Carrier

Turn to the experts

Product Data

WeatherMaster® High Efficiency Single Packaged Heat Pump Rooftop

3 to 5 Nominal Tons

ecoblue™ technology



50GCQ 04, 05, 06

High Efficiency Single Packaged Heat Pump with Puron® Refrigerant (R-410A) and Optional Electric Heat

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Features/Benefits

The New Carrier WeatherMaster® heat pump 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:

- Patented, 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

50GCQ 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 to 16.2 while heating HSPF is a s high as 8.3. 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:

- precisely sized Suction Line Accumulator to help insure reliable operation at unit operation conditions
- Puron® refrigerant (R-410A)
- single point electrical connections
- optional fully integrated SystemVu™ controls
- RTU Open controller for BACnet[1], LonWorks[2], Modbus[3] 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
- 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 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.

1. BACnet is a trademark of ASHRAE.
2. LonWorks is a registered trademark of Echelon Corporation.
3. Modbus is a registered trademark of Schneider Electric.

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Features/Benefits (cont)

EcoBlue™ Technology

Direct drive EcoBlue Technology indoor fan system uses Vane Axial fan design and direct drive 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 50GCQ rooftops exceed ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016, IECC[1]-2018 (International Energy Conservation Code) minimum efficiency requirements.

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 Round Tube Plate Fin coils designs help maximize heat transfer and reliable operation.

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



Model number nomenclature

50GCQ 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	Q	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
Q = Heat Pump

Refrig. Systems Options
M = Two Stage Cooling Models

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 = CO_2
F = RA Smoke Detector and CO_2
G = SA Smoke Detector and CO_2
H = RA + SA Smoke Detector and CO_2
J = Condensate Overflow Switch
K = Condensate Overflow Swtich and RA Smoke Detectors
L = Condensate Overflow Switch and RA and SA Smoke Detectors
M = Condensate Overflow Swtich 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/ Barometic 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:
- Coated Coils or Cu Fin Coils
- Louvered Hail Guards
- Economizer
- Powered 115 Volt Convenience Outlet

Capacity ratings

AHRI RATINGS

COOLING MODE

50GCQ	NOM. CAPACITY (tons)	NET COOLING CAPACITY (Btuh)	TOTAL POWER (kW)	SEER	EER
M04	3	35,000	2.8	16.2	12.5
M05	4	47,500	3.9	16.2	12.2
M06	5	60,000	4.9	16.2	12.2

HEATING MODE

50GCQ	HSPF	HIGH HEATING CAPACITY (Btuh)	HIGH HEAT COP	LOW HEATING CAPACITY (Btuh)	LOW HEAT COP
M04	8.3	34,000	3.8	17,600	2.4
M05	8.3	45,500	3.7	24,400	2.3
M06	8.3	55,500	3.9	30,000	2.4

LEGEND

AHRI — Air Conditioning, Heating and Refrigeration Institute
ASHRAE — American Society of Heating, Refrigerating and Air Conditioning Engineers
COP — Coefficient of Performance
EER — Energy Efficiency Ratio
HSPF — Heating Seasonal Performance Factor
SEER — Seasonal Energy Efficiency Ratio

NOTES:

1. Rated and certified under AHRI Standard 210/240.
2. Ratings 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.
   High Temperature Heating Ratings: 47°F (8°C) db, 43°F (6°C) wb outdoor air temperature and 70°F (21°C) entering indoor coil air.
   Low Temperature Heating Ratings: 17°F (–8°C) db, 15°F (–9°C) wb outdoor air temperature and 70°F (21°C) entering indoor coil air.
3. All 50GCQ units comply with ASHRAE 90.1 Energy Standard for minimum SEER and EER requirements.

SOUND RATINGS TABLE

50GCQ UNIT	COOLING STAGES	OUTDOOR SOUND (dB) AT 60 Hz								
		A-WEIGHTED	63	125	250	500	1000	2000	4000	8000
M04	2	75.4	81.8	81.8	77.0	72.6	69.9	64.6	59.3	55.6
M05	2	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
M06	2	79.0	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.

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 ARIFLOW CFM
50GCQM04	900	675	900	1500	900	1500
50GCQM05	1200	900	1200	2000	1200	2000
50GCQM06	1500	1125	1500	2500	1500	2500

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

Physical data

50GCQ 3 TO 5 TON PHYSICAL DATA

50GCQ UNIT	50GCQM04	50GCQM05	50GCQM06
NOMINAL TONS	3	4	5
BASE UNIT OPERATING WT (lb)*	475	590	596
REFRIGERATION SYSTEM			
No. Circuits/No. Compressors/Type	1 / 1 / 2-Stage Scroll	1 / 1 / 2-Stage Scroll	1 / 1 / 2-Stage Scroll
Puron® (R-410A) Charge (lbs-oz)	10-3	11-3	15-0
Metering Device	TXV	TXV	TXV
High-Pressure Trip/Reset (psig)	630/505	630/505	630/505
Low-Pressure Trip/Reset (psig)	54/117	54/117	54/117
EVAPORATOR COIL (Indoor)			
Material (Tube/Fin)	Cu/Al	Cu/Al	Cu/Al
Coil Type	3/8-in. RTPF	3/8-in. RTPF	3/8-in. RTPF
Rows/FPI	3/15	3/15	4/15
Total Face Area (ft²)	5.5	7.3	7.3
Condensate Drain Connection Size	3/4-in.	3/4-in.	3/4-in.
CONDENSER COIL (Outdoor)			
Material	Cu/Al	Cu/Al	Cu/Al
Coil Type	5/16-in. RTPF	5/16-in. RTPF	5/16-in. RTPF
Rows/FPI	2/18	2/18	2/18
Total Face Area (ft²)	14.6	15.0	18.8
EVAPORATOR FAN AND MOTOR (Indoor)			
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	1/Direct
Max Cont BHP	1.07	1.53	1.96
RPM Range	249-2490	246-2460	266-2600
Fan Qty/Type	1/Vane Axial	1/Vane Axial	1/Vane Axial
Fan Diameter (in.)	16.6	16.6	16.6
Standard Static 3 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 3 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 3 Phase			
Motor Qty/Drive Type	1/Direct	1/Direct	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	1/Vane Axial	1/Vane Axial
Fan Diameter (in.)	16.6	16.6	16.6

