9 |
| 1500 | 1300 | 6.8 | 1476 | 7.8 | 1639 | 8.6 | 1788 | 9.4 | — | — |
| 1600 | 1365 | 7.2 | 1530 | 8.1 | 1687 | 8.9 | 1832 | 9.6 | — | — |
| 1700 | 1430 | 7.5 | 1586 | 8.3 | 1737 | 9.1 | 1878 | 9.9 | — | — |
| 1800 | 1497 | 7.9 | 1644 | 8.7 | 1789 | 9.4 | — | — | — | — |
| 1900 | 1565 | 8.2 | 1703 | 9.0 | 1842 | 9.7 | — | — | — | — |
| 2000 | 1633 | 8.6 | 1764 | 9.3 | 1897 | 10.0 | — | — | — | — |

| 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 |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1300 | — | — | — | — | — | — | — | — | — | — |
| 1400 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1120-1900 RPM



50GC05 THREE PHASE - MEDIUM STATIC — 4 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 |
| 1200 | 1120 | 5.2 | 1327 | 6.1 | 1506 | 6.9 | 1667 | 7.7 | 1814 | 8.4 |
| 1300 | 1178 | 5.4 | 1375 | 6.3 | 1549 | 7.1 | 1705 | 7.9 | 1849 | 8.5 |
| 1400 | 1238 | 5.7 | 1424 | 6.6 | 1593 | 7.3 | 1745 | 8.0 | 1886 | 8.7 |
| 1500 | 1300 | 6.0 | 1476 | 6.8 | 1639 | 7.6 | 1788 | 8.2 | 1925 | 8.9 |
| 1600 | 1365 | 6.3 | 1530 | 7.1 | 1687 | 7.8 | 1832 | 8.4 | 1966 | 9.1 |
| 1700 | 1430 | 6.6 | 1586 | 7.3 | 1737 | 8.0 | 1878 | 8.7 | 2009 | 9.3 |
| 1800 | 1497 | 6.9 | 1644 | 7.6 | 1789 | 8.2 | 1925 | 8.9 | 2053 | 9.5 |
| 1900 | 1565 | 7.2 | 1703 | 7.8 | 1842 | 8.5 | 1974 | 9.1 | 2099 | 9.7 |
| 2000 | 1633 | 7.5 | 1764 | 8.1 | 1897 | 8.7 | 2025 | 9.3 | 2146 | 9.9 |

| 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 |
| 1200 | 1950 | 9.0 | 2077 | 9.6 | — | — | — | — | — | — |
| 1300 | 1983 | 9.1 | 2108 | 9.7 | — | — | — | — | — | — |
| 1400 | 2017 | 9.3 | 2140 | 9.9 | — | — | — | — | — | — |
| 1500 | 2053 | 9.5 | — | — | — | — | — | — | — | — |
| 1600 | 2091 | 9.6 | — | — | — | — | — | — | — | — |
| 1700 | 2132 | 9.8 | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1120-2170 RPM

50GC05 THREE PHASE - HIGH STATIC — 4 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 |
| 1200 | 1120 | 4.2 | 1327 | 5.0 | 1506 | 5.7 | 1667 | 6.3 | 1814 | 6.8 |
| 1300 | 1178 | 4.4 | 1375 | 5.2 | 1549 | 5.8 | 1705 | 6.4 | 1849 | 7.0 |
| 1400 | 1238 | 4.7 | 1424 | 5.4 | 1593 | 6.0 | 1745 | 6.6 | 1886 | 7.1 |
| 1500 | 1300 | 4.9 | 1476 | 5.5 | 1639 | 6.2 | 1788 | 6.7 | 1925 | 7.2 |
| 1600 | 1365 | 5.1 | 1530 | 5.8 | 1687 | 6.3 | 1832 | 6.9 | 1966 | 7.4 |
| 1700 | 1430 | 5.4 | 1586 | 6.0 | 1737 | 6.5 | 1878 | 7.1 | 2009 | 7.6 |
| 1800 | 1497 | 5.6 | 1644 | 6.2 | 1789 | 6.7 | 1925 | 7.2 | 2053 | 7.7 |
| 1900 | 1565 | 5.9 | 1703 | 6.4 | 1842 | 6.9 | 1974 | 7.4 | 2099 | 7.9 |
| 2000 | 1633 | 6.1 | 1764 | 6.6 | 1897 | 7.1 | 2025 | 7.6 | 2146 | 8.1 |

| 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 |
| 1200 | 1950 | 7.3 | 2077 | 7.8 | 2195 | 8.3 | 2306 | 8.7 | 2411 | 9.1 |
| 1300 | 1983 | 7.5 | 2108 | 7.9 | 2225 | 8.4 | 2336 | 8.8 | 2442 | 9.2 |
| 1400 | 2017 | 7.6 | 2140 | 8.0 | 2257 | 8.5 | 2367 | 8.9 | 2472 | 9.3 |
| 1500 | 2053 | 7.7 | 2174 | 8.2 | 2289 | 8.6 | 2398 | 9.0 | 2502 | 9.4 |
| 1600 | 2091 | 7.9 | 2210 | 8.3 | 2323 | 8.7 | 2431 | 9.1 | 2534 | 9.5 |
| 1700 | 2132 | 8.0 | 2248 | 8.5 | 2359 | 8.9 | 2465 | 9.3 | 2567 | 9.7 |
| 1800 | 2174 | 8.2 | 2288 | 8.6 | 2397 | 9.0 | 2501 | 9.4 | 2601 | 9.8 |
| 1900 | 2217 | 8.3 | 2329 | 8.8 | 2436 | 9.2 | 2539 | 9.5 | 2637 | 9.9 |
| 2000 | 2262 | 8.5 | 2372 | 8.9 | 2477 | 9.3 | 2578 | 9.7 | — | — |

High Static 1120-2660 RPM

50GC**06 SINGLE PHASE — 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 |
| 1500 | 1228 | 0.20 | 1394 | 0.29 | 1555 | 0.40 | 1701 | 0.53 | 1836 | 0.66 |
| 1625 | 1305 | 0.24 | 1457 | 0.33 | 1609 | 0.44 | 1751 | 0.57 | 1882 | 0.71 |
| 1750 | 1384 | 0.28 | 1523 | 0.37 | 1666 | 0.49 | 1803 | 0.62 | 1930 | 0.76 |
| 1875 | 1466 | 0.33 | 1592 | 0.43 | 1726 | 0.54 | 1857 | 0.67 | 1981 | 0.82 |
| 2000 | 1549 | 0.39 | 1664 | 0.48 | 1789 | 0.60 | 1914 | 0.74 | 2034 | 0.88 |
| 2125 | 1633 | 0.46 | 1738 | 0.55 | 1855 | 0.67 | 1974 | 0.81 | 2089 | 0.95 |
| 2250 | 1718 | 0.53 | 1815 | 0.62 | 1924 | 0.74 | 2036 | 0.88 | 2147 | 1.03 |
| 2375 | 1803 | 0.61 | 1894 | 0.71 | 1995 | 0.83 | 2100 | 0.97 | 2206 | 1.12 |
| 2500 | 1890 | 0.70 | 1974 | 0.80 | 2068 | 0.92 | 2167 | 1.06 | 2268 | 1.21 |

| 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 |
| 1500 | 1961 | 0.80 | 2079 | 0.96 | 2191 | 1.12 | 2297 | 1.29 | — | — |
| 1625 | 2004 | 0.85 | 2120 | 1.01 | 2230 | 1.18 | 2334 | 1.35 | — | — |
| 1750 | 2050 | 0.91 | 2163 | 1.07 | 2270 | 1.24 | 2373 | 1.41 | — | — |
| 1875 | 2098 | 0.97 | 2208 | 1.13 | 2314 | 1.31 | — | — | — | — |
| 2000 | 2148 | 1.04 | 2256 | 1.21 | 2359 | 1.38 | — | — | — | — |
| 2125 | 2200 | 1.11 | 2306 | 1.28 | — | — | — | — | — | — |
| 2250 | 2254 | 1.20 | 2357 | 1.37 | — | — | — | — | — | — |
| 2375 | 2310 | 1.28 | — | — | — | — | — | — | — | — |
| 2500 | 2368 | 1.38 | — | — | — | — | — | — | — | — |

Standard Static 1228-2150 RPM, 1.06 Max BHP

Medium Static 1228-2390 RPM, 1.44 Max BHP

50GC**06 SINGLE PHASE - STANDARD STATIC — 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 |
| 1500 | 1228 | 5.7 | 1394 | 6.5 | 1555 | 7.2 | 1701 | 7.9 | 1836 | 8.5 |
| 1625 | 1305 | 6.1 | 1457 | 6.8 | 1609 | 7.5 | 1751 | 8.1 | 1882 | 8.8 |
| 1750 | 1384 | 6.4 | 1523 | 7.1 | 1666 | 7.7 | 1803 | 8.4 | 1930 | 9.0 |
| 1875 | 1466 | 6.8 | 1592 | 7.4 | 1726 | 8.0 | 1857 | 8.6 | 1981 | 9.2 |
| 2000 | 1549 | 7.2 | 1664 | 7.7 | 1789 | 8.3 | 1914 | 8.9 | 2034 | 9.5 |
| 2125 | 1633 | 7.6 | 1738 | 8.1 | 1855 | 8.6 | 1974 | 9.2 | 2089 | 9.7 |
| 2250 | 1718 | 8.0 | 1815 | 8.4 | 1924 | 8.9 | 2036 | 9.5 | 2147 | 10.0 |
| 2375 | 1803 | 8.4 | 1894 | 8.8 | 1995 | 9.3 | 2100 | 9.8 | — | — |
| 2500 | 1890 | 8.8 | 1974 | 9.2 | 2068 | 9.6 | — | — | — | — |

| 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 |
| 1500 | 1961 | 9.1 | 2079 | 9.7 | — | — | — | — | — | — |
| 1625 | 2004 | 9.3 | 2120 | 9.9 | — | — | — | — | — | — |
| 1750 | 2050 | 9.5 | — | — | — | — | — | — | — | — |
| 1875 | 2098 | 9.8 | — | — | — | — | — | — | — | — |
| 2000 | 2148 | 10.0 | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1228-2150 RPM



50GC06 SINGLE PHASE - MEDIUM STATIC — 3 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 |
| 1500 | 1228 | 5.1 | 1394 | 5.8 | 1555 | 6.5 | 1701 | 7.1 | 1836 | 7.7 |
| 1625 | 1305 | 5.5 | 1457 | 6.1 | 1609 | 6.7 | 1751 | 7.3 | 1882 | 7.9 |
| 1750 | 1384 | 5.8 | 1523 | 6.4 | 1666 | 7.0 | 1803 | 7.5 | 1930 | 8.1 |
| 1875 | 1466 | 6.1 | 1592 | 6.7 | 1726 | 7.2 | 1857 | 7.8 | 1981 | 8.3 |
| 2000 | 1549 | 6.5 | 1664 | 7.0 | 1789 | 7.5 | 1914 | 8.0 | 2034 | 8.5 |
| 2125 | 1633 | 6.8 | 1738 | 7.3 | 1855 | 7.8 | 1974 | 8.3 | 2089 | 8.7 |
| 2250 | 1718 | 7.2 | 1815 | 7.6 | 1924 | 8.1 | 2036 | 8.5 | 2147 | 9.0 |
| 2375 | 1803 | 7.5 | 1894 | 7.9 | 1995 | 8.3 | 2100 | 8.8 | 2206 | 9.2 |
| 2500 | 1890 | 7.9 | 1974 | 8.3 | 2068 | 8.7 | 2167 | 9.1 | 2268 | 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 |
| 1500 | 1961 | 8.2 | 2079 | 8.7 | 2191 | 9.2 | 2297 | 9.6 | — | — |
| 1625 | 2004 | 8.4 | 2120 | 8.9 | 2230 | 9.3 | 2334 | 9.8 | — | — |
| 1750 | 2050 | 8.6 | 2163 | 9.1 | 2270 | 9.5 | 2373 | 9.9 | — | — |
| 1875 | 2098 | 8.8 | 2208 | 9.2 | 2314 | 9.7 | — | — | — | — |
| 2000 | 2148 | 9.0 | 2256 | 9.4 | 2359 | 9.9 | — | — | — | — |
| 2125 | 2200 | 9.2 | 2306 | 9.6 | — | — | — | — | — | — |
| 2250 | 2254 | 9.4 | 2357 | 9.9 | — | — | — | — | — | — |
| 2375 | 2310 | 9.7 | — | — | — | — | — | — | — | — |
| 2500 | 2368 | 9.9 | — | — | — | — | — | — | — | — |

Medium Static 1228-2390 RPM

50GC**06 THREE PHASE — 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 |
| 1500 | 1228 | 0.20 | 1394 | 0.29 | 1555 | 0.40 | 1701 | 0.53 | 1836 | 0.66 |
| 1625 | 1305 | 0.24 | 1457 | 0.33 | 1609 | 0.44 | 1751 | 0.57 | 1882 | 0.71 |
| 1750 | 1384 | 0.28 | 1523 | 0.37 | 1666 | 0.49 | 1803 | 0.62 | 1930 | 0.76 |
| 1875 | 1466 | 0.33 | 1592 | 0.43 | 1726 | 0.54 | 1857 | 0.67 | 1981 | 0.82 |
| 2000 | 1549 | 0.39 | 1664 | 0.48 | 1789 | 0.60 | 1914 | 0.74 | 2034 | 0.88 |
| 2125 | 1633 | 0.46 | 1738 | 0.55 | 1855 | 0.67 | 1974 | 0.81 | 2089 | 0.95 |
| 2250 | 1718 | 0.53 | 1815 | 0.62 | 1924 | 0.74 | 2036 | 0.88 | 2147 | 1.03 |
| 2375 | 1803 | 0.61 | 1894 | 0.71 | 1995 | 0.83 | 2100 | 0.97 | 2206 | 1.12 |
| 2500 | 1890 | 0.70 | 1974 | 0.80 | 2068 | 0.92 | 2167 | 1.06 | 2268 | 1.21 |

| 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 |
| 1500 | 1961 | 0.80 | 2079 | 0.96 | 2191 | 1.12 | 2297 | 1.29 | 2399 | 1.47 |
| 1625 | 2004 | 0.85 | 2120 | 1.01 | 2230 | 1.18 | 2334 | 1.35 | 2434 | 1.53 |
| 1750 | 2050 | 0.91 | 2163 | 1.07 | 2270 | 1.24 | 2373 | 1.41 | 2472 | 1.60 |
| 1875 | 2098 | 0.97 | 2208 | 1.13 | 2314 | 1.31 | 2415 | 1.48 | 2511 | 1.67 |
| 2000 | 2148 | 1.04 | 2256 | 1.21 | 2359 | 1.38 | 2458 | 1.56 | 2553 | 1.75 |
| 2125 | 2200 | 1.11 | 2306 | 1.28 | 2407 | 1.46 | 2504 | 1.64 | 2597 | 1.83 |
| 2250 | 2254 | 1.20 | 2357 | 1.37 | 2456 | 1.55 | 2551 | 1.73 | 2643 | 1.93 |
| 2375 | 2310 | 1.28 | 2411 | 1.46 | 2507 | 1.64 | 2601 | 1.83 | 2691 | 2.03 |
| 2500 | 2368 | 1.38 | 2465 | 1.56 | 2560 | 1.75 | 2651 | 1.94 | 2740 | 2.14 |

Standard Static 1228-2150 RPM, 1.06 Max BHP

Medium Static 1228-2390 RPM, 1.44 Max BHP

High Static 1228-2836 RPM, 2.43 Max BHP

50GC**06 THREE PHASE - STANDARD STATIC — 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 |
| 1500 | 1228 | 5.7 | 1394 | 6.5 | 1555 | 7.2 | 1701 | 7.9 | 1836 | 8.5 |
| 1625 | 1305 | 6.1 | 1457 | 6.8 | 1609 | 7.5 | 1751 | 8.1 | 1882 | 8.8 |
| 1750 | 1384 | 6.4 | 1523 | 7.1 | 1666 | 7.7 | 1803 | 8.4 | 1930 | 9.0 |
| 1875 | 1466 | 6.8 | 1592 | 7.4 | 1726 | 8.0 | 1857 | 8.6 | 1981 | 9.2 |
| 2000 | 1549 | 7.2 | 1664 | 7.7 | 1789 | 8.3 | 1914 | 8.9 | 2034 | 9.5 |
| 2125 | 1633 | 7.6 | 1738 | 8.1 | 1855 | 8.6 | 1974 | 9.2 | 2089 | 9.7 |
| 2250 | 1718 | 8.0 | 1815 | 8.4 | 1924 | 8.9 | 2036 | 9.5 | 2147 | 10.0 |
| 2375 | 1803 | 8.4 | 1894 | 8.8 | 1995 | 9.3 | 2100 | 9.8 | — | — |
| 2500 | 1890 | 8.8 | 1974 | 9.2 | 2068 | 9.6 | — | — | — | — |

| 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 |
| 1500 | 1961 | 9.1 | 2079 | 9.7 | — | — | — | — | — | — |
| 1625 | 2004 | 9.3 | 2120 | 9.9 | — | — | — | — | — | — |
| 1750 | 2050 | 9.5 | — | — | — | — | — | — | — | — |
| 1875 | 2098 | 9.8 | — | — | — | — | — | — | — | — |
| 2000 | 2148 | 10.0 | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1228-2150 RPM

50GC06 THREE PHASE - MEDIUM STATIC — 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 |
| 1500 | 1228 | 5.1 | 1394 | 5.8 | 1555 | 6.5 | 1701 | 7.1 | 1836 | 7.7 |
| 1625 | 1305 | 5.5 | 1457 | 6.1 | 1609 | 6.7 | 1751 | 7.3 | 1882 | 7.9 |
| 1750 | 1384 | 5.8 | 1523 | 6.4 | 1666 | 7.0 | 1803 | 7.5 | 1930 | 8.1 |
| 1875 | 1466 | 6.1 | 1592 | 6.7 | 1726 | 7.2 | 1857 | 7.8 | 1981 | 8.3 |
| 2000 | 1549 | 6.5 | 1664 | 7.0 | 1789 | 7.5 | 1914 | 8.0 | 2034 | 8.5 |
| 2125 | 1633 | 6.8 | 1738 | 7.3 | 1855 | 7.8 | 1974 | 8.3 | 2089 | 8.7 |
| 2250 | 1718 | 7.2 | 1815 | 7.6 | 1924 | 8.1 | 2036 | 8.5 | 2147 | 9.0 |
| 2375 | 1803 | 7.5 | 1894 | 7.9 | 1995 | 8.3 | 2100 | 8.8 | 2206 | 9.2 |
| 2500 | 1890 | 7.9 | 1974 | 8.3 | 2068 | 8.7 | 2167 | 9.1 | 2268 | 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 |
| 1500 | 1961 | 8.2 | 2079 | 8.7 | 2191 | 9.2 | 2297 | 9.6 | — | — |
| 1625 | 2004 | 8.4 | 2120 | 8.9 | 2230 | 9.3 | 2334 | 9.8 | — | — |
| 1750 | 2050 | 8.6 | 2163 | 9.1 | 2270 | 9.5 | 2373 | 9.9 | — | — |
| 1875 | 2098 | 8.8 | 2208 | 9.2 | 2314 | 9.7 | — | — | — | — |
| 2000 | 2148 | 9.0 | 2256 | 9.4 | 2359 | 9.9 | — | — | — | — |
| 2125 | 2200 | 9.2 | 2306 | 9.6 | — | — | — | — | — | — |
| 2250 | 2254 | 9.4 | 2357 | 9.9 | — | — | — | — | — | — |
| 2375 | 2310 | 9.7 | — | — | — | — | — | — | — | — |
| 2500 | 2368 | 9.9 | — | — | — | — | — | — | — | — |

Medium Static 1228-2390 RPM

50GC06 THREE PHASE - HIGH STATIC — 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 |
| 1500 | 1228 | 4.3 | 1394 | 4.9 | 1555 | 5.5 | 1701 | 6.0 | 1836 | 6.5 |
| 1625 | 1305 | 4.6 | 1457 | 5.1 | 1609 | 5.7 | 1751 | 6.2 | 1882 | 6.6 |
| 1750 | 1384 | 4.9 | 1523 | 5.4 | 1666 | 5.9 | 1803 | 6.4 | 1930 | 6.8 |
| 1875 | 1466 | 5.2 | 1592 | 5.6 | 1726 | 6.1 | 1857 | 6.5 | 1981 | 7.0 |
| 2000 | 1549 | 5.5 | 1664 | 5.9 | 1789 | 6.3 | 1914 | 6.7 | 2034 | 7.2 |
| 2125 | 1633 | 5.8 | 1738 | 6.1 | 1855 | 6.5 | 1974 | 7.0 | 2089 | 7.4 |
| 2250 | 1718 | 6.1 | 1815 | 6.4 | 1924 | 6.8 | 2036 | 7.2 | 2147 | 7.6 |
| 2375 | 1803 | 6.4 | 1894 | 6.7 | 1995 | 7.0 | 2100 | 7.4 | 2206 | 7.8 |
| 2500 | 1890 | 6.7 | 1974 | 7.0 | 2068 | 7.3 | 2167 | 7.6 | 2268 | 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 |
| 1500 | 1961 | 6.9 | 2079 | 7.3 | 2191 | 7.7 | 2297 | 8.1 | 2399 | 8.5 |
| 1625 | 2004 | 7.1 | 2120 | 7.5 | 2230 | 7.9 | 2334 | 8.2 | 2434 | 8.6 |
| 1750 | 2050 | 7.2 | 2163 | 7.6 | 2270 | 8.0 | 2373 | 8.4 | 2472 | 8.7 |
| 1875 | 2098 | 7.4 | 2208 | 7.8 | 2314 | 8.2 | 2415 | 8.5 | 2511 | 8.9 |
| 2000 | 2148 | 7.6 | 2256 | 8.0 | 2359 | 8.3 | 2458 | 8.7 | 2553 | 9.0 |
| 2125 | 2200 | 7.8 | 2306 | 8.1 | 2407 | 8.5 | 2504 | 8.8 | 2597 | 9.2 |
| 2250 | 2254 | 7.9 | 2357 | 8.3 | 2456 | 8.7 | 2551 | 9.0 | 2643 | 9.3 |
| 2375 | 2310 | 8.1 | 2411 | 8.5 | 2507 | 8.8 | 2601 | 9.2 | 2691 | 9.5 |
| 2500 | 2368 | 8.3 | 2465 | 8.7 | 2560 | 9.0 | 2651 | 9.3 | 2740 | 9.7 |

High Static 1228-2836 RPM

50GC**04 SINGLE PHASE — 3 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 |
| 900 | 1037 | 0.08 | 1301 | 0.15 | 1517 | 0.24 | 1697 | 0.34 | 1855 | 0.44 |
| 975 | 1076 | 0.09 | 1331 | 0.16 | 1545 | 0.26 | 1727 | 0.36 | 1885 | 0.47 |
| 1050 | 1119 | 0.10 | 1362 | 0.18 | 1573 | 0.27 | 1755 | 0.38 | 1915 | 0.49 |
| 1125 | 1164 | 0.11 | 1395 | 0.19 | 1602 | 0.29 | 1783 | 0.39 | 1944 | 0.51 |
| 1200 | 1211 | 0.12 | 1429 | 0.20 | 1632 | 0.30 | 1812 | 0.41 | 1972 | 0.53 |
| 1275 | 1261 | 0.14 | 1466 | 0.22 | 1663 | 0.32 | 1841 | 0.43 | 2000 | 0.56 |
| 1350 | 1313 | 0.16 | 1506 | 0.24 | 1695 | 0.34 | 1870 | 0.46 | 2029 | 0.58 |
| 1425 | 1366 | 0.18 | 1548 | 0.26 | 1729 | 0.36 | 1900 | 0.48 | 2058 | 0.61 |
| 1500 | 1420 | 0.20 | 1591 | 0.28 | 1765 | 0.38 | 1932 | 0.50 | 2087 | 0.63 |

| 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 |
| 900 | 1995 | 0.55 | 2123 | 0.67 | 2241 | 0.78 | 2352 | 0.91 | 2455 | 1.03 |
| 975 | 2027 | 0.58 | 2157 | 0.70 | 2276 | 0.82 | 2387 | 0.95 | — | — |
| 1050 | 2058 | 0.61 | 2189 | 0.73 | 2309 | 0.86 | 2421 | 0.99 | — | — |
| 1125 | 2088 | 0.63 | 2219 | 0.76 | 2341 | 0.89 | 2454 | 1.03 | — | — |
| 1200 | 2117 | 0.66 | 2249 | 0.79 | 2371 | 0.93 | 2485 | 1.07 | — | — |
| 1275 | 2146 | 0.69 | 2278 | 0.82 | 2401 | 0.96 | — | — | — | — |
| 1350 | 2174 | 0.72 | 2307 | 0.86 | 2431 | 1.00 | — | — | — | — |
| 1425 | 2202 | 0.74 | 2335 | 0.89 | 2459 | 1.04 | — | — | — | — |
| 1500 | 2231 | 0.77 | 2364 | 0.92 | 2488 | 1.07 | — | — | — | — |

Standard Static 1037-1890 RPM, 0.44 Max BHP

Medium Static 1037-2190 RPM, 0.71 Max BHP

High Static 1037-2490 RPM, 1.07 Max BHP

50GC**04 SINGLE PHASE - STANDARD STATIC — 3 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 |
| 900 | 1037 | 5.5 | 1301 | 6.9 | 1517 | 8.0 | 1697 | 9.0 | 1855 | 9.8 |
| 975 | 1076 | 5.7 | 1331 | 7.0 | 1545 | 8.2 | 1727 | 9.1 | — | — |
| 1050 | 1119 | 5.9 | 1362 | 7.2 | 1573 | 8.3 | 1755 | 9.3 | — | — |
| 1125 | 1164 | 6.2 | 1395 | 7.4 | 1602 | 8.5 | 1783 | 9.4 | — | — |
| 1200 | 1211 | 6.4 | 1429 | 7.6 | 1632 | 8.6 | 1812 | 9.6 | — | — |
| 1275 | 1261 | 6.7 | 1466 | 7.8 | 1663 | 8.8 | 1841 | 9.7 | — | — |
| 1350 | 1313 | 6.9 | 1506 | 8.0 | 1695 | 9.0 | — | — | — | — |
| 1425 | 1366 | 7.2 | 1548 | 8.2 | 1729 | 9.1 | — | — | — | — |
| 1500 | 1420 | 7.5 | 1591 | 8.4 | 1765 | 9.3 | — | — | — | — |

| 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 |
| 900 | — | — | — | — | — | — | — | — | — | — |
| 975 | — | — | — | — | — | — | — | — | — | — |
| 1050 | — | — | — | — | — | — | — | — | — | — |
| 1125 | — | — | — | — | — | — | — | — | — | — |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1037-1890 RPM

50GC04 SINGLE PHASE - MEDIUM STATIC — 3 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 |
| 900 | 1037 | 4.7 | 1301 | 5.9 | 1517 | 6.9 | 1697 | 7.7 | 1855 | 8.5 |
| 975 | 1076 | 4.9 | 1331 | 6.1 | 1545 | 7.1 | 1727 | 7.9 | 1885 | 8.6 |
| 1050 | 1119 | 5.1 | 1362 | 6.2 | 1573 | 7.2 | 1755 | 8.0 | 1915 | 8.7 |
| 1125 | 1164 | 5.3 | 1395 | 6.4 | 1602 | 7.3 | 1783 | 8.1 | 1944 | 8.9 |
| 1200 | 1211 | 5.5 | 1429 | 6.5 | 1632 | 7.5 | 1812 | 8.3 | 1972 | 9.0 |
| 1275 | 1261 | 5.8 | 1466 | 6.7 | 1663 | 7.6 | 1841 | 8.4 | 2000 | 9.1 |
| 1350 | 1313 | 6.0 | 1506 | 6.9 | 1695 | 7.7 | 1870 | 8.5 | 2029 | 9.3 |
| 1425 | 1366 | 6.2 | 1548 | 7.1 | 1729 | 7.9 | 1900 | 8.7 | 2058 | 9.4 |
| 1500 | 1420 | 6.5 | 1591 | 7.3 | 1765 | 8.1 | 1932 | 8.8 | 2087 | 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 |
| 900 | 1995 | 9.1 | 2123 | 9.7 | — | — | — | — | — | — |
| 975 | 2027 | 9.3 | 2157 | 9.8 | — | — | — | — | — | — |
| 1050 | 2058 | 9.4 | — | — | — | — | — | — | — | — |
| 1125 | 2088 | 9.5 | — | — | — | — | — | — | — | — |
| 1200 | 2117 | 9.7 | — | — | — | — | — | — | — | — |
| 1275 | 2146 | 9.8 | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1037-2190 RPM

50GC04 SINGLE PHASE - HIGH STATIC — 3 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 |
| 900 | 1037 | 4.2 | 1301 | 5.2 | 1517 | 6.1 | 1697 | 6.8 | 1855 | 7.4 |
| 975 | 1076 | 4.3 | 1331 | 5.3 | 1545 | 6.2 | 1727 | 6.9 | 1885 | 7.6 |
| 1050 | 1119 | 4.5 | 1362 | 5.5 | 1573 | 6.3 | 1755 | 7.0 | 1915 | 7.7 |
| 1125 | 1164 | 4.7 | 1395 | 5.6 | 1602 | 6.4 | 1783 | 7.2 | 1944 | 7.8 |
| 1200 | 1211 | 4.9 | 1429 | 5.7 | 1632 | 6.6 | 1812 | 7.3 | 1972 | 7.9 |
| 1275 | 1261 | 5.1 | 1466 | 5.9 | 1663 | 6.7 | 1841 | 7.4 | 2000 | 8.0 |
| 1350 | 1313 | 5.3 | 1506 | 6.0 | 1695 | 6.8 | 1870 | 7.5 | 2029 | 8.1 |
| 1425 | 1366 | 5.5 | 1548 | 6.2 | 1729 | 6.9 | 1900 | 7.6 | 2058 | 8.3 |
| 1500 | 1420 | 5.7 | 1591 | 6.4 | 1765 | 7.1 | 1932 | 7.8 | 2087 | 8.4 |

| 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 |
| 900 | 1995 | 8.0 | 2123 | 8.5 | 2241 | 9.0 | 2352 | 9.4 | 2455 | 9.9 |
| 975 | 2027 | 8.1 | 2157 | 8.7 | 2276 | 9.1 | 2387 | 9.6 | — | — |
| 1050 | 2058 | 8.3 | 2189 | 8.8 | 2309 | 9.3 | 2421 | 9.7 | — | — |
| 1125 | 2088 | 8.4 | 2219 | 8.9 | 2341 | 9.4 | 2454 | 9.9 | — | — |
| 1200 | 2117 | 8.5 | 2249 | 9.0 | 2371 | 9.5 | 2485 | 10.0 | — | — |
| 1275 | 2146 | 8.6 | 2278 | 9.1 | 2401 | 9.6 | — | — | — | — |
| 1350 | 2174 | 8.7 | 2307 | 9.3 | 2431 | 9.8 | — | — | — | — |
| 1425 | 2202 | 8.8 | 2335 | 9.4 | 2459 | 9.9 | — | — | — | — |
| 1500 | 2231 | 9.0 | 2364 | 9.5 | 2488 | 10.0 | — | — | — | — |

High Static 1037-2490 RPM

50GC**04 THREE PHASE — 3 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 |
| 900 | 1037 | 0.08 | 1301 | 0.15 | 1517 | 0.24 | 1697 | 0.34 | 1855 | 0.44 |
| 975 | 1076 | 0.09 | 1331 | 0.16 | 1545 | 0.26 | 1727 | 0.36 | 1885 | 0.47 |
| 1050 | 1119 | 0.10 | 1362 | 0.18 | 1573 | 0.27 | 1755 | 0.38 | 1915 | 0.49 |
| 1125 | 1164 | 0.11 | 1395 | 0.19 | 1602 | 0.29 | 1783 | 0.39 | 1944 | 0.51 |
| 1200 | 1211 | 0.12 | 1429 | 0.20 | 1632 | 0.30 | 1812 | 0.41 | 1972 | 0.53 |
| 1275 | 1261 | 0.14 | 1466 | 0.22 | 1663 | 0.32 | 1841 | 0.43 | 2000 | 0.56 |
| 1350 | 1313 | 0.16 | 1506 | 0.24 | 1695 | 0.34 | 1870 | 0.46 | 2029 | 0.58 |
| 1425 | 1366 | 0.18 | 1548 | 0.26 | 1729 | 0.36 | 1900 | 0.48 | 2058 | 0.61 |
| 1500 | 1420 | 0.20 | 1591 | 0.28 | 1765 | 0.38 | 1932 | 0.50 | 2087 | 0.63 |

| 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 |
| 900 | 1995 | 0.55 | 2123 | 0.67 | 2241 | 0.78 | 2352 | 0.91 | 2455 | 1.03 |
| 975 | 2027 | 0.58 | 2157 | 0.70 | 2276 | 0.82 | 2387 | 0.95 | — | — |
| 1050 | 2058 | 0.61 | 2189 | 0.73 | 2309 | 0.86 | 2421 | 0.99 | — | — |
| 1125 | 2088 | 0.63 | 2219 | 0.76 | 2341 | 0.89 | 2454 | 1.03 | — | — |
| 1200 | 2117 | 0.66 | 2249 | 0.79 | 2371 | 0.93 | 2485 | 1.07 | — | — |
| 1275 | 2146 | 0.69 | 2278 | 0.82 | 2401 | 0.96 | — | — | — | — |
| 1350 | 2174 | 0.72 | 2307 | 0.86 | 2431 | 1.00 | — | — | — | — |
| 1425 | 2202 | 0.74 | 2335 | 0.89 | 2459 | 1.04 | — | — | — | — |
| 1500 | 2231 | 0.77 | 2364 | 0.92 | 2488 | 1.07 | — | — | — | — |

Standard Static 1037-1890 RPM, 0.44 Max BHP

Medium Static 1037-2190 RPM, 0.71 Max BHP

High Static 1037-2490 RPM, 1.07 Max BHP

50GC**04 THREE PHASE - STANDARD STATIC — 3 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 |
| 900 | 1037 | 5.5 | 1301 | 6.9 | 1517 | 8.0 | 1697 | 9.0 | 1855 | 9.8 |
| 975 | 1076 | 5.7 | 1331 | 7.0 | 1545 | 8.2 | 1727 | 9.1 | — | — |
| 1050 | 1119 | 5.9 | 1362 | 7.2 | 1573 | 8.3 | 1755 | 9.3 | — | — |
| 1125 | 1164 | 6.2 | 1395 | 7.4 | 1602 | 8.5 | 1783 | 9.4 | — | — |
| 1200 | 1211 | 6.4 | 1429 | 7.6 | 1632 | 8.6 | 1812 | 9.6 | — | — |
| 1275 | 1261 | 6.7 | 1466 | 7.8 | 1663 | 8.8 | 1841 | 9.7 | — | — |
| 1350 | 1313 | 6.9 | 1506 | 8.0 | 1695 | 9.0 | — | — | — | — |
| 1425 | 1366 | 7.2 | 1548 | 8.2 | 1729 | 9.1 | — | — | — | — |
| 1500 | 1420 | 7.5 | 1591 | 8.4 | 1765 | 9.3 | — | — | — | — |

| 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 |
| 900 | — | — | — | — | — | — | — | — | — | — |
| 975 | — | — | — | — | — | — | — | — | — | — |
| 1050 | — | — | — | — | — | — | — | — | — | — |
| 1125 | — | — | — | — | — | — | — | — | — | — |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1275 | — | — | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1037-1890 RPM



50GC04 THREE PHASE - MEDIUM STATIC — 3 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 |
| 900 | 1037 | 4.7 | 1301 | 5.9 | 1517 | 6.9 | 1697 | 7.7 | 1855 | 8.5 |
| 975 | 1076 | 4.9 | 1331 | 6.1 | 1545 | 7.1 | 1727 | 7.9 | 1885 | 8.6 |
| 1050 | 1119 | 5.1 | 1362 | 6.2 | 1573 | 7.2 | 1755 | 8.0 | 1915 | 8.7 |
| 1125 | 1164 | 5.3 | 1395 | 6.4 | 1602 | 7.3 | 1783 | 8.1 | 1944 | 8.9 |
| 1200 | 1211 | 5.5 | 1429 | 6.5 | 1632 | 7.5 | 1812 | 8.3 | 1972 | 9.0 |
| 1275 | 1261 | 5.8 | 1466 | 6.7 | 1663 | 7.6 | 1841 | 8.4 | 2000 | 9.1 |
| 1350 | 1313 | 6.0 | 1506 | 6.9 | 1695 | 7.7 | 1870 | 8.5 | 2029 | 9.3 |
| 1425 | 1366 | 6.2 | 1548 | 7.1 | 1729 | 7.9 | 1900 | 8.7 | 2058 | 9.4 |
| 1500 | 1420 | 6.5 | 1591 | 7.3 | 1765 | 8.1 | 1932 | 8.8 | 2087 | 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 |
| 900 | 1995 | 9.1 | 2123 | 9.7 | — | — | — | — | — | — |
| 975 | 2027 | 9.3 | 2157 | 9.8 | — | — | — | — | — | — |
| 1050 | 2058 | 9.4 | — | — | — | — | — | — | — | — |
| 1125 | 2088 | 9.5 | — | — | — | — | — | — | — | — |
| 1200 | 2117 | 9.7 | — | — | — | — | — | — | — | — |
| 1275 | 2146 | 9.8 | — | — | — | — | — | — | — | — |
| 1350 | — | — | — | — | — | — | — | — | — | — |
| 1425 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1037-2190 RPM

50GC04 THREE PHASE - HIGH STATIC — 3 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 |
| 900 | 1037 | 4.2 | 1301 | 5.2 | 1517 | 6.1 | 1697 | 6.8 | 1855 | 7.4 |
| 975 | 1076 | 4.3 | 1331 | 5.3 | 1545 | 6.2 | 1727 | 6.9 | 1885 | 7.6 |
| 1050 | 1119 | 4.5 | 1362 | 5.5 | 1573 | 6.3 | 1755 | 7.0 | 1915 | 7.7 |
| 1125 | 1164 | 4.7 | 1395 | 5.6 | 1602 | 6.4 | 1783 | 7.2 | 1944 | 7.8 |
| 1200 | 1211 | 4.9 | 1429 | 5.7 | 1632 | 6.6 | 1812 | 7.3 | 1972 | 7.9 |
| 1275 | 1261 | 5.1 | 1466 | 5.9 | 1663 | 6.7 | 1841 | 7.4 | 2000 | 8.0 |
| 1350 | 1313 | 5.3 | 1506 | 6.0 | 1695 | 6.8 | 1870 | 7.5 | 2029 | 8.1 |
| 1425 | 1366 | 5.5 | 1548 | 6.2 | 1729 | 6.9 | 1900 | 7.6 | 2058 | 8.3 |
| 1500 | 1420 | 5.7 | 1591 | 6.4 | 1765 | 7.1 | 1932 | 7.8 | 2087 | 8.4 |

| 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 |
| 900 | 1995 | 8.0 | 2123 | 8.5 | 2241 | 9.0 | 2352 | 9.4 | 2455 | 9.9 |
| 975 | 2027 | 8.1 | 2157 | 8.7 | 2276 | 9.1 | 2387 | 9.6 | — | — |
| 1050 | 2058 | 8.3 | 2189 | 8.8 | 2309 | 9.3 | 2421 | 9.7 | — | — |
| 1125 | 2088 | 8.4 | 2219 | 8.9 | 2341 | 9.4 | 2454 | 9.9 | — | — |
| 1200 | 2117 | 8.5 | 2249 | 9.0 | 2371 | 9.5 | 2485 | 10.0 | — | — |
| 1275 | 2146 | 8.6 | 2278 | 9.1 | 2401 | 9.6 | — | — | — | — |
| 1350 | 2174 | 8.7 | 2307 | 9.3 | 2431 | 9.8 | — | — | — | — |
| 1425 | 2202 | 8.8 | 2335 | 9.4 | 2459 | 9.9 | — | — | — | — |
| 1500 | 2231 | 9.0 | 2364 | 9.5 | 2488 | 10.0 | — | — | — | — |

High Static 1037-2490 RPM

50GC**05 SINGLE PHASE — 4 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 |
| 1200 | 1092 | 0.14 | 1306 | 0.24 | 1497 | 0.35 | 1667 | 0.49 | 1819 | 0.64 |
| 1300 | 1148 | 0.16 | 1348 | 0.26 | 1533 | 0.38 | 1700 | 0.52 | 1851 | 0.67 |
| 1400 | 1207 | 0.18 | 1394 | 0.28 | 1571 | 0.41 | 1734 | 0.55 | 1882 | 0.70 |
| 1500 | 1267 | 0.21 | 1442 | 0.31 | 1612 | 0.44 | 1770 | 0.58 | 1916 | 0.73 |
| 1600 | 1329 | 0.24 | 1493 | 0.35 | 1655 | 0.47 | 1808 | 0.61 | 1951 | 0.77 |
| 1700 | 1393 | 0.28 | 1546 | 0.38 | 1700 | 0.51 | 1848 | 0.65 | 1988 | 0.81 |
| 1800 | 1458 | 0.32 | 1602 | 0.42 | 1748 | 0.55 | 1890 | 0.70 | 2026 | 0.86 |
| 1900 | 1523 | 0.36 | 1659 | 0.47 | 1797 | 0.60 | 1934 | 0.75 | 2066 | 0.91 |
| 2000 | 1590 | 0.41 | 1719 | 0.52 | 1849 | 0.65 | 1980 | 0.80 | 2108 | 0.96 |

| 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 |
| 1200 | 1958 | 0.79 | 2089 | 0.96 | 2211 | 1.14 | 2327 | 1.33 | 2438 | 1.53 |
| 1300 | 1988 | 0.83 | 2117 | 1.00 | 2238 | 1.18 | 2352 | 1.37 | — | — |
| 1400 | 2020 | 0.86 | 2146 | 1.03 | 2266 | 1.22 | 2379 | 1.41 | — | — |
| 1500 | 2051 | 0.90 | 2177 | 1.08 | 2296 | 1.26 | 2408 | 1.46 | — | — |
| 1600 | 2084 | 0.94 | 2209 | 1.12 | 2327 | 1.31 | 2438 | 1.51 | — | — |
| 1700 | 2119 | 0.99 | 2242 | 1.17 | 2358 | 1.36 | — | — | — | — |
| 1800 | 2154 | 1.03 | 2276 | 1.22 | 2391 | 1.41 | — | — | — | — |
| 1900 | 2191 | 1.08 | 2311 | 1.27 | 2424 | 1.47 | — | — | — | — |
| 2000 | 2230 | 1.14 | 2347 | 1.33 | 2459 | 1.53 | — | — | — | — |

Standard Static 1092-1900 RPM, 0.72 Max BHP

Medium Static 1092-2170 RPM, 1.06 Max BHP

High Static 1092-2460 RPM, 1.53 Max BHP

50GC**05 SINGLE PHASE - STANDARD STATIC — 4 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 |
| 1200 | 1092 | 5.7 | 1306 | 6.9 | 1497 | 7.9 | 1667 | 8.8 | 1819 | 9.6 |
| 1300 | 1148 | 6.0 | 1348 | 7.1 | 1533 | 8.1 | 1700 | 8.9 | 1851 | 9.7 |
| 1400 | 1207 | 6.4 | 1394 | 7.3 | 1571 | 8.3 | 1734 | 9.1 | 1882 | 9.9 |
| 1500 | 1267 | 6.7 | 1442 | 7.6 | 1612 | 8.5 | 1770 | 9.3 | — | — |
| 1600 | 1329 | 7.0 | 1493 | 7.9 | 1655 | 8.7 | 1808 | 9.5 | — | — |
| 1700 | 1393 | 7.3 | 1546 | 8.1 | 1700 | 8.9 | 1848 | 9.7 | — | — |
| 1800 | 1458 | 7.7 | 1602 | 8.4 | 1748 | 9.2 | 1890 | 9.9 | — | — |
| 1900 | 1523 | 8.0 | 1659 | 8.7 | 1797 | 9.5 | — | — | — | — |
| 2000 | 1590 | 8.4 | 1719 | 9.0 | 1849 | 9.7 | — | — | — | — |

| 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 |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1300 | — | — | — | — | — | — | — | — | — | — |
| 1400 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1092-1900 RPM



50GC05 SINGLE PHASE - MEDIUM STATIC — 4 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 |
| 1200 | 1092 | 5.0 | 1306 | 6.0 | 1497 | 6.9 | 1667 | 7.7 | 1819 | 8.4 |
| 1300 | 1148 | 5.3 | 1348 | 6.2 | 1533 | 7.1 | 1700 | 7.8 | 1851 | 8.5 |
| 1400 | 1207 | 5.6 | 1394 | 6.4 | 1571 | 7.2 | 1734 | 8.0 | 1882 | 8.7 |
| 1500 | 1267 | 5.8 | 1442 | 6.6 | 1612 | 7.4 | 1770 | 8.2 | 1916 | 8.8 |
| 1600 | 1329 | 6.1 | 1493 | 6.9 | 1655 | 7.6 | 1808 | 8.3 | 1951 | 9.0 |
| 1700 | 1393 | 6.4 | 1546 | 7.1 | 1700 | 7.8 | 1848 | 8.5 | 1988 | 9.2 |
| 1800 | 1458 | 6.7 | 1602 | 7.4 | 1748 | 8.1 | 1890 | 8.7 | 2026 | 9.3 |
| 1900 | 1523 | 7.0 | 1659 | 7.6 | 1797 | 8.3 | 1934 | 8.9 | 2066 | 9.5 |
| 2000 | 1590 | 7.3 | 1719 | 7.9 | 1849 | 8.5 | 1980 | 9.1 | 2108 | 9.7 |

| 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 |
| 1200 | 1958 | 9.0 | 2089 | 9.6 | — | — | — | — | — | — |
| 1300 | 1988 | 9.2 | 2117 | 9.8 | — | — | — | — | — | — |
| 1400 | 2020 | 9.3 | 2146 | 9.9 | — | — | — | — | — | — |
| 1500 | 2051 | 9.5 | — | — | — | — | — | — | — | — |
| 1600 | 2084 | 9.6 | — | — | — | — | — | — | — | — |
| 1700 | 2119 | 9.8 | — | — | — | — | — | — | — | — |
| 1800 | 2154 | 9.9 | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1092-2170 RPM

50GC05 SINGLE PHASE - HIGH STATIC — 4 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 |
| 1200 | 1092 | 4.4 | 1306 | 5.3 | 1497 | 6.1 | 1667 | 6.8 | 1819 | 7.4 |
| 1300 | 1148 | 4.7 | 1348 | 5.5 | 1533 | 6.2 | 1700 | 6.9 | 1851 | 7.5 |
| 1400 | 1207 | 4.9 | 1394 | 5.7 | 1571 | 6.4 | 1734 | 7.0 | 1882 | 7.7 |
| 1500 | 1267 | 5.2 | 1442 | 5.9 | 1612 | 6.6 | 1770 | 7.2 | 1916 | 7.8 |
| 1600 | 1329 | 5.4 | 1493 | 6.1 | 1655 | 6.7 | 1808 | 7.3 | 1951 | 7.9 |
| 1700 | 1393 | 5.7 | 1546 | 6.3 | 1700 | 6.9 | 1848 | 7.5 | 1988 | 8.1 |
| 1800 | 1458 | 5.9 | 1602 | 6.5 | 1748 | 7.1 | 1890 | 7.7 | 2026 | 8.2 |
| 1900 | 1523 | 6.2 | 1659 | 6.7 | 1797 | 7.3 | 1934 | 7.9 | 2066 | 8.4 |
| 2000 | 1590 | 6.5 | 1719 | 7.0 | 1849 | 7.5 | 1980 | 8.0 | 2108 | 8.6 |

| 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 |
| 1200 | 1958 | 8.0 | 2089 | 8.5 | 2211 | 9.0 | 2327 | 9.5 | 2438 | 9.9 |
| 1300 | 1988 | 8.1 | 2117 | 8.6 | 2238 | 9.1 | 2352 | 9.6 | — | — |
| 1400 | 2020 | 8.2 | 2146 | 8.7 | 2266 | 9.2 | 2379 | 9.7 | — | — |
| 1500 | 2051 | 8.3 | 2177 | 8.8 | 2296 | 9.3 | 2408 | 9.8 | — | — |
| 1600 | 2084 | 8.5 | 2209 | 9.0 | 2327 | 9.5 | 2438 | 9.9 | — | — |
| 1700 | 2119 | 8.6 | 2242 | 9.1 | 2358 | 9.6 | — | — | — | — |
| 1800 | 2154 | 8.8 | 2276 | 9.3 | 2391 | 9.7 | — | — | — | — |
| 1900 | 2191 | 8.9 | 2311 | 9.4 | 2424 | 9.9 | — | — | — | — |
| 2000 | 2230 | 9.1 | 2347 | 9.5 | 2459 | 10.0 | — | — | — | — |

High Static 1092-2460 RPM

50GC**05 THREE PHASE — 4 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 |
| 1200 | 1092 | 0.14 | 1306 | 0.24 | 1497 | 0.35 | 1667 | 0.49 | 1819 | 0.64 |
| 1300 | 1148 | 0.16 | 1348 | 0.26 | 1533 | 0.38 | 1700 | 0.52 | 1851 | 0.67 |
| 1400 | 1207 | 0.18 | 1394 | 0.28 | 1571 | 0.41 | 1734 | 0.55 | 1882 | 0.70 |
| 1500 | 1267 | 0.21 | 1442 | 0.31 | 1612 | 0.44 | 1770 | 0.58 | 1916 | 0.73 |
| 1600 | 1329 | 0.24 | 1493 | 0.35 | 1655 | 0.47 | 1808 | 0.61 | 1951 | 0.77 |
| 1700 | 1393 | 0.28 | 1546 | 0.38 | 1700 | 0.51 | 1848 | 0.65 | 1988 | 0.81 |
| 1800 | 1458 | 0.32 | 1602 | 0.42 | 1748 | 0.55 | 1890 | 0.70 | 2026 | 0.86 |
| 1900 | 1523 | 0.36 | 1659 | 0.47 | 1797 | 0.60 | 1934 | 0.75 | 2066 | 0.91 |
| 2000 | 1590 | 0.41 | 1719 | 0.52 | 1849 | 0.65 | 1980 | 0.80 | 2108 | 0.96 |

| 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 |
| 1200 | 1958 | 0.79 | 2089 | 0.96 | 2211 | 1.14 | 2327 | 1.33 | 2438 | 1.53 |
| 1300 | 1988 | 0.83 | 2117 | 1.00 | 2238 | 1.18 | 2352 | 1.37 | 2462 | 1.57 |
| 1400 | 2020 | 0.86 | 2146 | 1.03 | 2266 | 1.22 | 2379 | 1.41 | 2487 | 1.61 |
| 1500 | 2051 | 0.90 | 2177 | 1.08 | 2296 | 1.26 | 2408 | 1.46 | 2515 | 1.66 |
| 1600 | 2084 | 0.94 | 2209 | 1.12 | 2327 | 1.31 | 2438 | 1.51 | 2544 | 1.71 |
| 1700 | 2119 | 0.99 | 2242 | 1.17 | 2358 | 1.36 | 2469 | 1.56 | 2574 | 1.77 |
| 1800 | 2154 | 1.03 | 2276 | 1.22 | 2391 | 1.41 | 2500 | 1.61 | 2604 | 1.82 |
| 1900 | 2191 | 1.08 | 2311 | 1.27 | 2424 | 1.47 | 2533 | 1.68 | 2636 | 1.89 |
| 2000 | 2230 | 1.14 | 2347 | 1.33 | 2459 | 1.53 | 2566 | 1.74 | — | — |

Standard Static 1092-1900 RPM, 0.72 Max BHP

Medium Static 1092-2170 RPM, 1.06 Max BHP

High Static 1092-2660 RPM, 1.96 Max BHP

50GC**05 THREE PHASE - STANDARD STATIC — 4 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 |
| 1200 | 1092 | 5.7 | 1306 | 6.9 | 1497 | 7.9 | 1667 | 8.8 | 1819 | 9.6 |
| 1300 | 1148 | 6.0 | 1348 | 7.1 | 1533 | 8.1 | 1700 | 8.9 | 1851 | 9.7 |
| 1400 | 1207 | 6.4 | 1394 | 7.3 | 1571 | 8.3 | 1734 | 9.1 | 1882 | 9.9 |
| 1500 | 1267 | 6.7 | 1442 | 7.6 | 1612 | 8.5 | 1770 | 9.3 | — | — |
| 1600 | 1329 | 7.0 | 1493 | 7.9 | 1655 | 8.7 | 1808 | 9.5 | — | — |
| 1700 | 1393 | 7.3 | 1546 | 8.1 | 1700 | 8.9 | 1848 | 9.7 | — | — |
| 1800 | 1458 | 7.7 | 1602 | 8.4 | 1748 | 9.2 | 1890 | 9.9 | — | — |
| 1900 | 1523 | 8.0 | 1659 | 8.7 | 1797 | 9.5 | — | — | — | — |
| 2000 | 1590 | 8.4 | 1719 | 9.0 | 1849 | 9.7 | — | — | — | — |

| 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 |
| 1200 | — | — | — | — | — | — | — | — | — | — |
| 1300 | — | — | — | — | — | — | — | — | — | — |
| 1400 | — | — | — | — | — | — | — | — | — | — |
| 1500 | — | — | — | — | — | — | — | — | — | — |
| 1600 | — | — | — | — | — | — | — | — | — | — |
| 1700 | — | — | — | — | — | — | — | — | — | — |
| 1800 | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1092-1900 RPM

50GC05 THREE PHASE - MEDIUM STATIC — 4 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 |
| 1200 | 1092 | 5.0 | 1306 | 6.0 | 1497 | 6.9 | 1667 | 7.7 | 1819 | 8.4 |
| 1300 | 1148 | 5.3 | 1348 | 6.2 | 1533 | 7.1 | 1700 | 7.8 | 1851 | 8.5 |
| 1400 | 1207 | 5.6 | 1394 | 6.4 | 1571 | 7.2 | 1734 | 8.0 | 1882 | 8.7 |
| 1500 | 1267 | 5.8 | 1442 | 6.6 | 1612 | 7.4 | 1770 | 8.2 | 1916 | 8.8 |
| 1600 | 1329 | 6.1 | 1493 | 6.9 | 1655 | 7.6 | 1808 | 8.3 | 1951 | 9.0 |
| 1700 | 1393 | 6.4 | 1546 | 7.1 | 1700 | 7.8 | 1848 | 8.5 | 1988 | 9.2 |
| 1800 | 1458 | 6.7 | 1602 | 7.4 | 1748 | 8.1 | 1890 | 8.7 | 2026 | 9.3 |
| 1900 | 1523 | 7.0 | 1659 | 7.6 | 1797 | 8.3 | 1934 | 8.9 | 2066 | 9.5 |
| 2000 | 1590 | 7.3 | 1719 | 7.9 | 1849 | 8.5 | 1980 | 9.1 | 2108 | 9.7 |

| 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 |
| 1200 | 1958 | 9.0 | 2089 | 9.6 | — | — | — | — | — | — |
| 1300 | 1988 | 9.2 | 2117 | 9.8 | — | — | — | — | — | — |
| 1400 | 2020 | 9.3 | 2146 | 9.9 | — | — | — | — | — | — |
| 1500 | 2051 | 9.5 | — | — | — | — | — | — | — | — |
| 1600 | 2084 | 9.6 | — | — | — | — | — | — | — | — |
| 1700 | 2119 | 9.8 | — | — | — | — | — | — | — | — |
| 1800 | 2154 | 9.9 | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — | — | — | — |
| 2000 | — | — | — | — | — | — | — | — | — | — |

Medium Static 1092-2170 RPM

50GC05 THREE PHASE - HIGH STATIC — 4 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 |
| 1200 | 1092 | 4.1 | 1306 | 4.9 | 1497 | 5.6 | 1667 | 6.3 | 1819 | 6.8 |
| 1300 | 1148 | 4.3 | 1348 | 5.1 | 1533 | 5.8 | 1700 | 6.4 | 1851 | 7.0 |
| 1400 | 1207 | 4.5 | 1394 | 5.2 | 1571 | 5.9 | 1734 | 6.5 | 1882 | 7.1 |
| 1500 | 1267 | 4.8 | 1442 | 5.4 | 1612 | 6.1 | 1770 | 6.7 | 1916 | 7.2 |
| 1600 | 1329 | 5.0 | 1493 | 5.6 | 1655 | 6.2 | 1808 | 6.8 | 1951 | 7.3 |
| 1700 | 1393 | 5.2 | 1546 | 5.8 | 1700 | 6.4 | 1848 | 6.9 | 1988 | 7.5 |
| 1800 | 1458 | 5.5 | 1602 | 6.0 | 1748 | 6.6 | 1890 | 7.1 | 2026 | 7.6 |
| 1900 | 1523 | 5.7 | 1659 | 6.2 | 1797 | 6.8 | 1934 | 7.3 | 2066 | 7.8 |
| 2000 | 1590 | 6.0 | 1719 | 6.5 | 1849 | 7.0 | 1980 | 7.4 | 2108 | 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 |
| 1200 | 1958 | 7.4 | 2089 | 7.9 | 2211 | 8.3 | 2327 | 8.7 | 2438 | 9.2 |
| 1300 | 1988 | 7.5 | 2117 | 8.0 | 2238 | 8.4 | 2352 | 8.8 | 2462 | 9.3 |
| 1400 | 2020 | 7.6 | 2146 | 8.1 | 2266 | 8.5 | 2379 | 8.9 | 2487 | 9.3 |
| 1500 | 2051 | 7.7 | 2177 | 8.2 | 2296 | 8.6 | 2408 | 9.1 | 2515 | 9.5 |
| 1600 | 2084 | 7.8 | 2209 | 8.3 | 2327 | 8.7 | 2438 | 9.2 | 2544 | 9.6 |
| 1700 | 2119 | 8.0 | 2242 | 8.4 | 2358 | 8.9 | 2469 | 9.3 | 2574 | 9.7 |
| 1800 | 2154 | 8.1 | 2276 | 8.6 | 2391 | 9.0 | 2500 | 9.4 | 2604 | 9.8 |
| 1900 | 2191 | 8.2 | 2311 | 8.7 | 2424 | 9.1 | 2533 | 9.5 | 2636 | 9.9 |
| 2000 | 2230 | 8.4 | 2347 | 8.8 | 2459 | 9.2 | 2566 | 9.6 | — | — |

High Static 1092-2660 RPM

50GC**06 SINGLE PHASE — 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 |
| 1500 | 1197 | 0.18 | 1361 | 0.26 | 1524 | 0.36 | 1679 | 0.49 | 1822 | 0.62 |
| 1625 | 1271 | 0.21 | 1421 | 0.29 | 1574 | 0.40 | 1721 | 0.52 | 1860 | 0.66 |
| 1750 | 1348 | 0.25 | 1486 | 0.34 | 1627 | 0.44 | 1767 | 0.56 | 1901 | 0.70 |
| 1875 | 1426 | 0.30 | 1552 | 0.38 | 1684 | 0.49 | 1816 | 0.61 | 1945 | 0.75 |
| 2000 | 1505 | 0.35 | 1623 | 0.43 | 1745 | 0.54 | 1870 | 0.66 | 1992 | 0.80 |
| 2125 | 1585 | 0.40 | 1695 | 0.49 | 1809 | 0.60 | 1926 | 0.72 | 2043 | 0.86 |
| 2250 | 1666 | 0.47 | 1769 | 0.56 | 1876 | 0.67 | 1986 | 0.79 | 2096 | 0.93 |
| 2375 | 1748 | 0.54 | 1845 | 0.63 | 1945 | 0.74 | 2049 | 0.87 | 2153 | 1.01 |
| 2500 | 1830 | 0.62 | 1921 | 0.71 | 2016 | 0.82 | 2114 | 0.95 | 2213 | 1.09 |

| 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 |
| 1500 | 1955 | 0.77 | 2078 | 0.92 | 2194 | 1.09 | 2304 | 1.26 | — | — |
| 1625 | 1990 | 0.81 | 2112 | 0.97 | 2227 | 1.13 | 2336 | 1.31 | — | — |
| 1750 | 2028 | 0.85 | 2148 | 1.01 | 2262 | 1.18 | 2370 | 1.36 | — | — |
| 1875 | 2069 | 0.90 | 2186 | 1.06 | 2298 | 1.23 | — | — | — | — |
| 2000 | 2111 | 0.95 | 2226 | 1.12 | 2336 | 1.29 | — | — | — | — |
| 2125 | 2157 | 1.02 | 2268 | 1.18 | 2375 | 1.36 | — | — | — | — |
| 2250 | 2206 | 1.08 | 2313 | 1.25 | — | — | — | — | — | — |
| 2375 | 2258 | 1.16 | 2361 | 1.33 | — | — | — | — | — | — |
| 2500 | 2312 | 1.24 | — | — | — | — | — | — | — | — |

Standard Static 1197-2150 RPM, 1.06 Max BHP

Medium Static 1197-2390 RPM, 1.44 Max BHP

50GC**06 SINGLE PHASE - STANDARD STATIC — 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 |
| 1500 | 1197 | 5.6 | 1361 | 6.3 | 1524 | 7.1 | 1679 | 7.8 | 1822 | 8.5 |
| 1625 | 1271 | 5.9 | 1421 | 6.6 | 1574 | 7.3 | 1721 | 8.0 | 1860 | 8.7 |
| 1750 | 1348 | 6.3 | 1486 | 6.9 | 1627 | 7.6 | 1767 | 8.2 | 1901 | 8.8 |
| 1875 | 1426 | 6.6 | 1552 | 7.2 | 1684 | 7.8 | 1816 | 8.4 | 1945 | 9.0 |
| 2000 | 1505 | 7.0 | 1623 | 7.5 | 1745 | 8.1 | 1870 | 8.7 | 1992 | 9.3 |
| 2125 | 1585 | 7.4 | 1695 | 7.9 | 1809 | 8.4 | 1926 | 9.0 | 2043 | 9.5 |
| 2250 | 1666 | 7.7 | 1769 | 8.2 | 1876 | 8.7 | 1986 | 9.2 | 2096 | 9.7 |
| 2375 | 1748 | 8.1 | 1845 | 8.6 | 1945 | 9.0 | 2049 | 9.5 | — | — |
| 2500 | 1830 | 8.5 | 1921 | 8.9 | 2016 | 9.4 | 2114 | 9.8 | — | — |

| 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 |
| 1500 | 1955 | 9.1 | 2078 | 9.7 | — | — | — | — | — | — |
| 1625 | 1990 | 9.3 | 2112 | 9.8 | — | — | — | — | — | — |
| 1750 | 2028 | 9.4 | 2148 | 10.0 | — | — | — | — | — | — |
| 1875 | 2069 | 9.6 | — | — | — | — | — | — | — | — |
| 2000 | 2111 | 9.8 | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1197-2150 RPM



50GC06 SINGLE PHASE - MEDIUM STATIC — 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 |
| 1500 | 1197 | 5.0 | 1361 | 5.7 | 1524 | 6.4 | 1679 | 7.0 | 1822 | 7.6 |
| 1625 | 1271 | 5.3 | 1421 | 5.9 | 1574 | 6.6 | 1721 | 7.2 | 1860 | 7.8 |
| 1750 | 1348 | 5.6 | 1486 | 6.2 | 1627 | 6.8 | 1767 | 7.4 | 1901 | 8.0 |
| 1875 | 1426 | 6.0 | 1552 | 6.5 | 1684 | 7.0 | 1816 | 7.6 | 1945 | 8.1 |
| 2000 | 1505 | 6.3 | 1623 | 6.8 | 1745 | 7.3 | 1870 | 7.8 | 1992 | 8.3 |
| 2125 | 1585 | 6.6 | 1695 | 7.1 | 1809 | 7.6 | 1926 | 8.1 | 2043 | 8.5 |
| 2250 | 1666 | 7.0 | 1769 | 7.4 | 1876 | 7.8 | 1986 | 8.3 | 2096 | 8.8 |
| 2375 | 1748 | 7.3 | 1845 | 7.7 | 1945 | 8.1 | 2049 | 8.6 | 2153 | 9.0 |
| 2500 | 1830 | 7.7 | 1921 | 8.0 | 2016 | 8.4 | 2114 | 8.8 | 2213 | 9.3 |

| 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 |
| 1500 | 1955 | 8.2 | 2078 | 8.7 | 2194 | 9.2 | 2304 | 9.6 | — | — |
| 1625 | 1990 | 8.3 | 2112 | 8.8 | 2227 | 9.3 | 2336 | 9.8 | — | — |
| 1750 | 2028 | 8.5 | 2148 | 9.0 | 2262 | 9.5 | 2370 | 9.9 | — | — |
| 1875 | 2069 | 8.7 | 2186 | 9.1 | 2298 | 9.6 | — | — | — | — |
| 2000 | 2111 | 8.8 | 2226 | 9.3 | 2336 | 9.8 | — | — | — | — |
| 2125 | 2157 | 9.0 | 2268 | 9.5 | 2375 | 9.9 | — | — | — | — |
| 2250 | 2206 | 9.2 | 2313 | 9.7 | — | — | — | — | — | — |
| 2375 | 2258 | 9.4 | 2361 | 9.9 | — | — | — | — | — | — |
| 2500 | 2312 | 9.7 | — | — | — | — | — | — | — | — |

Medium Static 1197-2390 RPM

50GC**06 THREE PHASE — 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 |
| 1500 | 1197 | 0.18 | 1361 | 0.26 | 1524 | 0.36 | 1679 | 0.49 | 1822 | 0.62 |
| 1625 | 1271 | 0.21 | 1421 | 0.29 | 1574 | 0.40 | 1721 | 0.52 | 1860 | 0.66 |
| 1750 | 1348 | 0.25 | 1486 | 0.34 | 1627 | 0.44 | 1767 | 0.56 | 1901 | 0.70 |
| 1875 | 1426 | 0.30 | 1552 | 0.38 | 1684 | 0.49 | 1816 | 0.61 | 1945 | 0.75 |
| 2000 | 1505 | 0.35 | 1623 | 0.43 | 1745 | 0.54 | 1870 | 0.66 | 1992 | 0.80 |
| 2125 | 1585 | 0.40 | 1695 | 0.49 | 1809 | 0.60 | 1926 | 0.72 | 2043 | 0.86 |
| 2250 | 1666 | 0.47 | 1769 | 0.56 | 1876 | 0.67 | 1986 | 0.79 | 2096 | 0.93 |
| 2375 | 1748 | 0.54 | 1845 | 0.63 | 1945 | 0.74 | 2049 | 0.87 | 2153 | 1.01 |
| 2500 | 1830 | 0.62 | 1921 | 0.71 | 2016 | 0.82 | 2114 | 0.95 | 2213 | 1.09 |

| 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 |
| 1500 | 1955 | 0.77 | 2078 | 0.92 | 2194 | 1.09 | 2304 | 1.26 | 2408 | 1.44 |
| 1625 | 1990 | 0.81 | 2112 | 0.97 | 2227 | 1.13 | 2336 | 1.31 | 2440 | 1.49 |
| 1750 | 2028 | 0.85 | 2148 | 1.01 | 2262 | 1.18 | 2370 | 1.36 | 2472 | 1.54 |
| 1875 | 2069 | 0.90 | 2186 | 1.06 | 2298 | 1.23 | 2404 | 1.41 | 2506 | 1.60 |
| 2000 | 2111 | 0.95 | 2226 | 1.12 | 2336 | 1.29 | 2441 | 1.48 | 2541 | 1.66 |
| 2125 | 2157 | 1.02 | 2268 | 1.18 | 2375 | 1.36 | 2479 | 1.54 | 2578 | 1.73 |
| 2250 | 2206 | 1.08 | 2313 | 1.25 | 2417 | 1.43 | 2518 | 1.61 | 2616 | 1.81 |
| 2375 | 2258 | 1.16 | 2361 | 1.33 | 2462 | 1.50 | 2560 | 1.69 | 2656 | 1.89 |
| 2500 | 2312 | 1.24 | 2411 | 1.41 | 2509 | 1.59 | 2604 | 1.78 | 2697 | 1.97 |

Standard Static 1197-2150 RPM, 1.06 Max BHP

Medium Static 1197-2390 RPM, 1.44 Max BHP

High Static 1197-2836 RPM, 2.43 Max BHP

50GC**06 THREE PHASE - STANDARD STATIC — 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 |
| 1500 | 1197 | 5.6 | 1361 | 6.3 | 1524 | 7.1 | 1679 | 7.8 | 1822 | 8.5 |
| 1625 | 1271 | 5.9 | 1421 | 6.6 | 1574 | 7.3 | 1721 | 8.0 | 1860 | 8.7 |
| 1750 | 1348 | 6.3 | 1486 | 6.9 | 1627 | 7.6 | 1767 | 8.2 | 1901 | 8.8 |
| 1875 | 1426 | 6.6 | 1552 | 7.2 | 1684 | 7.8 | 1816 | 8.4 | 1945 | 9.0 |
| 2000 | 1505 | 7.0 | 1623 | 7.5 | 1745 | 8.1 | 1870 | 8.7 | 1992 | 9.3 |
| 2125 | 1585 | 7.4 | 1695 | 7.9 | 1809 | 8.4 | 1926 | 9.0 | 2043 | 9.5 |
| 2250 | 1666 | 7.7 | 1769 | 8.2 | 1876 | 8.7 | 1986 | 9.2 | 2096 | 9.7 |
| 2375 | 1748 | 8.1 | 1845 | 8.6 | 1945 | 9.0 | 2049 | 9.5 | — | — |
| 2500 | 1830 | 8.5 | 1921 | 8.9 | 2016 | 9.4 | 2114 | 9.8 | — | — |

| 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 |
| 1500 | 1955 | 9.1 | 2078 | 9.7 | — | — | — | — | — | — |
| 1625 | 1990 | 9.3 | 2112 | 9.8 | — | — | — | — | — | — |
| 1750 | 2028 | 9.4 | 2148 | 10.0 | — | — | — | — | — | — |
| 1875 | 2069 | 9.6 | — | — | — | — | — | — | — | — |
| 2000 | 2111 | 9.8 | — | — | — | — | — | — | — | — |
| 2125 | — | — | — | — | — | — | — | — | — | — |
| 2250 | — | — | — | — | — | — | — | — | — | — |
| 2375 | — | — | — | — | — | — | — | — | — | — |
| 2500 | — | — | — | — | — | — | — | — | — | — |

Standard Static 1197-2150 RPM



50GC06 THREE PHASE - MEDIUM STATIC — 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 |
| 1500 | 1197 | 5.0 | 1361 | 5.7 | 1524 | 6.4 | 1679 | 7.0 | 1822 | 7.6 |
| 1625 | 1271 | 5.3 | 1421 | 5.9 | 1574 | 6.6 | 1721 | 7.2 | 1860 | 7.8 |
| 1750 | 1348 | 5.6 | 1486 | 6.2 | 1627 | 6.8 | 1767 | 7.4 | 1901 | 8.0 |
| 1875 | 1426 | 6.0 | 1552 | 6.5 | 1684 | 7.0 | 1816 | 7.6 | 1945 | 8.1 |
| 2000 | 1505 | 6.3 | 1623 | 6.8 | 1745 | 7.3 | 1870 | 7.8 | 1992 | 8.3 |
| 2125 | 1585 | 6.6 | 1695 | 7.1 | 1809 | 7.6 | 1926 | 8.1 | 2043 | 8.5 |
| 2250 | 1666 | 7.0 | 1769 | 7.4 | 1876 | 7.8 | 1986 | 8.3 | 2096 | 8.8 |
| 2375 | 1748 | 7.3 | 1845 | 7.7 | 1945 | 8.1 | 2049 | 8.6 | 2153 | 9.0 |
| 2500 | 1830 | 7.7 | 1921 | 8.0 | 2016 | 8.4 | 2114 | 8.8 | 2213 | 9.3 |

| 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 |
| 1500 | 1955 | 8.2 | 2078 | 8.7 | 2194 | 9.2 | 2304 | 9.6 | — | — |
| 1625 | 1990 | 8.3 | 2112 | 8.8 | 2227 | 9.3 | 2336 | 9.8 | — | — |
| 1750 | 2028 | 8.5 | 2148 | 9.0 | 2262 | 9.5 | 2370 | 9.9 | — | — |
| 1875 | 2069 | 8.7 | 2186 | 9.1 | 2298 | 9.6 | — | — | — | — |
| 2000 | 2111 | 8.8 | 2226 | 9.3 | 2336 | 9.8 | — | — | — | — |
| 2125 | 2157 | 9.0 | 2268 | 9.5 | 2375 | 9.9 | — | — | — | — |
| 2250 | 2206 | 9.2 | 2313 | 9.7 | — | — | — | — | — | — |
| 2375 | 2258 | 9.4 | 2361 | 9.9 | — | — | — | — | — | — |
| 2500 | 2312 | 9.7 | — | — | — | — | — | — | — | — |

Medium Static 1197-2390 RPM

50GC06 THREE PHASE - HIGH STATIC — 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 |
| 1500 | 1197 | 4.2 | 1361 | 4.8 | 1524 | 5.4 | 1679 | 5.9 | 1822 | 6.4 |
| 1625 | 1271 | 4.5 | 1421 | 5.0 | 1574 | 5.6 | 1721 | 6.1 | 1860 | 6.6 |
| 1750 | 1348 | 4.8 | 1486 | 5.2 | 1627 | 5.7 | 1767 | 6.2 | 1901 | 6.7 |
| 1875 | 1426 | 5.0 | 1552 | 5.5 | 1684 | 5.9 | 1816 | 6.4 | 1945 | 6.9 |
| 2000 | 1505 | 5.3 | 1623 | 5.7 | 1745 | 6.2 | 1870 | 6.6 | 1992 | 7.0 |
| 2125 | 1585 | 5.6 | 1695 | 6.0 | 1809 | 6.4 | 1926 | 6.8 | 2043 | 7.2 |
| 2250 | 1666 | 5.9 | 1769 | 6.2 | 1876 | 6.6 | 1986 | 7.0 | 2096 | 7.4 |
| 2375 | 1748 | 6.2 | 1845 | 6.5 | 1945 | 6.9 | 2049 | 7.2 | 2153 | 7.6 |
| 2500 | 1830 | 6.5 | 1921 | 6.8 | 2016 | 7.1 | 2114 | 7.5 | 2213 | 7.8 |

| 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 |
| 1500 | 1955 | 6.9 | 2078 | 7.3 | 2194 | 7.7 | 2304 | 8.1 | 2408 | 8.5 |
| 1625 | 1990 | 7.0 | 2112 | 7.4 | 2227 | 7.9 | 2336 | 8.2 | 2440 | 8.6 |
| 1750 | 2028 | 7.2 | 2148 | 7.6 | 2262 | 8.0 | 2370 | 8.4 | 2472 | 8.7 |
| 1875 | 2069 | 7.3 | 2186 | 7.7 | 2298 | 8.1 | 2404 | 8.5 | 2506 | 8.8 |
| 2000 | 2111 | 7.4 | 2226 | 7.8 | 2336 | 8.2 | 2441 | 8.6 | 2541 | 9.0 |
| 2125 | 2157 | 7.6 | 2268 | 8.0 | 2375 | 8.4 | 2479 | 8.7 | 2578 | 9.1 |
| 2250 | 2206 | 7.8 | 2313 | 8.2 | 2417 | 8.5 | 2518 | 8.9 | 2616 | 9.2 |
| 2375 | 2258 | 8.0 | 2361 | 8.3 | 2462 | 8.7 | 2560 | 9.0 | 2656 | 9.4 |
| 2500 | 2312 | 8.2 | 2411 | 8.5 | 2509 | 8.8 | 2604 | 9.2 | 2697 | 9.5 |

High Static 1197-2836 RPM

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, wet coils, and highest gas heat exchanger (when gas heat unit).
4. Factory options and accessories may effect static pressure losses. Gas heat unit fan tables assume highest gas heat models; for fan selections with low or medium heat models, the user must deduct low and medium heat static pressures. 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/drive recommendations. In cases when two motor/drive combinations would work, Carrier recommends the lower horsepower option.
6. For information on the electrical properties of Carrier motors, please see the Electrical information section of this book.
7. For more information on the performance limits of Carrier 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.