Physical data (cont)

50GCQ 3 TO 5 TON PHYSICAL DATA (cont)

50GCQ UNIT	50GCQM04	50GCQM05	50GCQM06
CONDENSER FAN AND MOTOR (Outdoor)			
Qty / Motor Drive Type	1 / Direct	1 / Direct	1 / Direct
Motor HP/RPM	1/5 / 825/675	1/4 / 100/900	1/4 / 100/900
Fan Diameter (in.)	23	23	23
FILTERS			
RA Filter Qty / Size (in.)	2 / 16x25x2	4 / 16x16x2	4 / 16x16x2
OA Inlet Screen Qty / Size (in.)	1 / 20x24x1	1 / 20x24x1	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.

Options and accessories

ITEM	OPTION*	ACCESSORY†
ELECTRIC HEAT		
Electric Resistance Heaters		X
Single Point Kits		X
CABINET		
Thru-the-Base electrical connections	X	X
Hinged Access Panels	X	
MERV-8 Filters	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	
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	X
Horn Strobe Annunciator[2]		X
Time Guard II compressor delay control circuit		X
Phase Monitor[1]	X	X
Condensate Overflow switch	X	X
FILTERS		
MERV-8 Return Air Filters	X	
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

ITEM	OPTION*	ACCESSORY†
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:

1. Not available on single phase (-3 voltage code) models. Use field-installed accessory where available.
2. Requires a field-supplied 24V transformer for each application. See price pages for details.
3. FDD (Fault Detection and Diagnostic) capability per California Title 24 section 120.2.
4. Models with SystemVu and RTU Open DDC controls comply with California Title 24 Fault Detection and Diagnostic (FDD).
5. Included with economizer.
6. Sensors used to optimize economizer performance.
7. See application data for assistance.
8. 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.
9. 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.

Options and accessories (cont)

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 CO_2 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 CO_2 sensor

The CO_2 sensor works with the economizer to intake only the correct amount of outside air for ventilation. As occupants fill your building, the CO_2 sensor detects their presence through increasing CO_2 levels, and opens the economizer appropriately. When the occupants leave, the CO_2 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.

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 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.

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.

Options and accessories (cont)

- 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 set points

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 fasted 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.

Field-installed accessories

Electric heaters and single point kits

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.

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 set point.

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 CO_2 sensor

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

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.

Fan/filter status switch

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.

Options and accessories (cont)

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 accessories (cont)

OPTIONS AND ACCESSORY WEIGHTS

OPTION / ACCESSORY NAME	50GCQ UNIT WEIGHT					
	04		05		06	
	lb	kg	lb	kg	lb	kg
Power Exhaust - Vertical	51	23	51	23	51	23
Power Exhaust - Horizontal	39	18	39	18	39	18
EconoMi$er® (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
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	144	66	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
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

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

50GCQM04-06 BASE UNIT DIMENSIONS

NOTES:

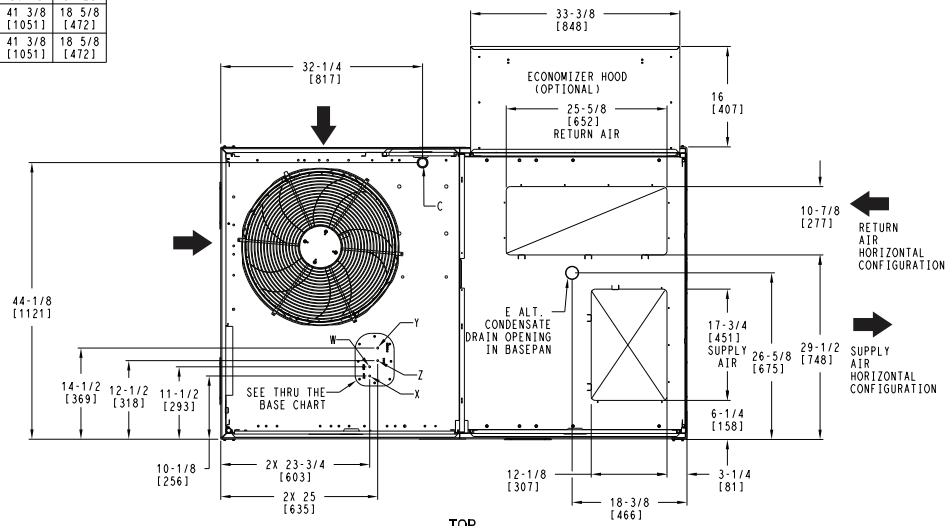
1. DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW
4. ALL VIEW DRAWN USING 3RD ANGLE

UNIT	J	K
50GCQ*04	33 3/8 [847]	18 5/8 [472]
50GCQ*05	41 3/8 [1051]	18 5/8 [472]
50GCQ*06	41 3/8 [1051]	18 5/8 [472]