Legend and Notes

Applicable for Electrical Data Tables on pages 90 to 114

LEGEND

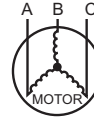
| | |
|----------------------|--------------------------------|
| BRKR | — Circuit Breaker |
| C.O. | — Convenience Outlet |
| FLA | — Full Load Amps |
| IFM | — Indoor Fan Motor |
| LRA | — Locked Rotor Amps |
| MCA | — Minimum Circuit Amps |
| P.E. | — Power Exhaust |
| Pwr'd fr/unit | — Powered From Unit |
| PWRD C.O. | — Powered Convenience Outlet |
| RLA | — Rated Load Amps |
| 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.

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

Example: Supply voltage is 230-3-60



AB = 224 v
BC = 231 v
AC = 226 v

$$\begin{aligned} \text{Average Voltage} &= \frac{(224 + 231 + 226)}{3} = \frac{681}{3} \\ &= 227 \end{aligned}$$

Determine maximum deviation from average voltage.

$$(AB) 227 - 224 = 3 \text{ v}$$

$$(BC) 231 - 227 = 4 \text{ v}$$

$$(AC) 227 - 226 = 1 \text{ v}$$

Maximum deviation is 4 v.

Determine percent of voltage imbalance.

$$\begin{aligned} \% \text{ Voltage Imbalance} &= 100 \times \frac{4}{227} \\ &= 1.76\% \end{aligned}$$

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.

Electrical data (cont)



48/50GC**04-06 COOLING ELECTRICAL DATA

| 48/50GC UNIT | V-Ph-Hz | UNIT VOLTAGE | | COMPRESSOR | | OFM (EA) | | IFM | | | COMBUSTION FAN MOTOR (48GC ONLY) | POWER EXHAUST | | |
|--------------|----------|--------------|-----|------------|-----|----------|-----|------|--------------------|-----|----------------------------------|---------------|--------------|-----|
| | | RANGE | | RLA | LRA | WATTS | FLA | TYPE | EFFCY AT FULL LOAD | FLA | FLA | KIT QTY | FLA (EA KIT) | |
| | | MIN | MAX | | | | | | | | | | | |
| **04 | 208-1-60 | 187 | 253 | 14.1 | 84 | 275 | 1.5 | STD | 83% | 3.0 | 0.48 | 1 | 1.9 | |
| | | | | | | | | MED | 84% | 4.5 | | | | |
| | | | | | | | | HIGH | 89% | 6.1 | | | | |
| | 230-1-60 | 187 | 253 | 14.1 | 84 | 275 | 1.5 | 1.5 | STD | 83% | 3.0 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 84% | 4.5 | | | |
| | | | | | | | | | HIGH | 89% | 6.1 | | | |
| | 208-3-60 | 187 | 253 | 11.6 | 73 | 275 | 1.5 | 1.5 | STD | 83% | 3.0 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 84% | 4.5 | | | |
| | | | | | | | | | HIGH | 89% | 6.1 | | | |
| | 230-3-60 | 187 | 253 | 11.6 | 73 | 275 | 1.5 | 1.5 | STD | 83% | 3.0 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 84% | 4.5 | | | |
| | | | | | | | | | HIGH | 89% | 6.1 | | | |
| | 460-3-60 | 414 | 506 | 5.7 | 38 | 275 | 0.8 | 0.8 | STD | 85% | 0.8 | 0.25 | 1 | 1.0 |
| | | | | | | | | | MED | 85% | 1.2 | | | |
| | | | | | | | | | HIGH | 84% | 1.5 | | | |
| | 575-3-60 | 518 | 633 | 4.0 | 26 | 275 | 0.6 | 0.6 | STD | 84% | 0.8 | 0.24 | 1 | 1.9 |
| | | | | | | | | | MED | 84% | 1.1 | | | |
| | | | | | | | | | HIGH | 85% | 1.5 | | | |
| **05 | 208-1-60 | 187 | 253 | 20.4 | 122 | 275 | 1.5 | STD | 84% | 4.5 | 0.48 | 1 | 1.9 | |
| | | | | | | | | MED | 88% | 6.1 | | | | |
| | | | | | | | | HIGH | 84% | 8.8 | | | | |
| | 230-1-60 | 187 | 253 | 20.4 | 122 | 275 | 1.5 | 1.5 | STD | 84% | 4.5 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 88% | 6.1 | | | |
| | | | | | | | | | HIGH | 84% | 8.8 | | | |
| | 208-3-60 | 187 | 253 | 14.0 | 83 | 275 | 1.5 | 1.5 | STD | 84% | 4.5 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 88% | 6.1 | | | |
| | | | | | | | | | HIGH | 85% | 5.1 | | | |
| | 230-3-60 | 187 | 253 | 14.0 | 83 | 275 | 1.5 | 1.5 | STD | 84% | 4.5 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 88% | 6.1 | | | |
| | | | | | | | | | HIGH | 85% | 5.1 | | | |
| | 460-3-60 | 414 | 506 | 6.4 | 41 | 275 | 0.8 | 0.8 | STD | 85% | 1.2 | 0.25 | 1 | 1.0 |
| | | | | | | | | | MED | 86% | 1.5 | | | |
| | | | | | | | | | HIGH | 88% | 2.4 | | | |
| | 575-3-60 | 518 | 633 | 4.6 | 33 | 275 | 0.6 | 0.6 | STD | 84% | 1.1 | 0.24 | 1 | 1.9 |
| | | | | | | | | | MED | 85% | 1.5 | | | |
| | | | | | | | | | HIGH | 88% | 2.2 | | | |
| **06 | 208-1-60 | 187 | 253 | 22.9 | 147 | 275 | 1.5 | STD | 85% | 6.4 | 0.48 | 1 | 1.9 | |
| | | | | | | | | MED | 84% | 8.6 | | | | |
| | 230-1-60 | 187 | 253 | 22.9 | 147 | 275 | 1.5 | 1.5 | STD | 85% | 6.4 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 84% | 8.6 | | | |
| | 208-3-60 | 187 | 253 | 16.2 | 110 | 275 | 1.5 | 1.5 | STD | 85% | 6.4 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 84% | 8.6 | | | |
| | 230-3-60 | 187 | 253 | 16.2 | 110 | 275 | 1.5 | 1.5 | STD | 85% | 6.4 | 0.48 | 1 | 1.9 |
| | | | | | | | | | MED | 84% | 8.6 | | | |
| | 460-3-60 | 414 | 506 | 7.6 | 52 | 275 | 0.8 | 0.8 | STD | 86% | 1.5 | 0.25 | 1 | 1.0 |
| | | | | | | | | | MED | 86% | 1.9 | | | |
| | 575-3-60 | 518 | 633 | 5.3 | 39 | 275 | 0.6 | 0.6 | STD | 84% | 1.5 | 0.24 | 1 | 1.9 |
| | | | | | | | | | MED | 85% | 1.8 | | | |
| | | | | | | | | | HIGH | 87% | 2.5 | | | |



48GC04-06 MCA MOCP ELECTRICAL DATA**

| 48GC UNIT SIZE | NOM. V-PH-HZ | IFM TYPE | NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET | | | | | | | |
|-------------------|-----------------|----------|---|----------------------------|-----------------|-----|--------------------------------------|----------------------------|-----------------|-----|
| | | | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | MCA | FUSE OR HACR BREAKER | DISCONNECT SIZE | | MCA | FUSE OR HACR BREAKER | DISCONNECT SIZE | |
| | | | | | FLA | LRA | | | FLA | LRA |
| **04 | 208/230-1-60 | STD | 23 | 30 | 21 | 92 | 24 | 30 | 24 | 94 |
| | | MED | 24 | 30 | 23 | 94 | 26 | 30 | 25 | 96 |
| | | HIGH | 26 | 30 | 25 | 97 | 28 | 40 | 27 | 99 |
| | 208/230-3-60 | STD | 19 | 30 | 19 | 81 | 21 | 30 | 21 | 83 |
| | | MED | 21 | 30 | 20 | 83 | 23 | 30 | 22 | 85 |
| | | HIGH | 23 | 30 | 22 | 86 | 24 | 30 | 24 | 88 |
| | 460-3-60 | STD | 9 | 15 | 8 | 41 | 10 | 15 | 10 | 42 |
| | | MED | 10 | 15 | 9 | 42 | 11 | 15 | 10 | 43 |
| | | HIGH | 10 | 15 | 9 | 42 | 11 | 15 | 10 | 43 |
| | 575-3-60 | STD | 7 | 15 | 6 | 29 | 9 | 15 | 8 | 31 |
| | | MED | 7 | 15 | 7 | 30 | 9 | 15 | 9 | 32 |
| | | HIGH | 8 | 15 | 7 | 30 | 9 | 15 | 9 | 32 |
| **05 | 208/230-1-60 | STD | 32 | 50 | 30 | 132 | 34 | 50 | 33 | 134 |
| | | MED | 34 | 50 | 32 | 135 | 35 | 50 | 34 | 137 |
| | | HIGH | 36 | 50 | 35 | 138 | 38 | 50 | 37 | 140 |
| | 208/230-3-60 | STD | 24 | 30 | 23 | 93 | 26 | 30 | 25 | 95 |
| | | MED | 26 | 30 | 25 | 96 | 27 | 40 | 27 | 98 |
| | | HIGH | 25 | 30 | 24 | 94 | 26 | 30 | 26 | 96 |
| | 460-3-60 | STD | 10 | 15 | 10 | 45 | 11 | 15 | 11 | 46 |
| | | MED | 11 | 15 | 10 | 45 | 12 | 15 | 11 | 46 |
| | | HIGH | 12 | 15 | 11 | 46 | 13 | 15 | 12 | 47 |
| | 575-3-60 | STD | 8 | 15 | 7 | 37 | 10 | 15 | 9 | 39 |
| | | MED | 8 | 15 | 8 | 37 | 10 | 15 | 10 | 39 |
| | | HIGH | 9 | 15 | 9 | 38 | 11 | 15 | 11 | 40 |
| **06 | 208/230-1-60 | STD | 37 | 50 | 35 | 160 | 39 | 60 | 38 | 162 |
| | | MED | 39 | 60 | 38 | 163 | 41 | 60 | 40 | 165 |
| | 208/230-3-60 | STD | 29 | 40 | 28 | 123 | 31 | 45 | 30 | 125 |
| | | MED | 31 | 45 | 30 | 126 | 33 | 45 | 32 | 128 |
| | | HIGH | 29 | 40 | 28 | 123 | 31 | 45 | 30 | 125 |
| | 460-3-60 | STD | 12 | 15 | 11 | 56 | 13 | 20 | 13 | 57 |
| | | MED | 13 | 15 | 12 | 57 | 14 | 20 | 13 | 58 |
| | | HIGH | 14 | 20 | 13 | 58 | 15 | 20 | 14 | 59 |
| | 575-3-60 | STD | 9 | 15 | 9 | 43 | 11 | 15 | 11 | 45 |
| | | MED | 9 | 15 | 9 | 43 | 11 | 15 | 11 | 45 |
| | | HIGH | 10 | 15 | 10 | 45 | 12 | 15 | 12 | 47 |

Electrical data (cont)



48GC**04-06 MCA MOCP ELECTRICAL DATA (cont)

| 48GC UNIT SIZE | NOM. V-PH-HZ | IFM TYPE | w/ POWERED CONVENIENCE OUTLET | | | | | | | |
|-------------------|-----------------|----------|-------------------------------|----------------------------|-----------------|-----|--------------------------------------|----------------------------|-----------------|-----|
| | | | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | MCA | FUSE OR HACR BREAKER | DISCONNECT SIZE | | MCA | FUSE OR HACR BREAKER | DISCONNECT SIZE | |
| FLA | LRA | FLA | | | LRA | | | | | |
| **04 | 208/230-3-60 | STD | 24 | 30 | 24 | 86 | 26 | 30 | 26 | 88 |
| | | MED | 26 | 30 | 26 | 88 | 28 | 35 | 28 | 90 |
| | | HIGH | 27 | 30 | 28 | 91 | 29 | 40 | 30 | 93 |
| | 460-3-60 | STD | 11 | 15 | 11 | 43 | 12 | 15 | 12 | 44 |
| | | MED | 12 | 15 | 11 | 44 | 13 | 15 | 13 | 45 |
| | | HIGH | 12 | 15 | 12 | 44 | 13 | 15 | 13 | 45 |
| | 575-3-60 | STD | 9 | 15 | 8 | 31 | 10 | 15 | 10 | 33 |
| | | MED | 9 | 15 | 9 | 32 | 11 | 15 | 11 | 34 |
| | | HIGH | 9 | 15 | 9 | 32 | 11 | 15 | 11 | 34 |
| **05 | 208/230-3-60 | STD | 29 | 40 | 29 | 98 | 31 | 40 | 31 | 100 |
| | | MED | 30 | 40 | 30 | 101 | 32 | 45 | 33 | 103 |
| | | HIGH | 29 | 40 | 29 | 99 | 31 | 40 | 31 | 101 |
| | 460-3-60 | STD | 13 | 15 | 12 | 47 | 14 | 15 | 13 | 48 |
| | | MED | 13 | 15 | 13 | 47 | 14 | 20 | 14 | 48 |
| | | HIGH | 14 | 20 | 14 | 48 | 15 | 20 | 15 | 49 |
| | 575-3-60 | STD | 10 | 15 | 9 | 39 | 12 | 15 | 11 | 41 |
| | | MED | 10 | 15 | 10 | 39 | 12 | 15 | 12 | 41 |
| | | HIGH | 11 | 15 | 10 | 40 | 13 | 15 | 13 | 42 |
| **06 | 208/230-3-60 | STD | 33 | 45 | 33 | 128 | 35 | 50 | 35 | 130 |
| | | MED | 36 | 50 | 36 | 131 | 38 | 50 | 38 | 133 |
| | | HIGH | 33 | 45 | 33 | 128 | 35 | 50 | 35 | 130 |
| | 460-3-60 | STD | 14 | 20 | 14 | 58 | 15 | 20 | 15 | 59 |
| | | MED | 15 | 20 | 14 | 59 | 16 | 20 | 16 | 60 |
| | | HIGH | 16 | 20 | 16 | 60 | 17 | 20 | 17 | 61 |
| | 575-3-60 | STD | 11 | 15 | 10 | 45 | 13 | 15 | 13 | 47 |
| | | MED | 11 | 15 | 11 | 45 | 13 | 15 | 13 | 47 |
| | | HIGH | 12 | 15 | 12 | 47 | 14 | 15 | 14 | 49 |



48GC04-06 MCA MOCP ELECTRICAL DATA WITH FACTORY-INSTALLED HACR BREAKER**

| 48GC UNIT SIZE | NOM. V-PH-HZ | IFM TYPE | NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET | | | | | | | | |
|-------------------|-----------------|----------|---|-----------------|-----------------|-----|--------------------------------------|-----------------|-----------------|-----|----|
| | | | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | | |
| | | | MCA | HACR BREAKER | DISCONNECT SIZE | | MCA | HACR BREAKER | DISCONNECT SIZE | | |
| | | | | | FLA | LRA | | | FLA | LRA | |
| **04 | 208/230-1-60 | STD | 23 | 30 | 21 | 92 | 24 | 30 | 24 | 94 | |
| | | MED | 24 | 30 | 23 | 94 | 26 | 30 | 25 | 96 | |
| | | HIGH | 26 | 30 | 25 | 97 | 28 | 40 | 27 | 99 | |
| | 208/230-3-60 | STD | 19 | 30 | 19 | 81 | 21 | 30 | 21 | 83 | |
| | | MED | 21 | 30 | 20 | 83 | 23 | 30 | 22 | 85 | |
| | | HIGH | 23 | 30 | 22 | 86 | 24 | 30 | 24 | 88 | |
| | 460-3-60 | STD | 9 | 15 | 8 | 41 | 10 | 15 | 10 | 42 | |
| | | MED | 10 | 15 | 9 | 42 | 11 | 15 | 10 | 43 | |
| | | HIGH | 10 | 15 | 9 | 42 | 11 | 15 | 10 | 43 | |
| | 575-3-60 | STD | 7 | 15 | 6 | 29 | 9 | 15 | 8 | 31 | |
| | | MED | 7 | 15 | 7 | 30 | 9 | 15 | 9 | 32 | |
| | | HIGH | 8 | 15 | 7 | 30 | 9 | 15 | 9 | 32 | |
| **05 | 208/230-1-60 | STD | 32 | 50 | 30 | 132 | 34 | 50 | 33 | 134 | |
| | | MED | 34 | 50 | 32 | 135 | 35 | 50 | 34 | 137 | |
| | | HIGH | 36 | 50 | 35 | 138 | 38 | 50 | 37 | 140 | |
| | 208/230-3-60 | STD | 24 | 30 | 23 | 93 | 26 | 30 | 25 | 95 | |
| | | MED | 26 | 30 | 25 | 96 | 27 | 40 | 27 | 98 | |
| | | HIGH | 25 | 30 | 24 | 94 | 26 | 30 | 26 | 96 | |
| | 460-3-60 | STD | 10 | 15 | 10 | 45 | 11 | 15 | 11 | 46 | |
| | | MED | 11 | 15 | 10 | 45 | 12 | 15 | 11 | 46 | |
| | | HIGH | 12 | 15 | 11 | 46 | 13 | 15 | 12 | 47 | |
| | 575-3-60 | STD | 8 | 15 | 7 | 37 | 10 | 15 | 9 | 39 | |
| | | MED | 8 | 15 | 8 | 37 | 10 | 15 | 10 | 39 | |
| | | HIGH | 9 | 15 | 9 | 38 | 11 | 15 | 11 | 40 | |
| **06 | 208/230-1-60 | STD | 37 | 50 | 35 | 160 | 39 | 60 | 38 | 162 | |
| | | MED | 39 | 60 | 38 | 163 | 41 | 60 | 40 | 165 | |
| | 208/230-3-60 | STD | 29 | 40 | 28 | 123 | 31 | 45 | 30 | 125 | |
| | | MED | 31 | 45 | 30 | 126 | 33 | 45 | 32 | 128 | |
| | 460-3-60 | HIGH | 29 | 40 | 28 | 123 | 31 | 45 | 30 | 125 | |
| | | STD | 12 | 15 | 11 | 56 | 13 | 20 | 13 | 57 | |
| | | MED | 13 | 15 | 12 | 57 | 14 | 20 | 13 | 58 | |
| | 575-3-60 | HIGH | 14 | 20 | 13 | 58 | 15 | 20 | 14 | 59 | |
| | | STD | 9 | 15 | 9 | 43 | 11 | 15 | 11 | 45 | |
| | | MED | 9 | 15 | 9 | 43 | 11 | 15 | 11 | 45 | |
| | | | HIGH | 10 | 15 | 10 | 45 | 12 | 15 | 12 | 47 |

Electrical data (cont)



48GC**04-06 MCA MOCP ELECTRICAL DATA WITH FACTORY-INSTALLED HACR BREAKER (cont)

| 48GC UNIT SIZE | NOM. V-PH-HZ | IFM TYPE | w/ POWERED CONVENIENCE OUTLET | | | | | | | |
|-------------------|-----------------|----------|-------------------------------|-----------------|-----------------|-----|--------------------------------------|-----------------|-----------------|-----|
| | | | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | MCA | HACR BREAKER | DISCONNECT SIZE | | MCA | HACR BREAKER | DISCONNECT SIZE | |
| | | | | | FLA | LRA | | | FLA | LRA |
| **04 | 208/230-3-60 | STD | 24 | 30 | 24 | 86 | 26 | 30 | 26 | 88 |
| | | MED | 26 | 30 | 26 | 88 | 28 | 35 | 28 | 90 |
| | | HIGH | 27 | 30 | 28 | 91 | 29 | 40 | 30 | 93 |
| | 460-3-60 | STD | 11 | 15 | 11 | 43 | 12 | 15 | 12 | 44 |
| | | MED | 12 | 15 | 11 | 44 | 13 | 15 | 13 | 45 |
| | | HIGH | 12 | 15 | 12 | 44 | 13 | 15 | 13 | 45 |
| | 575-3-60 | STD | 9 | 15 | 8 | 31 | 10 | 15 | 10 | 33 |
| | | MED | 9 | 15 | 9 | 32 | 11 | 15 | 11 | 34 |
| | | HIGH | 9 | 15 | 9 | 32 | 11 | 15 | 11 | 34 |
| **05 | 208/230-3-60 | STD | 29 | 40 | 29 | 98 | 31 | 40 | 31 | 100 |
| | | MED | 30 | 40 | 30 | 101 | 32 | 45 | 33 | 103 |
| | | HIGH | 29 | 40 | 29 | 99 | 31 | 40 | 31 | 101 |
| | 460-3-60 | STD | 13 | 15 | 12 | 47 | 14 | 15 | 13 | 48 |
| | | MED | 13 | 15 | 13 | 47 | 14 | 20 | 14 | 48 |
| | | HIGH | 14 | 20 | 14 | 48 | 15 | 20 | 15 | 49 |
| | 575-3-60 | STD | 10 | 15 | 9 | 39 | 12 | 15 | 11 | 41 |
| | | MED | 10 | 15 | 10 | 39 | 12 | 15 | 12 | 41 |
| | | HIGH | 11 | 15 | 10 | 40 | 13 | 15 | 13 | 42 |
| **06 | 208/230-3-60 | STD | 33 | 45 | 33 | 128 | 35 | 50 | 35 | 130 |
| | | MED | 36 | 50 | 36 | 131 | 38 | 50 | 38 | 133 |
| | | HIGH | 33 | 45 | 33 | 128 | 35 | 50 | 35 | 130 |
| | 460-3-60 | STD | 14 | 20 | 14 | 58 | 15 | 20 | 15 | 59 |
| | | MED | 15 | 20 | 14 | 59 | 16 | 20 | 16 | 60 |
| | | HIGH | 16 | 20 | 16 | 60 | 17 | 20 | 17 | 61 |
| | 575-3-60 | STD | 11 | 15 | 10 | 45 | 13 | 15 | 13 | 47 |
| | | MED | 11 | 15 | 11 | 45 | 13 | 15 | 13 | 47 |
| | | HIGH | 12 | 15 | 12 | 47 | 14 | 15 | 14 | 49 |



50GC**04 MCA MOCP ELECTRICAL DATA

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | NO CONVENIENCE OUTLET or UNPOWERED CONVENIENCE OUTLET | | | | | | | | | |
|----------------|--------------|----------|-----------------|-----------|-----------|---|-------------------|-----------------|-------|--------------------------------------|-------------------|-----------------|---------|----|----|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | | | |
| | | | | | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | | |
| | | | | | | | | FLA | LRA | | | FLA | LRA | | |
| **04 | 208/230-1-60 | STD | NONE | — | — | 23 | 30 | 22 | 93 | 25 | 30 | 24 | 95 | | |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 25/28 | 30/30 | 22/25 | 93/93 | 27/30 | 30/30 | 24/27 | 95/95 | | |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 34/39 | 35/40 | 31/35 | 93/93 | 36/41 | 40/45 | 33/37 | 95/95 | | |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 44/50 | 45/50 | 40/46 | 93/93 | 46/52 | 50/60 | 42/48 | 95/95 | | |
| | | | 326A | 7.9/10.5 | 37.9/43.8 | 52/59 | 60/60 | 47/54 | 93/93 | 54/62 | 60/70 | 50/56 | 95/95 | | |
| | | 327A | 9.8/13.0 | 46.9/54.2 | 63/72 | 70/80 | 58/66 | 93/93 | 66/75 | 70/80 | 60/68 | 95/95 | | | |
| | | MED | NONE | — | — | 25 | 30 | 24 | 95 | 27 | 30 | 26 | 97 | | |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 27/30 | 30/30 | 24/27 | 95/95 | 29/32 | 30/40 | 26/29 | 97/97 | | |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 36/41 | 40/45 | 33/37 | 95/95 | 39/43 | 40/45 | 35/39 | 97/97 | | |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 46/52 | 50/60 | 42/48 | 95/95 | 48/55 | 50/60 | 44/50 | 97/97 | | |
| | | | 326A | 7.9/10.5 | 37.9/43.8 | 54/62 | 60/70 | 49/56 | 95/95 | 57/64 | 60/70 | 52/58 | 97/97 | | |
| | | 327A | 9.8/13.0 | 46.9/54.2 | 65/75 | 70/80 | 60/68 | 95/95 | 68/77 | 70/80 | 62/70 | 97/97 | | | |
| | | HIGH | NONE | — | — | 27 | 30 | 26 | 98 | 29 | 40 | 29 | 100 | | |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 29/32 | 30/40 | 27/29 | 98/98 | 32/35 | 40/40 | 29/32 | 100/100 | | |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 39/43 | 40/45 | 35/40 | 98/98 | 41/46 | 45/50 | 38/42 | 100/100 | | |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 49/55 | 50/60 | 45/50 | 98/98 | 51/57 | 60/60 | 47/52 | 100/100 | | |
| | | | 326A | 7.9/10.5 | 37.9/43.8 | 57/64 | 60/70 | 52/59 | 98/98 | 59/67 | 60/70 | 54/61 | 100/100 | | |
| | | 327A | 9.8/13.0 | 46.9/54.2 | 68/77 | 70/80 | 62/71 | 98/98 | 71/80 | 80/80 | 65/73 | 100/100 | | | |
| **04 | 208/230-3-60 | STD | NONE | — | — | 20 | 30 | 19 | 82 | 22 | 30 | 21 | 84 | | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 20/20 | 30/30 | 19/19 | 82/82 | 22/22 | 30/30 | 21/21 | 84/84 | | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 22/24 | 30/30 | 20/22 | 82/82 | 24/27 | 30/30 | 22/24 | 84/84 | | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 27/31 | 30/35 | 25/28 | 82/82 | 30/33 | 30/35 | 27/30 | 84/84 | | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 32/36 | 35/40 | 29/33 | 82/82 | 34/39 | 35/40 | 31/35 | 84/84 | | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 46/53 | 50/60 | 42/48 | 82/82 | 49/55 | 50/60 | 45/50 | 84/84 | | | |
| | | MED | NONE | — | — | 22 | 30 | 21 | 84 | 23 | 30 | 23 | 86 | | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 22/22 | 30/30 | 21/21 | 84/84 | 23/23 | 30/30 | 23/23 | 86/86 | | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 24/26 | 30/30 | 22/24 | 84/84 | 26/29 | 30/30 | 24/26 | 86/86 | | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 29/33 | 30/35 | 27/30 | 84/84 | 32/35 | 35/35 | 29/32 | 86/86 | | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 34/38 | 35/40 | 31/35 | 84/84 | 37/41 | 40/45 | 33/37 | 86/86 | | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 49/55 | 50/60 | 44/50 | 84/84 | 51/57 | 60/60 | 46/52 | 86/86 | | | |
| | | HIGH | NONE | — | — | 24 | 30 | 23 | 87 | 26 | 30 | 26 | 89 | | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 24/24 | 30/30 | 23/23 | 87/87 | 26/26 | 30/30 | 26/26 | 89/89 | | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 27/29 | 30/30 | 24/26 | 87/87 | 29/31 | 30/35 | 26/29 | 89/89 | | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 32/36 | 35/40 | 29/32 | 87/87 | 35/38 | 35/40 | 31/35 | 89/89 | | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 37/41 | 40/45 | 34/37 | 87/87 | 39/44 | 40/45 | 36/40 | 89/89 | | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 51/58 | 60/60 | 47/53 | 87/87 | 54/60 | 60/60 | 49/55 | 89/89 | | | |
| **04 | 460-3-60 | STD | NONE | — | — | 9 | 15 | 9 | 41 | 10 | 15 | 10 | 42 | | |
| | | | 333A | 6.0 | 7.2 | 11 | 15 | 9 | 41 | 12 | 15 | 10 | 42 | | |
| | | | 334A | 8.8 | 10.6 | 15 | 15 | 13 | 41 | 16 | 20 | 14 | 42 | | |
| | | | 335A | 11.5 | 13.8 | 19 | 20 | 17 | 41 | 20 | 20 | 18 | 42 | | |
| | | | 336A | 14.0 | 16.8 | 23 | 25 | 20 | 41 | 24 | 25 | 22 | 42 | | |
| | | MED | NONE | — | — | 10 | 15 | 9 | 42 | 11 | 15 | 10 | 43 | | |
| | | | 333A | 6.0 | 7.2 | 11 | 15 | 10 | 42 | 12 | 15 | 11 | 43 | | |
| | | | 334A | 8.8 | 10.6 | 15 | 15 | 14 | 42 | 16 | 20 | 15 | 43 | | |
| | | | 335A | 11.5 | 13.8 | 19 | 20 | 17 | 42 | 20 | 25 | 18 | 43 | | |
| | | | 336A | 14.0 | 16.8 | 23 | 25 | 21 | 42 | 24 | 25 | 22 | 43 | | |
| | | HIGH | NONE | — | — | 10 | 15 | 9 | 42 | 11 | 15 | 10 | 43 | | |
| | | | 333A | 6.0 | 7.2 | 11 | 15 | 10 | 42 | 13 | 15 | 11 | 43 | | |
| | | | 334A | 8.8 | 10.6 | 16 | 20 | 14 | 42 | 17 | 20 | 15 | 43 | | |
| | | | 335A | 11.5 | 13.8 | 20 | 20 | 18 | 42 | 21 | 25 | 19 | 43 | | |
| | | | 336A | 14.0 | 16.8 | 23 | 25 | 21 | 42 | 25 | 25 | 22 | 43 | | |
| | | **04 | 575-3-60 | STD | NONE | — | — | 7 | 15 | 6 | 29 | 9 | 15 | 8 | 31 |
| | | | | | 339A | 10.0 | 9.6 | 13 | 15 | 12 | 29 | 16 | 20 | 14 | 31 |
| | | | | | 340A | 15.0 | 14.4 | 19 | 20 | 17 | 29 | 22 | 25 | 20 | 31 |
| MED | NONE | | | — | — | 7 | 15 | 7 | 30 | 9 | 15 | 9 | 32 | | |
| | 339A | | | 10.0 | 9.6 | 14 | 15 | 12 | 30 | 16 | 20 | 14 | 32 | | |
| | 340A | | | 15.0 | 14.4 | 20 | 20 | 18 | 30 | 22 | 25 | 20 | 32 | | |
| HIGH | NONE | | | — | — | 8 | 15 | 7 | 30 | 9 | 15 | 9 | 32 | | |
| | 339A | | | 10.0 | 9.6 | 14 | 15 | 13 | 30 | 17 | 20 | 15 | 32 | | |
| | 340A | | | 15.0 | 14.4 | 20 | 20 | 18 | 30 | 23 | 25 | 20 | 32 | | |

50GC**04 MCA MOCP ELECTRICAL DATA (cont)

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | w/ POWERED CONVENIENCE OUTLET | | | | | | | | |
|----------------|--------------|----------|-----------------|-----------|-----------|-------------------------------|-------------------|-----------------|-------|--------------------------------------|-------------------|-----------------|-------|----|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | | |
| | | | | | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | |
| | | | | | | | FLA | LRA | | | FLA | LRA | | |
| **04 | 208/230-3-60 | STD | NONE | — | — | 25 | 30 | 24 | 87 | 27 | 30 | 27 | 89 | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 25/25 | 30/30 | 24/24 | 87/87 | 27/27 | 30/30 | 27/27 | 89/89 | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 28/30 | 30/30 | 25/27 | 87/87 | 30/33 | 30/35 | 27/30 | 89/89 | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 33/37 | 35/40 | 30/33 | 87/87 | 36/39 | 40/40 | 32/36 | 89/89 | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 38/42 | 40/45 | 35/39 | 87/87 | 40/45 | 45/45 | 37/41 | 89/89 | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 52/59 | 60/60 | 48/54 | 87/87 | 55/61 | 60/70 | 50/56 | 89/89 | | |
| | | MED | NONE | — | — | 26 | 30 | 26 | 89 | 28 | 35 | 29 | 91 | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 26/26 | 30/30 | 26/26 | 89/89 | 28/28 | 35/35 | 29/29 | 91/91 | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 30/32 | 30/35 | 27/29 | 89/89 | 32/35 | 35/35 | 29/32 | 91/91 | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 35/39 | 40/40 | 32/35 | 89/89 | 38/41 | 40/45 | 34/38 | 91/91 | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 40/44 | 40/45 | 37/40 | 89/89 | 43/47 | 45/50 | 39/43 | 91/91 | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 55/61 | 60/70 | 50/56 | 89/89 | 57/63 | 60/70 | 52/58 | 91/91 | | |
| | | HIGH | NONE | — | — | 29 | 35 | 29 | 92 | 30 | 40 | 31 | 94 | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 29/29 | 35/35 | 29/29 | 92/92 | 30/31 | 40/40 | 31/31 | 94/94 | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 33/35 | 35/35 | 30/32 | 92/92 | 35/37 | 40/40 | 32/34 | 94/94 | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 38/42 | 40/45 | 35/38 | 92/92 | 41/44 | 45/45 | 37/40 | 94/94 | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 43/47 | 45/50 | 39/43 | 92/92 | 45/50 | 45/50 | 41/45 | 94/94 | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 57/64 | 60/70 | 52/58 | 92/92 | 60/66 | 60/70 | 55/60 | 94/94 | | |
| | 460-3-60 | STD | NONE | — | — | 11 | 15 | 11 | 43 | 12 | 15 | 12 | 44 | |
| | | | 333A | 6.0 | 7.2 | 13 | 15 | 12 | 43 | 15 | 15 | 13 | 44 | |
| | | | 334A | 8.8 | 10.6 | 18 | 20 | 16 | 43 | 19 | 20 | 17 | 44 | |
| | | | 335A | 11.5 | 13.8 | 22 | 25 | 19 | 43 | 23 | 25 | 21 | 44 | |
| | | | 336A | 14.0 | 16.8 | 25 | 25 | 23 | 43 | 27 | 30 | 24 | 44 | |
| | | MED | NONE | — | — | 12 | 15 | 11 | 44 | 13 | 15 | 13 | 45 | |
| | | | 333A | 6.0 | 7.2 | 14 | 15 | 12 | 44 | 15 | 15 | 13 | 45 | |
| | | | 334A | 8.8 | 10.6 | 18 | 20 | 16 | 44 | 19 | 20 | 17 | 45 | |
| | | | 335A | 11.5 | 13.8 | 22 | 25 | 20 | 44 | 23 | 25 | 21 | 45 | |
| | | | 336A | 14.0 | 16.8 | 26 | 30 | 23 | 44 | 27 | 30 | 24 | 45 | |
| | | HIGH | NONE | — | — | 12 | 15 | 12 | 44 | 13 | 15 | 13 | 45 | |
| | | | 333A | 6.0 | 7.2 | 14 | 15 | 13 | 44 | 15 | 15 | 14 | 45 | |
| | | | 334A | 8.8 | 10.6 | 18 | 20 | 16 | 44 | 20 | 20 | 18 | 45 | |
| | | | 335A | 11.5 | 13.8 | 22 | 25 | 20 | 44 | 24 | 25 | 21 | 45 | |
| | | | 336A | 14.0 | 16.8 | 26 | 30 | 24 | 44 | 27 | 30 | 25 | 45 | |
| | | 575-3-60 | STD | NONE | — | — | 9 | 15 | 8 | 31 | 10 | 15 | 10 | 33 |
| | | | | 339A | 10.0 | 9.6 | 16 | 20 | 14 | 31 | 18 | 20 | 16 | 33 |
| | | | | 340A | 15.0 | 14.4 | 22 | 25 | 19 | 31 | 24 | 25 | 22 | 33 |
| MED | NONE | | — | — | 9 | 15 | 9 | 32 | 11 | 15 | 11 | 34 | | |
| | 339A | | 10.0 | 9.6 | 16 | 20 | 14 | 32 | 18 | 20 | 16 | 34 | | |
| | 340A | | 15.0 | 14.4 | 22 | 25 | 20 | 32 | 24 | 25 | 22 | 34 | | |
| HIGH | NONE | | — | — | 9 | 15 | 9 | 32 | 11 | 15 | 11 | 34 | | |
| | 339A | | 10.0 | 9.6 | 16 | 20 | 15 | 32 | 19 | 20 | 17 | 34 | | |
| | 340A | | 15.0 | 14.4 | 22 | 25 | 20 | 32 | 25 | 25 | 22 | 34 | | |
| | 340A | | 15.0 | 14.4 | 22 | 25 | 20 | 32 | 25 | 25 | 22 | 34 | | |



50GC04 MCA MOCPELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER**

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | NO CONVENIENCE OUTLET or UNPOWERED CONVENIENCE OUTLET | | | | | | | |
|----------------------|-----------------|-------------|--------------------|-------------|-----------|---|--------------|-----------------|-------|--------------------------------------|--------------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | HACR BRKR | DISCONNECT SIZE | | MCA | HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **04 | 208/230-1-60 | STD | NONE | — | — | 23 | 30 | 22 | 93 | 25 | 30 | 24 | 95 |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 28/28 | 30/30 | 22/25 | 93/93 | 30/30 | 30/30 | 24/27 | 95/95 |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 39/39 | 40/40 | 31/35 | 93/93 | 41/41 | 45/45 | 33/37 | 95/95 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 50/50 | 50/50 | 40/46 | 93/93 | 52/52 | 60/60 | 42/48 | 95/95 |
| | | | 326A | 7.9/10.5 | 37.9/43.8 | 59/59 | 60/60 | 47/54 | 93/93 | 62/62 | 70/70 | 50/56 | 95/95 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 72/72 | 80/80 | 58/66 | 93/93 | 75/75 | 80/80 | 60/68 | 95/95 |
| | | MED | NONE | — | — | 25 | 30 | 24 | 95 | 27 | 30 | 26 | 97 |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 30/30 | 30/30 | 24/27 | 95/95 | 32/32 | 40/40 | 26/29 | 97/97 |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 41/41 | 45/45 | 33/37 | 95/95 | 43/43 | 45/45 | 35/39 | 97/97 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 52/52 | 60/60 | 42/48 | 95/95 | 55/55 | 60/60 | 44/50 | 97/97 |
| | | | 326A | 7.9/10.5 | 37.9/43.8 | 62/62 | 70/70 | 49/56 | 95/95 | 64/64 | 70/70 | 52/58 | 97/97 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 75/75 | 80/80 | 60/68 | 95/95 | 77/77 | 80/80 | 62/70 | 97/97 |
| | | HIGH | NONE | — | — | 27 | 30 | 26 | 98 | 29 | 40 | 29 | 100 |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 32/32 | 40/40 | 27/29 | 98/98 | 35/35 | 40/40 | 29/32 | 100/100 |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 43/43 | 45/45 | 35/40 | 98/98 | 46/46 | 50/50 | 38/42 | 100/100 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 55/55 | 60/60 | 45/50 | 98/98 | 57/57 | 60/60 | 47/52 | 100/100 |
| | | | 326A | 7.9/10.5 | 37.9/43.8 | 64/64 | 70/70 | 52/59 | 98/98 | 67/67 | 70/70 | 54/61 | 100/100 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 77/77 | 80/80 | 62/71 | 98/98 | 80/80 | 80/80 | 65/73 | 100/100 |
| | 208/230-3-60 | STD | NONE | — | — | 20 | 30 | 19 | 82 | 22 | 30 | 21 | 84 |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 20/20 | 30/30 | 19/19 | 82/82 | 22/22 | 30/30 | 21/21 | 84/84 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 24/24 | 30/30 | 20/22 | 82/82 | 27/27 | 30/30 | 22/24 | 84/84 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 31/31 | 35/35 | 25/28 | 82/82 | 33/33 | 35/35 | 27/30 | 84/84 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 36/36 | 40/40 | 29/33 | 82/82 | 39/39 | 40/40 | 31/35 | 84/84 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 53/53 | 60/60 | 42/48 | 82/82 | 55/55 | 60/60 | 45/50 | 84/84 |
| | | MED | NONE | — | — | 22 | 30 | 21 | 84 | 23 | 30 | 23 | 86 |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 22/22 | 30/30 | 21/21 | 84/84 | 23/23 | 30/30 | 23/23 | 86/86 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 26/26 | 30/30 | 22/24 | 84/84 | 29/29 | 30/30 | 24/26 | 86/86 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 33/33 | 35/35 | 27/30 | 84/84 | 35/35 | 35/35 | 29/32 | 86/86 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 38/38 | 40/40 | 31/35 | 84/84 | 41/41 | 45/45 | 33/37 | 86/86 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 55/55 | 60/60 | 44/50 | 84/84 | 57/57 | 60/60 | 46/52 | 86/86 |
| | | HIGH | NONE | — | — | 24 | 30 | 23 | 87 | 26 | 30 | 26 | 89 |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 24/24 | 30/30 | 23/23 | 87/87 | 26/26 | 30/30 | 26/26 | 89/89 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 29/29 | 30/30 | 24/26 | 87/87 | 31/31 | 35/35 | 26/29 | 89/89 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 36/36 | 40/40 | 29/32 | 87/87 | 38/38 | 40/40 | 31/35 | 89/89 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 41/41 | 45/45 | 34/37 | 87/87 | 44/44 | 45/45 | 36/40 | 89/89 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 58/58 | 60/60 | 47/53 | 87/87 | 60/60 | 60/60 | 49/55 | 89/89 |
| | 460-3-60 | STD | NONE | — | — | 9 | 15 | 9 | 41 | 10 | 15 | 10 | 42 |
| | | | 333A | 6.0 | 7.2 | 11 | 15 | 9 | 41 | 12 | 15 | 10 | 42 |
| | | | 334A | 8.8 | 10.6 | 15 | 15 | 13 | 41 | 16 | 20 | 14 | 42 |
| | | | 335A | 11.5 | 13.8 | 19 | 20 | 17 | 41 | 20 | 20 | 18 | 42 |
| | | | 336A | 14.0 | 16.8 | 23 | 25 | 20 | 41 | 24 | 25 | 22 | 42 |
| | | | NONE | — | — | 10 | 15 | 9 | 42 | 11 | 15 | 10 | 43 |
| | | MED | 333A | 6.0 | 7.2 | 11 | 15 | 10 | 42 | 12 | 15 | 11 | 43 |
| | | | 334A | 8.8 | 10.6 | 15 | 15 | 14 | 42 | 16 | 20 | 15 | 43 |
| | | | 335A | 11.5 | 13.8 | 19 | 20 | 17 | 42 | 20 | 25 | 18 | 43 |
| | | | 336A | 14.0 | 16.8 | 23 | 25 | 21 | 42 | 24 | 25 | 22 | 43 |
| | | | NONE | — | — | 10 | 15 | 9 | 42 | 11 | 15 | 10 | 43 |
| | | | 333A | 6.0 | 7.2 | 11 | 15 | 10 | 42 | 13 | 15 | 11 | 43 |
| HIGH | | 334A | 8.8 | 10.6 | 16 | 20 | 14 | 42 | 17 | 20 | 15 | 43 | |
| | | 335A | 11.5 | 13.8 | 20 | 20 | 18 | 42 | 21 | 25 | 19 | 43 | |
| | | 336A | 14.0 | 16.8 | 23 | 25 | 21 | 42 | 25 | 25 | 22 | 43 | |
| | | NONE | — | — | 7 | 15 | 6 | 29 | 9 | 15 | 8 | 31 | |
| | | 339A | 10.0 | 9.6 | 13 | 15 | 12 | 29 | 16 | 20 | 14 | 31 | |
| | | 340A | 15.0 | 14.4 | 19 | 20 | 17 | 29 | 22 | 25 | 20 | 31 | |
| 575-3-60 | STD | NONE | — | — | 7 | 15 | 7 | 30 | 9 | 15 | 9 | 32 | |
| | | 339A | 10.0 | 9.6 | 14 | 15 | 12 | 30 | 16 | 20 | 14 | 32 | |
| | | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 30 | 22 | 25 | 20 | 32 | |
| | MED | NONE | — | — | 8 | 15 | 7 | 30 | 9 | 15 | 9 | 32 | |
| | | 339A | 10.0 | 9.6 | 14 | 15 | 12 | 30 | 16 | 20 | 14 | 32 | |
| | | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 30 | 22 | 25 | 20 | 32 | |
| HIGH | NONE | — | — | 8 | 15 | 7 | 30 | 9 | 15 | 9 | 32 | | |
| | 339A | 10.0 | 9.6 | 14 | 15 | 13 | 30 | 17 | 20 | 15 | 32 | | |
| | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 30 | 23 | 25 | 20 | 32 | | |

50GC**04 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER (cont)

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | w/ POWERED CONVENIENCE OUTLET | | | | | | | | |
|----------------------|-----------------|-------------|--------------------|-------------|-----------|-------------------------------|--------------|-----------------|-------|--------------------------------------|--------------|-----------------|-------|----|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | | |
| | | | | | | MCA | HACR BRKR | DISCONNECT SIZE | | MCA | HACR BRKR | DISCONNECT SIZE | | |
| | | | | | | | | FLA | LRA | | | FLA | LRA | |
| **04 | 208/230-3-60 | STD | NONE | — | — | 25 | 30 | 24 | 87 | 27 | 30 | 27 | 89 | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 25/25 | 30/30 | 24/24 | 87/87 | 27/27 | 30/30 | 27/27 | 89/89 | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 30/30 | 30/30 | 25/27 | 87/87 | 33/33 | 35/35 | 27/30 | 89/89 | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 37/37 | 40/40 | 30/33 | 87/87 | 39/39 | 40/40 | 32/36 | 89/89 | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 42/42 | 45/45 | 35/39 | 87/87 | 45/45 | 45/45 | 37/41 | 89/89 | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 59/59 | 60/60 | 48/54 | 87/87 | 61/61 | 70/70 | 50/56 | 89/89 | | |
| | | MED | NONE | — | — | 26 | 30 | 26 | 89 | 28 | 35 | 29 | 91 | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 26/26 | 30/30 | 26/26 | 89/89 | 28/28 | 35/35 | 29/29 | 91/91 | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 32/32 | 35/35 | 27/29 | 89/89 | 35/35 | 35/35 | 29/32 | 91/91 | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 39/39 | 40/40 | 32/35 | 89/89 | 41/41 | 45/45 | 34/38 | 91/91 | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 44/44 | 45/45 | 37/40 | 89/89 | 47/47 | 50/50 | 39/43 | 91/91 | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 61/61 | 70/70 | 50/56 | 89/89 | 63/63 | 70/70 | 52/58 | 91/91 | | |
| | | HIGH | NONE | — | — | 29 | 35 | 29 | 92 | 30 | 40 | 31 | 94 | |
| | | | 323A | 3.3/4.4 | 9.2/10.6 | 29/29 | 35/35 | 29/29 | 92/92 | 31/31 | 40/40 | 31/31 | 94/94 | |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 35/35 | 35/35 | 30/32 | 92/92 | 37/37 | 40/40 | 32/34 | 94/94 | |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 42/42 | 45/45 | 35/38 | 92/92 | 44/44 | 45/45 | 37/40 | 94/94 | |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 47/47 | 50/50 | 39/43 | 92/92 | 50/50 | 50/50 | 41/45 | 94/94 | |
| | | 328A | 12.0/16.0 | 33.4/38.5 | 64/64 | 70/70 | 52/58 | 92/92 | 66/66 | 70/70 | 55/60 | 94/94 | | |
| | | 460-3-60 | STD | NONE | — | — | 11 | 15 | 11 | 43 | 12 | 15 | 12 | 44 |
| | | | | 333A | 6.0 | 7.2 | 13 | 15 | 12 | 43 | 15 | 15 | 13 | 44 |
| | | | | 334A | 8.8 | 10.6 | 18 | 20 | 16 | 43 | 19 | 20 | 17 | 44 |
| | | | | 335A | 11.5 | 13.8 | 22 | 25 | 19 | 43 | 23 | 25 | 21 | 44 |
| | | | | 336A | 14.0 | 16.8 | 25 | 25 | 23 | 43 | 27 | 30 | 24 | 44 |
| | | | MED | NONE | — | — | 12 | 15 | 11 | 44 | 13 | 15 | 13 | 45 |
| | 333A | | | 6.0 | 7.2 | 14 | 15 | 12 | 44 | 15 | 15 | 13 | 45 | |
| | 334A | | | 8.8 | 10.6 | 18 | 20 | 16 | 44 | 19 | 20 | 17 | 45 | |
| | 335A | | | 11.5 | 13.8 | 22 | 25 | 20 | 44 | 23 | 25 | 21 | 45 | |
| | 336A | | | 14.0 | 16.8 | 26 | 30 | 23 | 44 | 27 | 30 | 24 | 45 | |
| | HIGH | | NONE | — | — | 12 | 15 | 12 | 44 | 13 | 15 | 13 | 45 | |
| | | | 333A | 6.0 | 7.2 | 14 | 15 | 13 | 44 | 15 | 15 | 14 | 45 | |
| | | | 334A | 8.8 | 10.6 | 18 | 20 | 16 | 44 | 20 | 20 | 18 | 45 | |
| | | | 335A | 11.5 | 13.8 | 22 | 25 | 20 | 44 | 24 | 25 | 21 | 45 | |
| | | | 336A | 14.0 | 16.8 | 26 | 30 | 24 | 44 | 27 | 30 | 25 | 45 | |
| | 575-3-60 | | STD | NONE | — | — | 9 | 15 | 8 | 31 | 10 | 15 | 10 | 33 |
| | | | | 339A | 10.0 | 9.6 | 16 | 20 | 14 | 31 | 18 | 20 | 16 | 33 |
| | | | | 340A | 15.0 | 14.4 | 22 | 25 | 19 | 31 | 24 | 25 | 22 | 33 |
| | | | MED | NONE | — | — | 9 | 15 | 9 | 32 | 11 | 15 | 11 | 34 |
| | | | | 339A | 10.0 | 9.6 | 16 | 20 | 14 | 32 | 18 | 20 | 16 | 34 |
| | | | | 340A | 15.0 | 14.4 | 22 | 25 | 20 | 32 | 24 | 25 | 22 | 34 |
| | | | HIGH | NONE | — | — | 9 | 15 | 9 | 32 | 11 | 15 | 11 | 34 |
| | | | | 339A | 10.0 | 9.6 | 16 | 20 | 15 | 32 | 19 | 20 | 17 | 34 |
| | | | | 340A | 15.0 | 14.4 | 22 | 25 | 20 | 32 | 25 | 25 | 22 | 34 |
| | | 340A | | 15.0 | 14.4 | 22 | 25 | 20 | 32 | 25 | 25 | 22 | 34 | |



50GC**05 MCA MOCP ELECTRICAL DATA

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | NO CONVENIENCE OUTLET or UNPOWERED CONVENIENCE OUTLET | | | | | | | |
|----------------------|-----------------|-------------|--------------------|-------------|-----------|---|----------------------------|-----------------|---------|--------------------------------------|----------------------------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **05 | 208/230-1-60 | STD | NONE | — | — | 32 | 50 | 31 | 133 | 34 | 50 | 33 | 135 |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 32/32 | 50/50 | 31/31 | 133/133 | 34/34 | 50/50 | 33/33 | 135/135 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 46/52 | 50/60 | 42/47 | 133/133 | 48/54 | 50/60 | 44/50 | 135/135 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 65/74 | 70/80 | 60/68 | 133/133 | 68/77 | 70/80 | 62/70 | 135/135 |
| | | | 329A | 13.1/17.4 | 62.8/72.5 | 85/97 | 90/100 | 78/89 | 133/133 | 88/100 | 90/100 | 80/91 | 135/135 |
| | | | 330A | 14.4/19.2 | 69.3/80.0 | 93/107 | 100/110 | 85/98 | 133/133 | 96/109 | 100/110 | 88/100 | 135/135 |
| | | 331A | 15.8/21.0 | 75.8/87.5 | 101/116 | 110/125 | 93/106 | 133/133 | 104/118 | 110/125 | 95/109 | 135/135 | |
| | | MED | NONE | — | — | 35 | 50 | 33 | 136 | 36 | 50 | 36 | 138 |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 35/35 | 50/50 | 33/33 | 136/136 | 36/36 | 50/50 | 36/36 | 138/138 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 49/55 | 50/60 | 44/50 | 136/136 | 51/57 | 60/60 | 46/52 | 138/138 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 68/77 | 70/80 | 62/70 | 136/136 | 70/79 | 70/80 | 64/73 | 138/138 |
| | | | 329A | 13.1/17.4 | 62.8/72.5 | 88/100 | 90/100 | 80/92 | 136/136 | 90/102 | 90/110 | 83/94 | 138/138 |
| | | | 330A | 14.4/19.2 | 69.3/80.0 | 96/109 | 100/110 | 88/100 | 136/136 | 98/112 | 100/125 | 90/102 | 138/138 |
| | | 331A | 15.8/21.0 | 75.8/87.5 | 104/119 | 110/125 | 95/109 | 136/136 | 106/121 | 110/125 | 98/111 | 138/138 | |
| | | HIGH | NONE | — | — | 36 | 50 | 35 | 138 | 38 | 50 | 37 | 140 |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 36/36 | 50/50 | 35/35 | 138/138 | 38/38 | 50/50 | 37/37 | 140/140 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 51/57 | 60/60 | 46/52 | 138/138 | 53/59 | 60/60 | 48/54 | 140/140 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 70/79 | 70/80 | 64/72 | 138/138 | 72/82 | 80/90 | 66/75 | 140/140 |
| | 329A | | 13.1/17.4 | 62.8/72.5 | 90/102 | 90/110 | 82/93 | 138/138 | 92/104 | 100/110 | 85/96 | 140/140 | |
| | 330A | | 14.4/19.2 | 69.3/80.0 | 98/111 | 100/125 | 90/102 | 138/138 | 100/114 | 110/125 | 92/104 | 140/140 | |
| | 331A | 15.8/21.0 | 75.8/87.5 | 106/121 | 110/125 | 97/111 | 138/138 | 109/123 | 110/125 | 99/113 | 140/140 | | |
| | 208/230-3-60 | STD | NONE | — | — | 24 | 30 | 24 | 94 | 26 | 30 | 26 | 96 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 24/24 | 30/30 | 24/24 | 94/94 | 26/26 | 30/30 | 26/26 | 96/96 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 24/26 | 30/30 | 24/24 | 94/94 | 26/29 | 30/30 | 26/26 | 96/96 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 29/33 | 30/35 | 27/30 | 94/94 | 32/35 | 35/35 | 29/32 | 96/96 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 48/55 | 50/60 | 44/50 | 94/94 | 51/57 | 60/60 | 46/52 | 96/96 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 57/64 | 60/70 | 52/59 | 94/94 | 59/67 | 60/70 | 54/61 | 96/96 |
| | | MED | NONE | — | — | 61/70 | 70/70 | 56/64 | 94/94 | 64/72 | 70/80 | 58/66 | 96/96 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 27 | 30 | 26 | 97 | 28 | 40 | 28 | 99 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 27/27 | 30/30 | 26/26 | 97/97 | 28/28 | 40/40 | 28/28 | 99/99 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 27/29 | 30/30 | 26/26 | 97/97 | 29/31 | 40/40 | 28/28 | 99/99 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 32/35 | 40/40 | 29/32 | 97/97 | 34/38 | 40/40 | 31/34 | 99/99 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 51/57 | 60/60 | 47/52 | 97/97 | 53/60 | 60/60 | 49/55 | 99/99 |
| | | HIGH | NONE | — | — | 59/67 | 60/70 | 54/61 | 97/97 | 62/69 | 70/70 | 56/63 | 99/99 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 64/72 | 70/80 | 59/66 | 97/97 | 66/75 | 70/80 | 61/68 | 99/99 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 25 | 30 | 24 | 94 | 26 | 30 | 26 | 96 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 25/25 | 30/30 | 24/24 | 94/94 | 26/26 | 30/30 | 26/26 | 96/96 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 25/26 | 30/30 | 24/24 | 94/94 | 26/29 | 30/30 | 26/26 | 96/96 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 29/33 | 30/35 | 27/30 | 94/94 | 32/35 | 40/40 | 29/32 | 96/96 |
| | 460-3-60 | STD | NONE | — | — | 49/55 | 50/60 | 44/50 | 94/94 | 51/57 | 60/60 | 46/52 | 96/96 |
| | | | 333A | 6.0 | 7.2 | 57/65 | 60/70 | 52/59 | 94/94 | 59/67 | 60/70 | 54/61 | 96/96 |
| | | | 335A | 11.5 | 13.8 | 62/70 | 70/70 | 56/64 | 94/94 | 64/72 | 70/80 | 58/66 | 96/96 |
| 336A | | | 14.0 | 16.8 | 10 | 15 | 10 | 45 | 11 | 15 | 11 | 46 | |
| 337A | | | 21.5 | 25.9 | 11 | 15 | 10 | 45 | 12 | 15 | 11 | 46 | |
| NONE | | | — | — | 19 | 20 | 17 | 45 | 20 | 25 | 18 | 46 | |
| MED | | 333A | 6.0 | 7.2 | 23 | 25 | 21 | 45 | 24 | 25 | 22 | 46 | |
| | | 335A | 11.5 | 13.8 | 34 | 35 | 31 | 45 | 36 | 40 | 32 | 46 | |
| | | 336A | 14.0 | 16.8 | 11 | 15 | 10 | 45 | 12 | 15 | 11 | 46 | |
| | | 337A | 21.5 | 25.9 | 11 | 15 | 10 | 45 | 13 | 15 | 11 | 46 | |
| | | NONE | — | — | 20 | 20 | 18 | 45 | 21 | 25 | 19 | 46 | |
| | | 333A | 6.0 | 7.2 | 23 | 25 | 21 | 45 | 25 | 25 | 22 | 46 | |
| HIGH | | 335A | 11.5 | 13.8 | 35 | 35 | 32 | 45 | 36 | 40 | 33 | 46 | |
| | | 336A | 14.0 | 16.8 | 12 | 15 | 11 | 46 | 13 | 15 | 12 | 47 | |
| | | 337A | 21.5 | 25.9 | 12 | 15 | 11 | 46 | 14 | 15 | 12 | 47 | |

Electrical data (cont)



50GC**05 MCA MOCP ELECTRICAL DATA (cont)

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | NO CONVENIENCE OUTLET or UNPOWERED CONVENIENCE OUTLET | | | | | | | |
|----------------------|-----------------|-------------|--------------------|-------------|------|---|----------------------------|-----------------|----|--------------------------------------|----------------------------|-----------------|----|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | |
| FLA | LRA | FLA | LRA | | | | | | | | | | |
| **05 (cont) | 575-3-60 | STD | NONE | — | — | 21 | 25 | 19 | 46 | 22 | 25 | 20 | 47 |
| | | | 339A | 10.0 | 9.6 | 24 | 25 | 22 | 46 | 26 | 30 | 23 | 47 |
| | | | 340A | 15.0 | 14.4 | 36 | 40 | 33 | 46 | 37 | 40 | 34 | 47 |
| | | MED | NONE | — | — | 8 | 15 | 7 | 37 | 10 | 15 | 9 | 39 |
| | | | 339A | 10.0 | 9.6 | 14 | 15 | 12 | 37 | 16 | 20 | 14 | 39 |
| | | | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 37 | 22 | 25 | 20 | 39 |
| | | HIGH | NONE | — | — | 8 | 15 | 8 | 37 | 10 | 15 | 10 | 39 |
| | | | 339A | 10.0 | 9.6 | 14 | 15 | 13 | 37 | 17 | 20 | 15 | 39 |
| | | | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 37 | 23 | 25 | 20 | 39 |



50GC05 MCA MOCP ELECTRICAL DATA (cont)**

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | w/ POWERED CONVENIENCE OUTLET | | | | | | | |
|----------------------|-----------------|-------------|--------------------|-------------|-----------|-------------------------------|----------------------------|-----------------|---------|--------------------------------------|----------------------------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **05 | 208/230-3-60 | STD | NONE | — | — | 29 | 40 | 29 | 99 | 31 | 40 | 31 | 101 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 29/29 | 40/40 | 29/29 | 99/99 | 31/31 | 40/40 | 31/31 | 101/101 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 30/32 | 40/40 | 29/29 | 99/99 | 32/35 | 40/40 | 31/31 | 101/101 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 35/39 | 40/40 | 32/35 | 99/99 | 38/41 | 40/45 | 34/37 | 101/101 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 54/61 | 60/70 | 50/56 | 99/99 | 57/63 | 60/70 | 52/58 | 101/101 |
| | | 331A | 15.8/21.0 | 43.8/50.5 | 63/70 | 70/80 | 57/64 | 99/99 | 65/73 | 70/80 | 59/67 | 101/101 | |
| | | MED | NONE | — | — | 67/76 | 70/80 | 62/69 | 99/99 | 70/78 | 70/80 | 64/72 | 101/101 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 31 | 40 | 32 | 102 | 33 | 45 | 34 | 104 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 31/31 | 40/40 | 32/32 | 102/102 | 33/33 | 45/45 | 34/34 | 104/104 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 32/35 | 40/40 | 32/32 | 102/102 | 35/37 | 45/45 | 34/34 | 104/104 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 38/41 | 40/45 | 35/38 | 102/102 | 40/44 | 45/45 | 37/40 | 104/104 |
| | | 331A | 15.8/21.0 | 43.8/50.5 | 57/63 | 60/70 | 52/58 | 102/102 | 59/66 | 60/70 | 54/60 | 104/104 | |
| | | HIGH | NONE | — | — | 65/73 | 70/80 | 60/67 | 102/102 | 68/75 | 70/80 | 62/69 | 104/104 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 70/78 | 70/80 | 64/72 | 102/102 | 72/81 | 80/90 | 66/74 | 104/104 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 29 | 40 | 29 | 99 | 31 | 40 | 31 | 101 |
| | 328A | | 12.0/16.0 | 33.4/38.5 | 29/29 | 40/40 | 29/29 | 99/99 | 31/31 | 40/40 | 31/31 | 101/101 | |
| | 330A | | 14.4/19.2 | 40.0/46.2 | 30/32 | 40/40 | 29/29 | 99/99 | 32/35 | 40/40 | 31/32 | 101/101 | |
| | 331A | 15.8/21.0 | 43.8/50.5 | 35/39 | 40/40 | 32/35 | 99/99 | 38/41 | 40/45 | 34/38 | 101/101 | | |
| | 460-3-60 | STD | NONE | — | — | 55/61 | 60/70 | 50/56 | 99/99 | 57/63 | 60/70 | 52/58 | 101/101 |
| | | | 333A | 6.0 | 7.2 | 63/71 | 70/80 | 57/65 | 99/99 | 65/73 | 70/80 | 60/67 | 101/101 |
| | | | 335A | 11.5 | 13.8 | 68/76 | 70/80 | 62/69 | 99/99 | 70/78 | 70/80 | 64/72 | 101/101 |
| | | | 336A | 14.0 | 16.8 | 13 | 15 | 12 | 47 | 14 | 15 | 13 | 48 |
| | | | 337A | 21.5 | 25.9 | 14 | 15 | 12 | 47 | 15 | 15 | 13 | 48 |
| | | MED | NONE | — | — | 22 | 25 | 20 | 47 | 23 | 25 | 21 | 48 |
| | | | 333A | 6.0 | 7.2 | 26 | 30 | 23 | 47 | 27 | 30 | 24 | 48 |
| | | | 335A | 11.5 | 13.8 | 37 | 40 | 34 | 47 | 38 | 40 | 35 | 48 |
| | | | 336A | 14.0 | 16.8 | 13 | 15 | 13 | 47 | 14 | 20 | 14 | 48 |
| | | | 337A | 21.5 | 25.9 | 14 | 15 | 13 | 47 | 15 | 20 | 14 | 48 |
| | | HIGH | NONE | — | — | 22 | 25 | 20 | 47 | 24 | 25 | 21 | 48 |
| | | | 333A | 6.0 | 7.2 | 26 | 30 | 24 | 47 | 27 | 30 | 25 | 48 |
| | | | 335A | 11.5 | 13.8 | 37 | 40 | 34 | 47 | 39 | 40 | 35 | 48 |
| | | | 336A | 14.0 | 16.8 | 14 | 20 | 14 | 48 | 15 | 20 | 15 | 49 |
| | | | 337A | 21.5 | 25.9 | 15 | 20 | 14 | 48 | 16 | 20 | 15 | 49 |
| | 575-3-60 | STD | NONE | — | — | 23 | 25 | 21 | 48 | 25 | 25 | 22 | 49 |
| | | | 339A | 10.0 | 9.6 | 27 | 30 | 25 | 48 | 28 | 30 | 26 | 49 |
| | | | 340A | 15.0 | 14.4 | 39 | 40 | 35 | 48 | 40 | 40 | 36 | 49 |
| | | MED | NONE | — | — | 10 | 15 | 9 | 39 | 12 | 15 | 11 | 41 |
| | | | 339A | 10.0 | 9.6 | 16 | 20 | 14 | 39 | 18 | 20 | 16 | 41 |
| | | | 340A | 15.0 | 14.4 | 22 | 25 | 20 | 39 | 24 | 25 | 22 | 41 |
| | | HIGH | NONE | — | — | 10 | 15 | 10 | 39 | 12 | 15 | 12 | 41 |
| | | | 339A | 10.0 | 9.6 | 16 | 20 | 15 | 39 | 19 | 20 | 17 | 41 |
| | | | 340A | 15.0 | 14.4 | 22 | 25 | 20 | 39 | 25 | 25 | 22 | 41 |

50GC**05 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | NO CONVENIENCE OUTLET or UNPOWERED CONVENIENCE OUTLET | | | | | | | |
|----------------|--------------|-----------|-----------------|-----------|-----------|---|-----------|-----------------|---------|--------------------------------------|-----------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | HACR BRKR | DISCONNECT SIZE | | MCA | HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **05 | 208/230-1-60 | STD | NONE | — | — | 32 | 50 | 31 | 133 | 34 | 50 | 33 | 135 |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 32/32 | 50/50 | 31/31 | 133/133 | 34/34 | 50/50 | 33/33 | 135/135 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 52/52 | 60/60 | 42/47 | 133/133 | 54/54 | 60/60 | 44/50 | 135/135 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 74/74 | 80/80 | 60/68 | 133/133 | 77/77 | 80/80 | 62/70 | 135/135 |
| | | | 329A | 13.1/17.4 | 62.8/72.5 | 97/97 | 100/100 | 78/89 | 133/133 | 100/100 | 100/100 | 80/91 | 135/135 |
| | | | 330A | 14.4/19.2 | 69.3/80.0 | 107/107 | 110/110 | 85/98 | 133/133 | 109/109 | 110/110 | 88/100 | 135/135 |
| | | 331A | 15.8/21.0 | 75.8/87.5 | 116/116 | 125/125 | 93/106 | 133/133 | 118/118 | 125/125 | 95/109 | 135/135 | |
| | | MED | NONE | — | — | 35 | 50 | 33 | 136 | 36 | 50 | 36 | 138 |
| | | | 323A | 3.3/4.4 | 15.9/18.3 | 35/35 | 50/50 | 33/33 | 136/136 | 36/36 | 50/50 | 36/36 | 138/138 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 55/55 | 60/60 | 44/50 | 136/136 | 57/57 | 60/60 | 46/52 | 138/138 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 77/77 | 80/80 | 62/70 | 136/136 | 79/79 | 80/80 | 64/73 | 138/138 |
| | | | 329A | 13.1/17.4 | 62.8/72.5 | 100/100 | 100/100 | 80/92 | 136/136 | 102/102 | 110/110 | 83/94 | 138/138 |
| | 330A | | 14.4/19.2 | 69.3/80.0 | 109/109 | 110/110 | 88/100 | 136/136 | 112/112 | 125/125 | 90/102 | 138/138 | |
| | 331A | 15.8/21.0 | 75.8/87.5 | 119/119 | 125/125 | 95/109 | 136/136 | 121/121 | 125/125 | 98/111 | 138/138 | | |
| | HIGH | NONE | — | — | 36 | 50 | 35 | 138 | 38 | 50 | 37 | 140 | |
| | | 323A | 3.3/4.4 | 15.9/18.3 | 36/36 | 50/50 | 35/35 | 138/138 | 38/38 | 50/50 | 37/37 | 140/140 | |
| | | 325A | 6.5/8.7 | 31.4/36.3 | 57/57 | 60/60 | 46/52 | 138/138 | 59/59 | 60/60 | 48/54 | 140/140 | |
| | | 327A | 9.8/13.0 | 46.9/54.2 | 79/79 | 80/80 | 64/72 | 138/138 | 82/82 | 90/90 | 66/75 | 140/140 | |
| | | 329A | 13.1/17.4 | 62.8/72.5 | 102/102 | 110/110 | 82/93 | 138/138 | 104/104 | 110/110 | 85/96 | 140/140 | |
| | | 330A | 14.4/19.2 | 69.3/80.0 | 111/111 | 125/125 | 90/102 | 138/138 | 114/114 | 125/125 | 92/104 | 140/140 | |
| | 331A | 15.8/21.0 | 75.8/87.5 | 121/121 | 125/125 | 97/111 | 138/138 | 123/123 | 125/125 | 99/113 | 140/140 | | |
| | 208/230-3-60 | STD | NONE | — | — | 24 | 30 | 24 | 94 | 26 | 30 | 26 | 96 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 24/24 | 30/30 | 24/24 | 94/94 | 26/26 | 30/30 | 26/26 | 96/96 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 26/26 | 30/30 | 24/24 | 94/94 | 29/29 | 30/30 | 26/26 | 96/96 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 33/33 | 35/35 | 27/30 | 94/94 | 35/35 | 35/35 | 29/32 | 96/96 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 55/55 | 60/60 | 44/50 | 94/94 | 57/57 | 60/60 | 46/52 | 96/96 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 64/64 | 70/70 | 52/59 | 94/94 | 67/67 | 70/70 | 54/61 | 96/96 |
| | | MED | NONE | — | — | 70/70 | 70/70 | 56/64 | 94/94 | 72/72 | 80/80 | 58/66 | 96/96 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 27 | 30 | 26 | 97 | 28 | 40 | 28 | 99 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 27/27 | 30/30 | 26/26 | 97/97 | 28/28 | 40/40 | 28/28 | 99/99 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 29/29 | 30/30 | 26/26 | 97/97 | 31/31 | 40/40 | 28/28 | 99/99 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 35/35 | 40/40 | 29/32 | 97/97 | 38/38 | 40/40 | 31/34 | 99/99 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 57/57 | 60/60 | 47/52 | 97/97 | 60/60 | 60/60 | 49/55 | 99/99 |
| | HIGH | NONE | — | — | 67/67 | 70/70 | 54/61 | 97/97 | 69/69 | 70/70 | 56/63 | 99/99 | |
| | | 324A | 4.9/6.5 | 13.6/15.6 | 72/72 | 80/80 | 59/66 | 97/97 | 75/75 | 80/80 | 61/68 | 99/99 | |
| | | 325A | 6.5/8.7 | 18.1/20.9 | 25 | 30 | 24 | 94 | 26 | 30 | 26 | 96 | |
| 328A | | 12.0/16.0 | 33.4/38.5 | 25/25 | 30/30 | 24/24 | 94/94 | 26/26 | 30/30 | 26/26 | 96/96 | | |
| 330A | | 14.4/19.2 | 40.0/46.2 | 26/26 | 30/30 | 24/24 | 94/94 | 29/29 | 30/30 | 26/26 | 96/96 | | |
| 331A | | 15.8/21.0 | 43.8/50.5 | 33/33 | 35/35 | 27/30 | 94/94 | 35/35 | 40/40 | 29/32 | 96/96 | | |
| 460-3-60 | STD | NONE | — | — | 55/55 | 60/60 | 44/50 | 94/94 | 57/57 | 60/60 | 46/52 | 96/96 | |
| | | 333A | 6.0 | 7.2 | 65/65 | 70/70 | 52/59 | 94/94 | 67/67 | 70/70 | 54/61 | 96/96 | |
| | | 335A | 11.5 | 13.8 | 70/70 | 70/70 | 56/64 | 94/94 | 72/72 | 80/80 | 58/66 | 96/96 | |
| | | 336A | 14.0 | 16.8 | 10 | 15 | 10 | 45 | 11 | 15 | 11 | 46 | |
| | | 337A | 21.5 | 25.9 | 11 | 15 | 10 | 45 | 12 | 15 | 11 | 46 | |
| | | NONE | — | — | 19 | 20 | 17 | 45 | 20 | 25 | 18 | 46 | |
| | MED | 333A | 6.0 | 7.2 | 23 | 25 | 21 | 45 | 24 | 25 | 22 | 46 | |
| | | 335A | 11.5 | 13.8 | 34 | 35 | 31 | 45 | 36 | 40 | 32 | 46 | |
| | | 336A | 14.0 | 16.8 | 11 | 15 | 10 | 45 | 12 | 15 | 11 | 46 | |
| | | 337A | 21.5 | 25.9 | 11 | 15 | 10 | 45 | 13 | 15 | 11 | 46 | |
| | | NONE | — | — | 20 | 20 | 18 | 45 | 21 | 25 | 19 | 46 | |
| | | 333A | 6.0 | 7.2 | 23 | 25 | 21 | 45 | 25 | 25 | 22 | 46 | |
| HIGH | 335A | 11.5 | 13.8 | 35 | 35 | 32 | 45 | 36 | 40 | 33 | 46 | | |
| | 336A | 14.0 | 16.8 | 12 | 15 | 11 | 46 | 13 | 15 | 12 | 47 | | |
| | 337A | 21.5 | 25.9 | 12 | 15 | 11 | 46 | 14 | 15 | 12 | 47 | | |