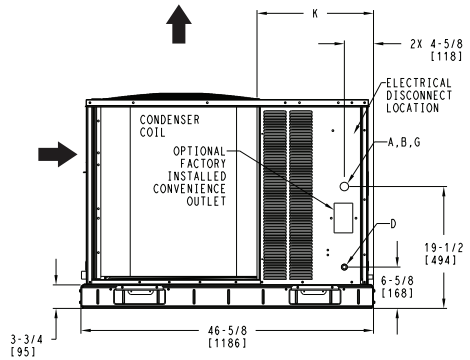
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	CONNECTION SIZES
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2" [51] DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [44] DIA GAUGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
G	2 1/2 " [64] DIA POWER SUPPLY KNOCK-OUT

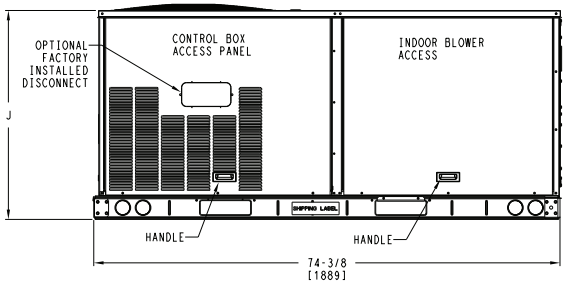
THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTMPWR008A00, 009A00			
	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
W	1/2"	115V	7/8" [22.2]
X	1/2"	24V	7/8" [22.2]
Y *	3/4"	POWER	1 1/8" [28.6]
Z**	(009A00) 1/2" FPT	GAS	1 1/8" [28.6]
	FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X,Y, & Z ARE PROVIDED		
*	SELECT EITHER 3/4" OR 1/2" FOR POWER, DEPENDING ON WIRE SIZE		
**	(008A00) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING.		



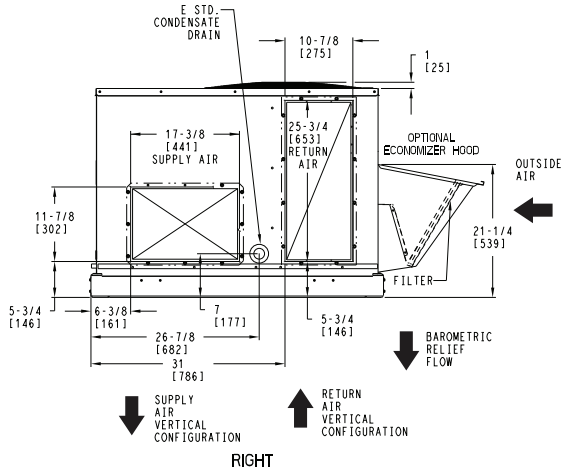
TOP



LEFT



FRONT



RIGHT

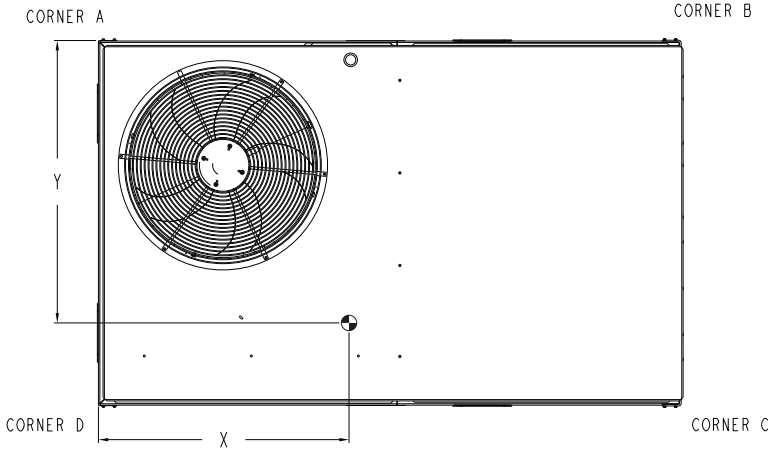
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN:NSR	1 OF 3	08/15/19	-	50GCQ 04-06 SINGLE PACKAGE HEAT PUMP	48TC003351	-

50GCQM04-06 BASE UNIT DIMENSIONS (cont)

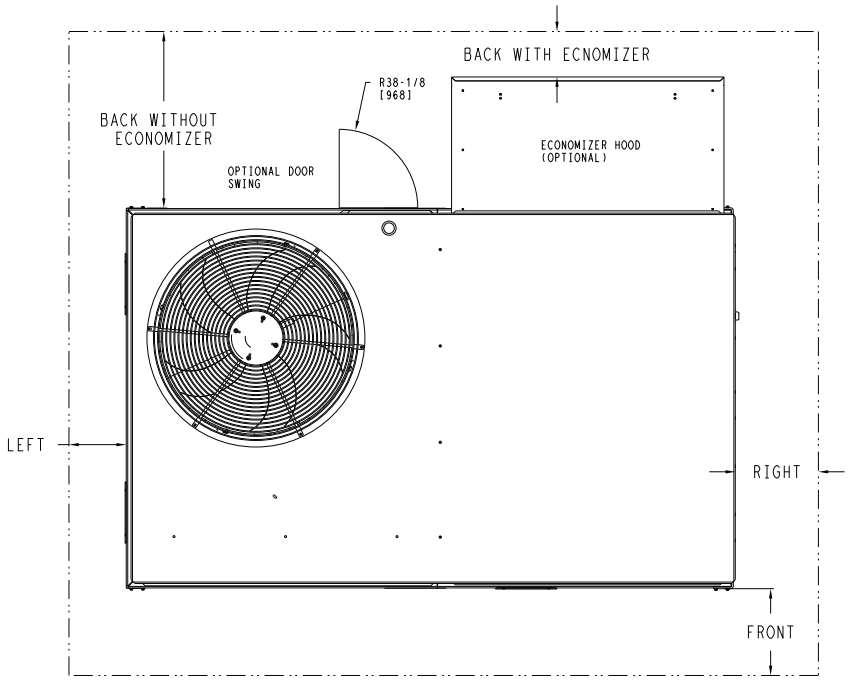
UNIT	STD. UNIT WEIGHT *		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		HEIGHT
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
50GCQ*04	475	215	128	58	120	54	110	50	117	53	36 [914]	22 3/8 [568]	16 1/8 [410]
50GCQ*05	590	268	162	73	147	67	134	61	148	67	35 3/8 [898]	22 5/16 [557]	16 1/2 [419]
50GCQ*06	596	270	163	74	148	67	125	61	149	68	35 3/8 [898]	22 5/16 [557]	16 1/2 [419]

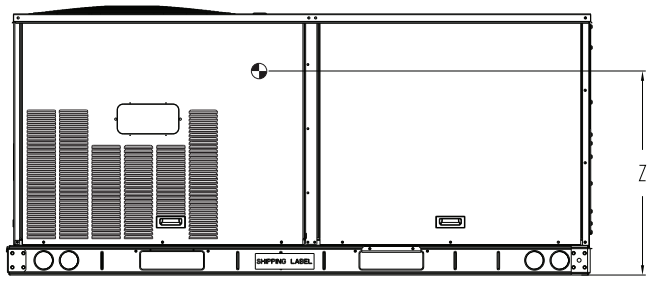
*- STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTIONS AND ACCESSORIES REFER TO THE PRODUCT DATA CATALOG.

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TOP





FRONT

NOTE:

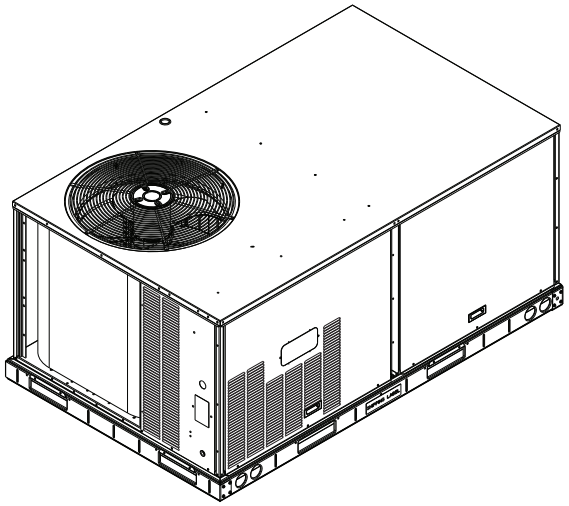
1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

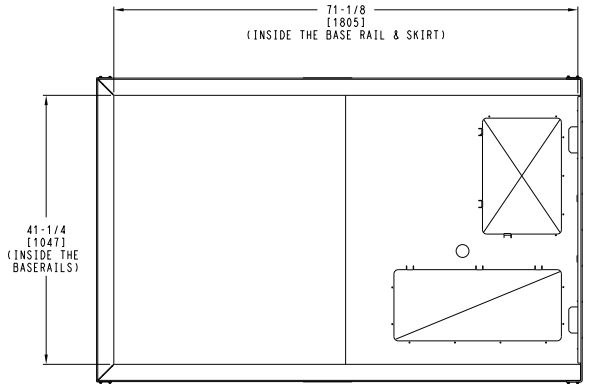
	CLEARANCE		
	SERVICE WITH:	SERVICE WITH:	OPERATING
SURFACE	CONDUCTIVE BARRIER	NONCONDUCTIVE BARRIER	CLEARANCE
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/O ECON	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/ECON	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]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

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN:NSR	2 OF 3	08/15/19	-	50GCQ 04-06 SINGLE PACKAGE HEAT PUMP	48TC003351	-

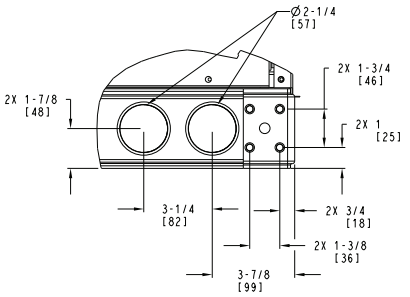
50GCQM04-06 BASE UNIT DIMENSIONS (cont)

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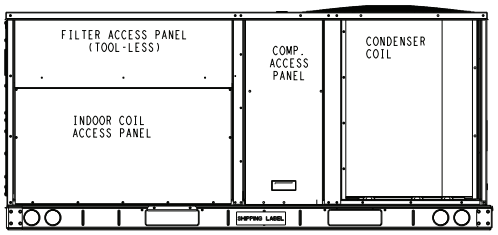