50GC05 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER (cont)**

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | NO CONVENIENCE OUTLET or UNPOWERED CONVENIENCE OUTLET | | | | | | | |
|------------------------|-----------------|-------------|--------------------|-------------|------|---|--------------|-----------------|----|--------------------------------------|--------------|-----------------|----|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | HACR BRKR | DISCONNECT SIZE | | MCA | HACR BRKR | DISCONNECT SIZE | |
| FLA | LRA | FLA | LRA | | | | | | | | | | |
| **05 (cont) | 575-3-60 | STD | NONE | — | — | 21 | 25 | 19 | 46 | 22 | 25 | 20 | 47 |
| | | | 339A | 10.0 | 9.6 | 24 | 25 | 22 | 46 | 26 | 30 | 23 | 47 |
| | | | 340A | 15.0 | 14.4 | 36 | 40 | 33 | 46 | 37 | 40 | 34 | 47 |
| | | MED | NONE | — | — | 8 | 15 | 7 | 37 | 10 | 15 | 9 | 39 |
| | | | 339A | 10.0 | 9.6 | 14 | 15 | 12 | 37 | 16 | 20 | 14 | 39 |
| | | | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 37 | 22 | 25 | 20 | 39 |
| | | HIGH | NONE | — | — | 8 | 15 | 8 | 37 | 10 | 15 | 10 | 39 |
| | | | 339A | 10.0 | 9.6 | 14 | 15 | 13 | 37 | 17 | 20 | 15 | 39 |
| | | | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 37 | 23 | 25 | 20 | 39 |

50GC**05 MCA MOCAP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER (cont)

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | w/ POWERED CONVENIENCE OUTLET | | | | | | | |
|----------------|--------------|-----------|-----------------|-----------|-----------|-------------------------------|-----------|-----------------|---------|--------------------------------------|-----------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | HACR BRKR | DISCONNECT SIZE | | MCA | HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **05 | 208/230-3-60 | STD | NONE | — | — | 29 | 40 | 29 | 99 | 31 | 40 | 31 | 101 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 29/29 | 40/40 | 29/29 | 99/99 | 31/31 | 40/40 | 31/31 | 101/101 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 32/32 | 40/40 | 29/29 | 99/99 | 35/35 | 40/40 | 31/31 | 101/101 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 39/39 | 40/40 | 32/35 | 99/99 | 41/41 | 45/45 | 34/37 | 101/101 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 61/61 | 70/70 | 50/56 | 99/99 | 63/63 | 70/70 | 52/58 | 101/101 |
| | | 331A | 15.8/21.0 | 43.8/50.5 | 70/70 | 80/80 | 57/64 | 99/99 | 73/73 | 80/80 | 59/67 | 101/101 | |
| | | MED | NONE | — | — | 76/76 | 80/80 | 62/69 | 99/99 | 78/78 | 80/80 | 64/72 | 101/101 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 31 | 40 | 32 | 102 | 33 | 45 | 34 | 104 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 31/31 | 40/40 | 32/32 | 102/102 | 33/33 | 45/45 | 34/34 | 104/104 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 35/35 | 40/40 | 32/32 | 102/102 | 37/37 | 45/45 | 34/34 | 104/104 |
| | | | 330A | 14.4/19.2 | 40.0/46.2 | 41/41 | 45/45 | 35/38 | 102/102 | 44/44 | 45/45 | 37/40 | 104/104 |
| | | 331A | 15.8/21.0 | 43.8/50.5 | 63/63 | 70/70 | 52/58 | 102/102 | 66/66 | 70/70 | 54/60 | 104/104 | |
| | | HIGH | NONE | — | — | 73/73 | 80/80 | 60/67 | 102/102 | 75/75 | 80/80 | 62/69 | 104/104 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 78/78 | 80/80 | 64/72 | 102/102 | 81/81 | 90/90 | 66/74 | 104/104 |
| | | | 325A | 6.5/8.7 | 18.1/20.9 | 29 | 40 | 29 | 99 | 31 | 40 | 31 | 101 |
| | 328A | | 12.0/16.0 | 33.4/38.5 | 29/29 | 40/40 | 29/29 | 99/99 | 31/31 | 40/40 | 31/31 | 101/101 | |
| | 330A | | 14.4/19.2 | 40.0/46.2 | 32/32 | 40/40 | 29/29 | 99/99 | 35/35 | 40/40 | 31/32 | 101/101 | |
| | 331A | 15.8/21.0 | 43.8/50.5 | 39/39 | 40/40 | 32/35 | 99/99 | 41/41 | 45/45 | 34/38 | 101/101 | | |
| | 460-3-60 | STD | NONE | — | — | 61/61 | 70/70 | 50/56 | 99/99 | 63/63 | 70/70 | 52/58 | 101/101 |
| | | | 333A | 6.0 | 7.2 | 71/71 | 80/80 | 57/65 | 99/99 | 73/73 | 80/80 | 60/67 | 101/101 |
| | | | 335A | 11.5 | 13.8 | 76/76 | 80/80 | 62/69 | 99/99 | 78/78 | 80/80 | 64/72 | 101/101 |
| | | | 336A | 14.0 | 16.8 | 13 | 15 | 12 | 47 | 14 | 15 | 13 | 48 |
| | | | 337A | 21.5 | 25.9 | 14 | 15 | 12 | 47 | 15 | 15 | 13 | 48 |
| | | MED | NONE | — | — | 22 | 25 | 20 | 47 | 23 | 25 | 21 | 48 |
| | | | 333A | 6.0 | 7.2 | 26 | 30 | 23 | 47 | 27 | 30 | 24 | 48 |
| | | | 335A | 11.5 | 13.8 | 37 | 40 | 34 | 47 | 38 | 40 | 35 | 48 |
| | | | 336A | 14.0 | 16.8 | 13 | 15 | 13 | 47 | 14 | 20 | 14 | 48 |
| | | | 337A | 21.5 | 25.9 | 14 | 15 | 13 | 47 | 15 | 20 | 14 | 48 |
| | | HIGH | NONE | — | — | 22 | 25 | 20 | 47 | 24 | 25 | 21 | 48 |
| | | | 333A | 6.0 | 7.2 | 26 | 30 | 24 | 47 | 27 | 30 | 25 | 48 |
| | | | 335A | 11.5 | 13.8 | 37 | 40 | 34 | 47 | 39 | 40 | 35 | 48 |
| | | | 336A | 14.0 | 16.8 | 14 | 20 | 14 | 48 | 15 | 20 | 15 | 49 |
| | | | 337A | 21.5 | 25.9 | 15 | 20 | 14 | 48 | 16 | 20 | 15 | 49 |
| | 575-3-60 | STD | NONE | — | — | 23 | 25 | 21 | 48 | 25 | 25 | 22 | 49 |
| | | | 339A | 10.0 | 9.6 | 27 | 30 | 25 | 48 | 28 | 30 | 26 | 49 |
| | | | 340A | 15.0 | 14.4 | 39 | 40 | 35 | 48 | 40 | 40 | 36 | 49 |
| | | MED | NONE | — | — | 10 | 15 | 9 | 39 | 12 | 15 | 11 | 41 |
| | | | 339A | 10.0 | 9.6 | 16 | 20 | 14 | 39 | 18 | 20 | 16 | 41 |
| | | | 340A | 15.0 | 14.4 | 22 | 25 | 20 | 39 | 24 | 25 | 22 | 41 |
| | | HIGH | NONE | — | — | 10 | 15 | 10 | 39 | 12 | 15 | 12 | 41 |
| | | | 339A | 10.0 | 9.6 | 16 | 20 | 15 | 39 | 19 | 20 | 17 | 41 |
| | | | 340A | 15.0 | 14.4 | 22 | 25 | 20 | 39 | 25 | 25 | 22 | 41 |

50GC06 MCA MOCP ELECTRICAL DATA**

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | NO CONVENIENCE OUTLET or UNPOWERED CONVENIENCE OUTLET | | | | | | | |
|----------------------|-----------------|-------------|--------------------|-------------|-----------|---|----------------------------|-----------------|---------|--------------------------------------|----------------------------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **06 | 208/230-1-60 | STD | NONE | — | — | 38 | 60 | 36 | 161 | 40 | 60 | 39 | 163 |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 39/43 | 60/60 | 36/39 | 161/161 | 41/46 | 60/60 | 39/42 | 163/163 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 49/55 | 60/60 | 44/50 | 161/161 | 51/57 | 60/60 | 47/52 | 163/163 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 68/77 | 70/80 | 62/71 | 161/161 | 70/80 | 80/80 | 64/73 | 163/163 |
| | | | 329A | 13.1/17.4 | 62.8/72.5 | 88/100 | 90/100 | 81/92 | 161/161 | 90/102 | 90/110 | 83/94 | 163/163 |
| | | 331A | 15.8/21.0 | 75.8/87.5 | 104/119 | 110/125 | 95/109 | 161/161 | 107/121 | 110/125 | 98/111 | 163/163 | |
| | | MED | NONE | — | — | 39 | 60 | 38 | 163 | 41 | 60 | 40 | 165 |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 41/45 | 60/60 | 38/41 | 163/163 | 43/47 | 60/60 | 40/43 | 165/165 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 50/57 | 60/60 | 46/52 | 163/163 | 53/59 | 60/60 | 48/54 | 165/165 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 70/79 | 70/80 | 64/72 | 163/163 | 72/81 | 80/90 | 66/74 | 165/165 |
| | 329A | | 13.1/17.4 | 62.8/72.5 | 90/102 | 90/110 | 82/93 | 163/163 | 92/104 | 100/110 | 84/95 | 165/165 | |
| | 331A | 15.8/21.0 | 75.8/87.5 | 106/121 | 110/125 | 97/111 | 163/163 | 108/123 | 110/125 | 99/113 | 165/165 | | |
| | 208/230-3-60 | STD | NONE | — | — | 39 | 60 | 37 | 162 | 41 | 60 | 40 | 164 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 40/44 | 60/60 | 37/40 | 162/162 | 42/47 | 60/60 | 40/43 | 164/164 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 50/56 | 60/60 | 45/51 | 162/162 | 52/58 | 60/60 | 48/53 | 164/164 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 69/78 | 70/80 | 63/72 | 162/162 | 72/81 | 80/90 | 65/74 | 164/164 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 89/101 | 90/110 | 82/93 | 162/162 | 91/104 | 100/110 | 84/95 | 164/164 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 105/120 | 110/125 | 96/110 | 162/162 | 108/122 | 110/125 | 99/112 | 164/164 |
| | | MED | NONE | — | — | 29 | 45 | 29 | 124 | 31 | 45 | 31 | 126 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 29/29 | 45/45 | 29/29 | 124/124 | 31/31 | 45/45 | 31/31 | 126/126 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 37/41 | 45/45 | 33/37 | 124/124 | 39/43 | 45/45 | 36/40 | 126/126 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 51/58 | 60/60 | 47/53 | 124/124 | 54/60 | 60/60 | 49/55 | 126/126 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 64/73 | 70/80 | 59/66 | 124/124 | 67/75 | 70/80 | 61/69 | 126/126 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 73/83 | 80/90 | 67/76 | 124/124 | 76/85 | 80/90 | 69/78 | 126/126 |
| | | HIGH | NONE | — | — | 31 | 45 | 30 | 126 | 33 | 45 | 32 | 128 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 31/31 | 45/45 | 30/30 | 126/126 | 33/33 | 45/45 | 32/32 | 128/128 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 39/43 | 45/45 | 35/39 | 126/126 | 41/45 | 45/45 | 37/41 | 128/128 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 53/59 | 60/60 | 48/54 | 126/126 | 55/62 | 60/70 | 50/56 | 128/128 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 66/74 | 70/80 | 60/68 | 126/126 | 68/77 | 70/80 | 62/70 | 128/128 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 75/85 | 80/90 | 69/78 | 126/126 | 77/87 | 80/90 | 71/80 | 128/128 |
| | 460-3-60 | STD | NONE | — | — | 29 | 40 | 28 | 123 | 31 | 45 | 30 | 125 |
| | | | 333A | 6.0 | 7.2 | 29/29 | 40/40 | 28/28 | 123/123 | 31/31 | 45/45 | 30/30 | 125/125 |
| | | | 335A | 11.5 | 13.8 | 36/40 | 40/40 | 33/36 | 123/123 | 38/42 | 45/45 | 35/39 | 125/125 |
| | | | 336A | 14.0 | 16.8 | 50/57 | 50/60 | 46/52 | 123/123 | 53/59 | 60/60 | 48/54 | 125/125 |
| | | | 337A | 21.5 | 25.9 | 63/72 | 70/80 | 58/65 | 123/123 | 66/74 | 70/80 | 60/68 | 125/125 |
| | | | 338A | 24.0 | 28.9 | 72/82 | 80/90 | 66/75 | 123/123 | 75/84 | 80/90 | 68/77 | 125/125 |
| | | MED | NONE | — | — | 12 | 15 | 11 | 56 | 13 | 20 | 13 | 57 |
| | | | 333A | 6.0 | 7.2 | 12 | 15 | 11 | 56 | 13 | 20 | 13 | 57 |
| | | | 335A | 11.5 | 13.8 | 20 | 20 | 18 | 56 | 21 | 25 | 19 | 57 |
| | | | 336A | 14.0 | 16.8 | 23 | 25 | 21 | 56 | 25 | 25 | 22 | 57 |
| | | | 337A | 21.5 | 25.9 | 35 | 35 | 32 | 56 | 36 | 40 | 33 | 57 |
| | | | 338A | 24.0 | 28.9 | 38 | 40 | 35 | 56 | 40 | 40 | 36 | 57 |
| | | HIGH | NONE | — | — | 13 | 15 | 12 | 57 | 14 | 20 | 13 | 58 |
| | | | 333A | 6.0 | 7.2 | 13 | 15 | 12 | 57 | 14 | 20 | 13 | 58 |
| | | | 335A | 11.5 | 13.8 | 20 | 20 | 18 | 57 | 21 | 25 | 19 | 58 |
| | | | 336A | 14.0 | 16.8 | 24 | 25 | 22 | 57 | 25 | 25 | 23 | 58 |
| | | | 337A | 21.5 | 25.9 | 35 | 35 | 32 | 57 | 36 | 40 | 33 | 58 |
| | | | 338A | 24.0 | 28.9 | 39 | 40 | 35 | 57 | 40 | 40 | 37 | 58 |
| | 575-3-60 | STD | NONE | — | — | 14 | 20 | 13 | 58 | 15 | 20 | 14 | 59 |
| | | | 340A | 15.0 | 14.4 | 14 | 20 | 13 | 58 | 15 | 20 | 14 | 59 |
| | | | 341A | 25.0 | 24.1 | 21 | 25 | 19 | 58 | 23 | 25 | 20 | 59 |
| | | MED | NONE | — | — | 25 | 25 | 23 | 58 | 26 | 30 | 24 | 59 |
| | | | 340A | 15.0 | 14.4 | 36 | 40 | 33 | 58 | 38 | 40 | 34 | 59 |
| | | | 341A | 25.0 | 24.1 | 40 | 40 | 37 | 58 | 41 | 45 | 38 | 59 |
| | | HIGH | NONE | — | — | 9 | 15 | 9 | 43 | 11 | 15 | 11 | 45 |
| | | | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 43 | 23 | 25 | 20 | 45 |
| | | | 341A | 25.0 | 24.1 | 28 | 30 | 25 | 43 | 30 | 30 | 27 | 45 |

50GC**06 MCA MOCP ELECTRICAL DATA (cont)

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | w/ POWERED CONVENIENCE OUTLET | | | | | | | |
|----------------------|-----------------|-------------|--------------------|-------------|-----------|-------------------------------|----------------------------|-----------------|---------|--------------------------------------|----------------------------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | | MCA | FUSE OR HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **06 | 208/230-3-60 | STD | NONE | — | — | 34 | 45 | 34 | 129 | 36 | 50 | 36 | 131 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 34/35 | 45/45 | 34/34 | 129/129 | 36/37 | 50/50 | 36/36 | 131/131 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 43/47 | 45/50 | 39/43 | 129/129 | 45/49 | 50/50 | 41/45 | 131/131 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 57/64 | 60/70 | 52/58 | 129/129 | 60/66 | 60/70 | 54/60 | 131/131 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 70/79 | 70/80 | 64/72 | 129/129 | 73/81 | 80/90 | 66/74 | 131/131 |
| | | 332A | 18.4/24.5 | 51.1/58.9 | 79/89 | 80/90 | 73/82 | 129/129 | 82/91 | 90/100 | 75/84 | 131/131 | |
| | | MED | NONE | — | — | 36 | 50 | 36 | 131 | 38 | 50 | 38 | 133 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 36/37 | 50/50 | 36/36 | 131/131 | 38/39 | 50/50 | 38/38 | 133/133 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 45/49 | 50/50 | 41/45 | 131/131 | 47/51 | 50/60 | 43/47 | 133/133 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 59/65 | 60/70 | 54/60 | 131/131 | 61/68 | 70/70 | 56/62 | 133/133 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 72/80 | 80/80 | 66/73 | 131/131 | 74/83 | 80/90 | 68/76 | 133/133 |
| | | 332A | 18.4/24.5 | 51.1/58.9 | 81/91 | 90/100 | 74/83 | 131/131 | 83/93 | 90/100 | 76/85 | 133/133 | |
| | | HIGH | NONE | — | — | 33 | 45 | 33 | 128 | 35 | 50 | 35 | 130 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 33/34 | 45/45 | 33/33 | 128/128 | 35/36 | 50/50 | 35/35 | 130/130 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 42/46 | 45/50 | 38/42 | 128/128 | 44/48 | 50/50 | 40/44 | 130/130 |
| | 328A | | 12.0/16.0 | 33.4/38.5 | 56/63 | 60/70 | 51/57 | 128/128 | 59/65 | 60/70 | 53/59 | 130/130 | |
| | 331A | | 15.8/21.0 | 43.8/50.5 | 69/78 | 70/80 | 63/71 | 128/128 | 72/80 | 80/80 | 65/73 | 130/130 | |
| | 332A | 18.4/24.5 | 51.1/58.9 | 78/88 | 80/90 | 72/81 | 128/128 | 81/90 | 90/100 | 74/83 | 130/130 | | |
| | 460-3-60 | STD | NONE | — | — | 14 | 20 | 14 | 58 | 15 | 20 | 15 | 59 |
| | | | 333A | 6.0 | 7.2 | 14 | 20 | 14 | 58 | 15 | 20 | 15 | 59 |
| | | | 335A | 11.5 | 13.8 | 22 | 25 | 20 | 58 | 24 | 25 | 21 | 59 |
| | | | 336A | 14.0 | 16.8 | 26 | 30 | 24 | 58 | 27 | 30 | 25 | 59 |
| | | | 337A | 21.5 | 25.9 | 37 | 40 | 34 | 58 | 39 | 40 | 35 | 59 |
| | | 338A | 24.0 | 28.9 | 41 | 45 | 37 | 58 | 42 | 45 | 39 | 59 | |
| | | MED | NONE | — | — | 15 | 20 | 14 | 59 | 16 | 20 | 16 | 60 |
| | | | 333A | 6.0 | 7.2 | 15 | 20 | 14 | 59 | 16 | 20 | 16 | 60 |
| | | | 335A | 11.5 | 13.8 | 23 | 25 | 21 | 59 | 24 | 25 | 22 | 60 |
| | | | 336A | 14.0 | 16.8 | 27 | 30 | 24 | 59 | 28 | 30 | 25 | 60 |
| | | | 337A | 21.5 | 25.9 | 38 | 40 | 35 | 59 | 39 | 40 | 36 | 60 |
| | | 338A | 24.0 | 28.9 | 42 | 45 | 38 | 59 | 43 | 45 | 39 | 60 | |
| | | HIGH | NONE | — | — | 16 | 20 | 16 | 60 | 17 | 20 | 17 | 61 |
| | | | 333A | 6.0 | 7.2 | 16 | 20 | 16 | 60 | 17 | 20 | 17 | 61 |
| | | | 335A | 11.5 | 13.8 | 24 | 25 | 22 | 60 | 25 | 25 | 23 | 61 |
| | 336A | | 14.0 | 16.8 | 28 | 30 | 25 | 60 | 29 | 30 | 26 | 61 | |
| | 337A | | 21.5 | 25.9 | 39 | 40 | 36 | 60 | 40 | 45 | 37 | 61 | |
| | 338A | 24.0 | 28.9 | 43 | 45 | 39 | 60 | 44 | 45 | 40 | 61 | | |
| 575-3-60 | STD | NONE | — | — | 11 | 15 | 10 | 45 | 13 | 15 | 13 | 47 | |
| | | 340A | 15.0 | 14.4 | 22 | 25 | 20 | 45 | 25 | 25 | 22 | 47 | |
| | | 341A | 25.0 | 24.1 | 30 | 30 | 27 | 45 | 32 | 35 | 29 | 47 | |
| | MED | NONE | — | — | 11 | 15 | 11 | 46 | 13 | 15 | 13 | 48 | |
| | | 340A | 15.0 | 14.4 | 23 | 25 | 21 | 46 | 25 | 25 | 23 | 48 | |
| | 341A | 25.0 | 24.1 | 30 | 30 | 27 | 46 | 32 | 35 | 29 | 48 | | |
| HIGH | NONE | — | — | 12 | 15 | 12 | 47 | 14 | 15 | 14 | 49 | | |
| | 340A | 15.0 | 14.4 | 24 | 25 | 21 | 47 | 26 | 30 | 24 | 49 | | |
| 341A | 25.0 | 24.1 | 31 | 35 | 28 | 47 | 33 | 35 | 30 | 49 | | | |

50GC06 MCA MOC P ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER**

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | NO CONVENIENCE OUTLET or UNPOWERED CONVENIENCE OUTLET | | | | | | | |
|----------------|--------------|----------|-----------------|-----------|-----------|---|-----------|-----------------|---------|--------------------------------------|-----------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | HACR BRKR | DISCONNECT SIZE | | MCA | HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **06 | 208/230-1-60 | STD | NONE | — | — | 38 | 60 | 36 | 161 | 40 | 60 | 39 | 163 |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 43/43 | 60/60 | 36/39 | 161/161 | 46/46 | 60/60 | 39/42 | 163/163 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 55/55 | 60/60 | 44/50 | 161/161 | 57/57 | 60/60 | 47/52 | 163/163 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 77/77 | 80/80 | 62/71 | 161/161 | 80/80 | 80/80 | 64/73 | 163/163 |
| | | | 329A | 13.1/17.4 | 62.8/72.5 | 100/100 | 100/100 | 81/92 | 161/161 | 102/102 | 110/110 | 83/94 | 163/163 |
| | | | 331A | 15.8/21.0 | 75.8/87.5 | 119/119 | 125/125 | 95/109 | 161/161 | 121/121 | 125/125 | 98/111 | 163/163 |
| | | MED | NONE | — | — | 39 | 60 | 38 | 163 | 41 | 60 | 40 | 165 |
| | | | 324A | 4.9/6.5 | 23.5/27.1 | 45/45 | 60/60 | 38/41 | 163/163 | 47/47 | 60/60 | 40/43 | 165/165 |
| | | | 325A | 6.5/8.7 | 31.4/36.3 | 57/57 | 60/60 | 46/52 | 163/163 | 59/59 | 60/60 | 48/54 | 165/165 |
| | | | 327A | 9.8/13.0 | 46.9/54.2 | 79/79 | 80/80 | 64/72 | 163/163 | 81/81 | 90/90 | 66/74 | 165/165 |
| | | | 329A | 13.1/17.4 | 62.8/72.5 | 102/102 | 110/110 | 82/93 | 163/163 | 104/104 | 110/110 | 84/95 | 165/165 |
| | | | 331A | 15.8/21.0 | 75.8/87.5 | 121/121 | 125/125 | 97/111 | 163/163 | 123/123 | 125/125 | 99/113 | 165/165 |
| | 208/230-3-60 | STD | NONE | — | — | 39 | 60 | 37 | 162 | 41 | 60 | 40 | 164 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 44/44 | 60/60 | 37/40 | 162/162 | 47/47 | 60/60 | 40/43 | 164/164 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 56/56 | 60/60 | 45/51 | 162/162 | 58/58 | 60/60 | 48/53 | 164/164 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 78/78 | 80/80 | 63/72 | 162/162 | 81/81 | 90/90 | 65/74 | 164/164 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 101/101 | 110/110 | 82/93 | 162/162 | 104/104 | 110/110 | 84/95 | 164/164 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 120/120 | 125/125 | 96/110 | 162/162 | 122/122 | 125/125 | 99/112 | 164/164 |
| | | MED | NONE | — | — | 29 | 45 | 29 | 124 | 31 | 45 | 31 | 126 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 29/29 | 45/45 | 29/29 | 124/124 | 31/31 | 45/45 | 31/31 | 126/126 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 41/41 | 45/45 | 33/37 | 124/124 | 43/43 | 45/45 | 36/40 | 126/126 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 58/58 | 60/60 | 47/53 | 124/124 | 60/60 | 60/60 | 49/55 | 126/126 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 73/73 | 80/80 | 59/66 | 124/124 | 75/75 | 80/80 | 61/69 | 126/126 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 83/83 | 90/90 | 67/76 | 124/124 | 85/85 | 90/90 | 69/78 | 126/126 |
| | | HIGH | NONE | — | — | 31 | 45 | 30 | 126 | 33 | 45 | 32 | 128 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 31/31 | 45/45 | 30/30 | 126/126 | 33/33 | 45/45 | 32/32 | 128/128 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 43/43 | 45/45 | 35/39 | 126/126 | 45/45 | 45/45 | 37/41 | 128/128 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 59/59 | 60/60 | 48/54 | 126/126 | 62/62 | 70/70 | 50/56 | 128/128 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 74/74 | 80/80 | 60/68 | 126/126 | 77/77 | 80/80 | 62/70 | 128/128 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 85/85 | 90/90 | 69/78 | 126/126 | 87/87 | 90/90 | 71/80 | 128/128 |
| | 460-3-60 | STD | NONE | — | — | 29 | 40 | 28 | 123 | 31 | 45 | 30 | 125 |
| | | | 333A | 6.0 | 7.2 | 29/29 | 40/40 | 28/28 | 123/123 | 31/31 | 45/45 | 30/30 | 125/125 |
| | | | 335A | 11.5 | 13.8 | 40/40 | 40/40 | 33/36 | 123/123 | 42/42 | 45/45 | 35/39 | 125/125 |
| | | | 336A | 14.0 | 16.8 | 57/57 | 60/60 | 46/52 | 123/123 | 59/59 | 60/60 | 48/54 | 125/125 |
| | | | 337A | 21.5 | 25.9 | 72/72 | 80/80 | 58/65 | 123/123 | 74/74 | 80/80 | 60/68 | 125/125 |
| | | | 338A | 24.0 | 28.9 | 82/82 | 90/90 | 66/75 | 123/123 | 84/84 | 90/90 | 68/77 | 125/125 |
| | | MED | NONE | — | — | 12 | 15 | 11 | 56 | 13 | 20 | 13 | 57 |
| | | | 333A | 6.0 | 7.2 | 12 | 15 | 11 | 56 | 13 | 20 | 13 | 57 |
| | | | 335A | 11.5 | 13.8 | 20 | 20 | 18 | 56 | 21 | 25 | 19 | 57 |
| | | | 336A | 14.0 | 16.8 | 23 | 25 | 21 | 56 | 25 | 25 | 22 | 57 |
| | | | 337A | 21.5 | 25.9 | 35 | 35 | 32 | 56 | 36 | 40 | 33 | 57 |
| | | | 338A | 24.0 | 28.9 | 38 | 40 | 35 | 56 | 40 | 40 | 36 | 57 |
| | | HIGH | NONE | — | — | 13 | 15 | 12 | 57 | 14 | 20 | 13 | 58 |
| | | | 333A | 6.0 | 7.2 | 13 | 15 | 12 | 57 | 14 | 20 | 13 | 58 |
| | | | 335A | 11.5 | 13.8 | 20 | 20 | 18 | 57 | 21 | 25 | 19 | 58 |
| | | | 336A | 14.0 | 16.8 | 24 | 25 | 22 | 57 | 25 | 25 | 23 | 58 |
| | | | 337A | 21.5 | 25.9 | 35 | 35 | 32 | 57 | 36 | 40 | 33 | 58 |
| | | | 338A | 24.0 | 28.9 | 39 | 40 | 35 | 57 | 40 | 40 | 37 | 58 |
| 575-3-60 | STD | NONE | — | — | 14 | 20 | 13 | 58 | 15 | 20 | 14 | 59 | |
| | | 340A | 15.0 | 14.4 | 14 | 20 | 13 | 58 | 15 | 20 | 14 | 59 | |
| | | 341A | 25.0 | 24.1 | 21 | 25 | 19 | 58 | 23 | 25 | 20 | 59 | |
| | MED | NONE | — | — | 25 | 25 | 23 | 58 | 26 | 30 | 24 | 59 | |
| | | 340A | 15.0 | 14.4 | 36 | 40 | 33 | 58 | 38 | 40 | 34 | 59 | |
| | | 341A | 25.0 | 24.1 | 40 | 40 | 37 | 58 | 41 | 45 | 38 | 59 | |
| | HIGH | NONE | — | — | 9 | 15 | 9 | 43 | 11 | 15 | 11 | 45 | |
| | | 340A | 15.0 | 14.4 | 20 | 20 | 18 | 43 | 23 | 25 | 20 | 45 | |
| | | 341A | 25.0 | 24.1 | 28 | 30 | 25 | 43 | 30 | 30 | 27 | 45 | |

50GC**06 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER (cont)

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER | | | w/ POWERED CONVENIENCE OUTLET | | | | | | | |
|----------------------|-----------------|-------------|--------------------|-------------|-----------|-------------------------------|--------------|-----------------|---------|--------------------------------------|--------------|-----------------|---------|
| | | | CRHEATER ***A00 | NOM (kW) | FLA | NO POWER EXHAUST | | | | w/ POWER EXHAUST (powered from unit) | | | |
| | | | | | | MCA | HACR BRKR | DISCONNECT SIZE | | MCA | HACR BRKR | DISCONNECT SIZE | |
| | | | | | | | | FLA | LRA | | | FLA | LRA |
| **06 | 208/230-3-60 | STD | NONE | — | — | 34 | 45 | 34 | 129 | 36 | 50 | 36 | 131 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 35/35 | 45/45 | 34/34 | 129/129 | 37/37 | 50/50 | 36/36 | 131/131 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 47/47 | 50/50 | 39/43 | 129/129 | 49/49 | 50/50 | 41/45 | 131/131 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 64/64 | 70/70 | 52/58 | 129/129 | 66/66 | 70/70 | 54/60 | 131/131 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 79/79 | 80/80 | 64/72 | 129/129 | 81/81 | 90/90 | 66/74 | 131/131 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 89/89 | 90/90 | 73/82 | 129/129 | 91/91 | 100/100 | 75/84 | 131/131 |
| | | MED | NONE | — | — | 36 | 50 | 36 | 131 | 38 | 50 | 38 | 133 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 37/37 | 50/50 | 36/36 | 131/131 | 39/39 | 50/50 | 38/38 | 133/133 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 49/49 | 50/50 | 41/45 | 131/131 | 51/51 | 60/60 | 43/47 | 133/133 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 65/65 | 70/70 | 54/60 | 131/131 | 68/68 | 70/70 | 56/62 | 133/133 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 80/80 | 80/80 | 66/73 | 131/131 | 83/83 | 90/90 | 68/76 | 133/133 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 91/91 | 100/100 | 74/83 | 131/131 | 93/93 | 100/100 | 76/85 | 133/133 |
| | | HIGH | NONE | — | — | 33 | 45 | 33 | 128 | 35 | 50 | 35 | 130 |
| | | | 324A | 4.9/6.5 | 13.6/15.6 | 34/34 | 45/45 | 33/33 | 128/128 | 36/36 | 50/50 | 35/35 | 130/130 |
| | | | 326A | 7.9/10.5 | 21.9/25.3 | 46/46 | 50/50 | 38/42 | 128/128 | 48/48 | 50/50 | 40/44 | 130/130 |
| | | | 328A | 12.0/16.0 | 33.4/38.5 | 63/63 | 70/70 | 51/57 | 128/128 | 65/65 | 70/70 | 53/59 | 130/130 |
| | | | 331A | 15.8/21.0 | 43.8/50.5 | 78/78 | 80/80 | 63/71 | 128/128 | 80/80 | 80/80 | 65/73 | 130/130 |
| | | | 332A | 18.4/24.5 | 51.1/58.9 | 88/88 | 90/90 | 72/81 | 128/128 | 90/90 | 100/100 | 74/83 | 130/130 |
| | 460-3-60 | STD | NONE | — | — | 14 | 20 | 14 | 58 | 15 | 20 | 15 | 59 |
| | | | 333A | 6.0 | 7.2 | 14 | 20 | 14 | 58 | 15 | 20 | 15 | 59 |
| | | | 335A | 11.5 | 13.8 | 22 | 25 | 20 | 58 | 24 | 25 | 21 | 59 |
| | | | 336A | 14.0 | 16.8 | 26 | 30 | 24 | 58 | 27 | 30 | 25 | 59 |
| | | | 337A | 21.5 | 25.9 | 37 | 40 | 34 | 58 | 39 | 40 | 35 | 59 |
| | | | 338A | 24.0 | 28.9 | 41 | 45 | 37 | 58 | 42 | 45 | 39 | 59 |
| | | MED | NONE | — | — | 15 | 20 | 14 | 59 | 16 | 20 | 16 | 60 |
| | | | 333A | 6.0 | 7.2 | 15 | 20 | 14 | 59 | 16 | 20 | 16 | 60 |
| | | | 335A | 11.5 | 13.8 | 23 | 25 | 21 | 59 | 24 | 25 | 22 | 60 |
| | | | 336A | 14.0 | 16.8 | 27 | 30 | 24 | 59 | 28 | 30 | 25 | 60 |
| | | | 337A | 21.5 | 25.9 | 38 | 40 | 35 | 59 | 39 | 40 | 36 | 60 |
| | | | 338A | 24.0 | 28.9 | 42 | 45 | 38 | 59 | 43 | 45 | 39 | 60 |
| | | HIGH | NONE | — | — | 16 | 20 | 16 | 60 | 17 | 20 | 17 | 61 |
| | | | 333A | 6.0 | 7.2 | 16 | 20 | 16 | 60 | 17 | 20 | 17 | 61 |
| | | | 335A | 11.5 | 13.8 | 24 | 25 | 22 | 60 | 25 | 25 | 23 | 61 |
| | | | 336A | 14.0 | 16.8 | 28 | 30 | 25 | 60 | 29 | 30 | 26 | 61 |
| | | | 337A | 21.5 | 25.9 | 39 | 40 | 36 | 60 | 40 | 45 | 37 | 61 |
| | | | 338A | 24.0 | 28.9 | 43 | 45 | 39 | 60 | 44 | 45 | 40 | 61 |
| 575-3-60 | STD | NONE | — | — | 11 | 15 | 10 | 45 | 13 | 15 | 13 | 47 | |
| | | 340A | 15.0 | 14.4 | 22 | 25 | 20 | 45 | 25 | 25 | 22 | 47 | |
| | | 341A | 25.0 | 24.1 | 30 | 30 | 27 | 45 | 32 | 35 | 29 | 47 | |
| | | NONE | — | — | 11 | 15 | 11 | 46 | 13 | 15 | 13 | 48 | |
| | MED | 340A | 15.0 | 14.4 | 23 | 25 | 21 | 46 | 25 | 25 | 23 | 48 | |
| | | 341A | 25.0 | 24.1 | 30 | 30 | 27 | 46 | 32 | 35 | 29 | 48 | |
| | | NONE | — | — | 12 | 15 | 12 | 47 | 14 | 15 | 14 | 49 | |
| | | 340A | 15.0 | 14.4 | 24 | 25 | 21 | 47 | 26 | 30 | 24 | 49 | |
| | HIGH | 341A | 25.0 | 24.1 | 31 | 35 | 28 | 47 | 33 | 35 | 30 | 49 | |



50GC04 ELECTRIC HEAT DATA — WITHOUT NON-FUSED DISCONNECT**

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER PART NUMBER | NOM (kW) | APPLICATION (kW) | APPLICATION OUTPUT (MBH) | SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXA00 | | | |
|----------------------|-----------------|----------------|--------------------------------|-------------|---------------------|-----------------------------|---|--------------------------|-------------|--------------------------|
| | | | | | | | NO C.O. OR UNPOWERED C.O. | | w/PWRD C.O. | |
| | | | | | | | NO P.E. | w/P.E. (pwrd fr/unit) | NO P.E | w/P.E. (pwrd fr/unit) |
| **04 | 208/230-1-60 | STD | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — |
| | | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | — | 037 | — | — |
| | | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 037 | 040 | — | — |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | MED | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — |
| | | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — |
| | | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 040 | 040 | — | — |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | HIGH | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — |
| | | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | CRHEATER325A00 | | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | CRHEATER326A00 | | 10.5 | 7.9/9.6 | 26.9/32.9 | 040 | 040 | — | — | |
| | 208/230-3-60 | STD | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — |
| | | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | — | — | — | — |
| | | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | — | — | — | — |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 037 | 038 | |
| | | MED | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — |
| | | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | — | — | — | — |
| | | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | — | — | — | — |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 037 | 038 | |
| HIGH | | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — | |
| | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — | |
| | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | — | — | — | — | | |
| | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | — | — | — | — | | |
| CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | | | |
| 460-3-60 | STD | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER334A00 | 8.8 | 8.1 | 27.6 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | MED | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER334A00 | 8.8 | 8.1 | 27.6 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | HIGH | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER334A00 | 8.8 | 8.1 | 27.6 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| 575-3-60 | STD | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | MED | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | HIGH | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |

50GC**04 ELECTRIC HEAT DATA — WITH NON-FUSED DISCONNECT

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER PART NUMBER | NOM (kW) | APPLICATION (kW) | APPLICATION OUTPUT (MBH) | SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00 | | | |
|----------------|--------------|----------------|-----------------------------|-----------|------------------|--------------------------|--|-----------------------|-------------|-----------------------|
| | | | | | | | NO C.O. OR UNPOWERED C.O. | | w/PWRD C.O. | |
| | | | | | | | NO P.E. | w/P.E. (pwrd fr/unit) | NO P.E. | w/P.E. (pwrd fr/unit) |
| 208/230-1-60 | STD | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | — | — | |
| | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 037 | 040 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | MED | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | — | — | |
| | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 040 | 040 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | HIGH | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | — | — | |
| | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 040 | 040 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | 208/230-3-60 | STD | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | 037 | 037 |
| | | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 |
| | | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | 037 | 037 |
| | | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 037 | 037 | 037 | 037 |
| | | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 037 | 038 |
| MED | | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | 037 | 037 | |
| | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | 037 | 037 | |
| | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 037 | 037 | 037 | 037 | |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 037 | 038 | |
| HIGH | | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | 037 | 037 | |
| | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | 037 | 037 | |
| | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 037 | 037 | 037 | 037 | |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | |
| 460-3-60 | STD | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER334A00 | 8.8 | 8.1 | 27.6 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | MED | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER334A00 | 8.8 | 8.1 | 27.6 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | HIGH | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER334A00 | 8.8 | 8.1 | 27.6 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| 575-3-60 | STD | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | MED | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | HIGH | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |



50GC05 ELECTRIC HEAT DATA — WITHOUT NON-FUSED DISCONNECT**

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER PART NUMBER | NOM (kW) | APPLICATION (kW) | APPLICATION OUTPUT (MBH) | SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00 | | | |
|-----------------|-----------------|-----------------|-----------------------------|-----------|------------------|--------------------------|--|-----------------------|-------------|-----------------------|
| | | | | | | | NO C.O. OR UNPOWERED C.O. | | w/PWRD C.O. | |
| | | | | | | | NO P.E. | w/P.E. (pwrd fr/unit) | NO P.E. | w/P.E. (pwrd fr/unit) |
| 208/230-1-60 | STD | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 040 | 040 | — | — | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | |
| | | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 040 | 040 | — | — | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | |
| | | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | — | — | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | | |
| | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 040 | 040 | — | — | | |
| | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | | |
| | 208/230-3-60 | STD | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | — | — | — | — |
| | | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 037 | 038 |
| | | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 038 | 038 | 038 | 038 |
| | | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 |
| | | MED | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| CRHEATER325A00 | | | 8.7 | 6.5/8.0 | 22.3/27.3 | — | — | — | — | |
| CRHEATER328A00 | | | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | |
| CRHEATER330A00* | | | 19.2 | 14.4/17.6 | 49.2/60.2 | 038 | 038 | 038 | 038 | |
| CRHEATER331A00† | | | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | |
| HIGH | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | — | — | — | — | |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 038 | 038 | 038 | 038 | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | |
| 460-3-60 | STD | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| | MED | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| | HIGH | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| 575-3-60 | STD | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | MED | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | HIGH | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |

*Do not use with size 05 horizontal duct configuration units.