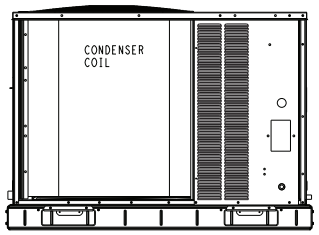
INSIDE BASERAIL DIMENSIONS
BOTTOM



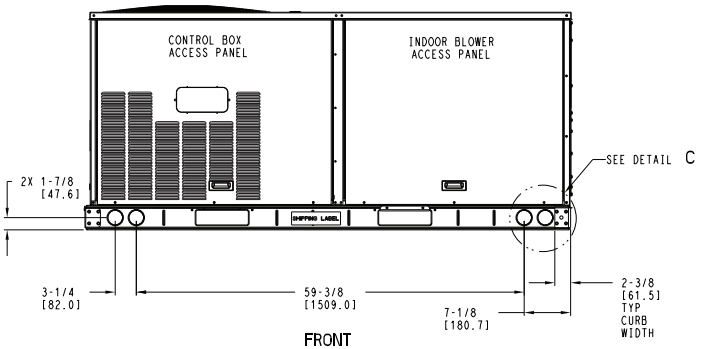
DETAIL C
TYP 4 PLCS



BACK



LEFT



FRONT

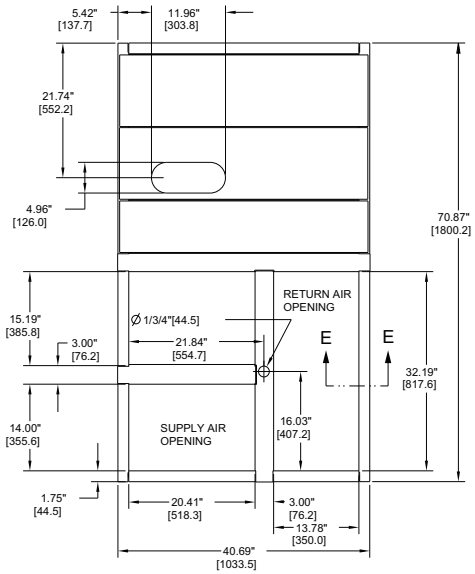
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN:NSR	3 OF 3	08/15/19	-	50GCQ 04-06 SINGLE PACKAGE HEAT PUMP	48TC003351	-

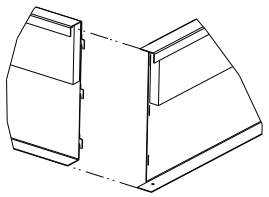
ROOF CURB DIMENSIONS — 50GCQM04-06

ROOF CURB ACCESSORY #	A
CRRFCURB001A01	14" [356]
CRRFCURB002A01	24" [610]

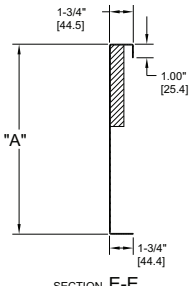
NOTES:
1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
2. INSULATED PANELS: 25.4 [1"] THK. POLYURETHANE FOAM, 44.5 [1-3/4] # DENSITY.
3. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
4. ROOFCURB: 18 GAGE STEEL.
5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB).
6. SERVICE CLEARANCE 4 FEET ON EACH SIDE.
7. ▨ DIRECTION OF AIR FLOW.
8. CONNECTOR PACKAGE CRBTMPWR001A01 IS FOR THRU-THE-CURB GAS TYPE PACKAGE CRBTMPWR003A01 IS FOR THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

CONNECTOR PKG. ACC.	GAS CONNECTION TYPE	GAS FITTING	POWER WIRING FITTING	CONTROL WIRING FITTING	ACCESSORY CONVENIENCE OUTLET WIRING CONNECTOR
CRBTMPWR001A01	THRU THE CURB	3/4" [19] NPT	3/4" [19] NPT	1/2" [12.7] NPT	1/2" [12.7] NPT
CRBTMPWR003A01	THRU THE BOTTOM	1/2" [12.7] NPT			

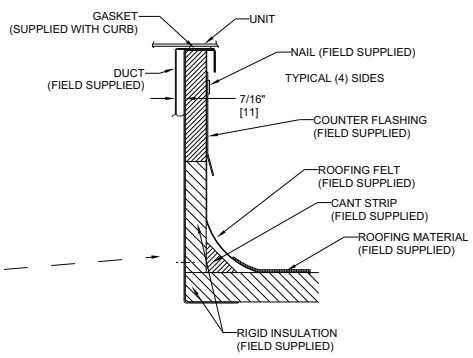


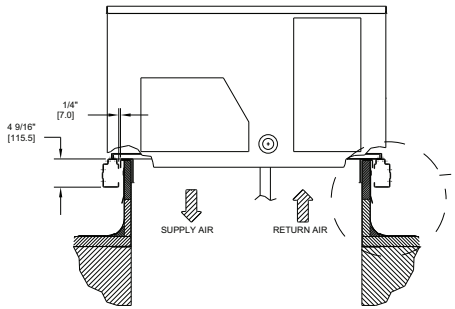


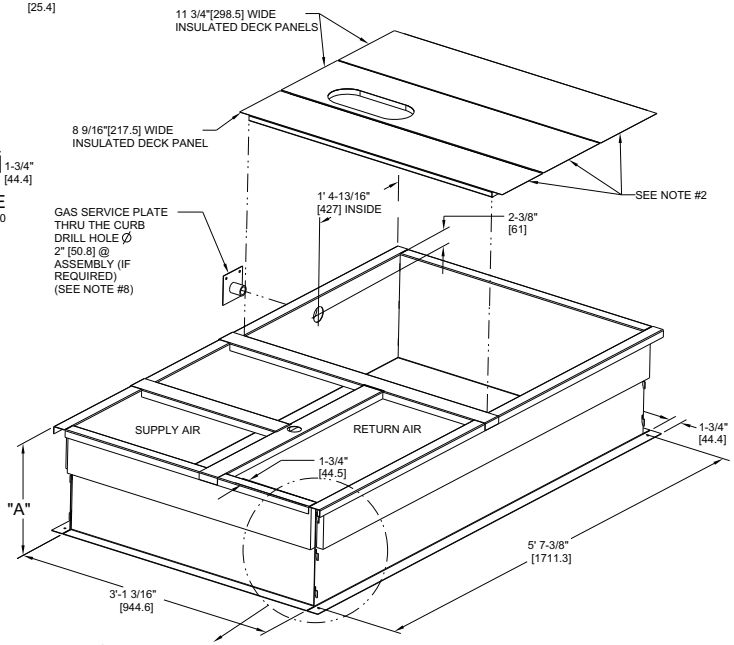
VIEW "B"
CORNER DETAIL



SECTION E-E
SCALE 0.250







CERTIFIED DRAWING

REV	REVISION RECORD	DATE	BY	CHK'D	APP'D	ECN NO.
A	OVERALL DIM. 5'-7 3/8" WAS 5'-7 7/8; 18GA MATERIAL WA 16 GA.; NAIL FIELD SUPPLIED WAS WITH CURB	04/22/13	MMC	-	-	1067898

DRAWING RELEASE LEVEL: PRODUCTION			
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 1 DEC ± - 2 DEC ± - 3 DEC ± - ANG ± -		
MATERIAL - - -	AUTHORIZATION NUMBER 1041738	TITLE	CURB ASY, ROOF
ENGINEERING REQUIREMENTS T-005, Y-002	ENGINEERING - - MANUFACTURING - -	SIZE D	DRAWING NUMBER 48TC400427 SHEET 5 OF 5 REV B
WEIGHT: -	DRAFTER MMC 06/17/11 CHECKER - -		
SURFACE FINISH -	MFG/PURCH PURCH	MODEL (INTERNAL USE ONLY)	NEXT DRAWING - SCALE N/A DISTRIBUTION MMC