†Do not use with size 05 vertical duct configuration units.

50GC**05 ELECTRIC HEAT DATA — WITH NON-FUSED DISCONNECT

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER PART NUMBER | NOM (kW) | APPLICATION (kW) | APPLICATION OUTPUT (MBH) | SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00 | | | |
|----------------|--------------|-----------------|-----------------------------|-----------|------------------|--------------------------|--|-----------------------|-------------|-----------------------|
| | | | | | | | NO C.O. OR UNPOWERED C.O. | | w/PWRD C.O. | |
| | | | | | | | NO P.E. | w/P.E. (pwrd fr/unit) | NO P.E. | w/P.E. (pwrd fr/unit) |
| 208/230-1-60 | STD | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 040 | 040 | — | — | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | |
| | | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 040 | 040 | — | — | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | |
| | MED | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 040 | 040 | — | — | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | |
| | HIGH | CRHEATER323A00 | 4.4 | 3.3/4.0 | 11.3/13.8 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 040 | 040 | — | — | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | |
| 208/230-3-60 | STD | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | 037 | 037 | |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 037 | 038 | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 038 | 038 | 038 | 038 | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | |
| | MED | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | 037 | 037 | |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 038 | 038 | 038 | 038 | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | |
| | HIGH | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | 037 | 037 | |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | |
| | | CRHEATER330A00* | 19.2 | 14.4/17.6 | 49.2/60.2 | 038 | 038 | 038 | 038 | |
| | | CRHEATER331A00† | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | |
| | 460-3-60 | STD | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — |
| | | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — |
| | | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — |
| | | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 |
| | | MED | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — |
| | | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — |
| | | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — |
| | | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 |
| | | HIGH | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — |
| CRHEATER335A00 | | | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| CRHEATER336A00 | | | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| CRHEATER337A00 | | | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| 575-3-60 | STD | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | MED | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | HIGH | CRHEATER339A00 | 10.0 | 9.2 | 31.3 | — | — | — | — | |
| | | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |

*Do not use with size 05 horizontal duct configuration units.

†Do not use with size 05 vertical duct configuration units.



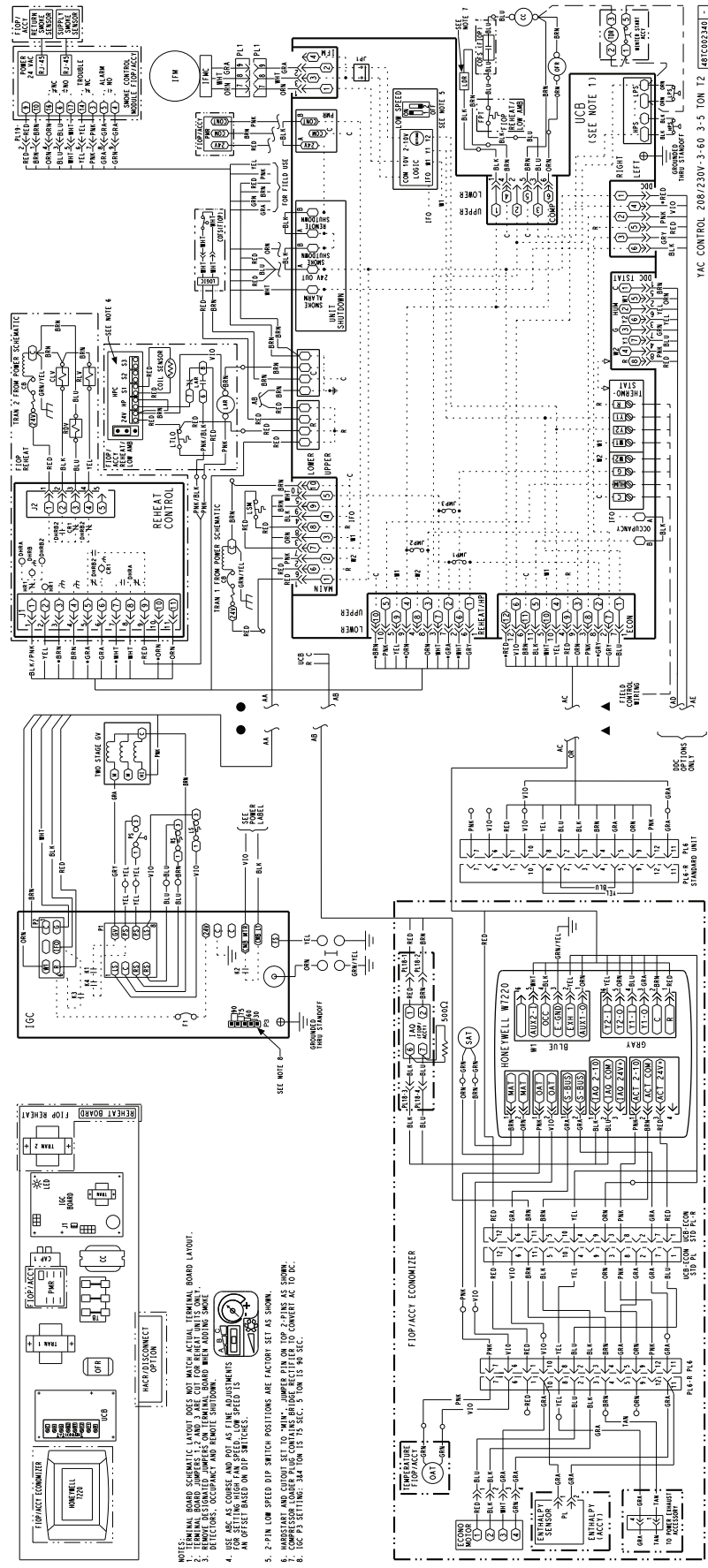
50GC06 ELECTRIC HEAT DATA — WITHOUT NON-FUSED DISCONNECT**

| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER PART NUMBER | NOM (kW) | APPLICATION (kW) | APPLICATION OUTPUT (MBH) | SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXXA00 | | | |
|----------------------|-----------------|----------------|--------------------------------|-------------|---------------------|-----------------------------|---|--------------------------|-------------|--------------------------|
| | | | | | | | NO C.O. OR UNPOWERED C.O. | | w/PWRD C.O. | |
| | | | | | | | NO P.E. | w/P.E. (pwrd fr/unit) | NO P.E. | w/P.E. (pwrd fr/unit) |
| **06 | 208/230-1-60 | STD | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — |
| | | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — |
| | | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — |
| | | | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — |
| | | MED | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | - | - | — | — |
| | | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — |
| | | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — |
| | | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — |
| | | | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — |
| | 208/230-3-60 | STD | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | — | — | — | — |
| | | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 |
| | | | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 |
| | | | CRHEATER332A00 | 24.5 | 18.4/22.5 | 62.8/76.8 | 038 | 038 | 038 | 038 |
| | | MED | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — |
| | | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | — | — | — | 037 |
| | | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 038 | 038 | 038 |
| | | | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 |
| | | | CRHEATER332A00 | 24.5 | 18.4/22.5 | 62.8/76.8 | 038 | 038 | 038 | 038 |
| HIGH | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | — | — | — | — | | |
| | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | — | — | — | — | | |
| | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | | |
| | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | | |
| | CRHEATER332A00 | 24.5 | 18.4/22.5 | 62.8/76.8 | 038 | 038 | 038 | 038 | | |
| 460-3-60 | STD | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER338A00 | 24.0 | 22.0 | 75.2 | 037 | 037 | 037 | 037 | |
| | MED | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER338A00 | 24.0 | 22.0 | 75.2 | 037 | 037 | 037 | 037 | |
| | HIGH | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER338A00 | 24.0 | 22.0 | 75.2 | 037 | 037 | 037 | 037 | |
| 575-3-60 | STD | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | | CRHEATER341A00 | 25.0 | 23.0 | 78.3 | 037 | 037 | 037 | 037 | |
| | MED | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | | CRHEATER341A00 | 25.0 | 23.0 | 78.3 | 037 | 037 | 037 | 037 | |
| | HIGH | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | | CRHEATER341A00 | 25.0 | 23.0 | 78.3 | 037 | 037 | 037 | 037 | |

50GC**06 ELECTRIC HEAT DATA — WITH NON-FUSED DISCONNECT

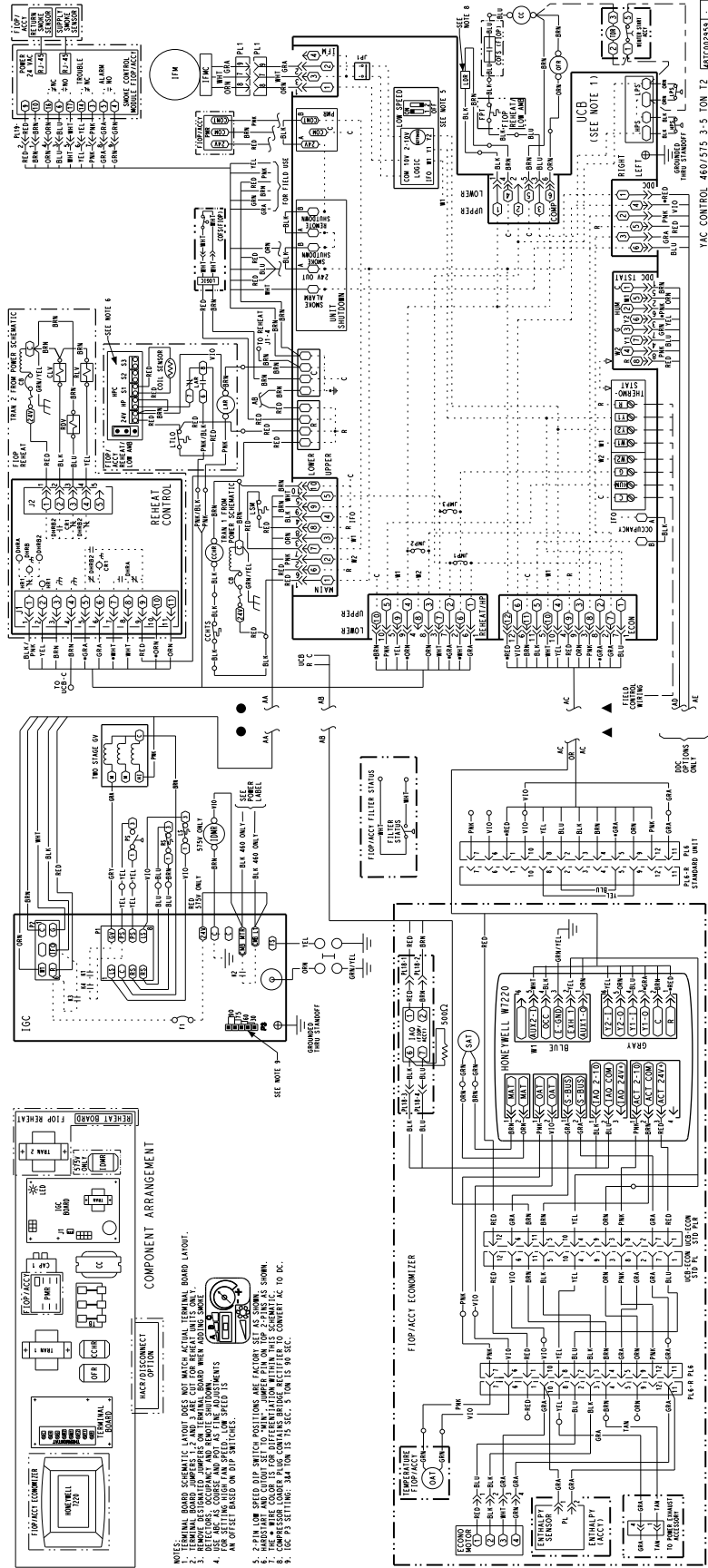
| 50GC UNIT SIZE | NOM. V-Ph-Hz | IFM TYPE | ELECTRIC HEATER PART NUMBER | NOM (kW) | APPLICATION (kW) | APPLICATION OUTPUT (MBH) | SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXXA00 | | | |
|----------------------|-----------------|----------------|--------------------------------|-------------|---------------------|-----------------------------|---|--------------------------|-------------|--------------------------|
| | | | | | | | NO C.O. OR UNPOWERED C.O. | | w/PWRD C.O. | |
| | | | | | | | NO P.E. | w/P.E. (pwrd fr/unit) | NO P.E. | w/P.E. (pwrd fr/unit) |
| 208/230-1-60 | STD | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | |
| | | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | |
| | MED | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | — | — | |
| | | CRHEATER325A00 | 8.7 | 6.5/8.0 | 22.3/27.3 | 037 | 037 | — | — | |
| | | CRHEATER327A00 | 13.0 | 9.8/11.9 | 33.3/40.7 | 040 | 040 | — | — | |
| | | CRHEATER329A00 | 17.4 | 13.1/16.0 | 44.6/54.5 | 040 | 040 | — | — | |
| | | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 040 | 040 | — | — | |
| | 208/230-3-60 | STD | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 |
| | | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 037 | 037 | 037 | 037 |
| CRHEATER328A00 | | | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | |
| CRHEATER331A00 | | | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | |
| CRHEATER332A00 | | | 24.5 | 18.4/22.5 | 62.8/76.8 | 038 | 038 | 038 | 038 | |
| MED | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 037 | 037 | 037 | 037 | |
| | | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 038 | 038 | 038 | |
| | | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | |
| | | CRHEATER332A00 | 24.5 | 18.4/22.5 | 62.8/76.8 | 038 | 038 | 038 | 038 | |
| HIGH | | CRHEATER324A00 | 6.5 | 4.9/6.0 | 16.7/20.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER326A00 | 10.5 | 7.9/9.6 | 26.9/32.9 | 037 | 037 | 037 | 037 | |
| | CRHEATER328A00 | 16.0 | 12.0/14.7 | 41.0/50.1 | 037 | 037 | 038 | 038 | | |
| | CRHEATER331A00 | 21.0 | 15.8/19.3 | 53.8/65.8 | 038 | 038 | 038 | 038 | | |
| | CRHEATER332A00 | 24.5 | 18.4/22.5 | 62.8/76.8 | 038 | 038 | 038 | 038 | | |
| 460-3-60 | STD | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER338A00 | 24.0 | 22.0 | 75.2 | 037 | 037 | 037 | 037 | |
| | MED | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| | | CRHEATER336A00 | 14.0 | 12.9 | 43.9 | — | — | — | — | |
| | | CRHEATER337A00 | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | |
| | | CRHEATER338A00 | 24.0 | 22.0 | 75.2 | 037 | 037 | 037 | 037 | |
| | HIGH | CRHEATER333A00 | 6.0 | 5.5 | 18.8 | — | — | — | — | |
| | | CRHEATER335A00 | 11.5 | 10.6 | 36.0 | — | — | — | — | |
| CRHEATER336A00 | | 14.0 | 12.9 | 43.9 | — | — | — | — | | |
| CRHEATER337A00 | | 21.5 | 19.7 | 67.4 | 037 | 037 | 037 | 037 | | |
| CRHEATER338A00 | | 24.0 | 22.0 | 75.2 | 037 | 037 | 037 | 037 | | |
| 575-3-60 | STD | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | | CRHEATER341A00 | 25.0 | 23.0 | 78.3 | 037 | 037 | 037 | 037 | |
| | MED | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | | CRHEATER341A00 | 25.0 | 23.0 | 78.3 | 037 | 037 | 037 | 037 | |
| | HIGH | CRHEATER340A00 | 15.0 | 13.8 | 47.0 | — | — | — | — | |
| | | CRHEATER341A00 | 25.0 | 23.0 | 78.3 | 037 | 037 | 037 | 037 | |

TYPICAL CONTROL WIRING DIAGRAM — 48GC 04-06 208-230/3/60 UNIT WITH ELECTRO-MECHANICAL CONTROL AND W7220 ECONOMIZER

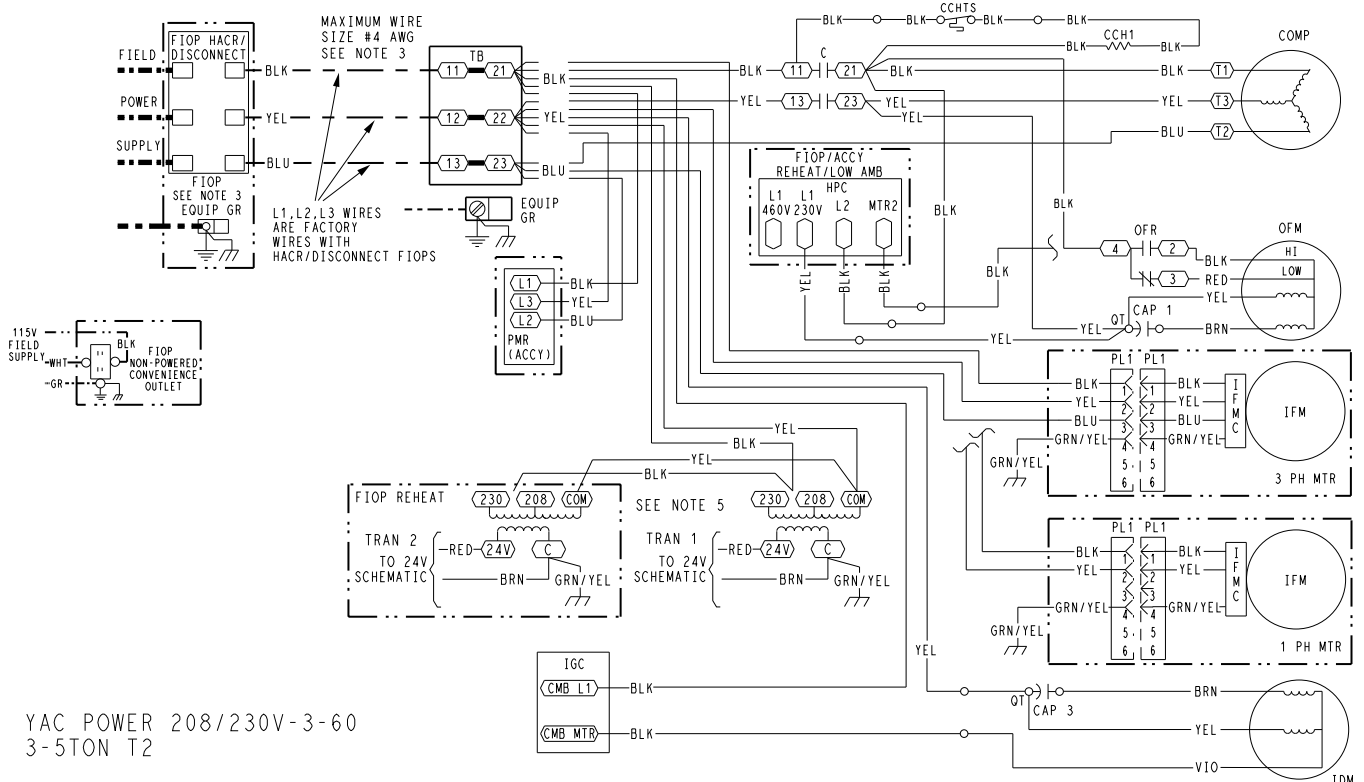


- NOTE: TERMINAL BOARD SCHEMATIC LAYOUT DOES NOT MATCH ACTUAL TERMINAL BOARD LAYOUT.
1. TERMINAL BOARD JUMPER 1, 2 AND 3 ARE CUT FOR REHEAT UNITS ONLY.
 2. TERMINAL BOARD JUMPER 4 IS CUT FOR REHEAT UNITS ONLY.
 3. DETECTORS, OCCUPANCY AND REMOTE SHUTDOWN.
 4. USE ABC AS COARSE AND ROT AS FINE ADJUSTMENTS.
 5. 2-PIN LOW SPEED DIP SWITCH POSITIONS ARE FACTORY SET AS SHOWN.
 6. HARDWARE AND CIRCUIT SET TO "MIN". JUMPER PIN ON TOP 2-PINS AS SHOWN.
 7. LOW P3 SETTING: 3A TON IS 75 SEC. 3.5 TON IS 90 SEC.
 8. LOW P3 SETTING: 3A TON IS 75 SEC. 3.5 TON IS 90 SEC.

TYPICAL CONTROL WIRING DIAGRAM — 48GC 04-06 575/3/60 UNIT WITH ELECTRO-MECHANICAL CONTROL AND W7220 ECONOMIZER



TYPICAL 48GC 04-06 POWER WIRING DIAGRAM, 208-230/3/60 UNIT SHOWN



YAC POWER 208/230V-3-60
3-5TON T2

NOTES

- IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED. IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT.
- COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
- USE COPPER CONDUCTOR ONLY.
- DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
- ON 208/230V UNITS, TRAN IS WIRED FOR 230V. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.

LEGEND

- MARKED WIRE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- TERMINAL BLOCK
- SPLICE
- SPLICE (MARKED)
- FACTORY WIRING
- FIELD CONTROL WIRING
- FIELD POWER WIRING
- CIRCUIT BOARD TRACE
- ACCESSORY OR OPTIONAL WIRING

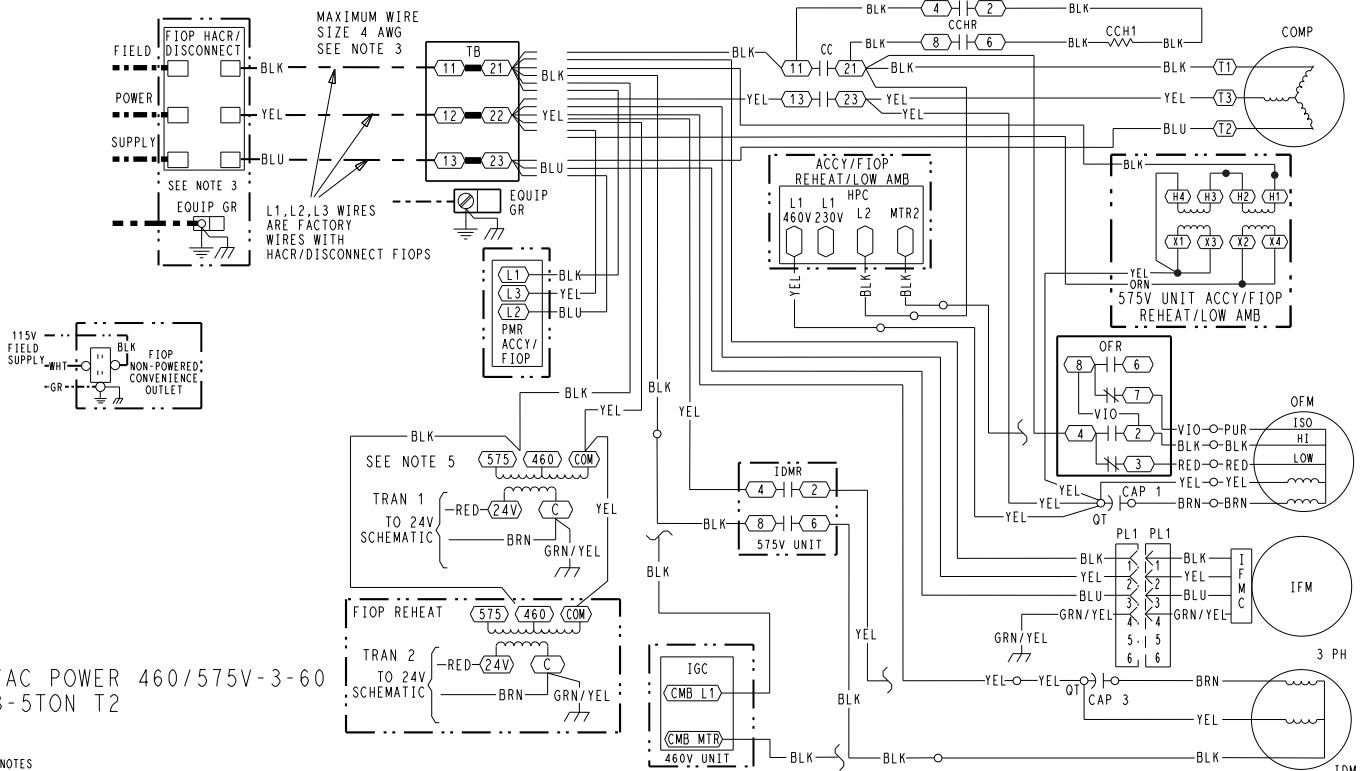
- ACCY ACCESSORY
- AUX AUXILIARY
- AWG AMERICAN WIRE GAGE
- BA BUILDING AUTOMATION NETWORK
- CC CONTACTOR, COMPRESSOR COMMON
- CAP CAPACITOR
- CB CIRCUIT BREAKER
- CCH CRANKCASE HEATER
- CCHR CRANKCASE HEATER RELAY
- CCHTS CRANKCASE HEATER TEMP SWITCH
- CLO COMPRESSOR LOCKOUT
- CLV COOLING LIQUID VALVE
- CMB CENTRIFUGAL MOTOR BLOWER
- COFS CONDENSATE OVERFLOW SWITCH
- COM SIGNAL COMMON
- COMP COMPRESSOR MOTOR
- DDC DIRECT DIGITAL CONTROL
- DFB DEFROST BOARD
- DFT DEFROST THERMOSTAT
- EHR ELECTRIC HEAT RELAY
- ENTH ENTHALPY
- EQUIP EQUIPMENT
- ERV ENERGY RECOVERY VENTILATOR
- ESL ENTHALPY SENSOR - LOW
- FB FUSE BLOCK
- F1OP FACTORY INSTALLED OPTION
- FPT FREEZE PROTECTION THERMOSTAT
- FS FLAME SWITCH
- FST FAN HOUSING TEMP. SENSOR
- FU FUSE
- G THERMOSTAT FAN CALL
- GR(GND) GROUND
- GV GAS VALVE

- HACR HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER
- HGRH HOT GAS REHEAT
- HPC HEAD PRESSURE CONTROL
- HPS HIGH PRESSURE SWITCH
- HR HEATER RELAY
- HUM HUMIDISTAT
- I IGNITOR
- IAO INDOOR AIR QUALITY SENSORS
- IDM INDUCED DRAFT MOTOR
- IDMR INDUCED DRAFT RELAY
- IFM INDOOR FAN MOTOR
- IFMC INDOOR FAN MOTOR CONTROL
- IFO INDOOR FAN ON SIGNAL
- IGC INTEGRATED GAS CONTROL
- IRH INDOOR RELATIVE HUMIDITY
- JMP JUMPER
- L1 LINE 1
- LA LOW AMBIENT LOCKOUT
- LAR LOW AMBIENT RELAY
- LAS LOW AMBIENT SWITCH
- LDR COMPRESSOR LOADER
- LEN LOCAL EQUIPMENT NETWORK
- LOC LOSS OF CHARGE
- LOOP PWR CURRENT LOOP POWER
- LPS LOW PRESSURE SWITCH
- LS LIMIT SWITCH
- LSM LIMIT SWITCH (MANUAL RESET)
- LTL0 LOW TEMP LOCKOUT
- LTL1 LOW TEMP LOCKOUT
- MBB MAIN BASE BOARD
- MOV METAL OXIDE VARISTOR
- MTR MOTOR
- DAO OUTDOOR AIR QUALITY
- OAT OUTDOOR AIR TEMP. SENSOR
- OFM OUTDOOR FAN MOTOR
- OFR OUTDOOR FAN RELAY
- OL OVERLOAD

- PER POWER EXHAUST RELAY
- PH PHASE
- PL PLUG ASSEMBLY
- POT POTENTIOMETER
- PMR PHASE MONITOR RELAY
- PS PRESSURE SWITCH
- PWM PULSE WIDTH MODULATION
- QT QUADRUPLE TERMINAL
- R THERMOSTAT POWER
- RAT RETURN AIR TEMP. SENSOR
- RDV REHEAT DISCHARGE VALVE
- RH RELATIVE HUMIDITY
- RLV REHEAT LIQUID VALVE
- RNET LOCAL ACCESS NETWORK
- RS ROLLOUT SWITCH
- RVS REVERSING VALVE SOLENOID
- SAT SUPPLY AIR TEMP SENSOR
- SDP SYSTEM DISCHARGE PRESSURE
- SPRH SPACE RELATIVE HUMIDITY
- SPT SPACE TEMPERATURE SENSOR
- SPT0 SPACE TEMPERATURE OFFSET
- SSP SYSTEM SUCTION PRESSURE
- STD STANDARD
- SW SWITCH
- TB TERMINAL BLOCK
- TDR TIME DELAY RELAY
- TRAN TRANSFORMER
- UCB UNIT CONTROL BOARD
- W1 1st STAGE OF HEATING CALL
- W2 2nd STAGE OF HEATING CALL
- Y1 1st STAGE OF COOLING CALL
- Y2 2nd STAGE OF COOLING CALL

48TC002791 A

TYPICAL 48GC 04-06 POWER WIRING DIAGRAM, 460-575/3/60 UNIT SHOWN



YAC POWER 460/575V-3-60
3-5TON T2

- NOTES**
- IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT
 - COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
 - USE COPPER CONDUCTOR ONLY.
 - DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
 - TRANSFORMER IS DEDICATED BASED ON UNIT VOLTAGE. TAPS ONLY SHOWN TO SIMPLIFY SCHEMATIC.