Performance data

50GCQM04 HIGH STAGE COOLING CAPACITIES

50GCQM04				AMBIENT TEMPERATURE (F)															
				85			95			105			115			125		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
900 Cfm	EAT (wb)	58	TC	30.8	30.8	35.0	28.9	28.9	33.0	27.0	27.0	30.8	24.8	24.8	28.5	22.5	22.5	25.9
			SHC	26.6	30.8	35.0	24.9	28.9	33.0	23.1	27.0	30.8	21.2	24.8	28.5	19.1	22.5	25.9
		62	TC	32.6	32.6	33.5	30.3	30.3	32.1	27.9	27.9	30.7	25.3	25.3	29.1	22.6	22.6	27.0
			SHC	24.1	28.8	33.5	22.7	27.4	32.1	21.3	26.0	30.7	19.7	24.4	29.1	17.9	22.4	27.0
		67	TC	36.3	36.3	36.3	33.9	33.9	33.9	31.3	31.3	31.3	28.5	28.5	28.5	25.4	25.4	25.4
			SHC	19.8	24.4	29.1	18.4	23.1	27.8	17.0	21.7	26.4	15.5	20.2	24.9	13.9	18.7	23.4
		72	TC	40.3	40.3	40.3	37.8	37.8	37.8	35.0	35.0	35.0	32.0	32.0	32.0	28.7	28.7	28.7
			SHC	15.4	19.9	24.5	14.1	18.6	23.2	12.7	17.3	21.9	11.2	15.8	20.4	9.6	14.2	18.9
		76	TC	—	43.7	43.7	—	41.0	41.0	—	38.1	38.1	—	34.9	34.9	—	31.4	31.4
			SHC	—	16.1	21.1	—	14.9	19.9	—	13.6	17.7	—	12.2	16.5	—	10.7	15.1
1050 Cfm	EAT (wb)	58	TC	32.8	32.8	37.2	30.8	30.8	35.1	28.7	28.7	32.8	26.5	26.5	30.3	24.0	24.0	27.5
			SHC	28.3	32.8	37.2	26.6	30.8	35.1	24.7	28.7	32.8	22.6	26.5	30.3	20.4	24.0	27.5
		62	TC	33.8	33.8	37.0	31.4	31.4	35.6	28.9	28.9	33.9	26.8	26.8	30.8	24.0	24.0	28.8
			SHC	26.2	31.6	37.0	24.8	30.2	35.6	23.2	28.6	33.9	21.0	25.9	30.8	19.2	24.0	28.8
		67	TC	37.5	37.5	37.5	35.0	35.0	35.0	32.3	32.3	32.3	29.4	29.4	29.4	26.1	26.1	26.2
			SHC	21.2	26.6	32.0	19.8	25.2	30.7	18.4	23.8	29.2	16.9	22.3	27.7	15.3	20.7	26.2
		72	TC	41.6	41.6	41.6	38.9	38.9	38.9	36.0	36.0	36.0	32.9	32.9	32.9	29.4	29.4	29.4
			SHC	16.1	21.4	26.7	14.7	20.1	25.4	13.3	18.6	24.0	11.8	17.2	22.5	10.2	15.6	21.0
		76	TC	—	45.0	45.0	—	42.2	42.2	—	39.2	39.2	—	35.8	35.8	—	32.2	32.2
			SHC	—	17.1	21.8	—	15.8	20.7	—	14.4	19.5	—	13.0	18.1	—	11.4	16.7
1200 Cfm	EAT (wb)	58	TC	34.5	34.5	39.1	32.4	32.4	36.9	30.2	30.2	34.4	27.8	27.8	31.8	25.2	25.2	28.9
			SHC	29.8	34.5	39.1	28.0	32.4	36.9	26.0	30.2	34.4	23.8	27.8	31.8	21.4	25.2	28.9
		62	TC	34.8	34.8	40.2	32.7	32.7	37.8	30.3	30.3	35.9	27.8	27.8	33.2	25.2	25.2	30.2
			SHC	28.1	34.2	40.2	26.3	32.0	37.8	24.6	30.3	35.9	22.5	27.8	33.2	20.2	25.2	30.2
		67	TC	38.5	38.5	38.5	35.9	35.9	35.9	33.1	33.1	33.1	30.0	30.0	30.5	26.7	26.7	28.8
			SHC	22.6	28.7	34.8	21.2	27.3	33.5	19.7	25.9	32.0	18.2	24.3	30.5	16.5	22.7	28.8
		72	TC	42.6	42.6	42.6	39.8	39.8	39.8	36.8	36.8	36.8	33.5	33.5	33.5	30.0	30.0	30.0
			SHC	16.7	22.7	28.8	15.3	21.4	27.4	13.9	20.0	26.0	12.3	18.4	24.5	10.7	16.9	23.0
		76	TC	—	46.1	46.1	—	43.1	43.1	—	40.0	40.0	—	36.5	36.5	—	32.8	32.8
			SHC	—	17.9	23.6	—	16.6	22.4	—	15.2	21.0	—	13.7	19.6	—	12.1	18.1
1350 Cfm	EAT (wb)	58	TC	35.9	35.9	40.7	33.8	33.8	38.4	31.5	31.5	35.8	28.9	28.9	33.1	26.2	26.2	30.0
			SHC	31.1	35.9	40.7	29.2	33.8	38.4	27.1	31.5	35.8	24.8	28.9	33.1	22.3	26.2	30.0
		62	TC	35.9	35.9	42.4	33.8	33.8	39.9	31.5	31.5	37.3	29.0	29.0	34.5	26.2	26.2	31.3
			SHC	29.5	35.9	42.4	27.7	33.8	39.9	25.7	31.5	37.3	23.5	29.0	34.5	21.1	26.2	31.3
		67	TC	39.2	39.2	39.2	36.6	36.6	36.6	33.7	33.7	34.7	30.5	30.5	33.1	27.1	27.1	31.4
			SHC	23.9	30.7	37.5	22.4	29.3	36.1	21.0	27.8	34.7	19.4	26.2	33.1	17.7	24.5	31.4
		72	TC	43.3	43.3	43.3	40.5	40.5	40.5	37.4	37.4	37.4	34.1	34.1	34.1	30.4	30.4	30.4
			SHC	17.3	24.0	30.8	15.9	22.7	29.4	14.4	21.2	28.0	12.9	19.7	26.5	11.3	18.1	24.9
		76	TC	—	46.8	46.8	—	43.9	43.9	—	40.6	40.6	—	37.1	37.1	—	33.3	33.3
			SHC	—	18.6	25.1	—	17.3	23.8	—	15.9	22.5	—	14.4	21.0	—	12.8	19.5
1500 Cfm	EAT (wb)	58	TC	37.1	37.1	42.1	34.9	34.9	39.6	32.5	32.5	37.0	29.9	29.9	34.1	27.0	27.0	31.0
			SHC	32.2	37.1	42.1	30.2	34.9	39.6	28.0	32.5	37.0	25.7	29.9	34.1	23.1	27.0	31.0
		62	TC	37.2	37.2	43.8	35.0	35.0	41.3	32.6	32.6	38.6	29.9	29.9	35.6	27.1	27.1	32.3
			SHC	30.6	37.2	43.8	28.6	35.0	41.3	26.6	32.6	38.6	24.3	29.9	35.6	21.8	27.1	32.3
		67	TC	39.9	39.9	40.1	37.1	37.1	38.7	34.2	34.2	37.2	31.0	31.0	35.6	27.5	27.5	33.8
			SHC	25.1	32.6	40.1	23.7	31.2	38.7	22.1	29.7	37.2	20.5	28.0	35.6	18.8	26.3	33.8
		72	TC	44.0	44.0	44.0	41.1	41.1	41.1	37.9	37.9	37.9	34.5	34.5	34.5	30.8	30.8	30.8
			SHC	17.8	25.3	32.7	16.4	23.9	31.4	14.9	22.4	29.9	13.4	20.9	28.4	11.7	19.3	26.8
		76	TC	—	47.5	47.5	—	44.4	44.4	—	41.1	41.1	—	37.5	37.5	—	33.7	33.7
			SHC	—	19.3	26.5	—	18.0	25.2	—	16.5	23.8	—	15.0	22.4	—	13.4	20.8

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 5.