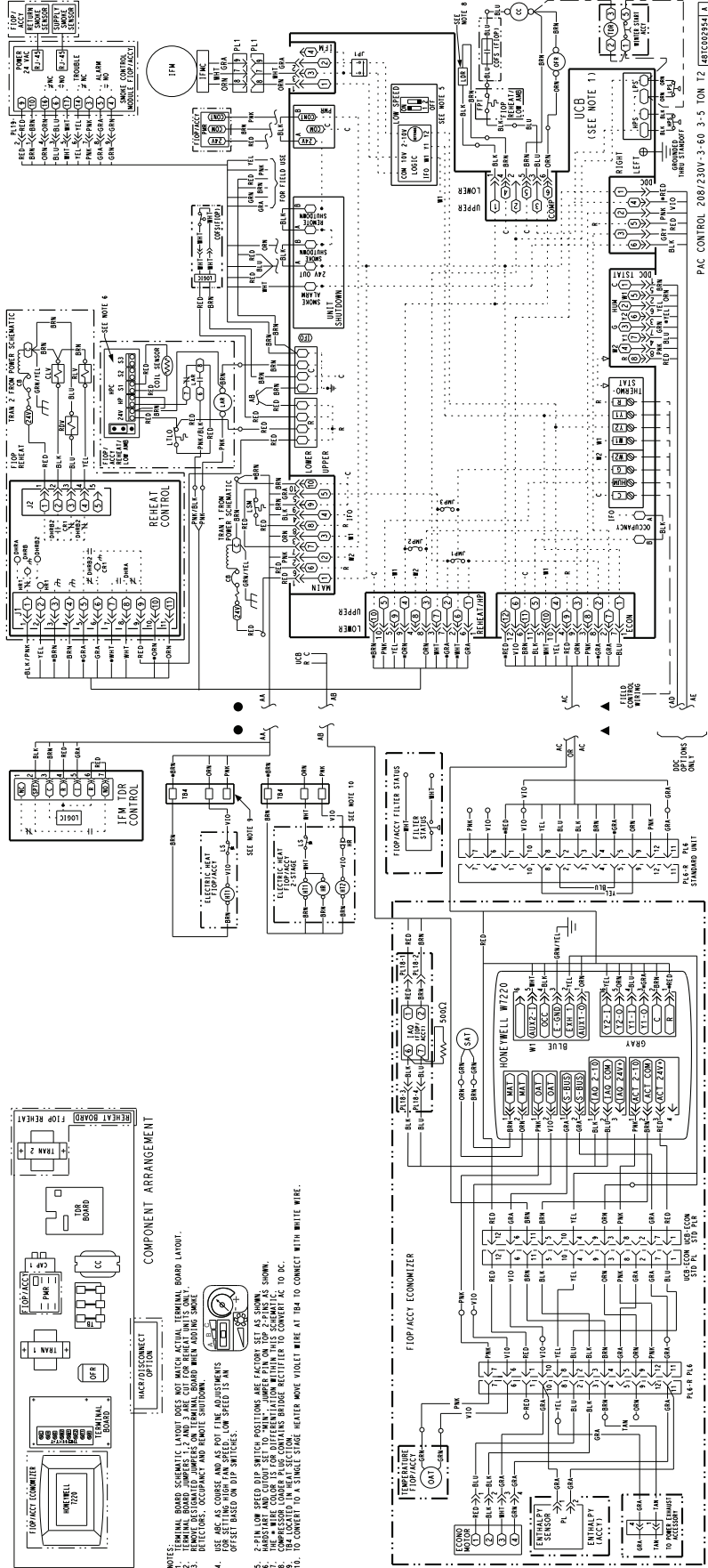
LEGEND

- MARKED WIRE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- TERMINAL BLOCK
- SPLICE
- SPLICE (MARKED)
- FACTORY WIRING
- FIELD CONTROL WIRING
- FIELD POWER WIRING
- CIRCUIT BOARD TRACE
- ACCESSORY OR OPTIONAL WIRING

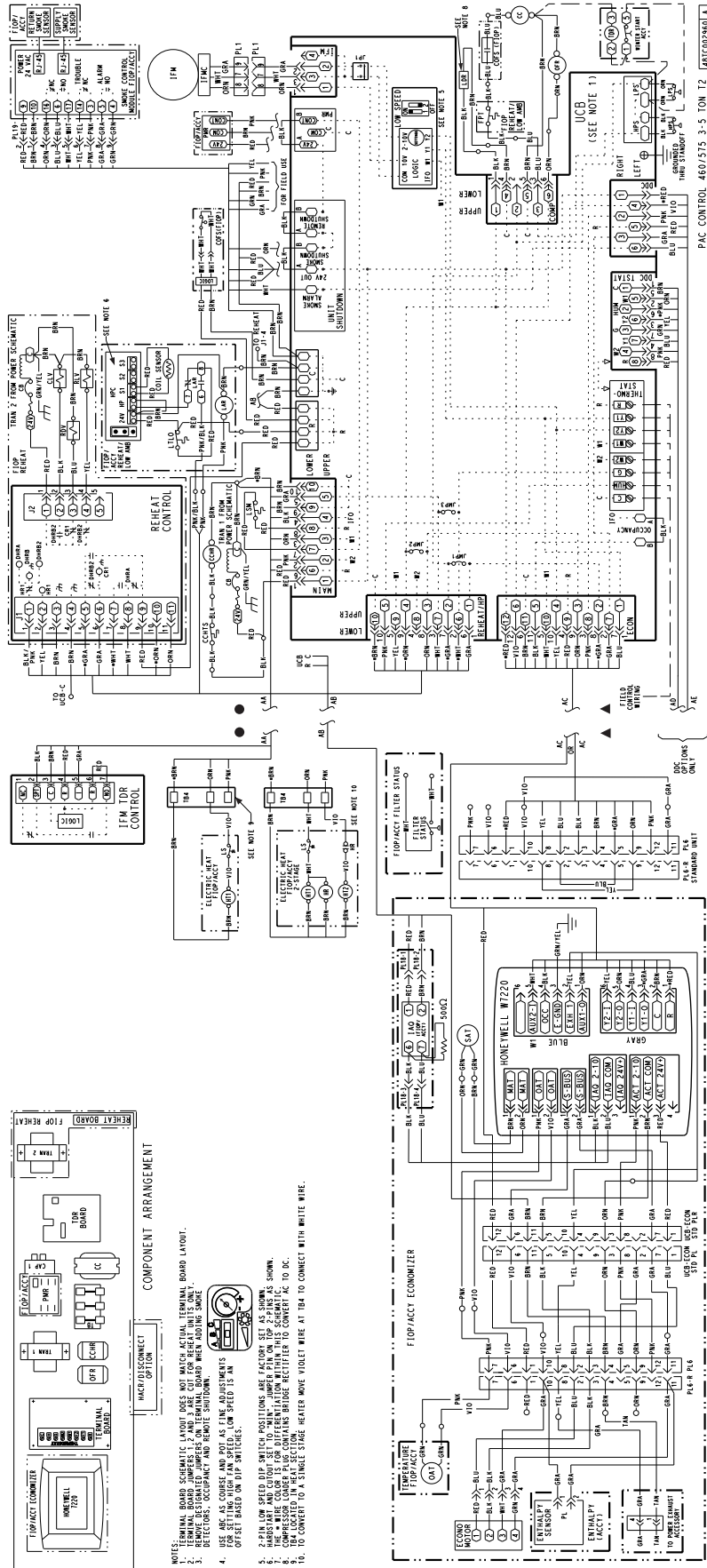
| | | | | | |
|---------|--|------|-----------------------------|------|---------------------------|
| ACCY | ACCESSORY | HGRH | HOT GAS REHEAT | PER | POWER EXHAUST RELAY |
| AUX | AUXILIARY | HPC | HEAD PRESSURE CONTROL | PH | PHASE |
| AWG | AMERICAN WIRE GAGE | HPS | HIGH PRESSURE SWITCH | PL | PLUG ASSEMBLY |
| BA | BUILDING AUTOMATION NETWORK | HR | HEATER RELAY | POT | POTENTIOMETER |
| CC | CONTACTOR, COMPRESSOR | HUM | HUMIDISTAT | PMR | PHASE MONITOR RELAY |
| CCM | COMMON | I | IGNITOR | PS | PRESSURE SWITCH |
| CAP | CAPACITOR | IAQ | INDOOR AIR QUALITY SENSORS | PWM | PULSE WIDTH MODULATION |
| CB | CIRCUIT BREAKER | IDM | INDUCED DRAFT MOTOR | QT | QUADRUPLE TERMINAL |
| CCH | CRANKCASE HEATER | IDMR | INDUCED DRAFT RELAY | R | THERMOSTAT POWER |
| CCHS | CRANKCASE HEATER TEMP SWITCH | IFM | INDOOR FAN MOTOR | RAT | RETURN AIR TEMP. SENSOR |
| CLO | COMPRESSOR LOCKOUT | IFMC | INDOOR FAN MOTOR CONTROL | RDV | REHEAT DISCHARGE VALVE |
| CLV | COOLING LIQUID VALVE | IFO | INDOOR FAN ON SIGNAL | RH | RELATIVE HUMIDITY |
| CMB | CENTRIFUGAL MOTOR BLOWER | IGC | INTEGRATED GAS CONTROL | RLV | REHEAT LIQUID VALVE |
| COFS | CONDENSATE OVERFLOW SWITCH | I | IGNITOR | RNET | LOCAL ACCESS NETWORK |
| COM | SIGNAL COMMON | IRH | INDOOR RELATIVE HUMIDITY | RS | ROLLOUT SWITCH |
| COMP | COMPRESSOR MOTOR | JMP | JUMPER | RVS | REVERSING VALVE SOLENOID |
| DDC | DIRECT DIGITAL CONTROL | L1 | LINE 1 | SAT | SUPPLY AIR TEMP SENSOR |
| DFB | DEFROST BOARD | LA | LOW AMBIENT LOCKOUT | SDP | SYSTEM DISCHARGE PRESSURE |
| DFT | DEFROST THERMOSTAT | LAR | LOW AMBIENT RELAY | SPRH | SPACE RELATIVE HUMIDITY |
| EHR | ELECTRIC HEAT RELAY | LAS | LOW AMBIENT SWITCH | SPT | SPACE TEMPERATURE SENSOR |
| ENTH | ENTHALPY | LDR | COMPRESSOR LOADER | SPTO | SPACE TEMPERATURE OFFSET |
| EQUIP | EQUIPMENT | LEN | LOCAL EQUIPMENT NETWORK | SSP | SYSTEM SUCTION PRESSURE |
| ERV | ENERGY RECOVERY VENTILATOR | LOP | LOSS OF CHARGE | STD | STANDARD |
| ESL | ENTHALPY SENSOR - LOW | LOOP | CURRENT LOOP POWER | SW | SWITCH |
| FB | FUSE BLOCK | LPS | LOW PRESSURE SWITCH | TB | TERMINAL BLOCK |
| FIOP | FACTORY INSTALLED OPTION | LS | LIMIT SWITCH | TDR | TIME DELAY RELAY |
| FPT | FREZE PROTECTION THERMOSTAT | LSM | LIMIT SWITCH (MANUAL RESET) | TRAN | TRANSFORMER |
| FS | FLAME SWITCH | LTL0 | LOW TEMP LOCKOUT | UCB | UNIT CONTROL BOARD |
| FST | FAN HOUSING TEMP. SENSOR | MBB | MAIN BASE BOARD | W1 | 1st STAGE OF HEATING CALL |
| FU | FUSE | MOV | METAL OXIDE VARISTOR | W2 | 2nd STAGE OF HEATING CALL |
| G | THERMOSTAT FAN CALL | MTR | MOTOR | Y1 | 1st STAGE OF COOLING CALL |
| GR(GND) | GROUND | OAO | OUTDOOR AIR QUALITY | Y2 | 2nd STAGE OF COOLING CALL |
| GV | GAS VALVE | OAT | OUTDOOR AIR TEMP. SENSOR | | |
| HACR | HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER | OFM | OUTDOOR FAN MOTOR | | |
| HGRH | HOT GAS REHEAT | OFR | OUTDOOR FAN RELAY | | |
| | | OL | OVERLOAD | | |

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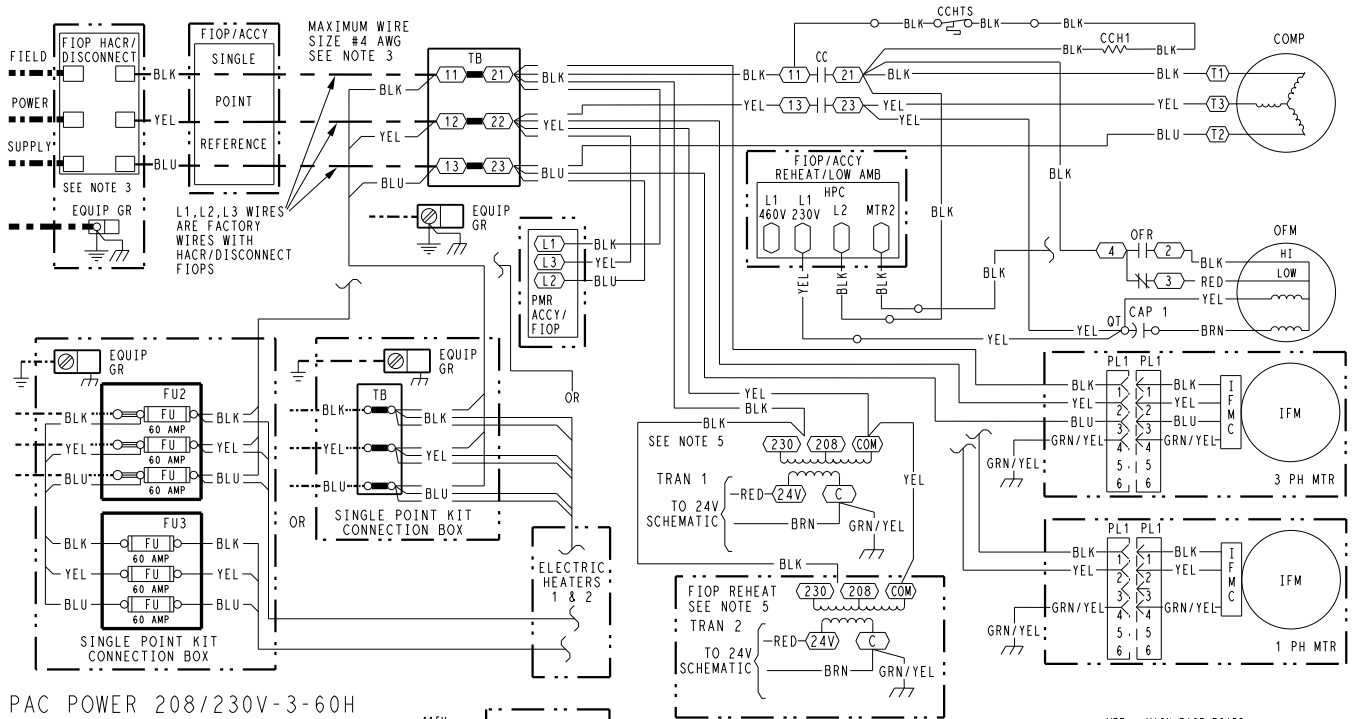
TYPICAL CONTROL WIRING DIAGRAM — 50GC 04-06 208-230/3/60 UNIT WITH ELECTRO-MECHANICAL CONTROL AND W7220 ECONOMIZER



TYPICAL CONTROL WIRING DIAGRAM — 50GC 04-06 460-575/3/60 UNIT WITH ELECTRO-MECHANICAL CONTROL AND W7220 ECONOMIZER



TYPICAL 50GC 04-06 POWER WIRING DIAGRAM, 208-230/3/60 UNIT SHOWN



PAC POWER 208/230V-3-60H
3-5TON T2

NOTES

- IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT.
- COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
- USE COPPER CONDUCTOR ONLY.
- DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
- ON 208/230V UNITS, TRAN IS WIRED FOR 230V. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.

LEGEND

- (X) MARKED WIRE
- (X) TERMINAL (MARKED)
- () TERMINAL (UNMARKED)
- (T) TERMINAL BLOCK
- SPLICE
- () SPLICE (MARKED)
- FACTORY WIRING
- - - FIELD CONTROL WIRING
- - - - - FIELD POWER WIRING
- - - - - CIRCUIT BOARD TRACE
- - - - - ACCESSORY OR OPTIONAL WIRING

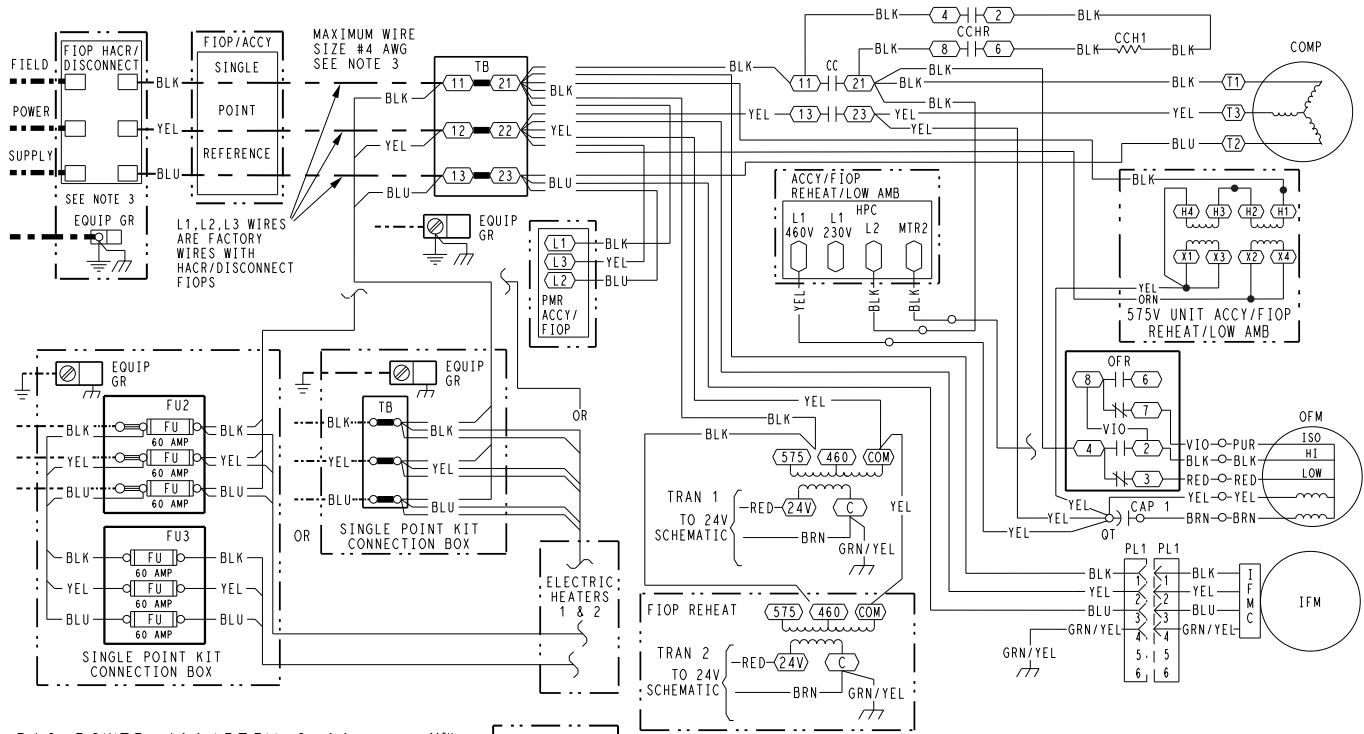
- ACCY ACCESSORY
- AWG AMERICAN WIRE GAGE
- BAS BUILDING AUTOMATION NETWORK
- CC CONTACTOR, COMPRESSOR
- COM COMMON
- C CAPACITOR
- CB CIRCUIT BREAKER
- CCH CRANKCASE HEATER
- CCHR CRANKCASE HEATER RELAY
- CCHTS CRANKCASE HEATER TEMP SWITCH
- C COMPRESSOR LOCKOUT
- CLV COOLING LIQUID VALVE
- COFS CONDENSATE OVERFLOW SWITCH
- COM SIGNAL COMMON
- COMP COMPRESSOR MOTOR
- DDC DIRECT DIGITAL CONTROL
- DFB DEFROST BOARD
- DFT DEFROST THERMOSTAT
- EHR ELECTRIC HEAT RELAY
- ENTH ENTHALPY
- ERV ENERGY RECOVERY VENTILATOR
- ESL ENTHALPY SENSOR - LOW
- FB FUSE BLOCK
- FIOF FACTORY INSTALLED OPTION
- FPT FREEZE PROTECTION THERMOSTAT
- FST FAN HOUSING TEMP SENSOR
- FU FUSE

- G (GRIND) GROUND
- HACR HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER
- HR HEATER RELAY
- HGRH HOT GAS REHEAT
- HPC HEAD PRESSURE CONTROL
- HPS HIGH PRESSURE SWITCH
- IAO INDOOR AIR QUALITY SENSORS
- IFM INDOOR FAN MOTOR
- IFMC INDOOR FAN MOTOR CONTROL
- IFO INDOOR FAN ON SIGNAL
- IRH INDOOR RELATIVE HUMIDITY
- JMP JUMPER
- L1 LINE 1
- LA LOW AMBIENT LOCKOUT
- LAR LOW AMBIENT RELAY
- LAS LOW AMBIENT SWITCH
- LDR COMPRESSOR LOADER
- LEN LOCAL EQUIPMENT NETWORK
- LOC LOSS OF CHARGE
- LOOP PWR CURRENT LOOP POWER
- LPS LOW PRESSURE SWITCH
- LS LIMIT SWITCH
- LSM LIMIT SWITCH (MANUAL RESET)
- LTLO LOW TEMP LOCKOUT

- MBB MAIN BASE BOARD
- MOV METAL OXIDE VARISTOR
- MTR MOTOR
- OAO OUTDOOR AIR QUALITY
- OAT OUTDOOR AIR TEMP. SEN
- OFM OUTDOOR FAN MOTOR
- OFR OUTDOOR FAN RELAY
- OL OVERLOAD
- PER POWER EXHAUST RELAY
- PH PHASE
- PL PLUG ASSEMBLY
- POT POTENTIOMETER
- PMR PHASE MONITOR RELAY
- PS PRESSURE SWITCH
- PWM PULSE WIDTH MODULATION
- QT QUADRUPLE TERMINAL
- RAT THERMOSTAT POWER
- RDV RETURN AIR TEMP. SEN
- RDV REHEAT DISCHARGE VALVE
- RH RELATIVE HUMIDITY
- RLV REHEAT LIQUID VALVE
- RNET LOCAL ACCESS NETWORK
- RVS REVERSING VALVE SOLENOID
- SAT SUPPLY AIR TEMP SENSOR
- SDP SYSTEM DISCHARGE PRESSURE
- SPRH SPACE RELATIVE HUMIDITY
- SPT SPACE TEMPERATURE SENSOR
- SPTO SPACE TEMPERATURE OFFSET
- SPP SYSTEM SUCTION PRESSURE
- SW SWITCH
- TB TERMINAL BLOCK
- TDR TIME DELAY RELAY
- TRAN TRANSFORMER
- UCB UNIT CONTROL BOARD
- W1 1st STAGE OF HEATING CALL
- W2 2nd STAGE OF HEATING CALL
- Y1 1st STAGE OF COOLING CALL
- Y2 2nd STAGE OF COOLING CALL

48TC002789 A

TYPICAL 50GC 04-06 POWER WIRING DIAGRAM, 460-575/3/60 UNIT SHOWN



PAC POWER 460/575V-3-60
3-5TON T2

- NOTES**
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT.
 2. COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
 3. USE COPPER CONDUCTOR ONLY.
 4. DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
 5. TRANSFORMER IS DEDICATED BASED ON UNIT VOLTAGE. TAPS ONLY SHOWN TO SIMPLIFY SCHEMATIC.

LEGEND

- (X) MARKED WIRE
- (X) TERMINAL (MARKED)
- (O) TERMINAL (UNMARKED)
- (●) TERMINAL BLOCK
- (X) SPLICE
- (X) SPLICE (MARKED)
- FACTORY WIRING
- - - FIELD CONTROL WIRING
- - - - - FIELD POWER WIRING
- - - - - CIRCUIT BOARD TRACE
- - - - - ACCESSORY OR OPTIONAL WIRING

| | | | | | |
|-------|------------------------------|--------|--|----------|--|
| ACCY | ACCESSORY | G | GROUND | THR | THERMOSTAT FAN CALL |
| AWG | AMERICAN WIRE GAGE | GR(ND) | GROUND | HACR | HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER |
| BAS | BUILDING AUTOMATION NETWORK | HACR | HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER | HR | HOT GAS REHEAT |
| CC | CONTACTOR, COMPRESSOR | C | COMMON | HGRH | HIGH PRESSURE SWITCH |
| C | COMMON | CAP | CAPACITOR | HPC | HEAD PRESSURE CONTROL |
| CAP | CAPACITOR | CCH | CRANKCASE HEATER | HPS | HIGH PRESSURE SWITCH |
| CB | CIRCUIT BREAKER | CCHR | CRANKCASE HEATER RELAY | HUM | HUMIDISTAT |
| CCH | CRANKCASE HEATER RELAY | CCHTS | CRANKCASE HEATER TEMP SWITCH | IAO | INDOOR AIR QUALITY SENSORS |
| CCHTS | CRANKCASE HEATER TEMP SWITCH | CLO | COMPRESSOR LOCKOUT | IFM | INDOOR FAN MOTOR |
| CLO | COMPRESSOR LOCKOUT | CLV | COOLING LIQUID VALVE | IFMC | INDOOR FAN MOTOR CONTROL |
| CLV | COOLING LIQUID VALVE | COFS | CONDENSATE OVERFLOW SWITCH | IFO | INDOOR FAN ON SIGNAL |
| COFS | CONDENSATE OVERFLOW SWITCH | COM | SIGNAL COMMON | IRH | INDOOR RELATIVE HUMIDITY |
| COM | SIGNAL COMMON | COMP | COMPRESSOR MOTOR | JMP | JUMPER |
| COM | SIGNAL COMMON | DDC | DIRECT DIGITAL CONTROL | L1 | LINE 1 |
| DDC | DIRECT DIGITAL CONTROL | DFB | DEFROST BOARD | LA | LOW AMBIENT LOCKOUT |
| DFB | DEFROST BOARD | DFT | DEFROST THERMOSTAT | LAR | LOW AMBIENT RELAY |
| DFT | DEFROST THERMOSTAT | EHR | ELECTRIC HEAT RELAY | LAS | LOW AMBIENT SWITCH |
| EHR | ELECTRIC HEAT RELAY | ENTH | ENTHALPY | LDR | COMPRESSOR LOADER |
| ENTH | ENTHALPY | ERV | ENERGY RECOVERY VENTILATOR | LEN | LOCAL EQUIPMENT NETWORK |
| ERV | ENERGY RECOVERY VENTILATOR | ESL | ENTHALPY SENSOR - LOW | LOC | LOSS OF CHARGE |
| ESL | ENTHALPY SENSOR - LOW | FB | FUSE BLOCK | LOOP PWR | CURRENT LOOP POWER |
| FB | FUSE BLOCK | FIOP | FACTORY INSTALLED OPTION | LPS | LOW PRESSURE SWITCH |
| FIOP | FACTORY INSTALLED OPTION | FPT | FREEZE PROTECTION THERMOSTAT | LS | LIMIT SWITCH |
| FPT | FREEZE PROTECTION THERMOSTAT | FST | FAN HOUSING TEMP SENSOR | LSM | LIMIT SWITCH (MANUAL RESET) |
| FST | FAN HOUSING TEMP SENSOR | FU | FUSE | LTLO | LOW TEMP LOCKOUT |

| | | | |
|------|---------------------------|------|---------------------------|
| MBB | MAIN BASE BOARD | MOV | METAL OXIDE VARISTOR |
| MTR | MOTOR | OAO | OUTDOOR AIR QUALITY |
| OAO | OUTDOOR AIR QUALITY | OAT | OUTDOOR AIR TEMP. SEN |
| OAT | OUTDOOR AIR TEMP. SEN | OFM | OUTDOOR FAN MOTOR |
| OFM | OUTDOOR FAN MOTOR | OFR | OUTDOOR FAN RELAY |
| OFR | OUTDOOR FAN RELAY | OL | OVERLOAD |
| OL | OVERLOAD | PER | POWER EXHAUST RELAY |
| PER | POWER EXHAUST RELAY | PH | PHASE |
| PH | PHASE | PL | PLUG ASSEMBLY |
| PL | PLUG ASSEMBLY | POT | POTENTIOMETER |
| POT | POTENTIOMETER | PMR | PHASE MONITOR RELAY |
| PMR | PHASE MONITOR RELAY | PS | PRESSURE SWITCH |
| PS | PRESSURE SWITCH | PWM | PULSE WIDTH MODULATION |
| PWM | PULSE WIDTH MODULATION | QAT | QUADRUPOLE TERMINAL |
| QAT | QUADRUPOLE TERMINAL | R | THERMOSTAT POWER |
| R | THERMOSTAT POWER | RAT | RETURN AIR TEMP. SEN |
| RAT | RETURN AIR TEMP. SEN | RDV | REHEAT DISCHARGE VALVE |
| RDV | REHEAT DISCHARGE VALVE | RH | RELATIVE HUMIDITY |
| RH | RELATIVE HUMIDITY | RLV | REHEAT LIQUID VALVE |
| RLV | REHEAT LIQUID VALVE | RNET | LOCAL ACCESS NETWORK |
| RNET | LOCAL ACCESS NETWORK | RVS | REVERSING VALVE SOLENOID |
| RVS | REVERSING VALVE SOLENOID | SAT | SUPPLY AIR TEMP SENSOR |
| SAT | SUPPLY AIR TEMP SENSOR | SDP | SYSTEM DISCHARGE PRESSURE |
| SDP | SYSTEM DISCHARGE PRESSURE | SPRH | SPACE RELATIVE HUMIDITY |
| SPRH | SPACE RELATIVE HUMIDITY | SPT | SPACE TEMPERATURE SENSOR |
| SPT | SPACE TEMPERATURE SENSOR | SPTO | SPACE TEMPERATURE OFFSET |
| SPTO | SPACE TEMPERATURE OFFSET | SSP | SYSTEM SUCTION PRESSURE |
| SSP | SYSTEM SUCTION PRESSURE | SW | SWITCH |
| SW | SWITCH | TB | TERMINAL BLOCK |
| TB | TERMINAL BLOCK | TDR | TIME DELAY RELAY |
| TDR | TIME DELAY RELAY | TRAN | TRANSFORMER |
| TRAN | TRANSFORMER | UCB | UNIT CONTROL BOARD |
| UCB | UNIT CONTROL BOARD | W1 | 1st STAGE OF HEATING CALL |
| W1 | 1st STAGE OF HEATING CALL | W2 | 2nd STAGE OF HEATING CALL |
| W2 | 2nd STAGE OF HEATING CALL | Y1 | 1st STAGE OF COOLING CALL |
| Y1 | 1st STAGE OF COOLING CALL | Y2 | 2nd STAGE OF COOLING CALL |
| Y2 | 2nd STAGE OF COOLING CALL | | |

48TC002958 -

General

The sequence below describes the sequence of operation for an electro-mechanical unit with and without a factory-installed EconoMi\$er® IV (W7212 controller) and X (called “economizer” in this sequence) (W7220 controller). For information regarding a direct digital controller, see the start-up, operations, and troubleshooting manual for the applicable controller.

Electro-Mechanical Units with No Economizer

Cooling (two stage units)

When the thermostat calls for cooling, terminals G and Y1 are energized. The indoor fan will run at the low fan speed and the compressor contactor (CC) is energized causing the compressor and outdoor fan to turn on. The low indoor fan speed is 75% of the user set fan speed, the compressor will run at partial capacity, and the outdoor fan will run at low speed.

If additional cooling is needed, the thermostat will add the call for Y2. This will increase the indoor fan speed to the user set fan speed, energize the compressor loader for full compressor capacity, and energize the outdoor fan relay (OFR) for high speed.

When the thermostat removes the call for Y2 but leaves the Y1, the indoor fan will reduce speed to 75% of the user set fan speed, the compressor loader will turn off, and the outdoor fan will drop to low speed. When the thermostat removes the call for Y1 the compressor contactor will de-energize shutting down the compressor and the outdoor fan. When the thermostat removes the call for G, the indoor fan will turn off after the specific unit fan off delay.

Gas Heating (48GC units)

When the thermostat calls for heating, power is sent to W on the Integrated Gas Controller (IGC) board. An LED (light-emitting diode) on the IGC board turns on and remains on during normal operation. A check is made to ensure that the roll-out switch and limit switch are closed. If the check was successful, the induced-draft motor is energized, and when its speed is satisfactory, as proven by the flue gas pressure switch, the ignition activation period begins. The burners will ignite within 5 seconds. If the burners do not light, there is a 22 second delay before another 5-second attempt. This sequence is repeated for 15 minutes or until the burners light. If, after the 15 minutes, the burners still have not lit, heating is locked out. To reset the control, break 24 V power to the thermostat.

When ignition occurs, the IGC board will continue to monitor the condition of the roll-out switch, the limit switches, the flue gas pressure switch, as well as the flame sensor. 45 seconds after ignition occurs, assuming the unit is controlled through a room thermostat set for fan auto, the indoor-fan motor will energize (and the outdoor-air dampers will open to their minimum position). If, for some reason, the over-temperature limit opens prior to the start of the indoor fan blower, the unit will shorten the 45-second delay to 5 seconds less than the time from initiation of heat to when the limit tripped. Gas will not be interrupted to the burners and heating will continue. Once the fan-on delay has been modified, it will not change back to 45 seconds until power is reset to the control. On units with 2 stages of

heat, when additional heat is required, W2 closes and initiates power to the second stage of the main gas valve. When the thermostat is satisfied, W1 and W2 open and the gas valve closes, interrupting the flow of gas to the main burners. If the call for W1 lasted less than 1 minute, the heating cycle will not terminate until 1 minute after W1 became active. If the unit is controlled through a room thermostat set for fan auto, the indoor-fan motor will continue to operate for an additional 45 seconds then stop. If the over-temperature limit opens after the indoor motor is stopped, but within 10 minutes of W1 becoming inactive, on the next cycle the time will be extended by 15 seconds. The maximum delay is 3 minutes. Once modified, the fan off delay will not change back to 45 seconds unless power is reset to the control. A LED indicator is provided on the IGC to monitor operation.

Electric Heating (50GC units)

NOTE: 50GC units are sold as cooling only. If electric heaters are required, use only factory-approved heaters. They will operate as follows.

Units have either 1 or 2 stages of electric heat. When the thermostat calls for heating, power is applied to G and the W1 terminals at the unit. The unit control will energize the indoor fan contactor and the first stage of electric heat. On units with two-stage heating, when additional heating is required, the second stage of electric heat (if equipped) will be energized when power is applied at the W2 terminal on the unit.

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

Electro-mechanical Units with Factory-Installed EconoMi\$er

Cooling

When free cooling is not available, the compressors will be controlled by the zone thermostat. When free cooling is available, the outdoor-air damper is modulated by the EconoMi\$er IV and X control to provide a 50°F (10°C) to 55°F (13°C) mixed-air temperature into the zone. As the mixed air temperature fluctuates above 55°F (13°C) or below 50°F (10°C) dampers will be modulated (open or close) to bring the mixed-air temperature back within control. If mechanical cooling is utilized with free cooling, the outdoor-air damper will maintain its current position at the time the compressor is started. If the increase in cooling capacity causes the mixed-air temperature to drop below 45°F (7°C), then the outdoor-air damper position will be decreased to the minimum position. If the mixed-air temperature continues to fall, the outdoor-air damper will close. Control returns to normal once the mixed-air temperature rises above 48°F (9°C). The power exhaust fans will be energized and de-energized, if installed, as the outdoor-air damper opens and closes.

If field-installed accessory CO₂ sensors are connected to the EconoMi\$er IV and X control, a demand controlled ventilation strategy will begin to operate. As the CO₂ level in the zone increases above the CO₂ set-point, the minimum position of the damper will be increased proportionally. As the CO₂ level decreases because of the increase in

Sequence of operation (cont)



fresh air, the outdoor-air damper will be proportionally closed. For EconoMi\$er IV and X operation, there must be a thermostat call for the fan (G). If the unit is occupied and the fan is on, the damper will operate at minimum position. Otherwise, the damper will be closed.

When the EconoMi\$er IV and X control is in the occupied mode and a call for cooling exists (Y1 on the thermostat), the control will first check for indoor fan operation. If the fan is not on, then cooling will not be activated. If the fan is on, then the control will open the EconoMi\$er IV and X damper to the minimum position.

On the initial power to the EconoMi\$er IV and X control, it will take the damper up to 2¹/₂ minutes before it begins to position itself. After the initial power-up, further changes in damper position can take up to 30 seconds to initiate. Damper movement from full closed to full open (or vice versa) will take between 1¹/₂ and 2¹/₂ minutes. If free cooling can be used as determined from the appropriate changeover command (switch, dry bulb, enthalpy curve, differential dry bulb, or differential enthalpy), then the control will modulate the dampers open to maintain the mixed-air temperature set-point at 50°F (10°C) to 55°F (13°C). If there is a further demand for cooling (cooling second stage — Y2 is energized), then the control will bring on compressor stage 1 to maintain the mixed-air temperature set-point. The EconoMi\$er® IV and X damper will be open at maximum position.

2-Speed Note: When operating in ventilation mode only, the indoor fan motor will automatically adjust to 75% of the total cfm established.

Heating

The sequence of operation for the heating is the same as an electro-mechanical unit with no 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 Service and Maintenance Manual for further details.

Optional Humidi-MiZer® dehumidification system

Units with the factory equipped 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, a small reheat condenser coil downstream of the evaporator, and variable-speed control of some or all outdoor fans. Operation of the revised refrigerant circuit for each mode is described below.

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

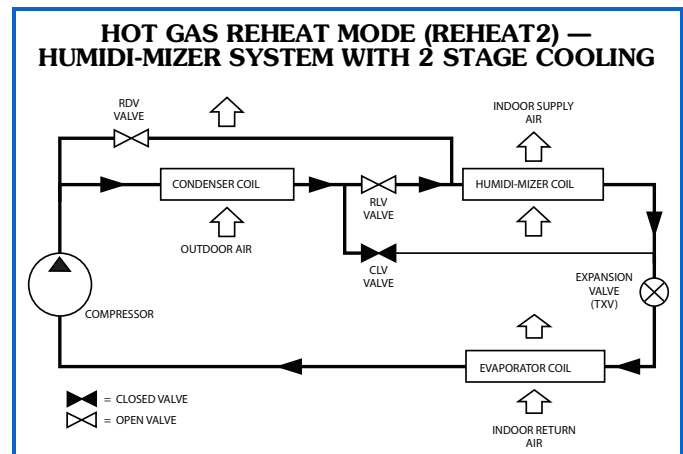
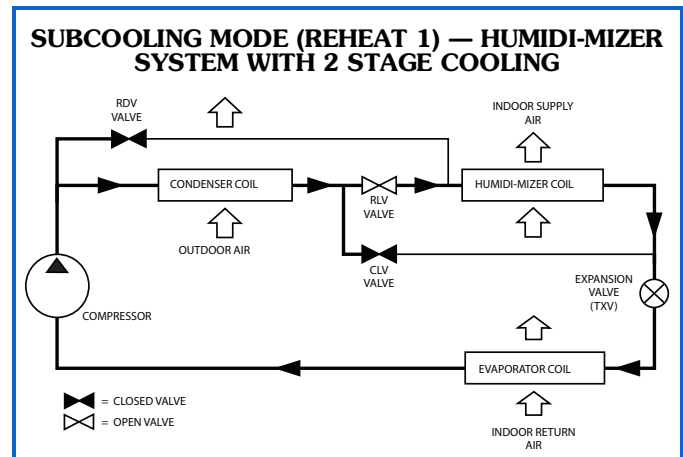
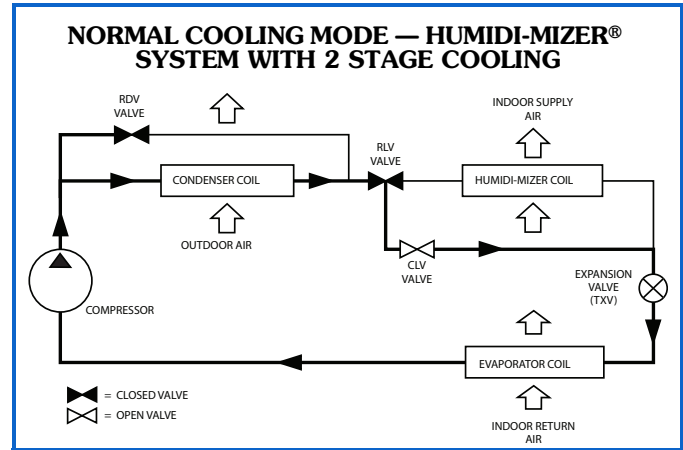
Cool mode — Provides a normal ratio of Sensible and Latent Cooling effect from the evaporator coil.

Reheat1 — Provides increased Latent Cooling while slightly reducing the Sensible Cooling effect.

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 Low Ambient Lockout switch is closed.

The figures on this page depict piping for two stage cooling units.



RTU Open controller (factory option)

For details on operating 48/50GC units equipped with the factory-installed RTU Open controller option, refer to Factory Installed RTU Open Multi-Protocol Controller Controls, Start-Up, Operation and Troubleshooting manual.

SystemVu™ controller (factory option)

For details on operating 48/50GC units equipped with the factory-installed SystemVu controller option, refer to FC/GC Series Single Package Rooftop Units with SystemVu Controller Controls, Start-Up, Operation and Troubleshooting manual.

Minimum operating ambient temperature (cooling)

In mechanical cooling mode, your Carrier rooftop unit can safely operate down to an outdoor ambient temperature of 35°F (2°C). It is possible to provide cooling at lower outdoor ambient temperatures by using less outside air, economizers, and/or accessory low ambient kits.

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 either a reduction in performance, 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 and pulleys (drives) are available, factory installed, to handle nearly any application.

Stainless steel heat exchanger (48GC units only)

The stainless steel heat exchanger option provides the tubular heat exchanger be made out of a minimum 20 gage type 409 stainless steel for applications where the mixed air to the heat exchanger is expected to drop below 45°F (7°C). Stainless steel may be specified on applications where the presence of airborne contaminants require its use (applications such as paper mills) or in area with very high outdoor humidity that may result in severe condensation in the heat exchanger during cooling operation.

Minimum mixed air temperature (heating) (48GC units only)

Using the factory settings, the minimum temperatures for the mixed air (the combined temperature of the warm return air and the cold outdoor air) entering the dimpled, gas heat exchangers are shown in the following table.

MINIMUM TEMPERATURE FOR MIXED AIR TEMPERATURE

| ALUMINIZED | STAINLESS STEEL |
|-------------------------|-------------------------|
| 50°F (10°C) Continuous | 40°F (4°C) Continuous |
| 45°F (7°C) Intermittent | 35°F (2°C) Intermittent |

Operating at lower mixed-air temperatures may be possible, if a field-supplied, outdoor air thermostat initiates both heat stages when the temperature is less than the minimum temperatures listed above. Please contact your local Carrier representative for assistance.

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 max may cause blow-off, undesired airflow noise, or airflow related problems with the rooftop unit. Operating below the min 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 8 and the maximum value is the LOWER of the cooling and heating minimum values published on page 8.

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 application 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, break horsepower (BHP)

Due to 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.

Propane heating (48GC units only)

Propane has different physical qualities than natural gas. As a result, propane requires different fuel to air mixture. To optimize the fuel/air mixture for propane, Carrier sells different burner orifices in an easy to install accessory kit. To select the correct burner orifices or determine the heat capacity for a propane application, use either the selection software, or the unit's service manual.

High altitude heating

High altitudes have less oxygen, which affects the fuel/air mixture in heat exchangers. In order to maintain a proper fuel/air mixture, heat exchangers operating in altitudes above 2000 ft (610 m) require different orifices. To select the correct burner orifices or determine the heat capacity for a high altitude application, use either the selection software, or the unit's service manual.

High altitudes have less oxygen, which means heat exchangers need less fuel. The new gas orifices in this field-installed kit make the necessary adjustment for high altitude applications. They restore the optimal fuel to air mixture and maintain healthy combustion on altitudes above 2000 ft (610 m).

NOTE: Typical natural gas heating value ranges from 975 to 1050 Btu/ft³ at sea level nationally. The heating value goes down approximately 1.7% per every thousand feet elevation. Standard factory orifices can typically be used up to 2000 ft (610 m) elevation without any operational issues.

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, adding “safety factors” to the calculated load, are all signs of oversizing air conditioners. Oversizing the 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.

Low ambient applications

The optional Carrier economizer can adequately cool your space by bringing in fresh, cool outside air. In fact, when so equipped, accessory low-ambient kit may not be necessary. In low ambient conditions, unless the outdoor air is excessively humid or contaminated, economizer-based “free cooling” is the preferred less costly and energy conscious method. In low ambient applications where outside air might not be desired (such as contaminated or excessively humid outdoor environments), your Carrier rooftop can operate to ambient temperatures down to -20°F (-29°C) using the recommended accessory low ambient controller.

Two stage cooling operation

Use appropriate two stage thermostat to achieve the unit’s optimum design comfort and overall operating performance.

Note about this specification:

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.



High Efficiency Gas Heat/Electric Cooling Packaged Rooftop

HVAC Guide Specifications

Size Range: **3 to 5 Nominal Tons**

Carrier Model Number: **48GC*04-06**

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:
 - 1. 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.) Gas 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 13.23) Sensors and Transmitters:

- A. (23 09 13.23.A.) Thermostats:
 - 1. Thermostat must
 - a. energize both “W” and “G” when calling for heat.
 - b. have capability to energize 2 stages of cooling, and 2 different stages of heating.
 - c. 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 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 gages is not required.
- 7. USB Data Port for flash drive interaction. This will allow the transfer of data for uploads, downloads, perform software upgrades, backup 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.
- 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 90.1 and IECC Fault Detection and Diagnostic (FDD) requirements.

11. Unit cooling operation down to 35°F (2°C).
 12. Controller shall have easy access connections around the controller perimeter area and consist of Mate-N-Lok¹, 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 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 hand-held Navigator™ display, Equipment Touch and System Touch devices.
 18. 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.
 19. Supply Air Tempering control operates the gas or 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.
 20. 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.
 21. 3-year limited part warranty.
- B. (23 09 23.13.B.) RTU Open Protocol, Direct Digital Controller:
1. Shall be ASHRAE 62 compliant.
 2. Shall accept 18 - 30VAC, 50 - 60Hz, and consume 15VA or less power.
 3. Shall have an operating temperature range from -40°F (-40°C) to 130°F (54°C), 10% to 90% RH (non-condensing).

4. Shall include built-in protocol for BACnet² (MS/TP and PTP modes), Modbus³ (RTU and ASCII), Johnson N2 and LonWorks⁴. LonWorks Echelon processor required for all Lon applications shall be contained in separate communication board.
5. Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers.
6. Baud rate controller shall be selectable using a dipswitch.
7. Shall have an LED display independently showing the status of serial communication, running, errors, power, all digital outputs, and all analog inputs.
8. Shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air quality, compressor lock-out, fire shutdown, enthalpy switch, and fan status/filter status/humidity/remote occupancy.
9. Shall provide the following outputs: economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust, reversing valve/high fan speed.
10. Shall have built-in surge protection circuitry through solid-state polyswitches. Polyswitches shall be used on incoming power and network connections. Polyswitches will return to normal when the "trip" condition clears.
11. Shall have a battery back-up capable of a minimum of 10,000 hours of data and time clock retention during power outages.
12. Shall have built-in support for Carrier technician tool.
13. Shall include an RS-485 protocol communication port, an access port for connection of either a computer or a Carrier technician tool, an RS-485 port for network communication to intelligent space sensors and displays, and a port to connect an optional LonWorks communications card.
14. Software upgrades will be accomplished by either local or remote download. No software upgrades through chip replacements are allowed.

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

2. BACnet is a registered trademark of ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers).
 3. Modbus is a registered trademark of Schneider Electric.
 4. LonWorks is a registered trademark of Echelon Corporation.

1. Mate-N-Lok is a registered trademark of the Whitaker Corporation.

circuit breaker on the 24-v transformer side. Transformer shall have 75VA capability.

2. Shall utilize color-coded wiring.
 3. Shall include a Unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, gas controller, economizer, thermostat, DDC control options, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.
 4. The heat exchanger shall be controlled by an integrated gas controller (IGC) microprocessor. See heat exchanger section of this specification.
 5. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.
- B. (23 09 33.13.B.) Safeties:
1. Compressor over-temperature, over-current. High internal pressure differential.
 2. Low pressure switch.
 - a. 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.
 - a. 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. Automatic reset, motor thermal overload protector.
 5. Heating section shall be provided with the following minimum protections:
 - a. High temperature limit switches.
 - b. Induced draft motor speed sensor.
 - c. Flame rollout switch.
 - d. Flame proving controls.

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 gas combustion for 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® (R-410A) 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 and exceeds ASHRAE 90.1 minimum efficiency requirements.
2. Unit shall be rated in accordance with AHRI Standards 210/240.
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 Standard 1995, including tested to withstand rain.
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 shake 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 210/240 at ±10% voltage.
 2. Compressor with standard controls shall be capable of operation down to 35°F (2°C), ambient outdoor temperatures. Accessory winter start kit is necessary if mechanically cooling at ambient temperatures down to 25°F (-4°C).
 3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
 4. Unit shall be factory configured for vertical supply and return configurations.
 5. Unit shall be field convertible from vertical to horizontal airflow on all models. No special kit required.
 6. 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 210/240 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 gas 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 gage 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 all sizes.
8. Gas Connections:
 - a. All gas piping connecting to unit gas valve shall enter the unit cabinet at a single location on side of unit (horizontal plane).
 - b. Thru-the-base capability
 - 1) Standard unit shall have a thru-the-base gas-line location using a raised, embossed portion of the unit basepan.
 - 2) Optional, factory approved, water-tight connection method must be used for thru-the-base gas connections.
 - 3) No basepan penetration, other than those authorized by the manufacturer, is permitted.
9. 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.
10. 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.) Gas Heat:

1. General:

- a. Heat exchanger shall be an induced draft design. Positive pressure heat exchanger designs shall not be allowed.
- b. Shall incorporate a direct-spark ignition system and redundant main gas valve.
- c. Gas supply pressure at the inlet to the rooftop unit gas valve must match that required by the manufacturer.

2. The heat exchanger shall be controlled by an integrated gas controller (IGC) microprocessor.

- a. IGC board shall notify users of fault using an LED (light-emitting diode).
- b. The LED shall be visible without removing the control box access panel.
- c. IGC board shall contain algorithms that modify evaporator fan operation to prevent future cycling on high temperature limit switch.
- d. Unit shall be equipped with anti-cycle protection with one short cycle on unit flame rollout switch or 4 continuous short cycles on the high temperature limit switch. Fault indication shall be made using an LED.

3. Standard Heat Exchanger construction

- a. Heat exchanger shall be of the tubular-section type constructed of a minimum of 20-gage steel coated with a nominal 1.2 mil aluminum-silicone alloy for corrosion resistance.
- b. Burners shall be of the in-shot type constructed of aluminum-coated steel.
- c. Burners shall incorporate orifices for rated heat output up to 2000 ft (610 m) elevation. Additional accessory kits may be required for applications above 2000 ft (610 m) elevation, depending on local gas supply conditions.
- d. Each heat exchanger tube shall contain multiple dimples for increased heating effectiveness.

4. Optional Stainless Steel Heat Exchanger construction:

- a. Use energy saving, direct-spark ignition system.
- b. Use a redundant main gas valve.
- c. Burners shall be of the in-shot type constructed of aluminum-coated steel.
- d. All gas piping shall enter the unit cabinet at a single location on side of unit (horizontal plane).
- e. The optional stainless steel heat exchanger shall be of the tubular-section type, constructed of a minimum of 20-gage type 409 stainless steel.
- f. Type 409 stainless steel shall be used in heat exchanger tubes and vestibule plate.
- g. Complete stainless steel heat exchanger allows for greater application flexibility.

5. Optional Low NOx Heat Exchanger construction:

- a. Low NOx reduction shall be provided to reduce nitrous oxide emissions to meet California's Air Quality Management District (SCAQMD) low-NOx emissions requirement of 40 nanograms per joule or less.
- b. Primary tubes and vestibule plates on low NOx units shall be 409 stainless steel. Other components shall be aluminized steel.

6. Induced draft combustion motor and blower:

- a. Shall be a direct-drive, single inlet, forward-curved centrifugal type.
- b. Shall be made from steel with a corrosion resistant finish.
- c. Shall have permanently lubricated sealed bearings.
- d. Shall have inherent thermal overload protection.
- e. Shall have an automatic reset feature.

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

1. Standard Aluminum Fin-Copper Tube Coils:

- a. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally 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 1995 burst test at 1775 psig.
- c. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.

2. Optional Pre-coated aluminum-fin condenser coils (3 Phase Models Only):

- 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 B117-90.
 - 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 (3 Phase Models Only):
- 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 (3 Phase Models Only):
- 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 D523-89.
 - 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 D3363-92A and cross-hatch adhesion of 4B-5B per ASTM D3359-93.
 - f. Impact resistance shall be up to 160 in.-lb (ASTM D2794-93).
 - g. Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92).
 - h. Corrosion durability shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117-90.
- J. (23 81 19.13.J.) Refrigerant Components:
1. Refrigerant circuit shall include the following control, safety, and maintenance features:
 - a. TXV metering system on all models shall include a multiple feed distribution system that optimizes coil performance.
 - b. Refrigerant filter drier - Solid core design.
 - c. Service gage connections on suction and discharge lines.
 - d. Pressure gage access through a specially designed access port in the top panel of the unit.
 2. There shall be gage line access port in the skin of the rooftop, covered by a black, removable plug.
 - a. The plug shall be easy to remove and replace.
 - b. When the plug is removed, the gage access port shall enable maintenance personnel to route their pressure gage lines.
 - c. This gage access port shall facilitate correct and accurate condenser pressure readings by enabling the reading with the compressor access panel on.
 - d. The plug shall be made of a leak proof, UV-resistant, composite material.
 3. Compressors:
 - a. Unit shall use fully hermetic, two stage scroll compressor on a single refrigeration circuit.
 - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
 - c. Compressors shall be internally protected from high discharge temperature conditions.
 - d. Compressors shall be protected from an over-temperature and over-ampereage conditions by an internal, motor overload device.
 - e. Compressor shall be factory mounted on rubber grommets.
 - f. Compressor motors shall have internal line break thermal, current overload and high pressure differential protection.
 - g. Crankcase heaters shall not be required for normal operating range, unless required by compressor manufacturer due to refrigerant charge limits.
- K. (23 81 19.13.K.) 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.
- L. (23 81 19.13.L.) Evaporator Fan and Motor with EcoBlue™ Technology:
1. Direct Drive Evaporator fan motor:
 - a. Shall be a ECM motor design.
 - b. Shall have permanently lubricated bearings.
 - c. Shall have inherent automatic-reset thermal overload protection.
 - d. Shall have slow ramp up to speed capabilities.
 - e. Shall require no fan/motor belts for operation, adjustments and or initial fan speed set up.
 - f. Fan DC voltage set up on Unit Control Board can eliminate the need of removal of blower access door, required on conventional belt drive systems.
 - g. Shall be internally protected from electrical phase reversal and loss.
 2. Evaporator Fan:
 - a. Shall be easily set with selection switch and adjustment pot on unit control board or through SystemVu™ controller.
 - b. On all sizes 04-06 which have two stage cooling capacity control, the indoor fan speed is automatically controlled to meet the AHRI performance requirement with 75% low fan speed and 100% at full fan speed operation
 - c. Blower fan shall be a Vane Axial fan design with 75% less moving parts than a conventional belt drive system.
 - d. Shall be constructed of a cast aluminum stator and high impact composite material on rotor and air inlet casing.
 - e. Shall be a patented / pending design with a corrosion resistant material and dynamically balanced.
 - f. Shall have slow ramp up to speed capabilities to help reduce sound and comfort issues typically associated with single speed belt drive systems.
 - g. Shall be a slide out design with two screw removal.
 3. Shall include an easily accessible unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, gas controller, economizer, thermostat, DDC control options, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.
- M. (23 81 19.13.M.) 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 constructed of high impact composite material.
 - b. Shall have high impact composite blades completely formed into one piece without blade fasteners or connectors and shall be dynamically balanced.
- N. (23 81 19.13.N.) Special Features Options and Accessories:
1. Integrated EconoMi\$er® IV, EconoMi\$er2, and EconoMi\$er X low leak rate models. (EconoMi\$er2, and EconoMi\$er X are factory-installed on 3 phase models only. All are field-installed on all 3 and 1 phase 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. Standard leak rate shall be equipped with dampers not to exceed 2% leakage at 1 in. wg pressure differential.
 - g. Economizer controller on EconoMi\$er IV (field-installed only) models shall be Honeywell W7212 that provides:
 - 1) Combined minimum and DCV maximum damper position potentiometers with compressor staging relay.
 - 2) Functions with solid-state analog enthalpy or dry bulb changeover control sensing.
 - 3) Contain LED indicates for: when free cooling is available, when module is in

- DCV mode, when exhaust fan contact is closed.
- h. Economizer controller on EconoMi\$er X models shall be the Honeywell W7220 that provides:
 - 1) 2-line LCD interface screen for setup, configuration and troubleshooting.
 - 2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC.
 - 3) Sensor failure loss of communication identification.
 - 4) Automatic sensor detection.
 - 5) Capabilities for use with multiple-speed or single speed indoor fan systems.
 - 6) Utilize digital sensors: Dry bulb and Enthalpy.
 - i. Economizer controller on EconoMi\$er 2 models with RTU Open or SystemVu controllers shall be a 4 to 20mA design controlled directly by the controller. RTU Open and SystemVu meet California Title 24, ASHRAE 90.1 and IECC Fault Detection and Diagnostic (FDD) requirements.
 - j. Shall be capable of introducing up to 100% outdoor air.
 - k. 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.
 - l. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - m. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory-installed economizers 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.
 - n. 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%.
 - o. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
 - p. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - q. Economizer controller shall accept a 2 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.
 - r. Compressor lockout temperature on W7220 control is adjustable from -45°F to 80°F, set at a factory default of 32°F. W7212 control opens at 35°F (2°C) and closes at 50°F (10°C).
 - s. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - t. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
2. Integrated EconoMi\$er®2, and EconoMi\$er X Ultra Low Leak rate models. (Factory installed on 3 phase models only. Field installed on all 3 and 1 phase 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 X models shall be the Honeywell W7220 that provides:
 - 1) 2-line LCD interface screen for setup, configuration and troubleshooting.
 - 2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC¹.
 - 3) Sensor failure loss of communication identification.
 - 4) Automatic sensor detection.
 - 5) Capabilities for use with multiple-speed indoor fan systems.
 - 6) Utilize digital sensors: Dry bulb and Enthalpy.

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- h. Economizer controller on EconoMi\$er 2 models with RTU Open or SystemVu™ controls shall be a 4-20mA design controlled directly by the controller. RTU Open and SystemVu meet California Title 24, ASHRAE 90.1 and IECC Fault Detection and Diagnostic (FDD) requirements.
 - i. Shall be capable of introducing up to 100% outdoor air.
 - j. 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.
 - k. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - l. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory-installed economizers 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.
 - m. 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%.
 - n. The economizer shall maintain minimum air-flow into the building during occupied period and provide design ventilation rate for full occupancy.
 - o. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - p. Economizer controller shall accept a 2 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.
 - q. Compressor lockout temperature on W7220 control is adjustable from -45°F to 80°F, set at a factory default of 32°F. W7212 control opens at 35°F (2°C) and closes at 50°F (10°C).
 - r. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - s. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
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. Humidi-MiZer® Adaptive Dehumidification System (3 Phase Models Only):
- a. The Humidi-MiZer Adaptive Dehumidification System shall be factory installed and shall provide greater dehumidification of the occupied space by two modes of dehumidification operations in addition to its normal design cooling mode:
 - 1) Subcooling mode further sub cools the hot liquid refrigerant leaving the condenser coil when both temperature and humidity in the space are not satisfied.
 - 2) Hot gas reheat mode shall mix a portion of the hot gas from the discharge of the compressor with the hot liquid refrigerant leaving the condenser coil to create a two-phase heat transfer in the system, resulting in a neutral leaving air temperature when only humidity in the space is not satisfied.
 - 3) Includes low ambient controller.
6. Low Ambient Control Package:
- a. Controller shall control coil head pressure by condenser fan speed modulation or condenser fan cycling and wind baffles.
 - b. Shall consist of solid-state control and condenser coil temperature sensor to maintain condensing temperature between 90°F (32°C) and 110°F (43°C) at outdoor ambient temperatures down to -20°F (-29°C).
7. Propane Conversion Kit:
- a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit for use with liquefied propane, up to 2000 ft (610 m) elevation.
 - b. Additional accessory kits may be required for applications above 2000 ft (610 m) elevation.

8. Flue Shield:
 - a. Flue shield shall provide protection from the hot sides of the gas flue hood.
9. Condenser Coil Hail Guard Assembly (Factory-installed on 3 Phase Models Only. Field-installed on all 3 and 1 Phase Models.)
 - a. Shall protect against damage from hail.
 - b. Shall be either hood style or louvered.
10. Unit-Mounted, Non-Fused Disconnect Switch (Available on units with MOCPs of 80 amps or less):
 - a. Switch shall be factory installed, internally mounted.
 - b. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
 - c. Shall be accessible from outside the unit.
 - d. Shall provide local shutdown and lockout capability.
 - e. Sized only for the unit as ordered from the factory. Does not accommodate field-installed devices.
11. 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.
12. Convenience Outlet:
 - a. Powered convenience outlet. (3 Phase Models Only)
 - 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 115/120v 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 115/120v 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.
13. Flue Discharge Deflector:
 - a. Flue discharge deflector shall direct unit exhaust vertically instead of horizontally.
 - b. Deflector shall be defined as a "natural draft" device by the National Fuel and Gas (NFG) code.
14. Thru-the-Base Connectors:
 - a. Kits shall provide connectors to permit gas and electrical connections to be brought to the unit through the unit basepan.
 - b. Minimum of four connection locations per unit.
15. 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 is 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.

16. 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.
17. High Altitude Gas Conversion Kit:
 - a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit to operate from 2000 to 7000 ft (610 to 2134 m) elevation with natural gas or from 0 to 7000 ft (0 to 2134 m) elevation with liquefied propane.
18. Outdoor Air Enthalpy Sensor:
 - a. 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.
19. Return Air Enthalpy Sensor:
 - a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
20. 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.
21. Smoke detectors (factory-installed only):
 - a. Shall be a four-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.
22. Winter Start Kit:
 - a. Shall contain a bypass device around the low pressure switch.
 - b. Shall be required when mechanical cooling is required down to 25°F (-4°C).
 - c. Shall not be required to operate on an economizer when below an outdoor ambient of 35°F (2°C).
23. Time Guard:
 - a. Shall prevent compressor short-cycling by providing a 5 minute delay (±2 minutes) before restarting a compressor after shut-down for any reason.
 - b. One device shall be required per compressor.
24. 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.
25. Condensate overflow switch:
 - a. This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:
 - 1) Indicator light — solid red (more than 10 seconds on water contact – compressors disabled), blinking red (sensor disconnected).
 - 2) 10 second delay to break — eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping).
 - 3) Disables the compressor(s) operation when condensate plug is detected, but still allows fans to run for economizer.
26. Foil Faced Insulation:
 - a. Throughout unit cabinet air stream, non-fibrous and cleanable foil faced insulation is used.
27. MERV-8 Return Air filters:
 - a. Factory option to upgrade standard unit filters to MERV-8 filters.

28. Phase Monitor Control:

- a. Shall monitor the sequence of three phase electrical system to provide a phase reversal protection.
- b. Shall monitor the three 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.

29. Horn/Strobe Annunciator:

- a. Provides an audible/visual signaling device for use with factory-installed option or field installed accessory smoke detectors.
 - 1) Requires installation of a field-supplied 24-v transformer suitable for 4.2 VA (AC) or 3.0 VA (DC) per horn/strobe accessory.
 - 2) Requires field-supplied electrical box, North American 1-gang box, 2-in. (51 mm) x 4-in. (102 mm).
 - 3) Shall have a clear colored lens.

Note about this specification:

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.



High Efficiency Cooling Only/Electric Heat Packaged Rooftop

HVAC Guide Specifications

Size Range: **3 to 5 Nominal Tons**

Carrier Model Number: **50GC*04-06**

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:
 - 1. 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 13.23) Sensors and Transmitters:

- A. (23 09 13.23.A.) Thermostats:
 - 1. Thermostat must
 - a. energize both “W” and “G” when calling for heat.
 - b. have capability to energize 2 stages of cooling, and 2 different stages of heating.
 - c. 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 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 gages is not required.
- 7. USB Data Port for flash drive interaction. This will allow the transfer of data for uploads, downloads, perform software upgrades, backup 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.
- 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 90.1 and IECC Fault Detection and Diagnostic (FDD) requirements.
 11. Unit cooling operation down to 35°F (2°C).
 12. Controller shall have easy access connections around the controller perimeter area and consist of Mate-N-Lok¹, 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 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 hand-held Navigator™ display, Equipment Touch and System Touch devices.
 18. 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.
 19. Supply Air Tempering control operates the gas or 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.
 20. 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.
 21. 3-year limited part warranty.
- B. (23 09 23.13.B.) RTU Open Protocol, Direct Digital Controller:
1. Shall be ASHRAE 62 compliant.
 2. Shall accept 18 - 30VAC, 50 - 60Hz, and consumer 15VA or less power.
 3. Shall have an operating temperature range from -40°F (-40°C) to 130°F (54°C), 10% to 90% RH (non-condensing).
 4. Shall include built-in protocol for BACnet² (MS/TP and PTP modes), Modbus³ (RTU and ASCII), Johnson N2 and LonWorks⁴. LonWorks Echelon processor required for all Lon applications shall be contained in separate communication board.
 5. Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers.
 6. Baud rate controller shall be selectable using a dipswitch.
 7. Shall have an LED display independently showing the status of serial communication, running, errors, power, all digital outputs, and all analog inputs.
 8. Shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air quality, compressor lock-out, fire shutdown, enthalpy switch, and fan status/filter status/humidity/remote occupancy.
 9. Shall provide the following outputs: economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust, reversing valve/high fan speed.
 10. Shall have built-in surge protection circuitry through solid-state polyswitches. Polyswitches shall be used on incoming power and network connections. Polyswitches will return to normal when the "trip" condition clears.
 11. Shall have a battery back-up capable of a minimum of 10,000 hours of data and time clock retention during power outages.
 12. Shall have built-in support for Carrier technician tool.
 13. Shall include an RS-485 protocol communication port, an access port for connection of either a computer or a Carrier technician tool, an RS-485 port for network communication to intelligent space sensors and displays, and a port to connect an optional LonWorks communications card.
 14. Software upgrades will be accomplished by either local or remote download. No software upgrades through chip replacements are allowed.

1. Mate-N-Lok is a registered trademark of the Whitaker Corporation.

2. BACnet is a registered trademark of ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers).
 3. Modbus is a registered trademark of Schneider Electric.
 4. LonWorks is a registered trademark of Echelon Corporation.

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

6.01 (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 75VA capability.
 2. Shall utilize color-coded wiring.
 3. Shall include a Unit Control 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 an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.
 4. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.
- B. (23 09 33.13.B.) Safeties:
1. Compressor over-temperature, over-current. High internal pressure differential.
 2. Low pressure switch.
 - a. 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.
 - a. 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. Automatic reset, motor thermal overload protector.

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 optional electric heat for 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® (R-410A) 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 and exceeds ASHRAE 90.1 minimum efficiency requirements.
 2. Unit shall be rated in accordance with AHRI Standards 210/240.
 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 Standard 1995, including tested to withstand rain.
 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 shake 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 210/240 at ±10% voltage.
 2. Compressor with standard controls shall be capable of operation down to 35°F (2°C), ambient outdoor temperatures. Accessory winter start kit is necessary if mechanically cooling at ambient temperatures down to 25°F (-4°C).
 3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
 4. Unit shall be factory configured for vertical supply and return configurations.
 5. Unit shall be field convertible from vertical to horizontal airflow on all models. No special kit required.
 6. 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 pre-painted 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 210/240 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 gage 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 all sizes.
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 internally 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 1995 burst test at 1775 psig.
 - c. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
2. Optional Pre-coated aluminum-fin condenser coils (3 Phase Models Only):
 - 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 B117-90.
 - 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 (3 Phase Models Only):
 - 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 (3 Phase Models Only):
 - 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 D523-89.
- 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 D3363-92A and cross-hatch adhesion of 4B-5B per ASTM D3359-93.
- f. Impact resistance shall be up to 160 in. lb (ASTM D2794-93).
- g. Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92).
- h. Corrosion durability shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117-90.

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

1. Refrigerant circuit shall include the following control, safety, and maintenance features:
 - a. TXV metering system on all models shall include a multiple feed distribution system.
 - b. Refrigerant filter drier - Solid core design.
 - c. Service gage connections on suction and discharge lines.
 - d. Pressure gage access through a specially designed access port in the top panel of the unit.
2. There shall be gage line access port in the skin of the rooftop, covered by a black, removable plug.
 - a. The plug shall be easy to remove and replace.
 - b. When the plug is removed, the gage access port shall enable maintenance personnel to route their pressure gage lines.
 - c. This gage access port shall facilitate correct and accurate condenser pressure readings by enabling the reading with the compressor access panel on.
 - d. The plug shall be made of a leak proof, UV-resistant, composite material.
3. Compressors:
 - a. Unit shall use fully hermetic, two stage scroll compressor on a single refrigeration circuit.
 - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
 - c. Compressors shall be internally protected from high discharge temperature conditions.
 - d. Compressors shall be protected from an over-temperature and over-ampereage conditions by an internal, motor overload device.

- e. Compressor shall be factory mounted on rubber grommets.
 - f. Compressor motors shall have internal line break thermal, current overload and high pressure differential protection.
 - g. Crankcase heaters shall not be required for normal operating range, unless required by compressor 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 a ECM motor design.
 - b. Shall have permanently lubricated bearings.
 - c. Shall have inherent automatic-reset thermal overload protection.
 - d. Shall have slow ramp up to speed capabilities.
 - e. Shall require no fan/motor belts for operation, adjustments and or initial fan speed set up.
 - f. Fan DC voltage set up on Unit Control Board can eliminate the need of removal of blower access door, required on conventional belt drive systems.
 - g. Shall be internally protected from electrical phase reversal and loss.
 - 2. Evaporator Fan:
 - a. Shall be easily set with selection switch and adjustment pot on unit control board or through SystemVu™ controller.
 - b. On all sizes 04-06 which have two stage cooling capacity control, the indoor fan speed is automatically controlled to meet the AHRI performance requirement with 75% low fan speed and 100% at full fan speed operation
 - c. Blower fan shall be a Vane Axial fan design with 75% less moving parts than a conventional belt drive system.
 - d. Shall be constructed of a cast aluminum stator and high impact composite material on rotor and air inlet casing.
- e. Shall be a patented / pending design with a corrosion resistant material and dynamically balanced.
 - f. Shall have slow ramp up to speed capabilities to help reduce sound and comfort issues typically associated with single speed belt drive systems.
 - g. Shall be a slide out design with two screw removal.
3. Shall include an easily accessible unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, gas controller, economizer, thermostat, DDC control options, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.
- 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 constructed of high impact composite material.
 - b. Shall have high impact composite blades completely formed into one piece without blade fasteners or connectors and shall be dynamically balanced.
- M. (23 81 19.13.M.) Special Features Options and Accessories:
- 1. Integrated EconoMi\$er® IV, EconoMi\$er2, and EconoMi\$er X low leak rate models. (EconoMi\$er2, and EconoMi\$er X are factory-installed on 3 phase models only. All are field-installed on all 3 and 1 phase 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 IV (field-installed only) models shall be Honeywell W7212 that provides:
 - 1) Combined minimum and DCV maximum damper position potentiometers with compressor staging relay.
 - 2) Functions with solid-state analog enthalpy or dry bulb changeover control sensing.
 - 3) Contain LED indicates for: when free cooling is available, when module is in DCV mode, when exhaust fan contact is closed.
 - h. Economizer controller on EconoMi\$er X models shall be the Honeywell W7220 that provides:
 - 1) 2-line LCD interface screen for setup, configuration and troubleshooting.
 - 2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC.
 - 3) Sensor failure loss of communication identification.
 - 4) Automatic sensor detection.
 - 5) Capabilities for use with multiple-speed or single speed indoor fan systems.
 - 6) Utilize digital sensors: Dry bulb and Enthalpy.
 - i. Economizer controller on EconoMi\$er® 2 models with RTU Open or SystemVu controllers shall be a 4-20mA design controlled directly by the controller. RTU Open and SystemVu meet California Title 24, ASHRAE 90.1 and IECC¹ Fault Detection and Diagnostic (FDD) requirements.
 - j. Shall be capable of introducing up to 100% outdoor air.
 - k. 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.
 - l. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - m. 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.
 - n. 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%.
 - o. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
 - p. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - q. Economizer controller shall accept a 2 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.
 - r. Compressor lockout temperature on W7220 control is adjustable from -45°F to 80°F, set at a factory default of 32°F. W7212 control opens at 35°F (2°C) and closes at 50°F (10°C).
 - s. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - t. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
2. Integrated EconoMi\$er®2, and EconoMi\$er X Ultra Low Leak rate models. (Factory installed on 3 phase models only. Field installed on all 3 and 1 phase 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.

1. IECC is a registered trademark of the International Code Council, Inc.

- g. Economizer controller on EconoMi\$er X models shall be the Honeywell W7220 that provides:
 - 1) 2-line LCD interface screen for setup, configuration and troubleshooting.
 - 2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC.
 - 3) Sensor failure loss of communication identification.
 - 4) Automatic sensor detection.
 - 5) Capabilities for use with multiple-speed indoor fan systems.
 - 6) Utilize digital sensors: Dry bulb and Enthalpy.
 - h. Economizer controller on EconoMi\$er 2 models with RTU Open or SystemVu controls shall be a 4 to 20mA design controlled directly by the controller. RTU Open and SystemVu meet California Title 24, ASHRAE 90.1 and IECC Fault Detection and Diagnostic (FDD) requirements.
 - i. Shall be capable of introducing up to 100% outdoor air.
 - j. 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.
 - k. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - l. 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.
 - m. 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%.
 - n. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
 - o. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - p. Economizer controller shall accept a 2 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.
 - q. Compressor lockout temperature on W7220 control is adjustable from -45°F to 80°F, set at a factory default of 32°F. W7212 control opens at 35°F (2°C) and closes at 50°F (10°C).
 - r. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - s. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
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 pre-set to admit up to 25% or 50% outdoor air for year round ventilation.
 5. Humidi-MiZer® Adaptive Dehumidification System (3 Phase Models Only):
 - a. The Humidi-MiZer Adaptive Dehumidification System shall be factory installed and shall provide greater dehumidification of the occupied space by two modes of dehumidification operations in addition to its normal design cooling mode:
 - 1) Subcooling mode further sub cools the hot liquid refrigerant leaving the condenser coil when both temperature and humidity in the space are not satisfied.
 - 2) Hot gas reheat mode shall mix a portion of the hot gas from the discharge of the compressor with the hot liquid refrigerant leaving the condenser coil to create a two-phase heat transfer in the system, resulting in a neutral leaving air temperature when only humidity in the space is not satisfied.
 - 3) Includes low ambient controller.

6. Low Ambient Control Package:
 - a. Controller shall control coil head pressure by condenser fan speed modulation or condenser fan cycling and wind baffles.
 - b. Shall consist of solid-state control and condenser coil temperature sensor to maintain condensing temperature between 90°F (32°C) and 110°F (43°C) at outdoor ambient temperatures down to -20°F (-29°C).
 7. Condenser Coil Hail Guard Assembly (Factory-installed on 3 Phase Models Only. Field-installed on all 3 and 1 Phase Models.)
 - a. Shall protect against damage from hail.
 - b. Shall be either hood style or louvered.
 8. Unit-Mounted, Non-Fused Disconnect Switch (Available on units with MOCs of 80 amps or less):
 - a. Switch shall be factory installed, internally mounted.
 - b. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
 - c. Shall be accessible from outside the unit.
 - d. Shall provide local shutdown and lockout capability.
 - e. Sized only for the unit as ordered from the factory. Does not accommodate field-installed devices.
 9. 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.
 10. Convenience Outlet:
 - a. Powered convenience outlet. (3 Phase Models Only)
 - 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 115/120v 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 115/120v 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.
11. Thru-the-Base Connectors:
 - a. Kits shall provide connectors to permit gas and electrical connections to be brought to the unit through the unit basepan.
 - b. Minimum of four connection locations per unit.
12. 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 is 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.

13. 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.
14. Outdoor Air Enthalpy Sensor:
 - a. 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.
15. Return Air Enthalpy Sensor:
 - a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
16. 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.
17. Smoke detectors (factory-installed only):
 - a. Shall be a four-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 shut-down applications.
18. Winter Start Kit:
 - a. Shall contain a bypass device around the low pressure switch.
 - b. Shall be required when mechanical cooling is required down to 25°F (-4°C).
 - c. Shall not be required to operate on an economizer when below an outdoor ambient of 35°F (2°C).
19. Time Guard:
 - a. Shall prevent compressor short-cycling by providing a 5 minute delay (±2 minutes) before restarting a compressor after shut-down for any reason.
 - b. One device shall be required per compressor.
20. 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.
21. Condensate overflow switch:
 - a. This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:
 - 1) Indicator light — solid red (more than 10 seconds on water contact – compressors disabled), blinking red (sensor disconnected).
 - 2) 10 second delay to break — eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping).
 - 3) Disables the compressor(s) operation when condensate plug is detected, but still allows fans to run for economizer.
22. Foil Faced Insulation:
 - a. Throughout unit cabinet air stream, non-fibrous and cleanable foil faced insulation is used.
23. MERV-8 Return Air filters:
 - a. Factory option to upgrade standard unit filters to MERV-8 filters.
24. Phase Monitor Control:
 - a. Shall monitor the sequence of three phase electrical system to provide a phase reversal protection
 - b. Shall monitor the three 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.

Guide specifications (cont)

25. Horn/Strobe Annunciator:

a. Provides an audible/visual signaling device for use with factory-installed option or field installed accessory smoke detectors.

- 1) Requires installation of a field-supplied 24-v transformer suitable for 4.2 VA (AC) or 3.0 VA (DC) per horn/strobe accessory.
- 2) Requires field-supplied electrical box, North American 1-gang box, 2-in. (51 mm) x 4-in. (102 mm).
- 3) Shall have a clear colored lens.

26. 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 not exceeding 48 amps each. 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.