Performance data (cont)

50GCQM04 LOW STAGE COOLING CAPACITIES

50GCQM04				AMBIENT TEMPERATURE (F)															
				85			95			105			115			125			
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	
750 Cfm	EAT (wb)	58	TC	23.2	23.2	26.2	22.0	22.0	24.9	20.8	20.8	23.5	19.4	19.4	21.9	17.9	17.9	20.2	
			SHC	20.2	23.2	26.2	19.2	22.0	24.9	18.1	20.8	23.5	16.8	19.4	21.9	15.5	17.9	20.2	
		62	TC	23.7	23.7	26.3	22.3	22.3	25.5	21.3	21.3	22.9	19.4	19.4	22.8	17.9	17.9	21.0	
			SHC	18.9	22.6	26.3	18.1	21.8	25.5	16.5	19.7	22.9	16.0	19.4	22.8	14.7	17.9	21.0	
		67	TC	26.4	26.4	26.4	24.8	24.8	24.8	23.1	23.1	23.1	21.2	21.2	21.2	19.2	19.2	19.8	
			SHC	15.4	19.1	22.8	14.7	18.4	22.1	13.9	17.7	21.4	13.1	16.9	20.6	12.3	16.0	19.8	
		72	TC	29.3	29.3	29.3	27.6	27.6	27.6	25.8	25.8	25.8	23.8	23.8	23.8	21.5	21.5	21.5	
			SHC	11.8	15.4	19.0	11.1	14.7	18.4	10.4	14.0	17.7	9.6	13.3	16.9	8.7	12.4	16.1	
		76	TC	—	31.6	31.6	—	29.9	29.9	—	28.0	28.0	—	25.9	25.9	—	23.5	23.5	
			SHC	—	12.3	16.4	—	11.7	14.8	—	11.0	14.4	—	10.3	13.7	—	9.5	13.0	
900 Cfm	EAT (wb)	58	TC	24.7	24.7	27.9	23.4	23.4	26.5	22.1	22.1	24.9	20.6	20.6	23.3	18.9	18.9	21.4	
			SHC	21.5	24.7	27.9	20.4	23.4	26.5	19.2	22.1	24.9	17.9	20.6	23.3	16.4	18.9	21.4	
		62	TC	25.0	25.0	28.2	23.5	23.5	27.5	22.1	22.1	25.9	20.6	20.6	24.2	19.0	19.0	22.3	
			SHC	20.1	24.1	28.2	19.4	23.5	27.5	18.3	22.1	25.9	17.0	20.6	24.2	15.6	19.0	22.3	
		67	TC	27.2	27.2	27.2	25.6	25.6	25.6	23.8	23.8	24.0	21.8	21.8	23.2	19.7	19.7	22.3	
			SHC	16.6	21.0	25.4	15.9	20.3	24.7	15.1	19.5	24.0	14.3	18.7	23.2	13.4	17.8	22.3	
		72	TC	30.1	30.1	30.1	28.4	28.4	28.4	26.5	26.5	26.5	24.4	24.4	24.4	22.1	22.1	22.1	
			SHC	12.3	16.6	20.9	11.6	16.0	20.3	10.9	15.2	19.6	10.1	14.4	18.8	9.2	13.6	18.0	
		76	TC	—	32.7	32.7	—	30.8	30.8	—	28.8	28.8	—	26.6	26.6	—	24.1	24.1	
			SHC	—	13.1	17.0	—	12.4	16.5	—	11.7	15.9	—	11.0	15.2	—	10.1	14.4	
1050 Cfm	EAT (wb)	58	TC	25.9	25.9	29.2	24.6	24.6	27.7	23.1	23.1	26.1	21.6	21.6	24.4	19.8	19.8	22.4	
			SHC	22.6	25.9	29.2	21.4	24.6	27.7	20.1	23.1	26.1	18.7	21.6	24.4	17.2	19.8	22.4	
		62	TC	25.9	25.9	30.4	24.6	24.6	28.9	23.2	23.2	27.2	21.6	21.6	25.3	19.8	19.8	23.3	
			SHC	21.5	25.9	30.4	20.4	24.6	28.9	19.2	23.2	27.2	17.8	21.6	25.3	16.3	19.8	23.3	
		67	TC	27.9	27.9	27.9	26.2	26.2	27.1	24.3	24.3	26.4	22.3	22.3	25.5	20.1	20.1	24.4	
			SHC	17.7	22.8	27.8	17.0	22.1	27.1	16.2	21.3	26.4	15.4	20.5	25.5	14.4	19.4	24.4	
		72	TC	30.8	30.8	30.8	29.0	29.0	29.0	27.0	27.0	27.0	24.9	24.9	24.9	22.5	22.5	22.5	
			SHC	12.8	17.8	22.7	12.1	17.1	22.1	11.4	16.4	21.4	10.5	15.6	20.6	9.7	14.7	19.8	
		76	TC	—	33.4	33.4	—	31.5	31.5	—	29.4	29.4	—	27.1	27.1	—	24.6	24.6	
			SHC	—	13.7	18.5	—	13.1	17.9	—	12.4	17.2	—	11.6	16.5	—	10.8	15.7	
1200 Cfm	EAT (wb)	58	TC	26.9	26.9	30.4	25.5	25.5	28.8	24.0	24.0	27.1	22.3	22.3	25.2	20.5	20.5	23.2	
			SHC	23.5	26.9	30.4	22.2	25.5	28.8	20.9	24.0	27.1	19.4	22.3	25.2	17.8	20.5	23.2	
		62	TC	26.9	26.9	31.6	25.5	25.5	29.9	24.0	24.0	28.2	22.4	22.4	26.3	20.5	20.5	24.1	
			SHC	22.3	26.9	31.6	21.2	25.5	29.9	19.9	24.0	28.2	18.5	22.4	26.3	16.9	20.5	24.1	
		67	TC	28.4	28.4	30.2	26.6	26.6	29.5	24.7	24.7	28.6	22.6	22.6	27.6	20.6	20.6	25.7	
			SHC	18.8	24.5	30.2	18.1	23.8	29.5	17.3	22.9	28.6	16.3	22	27.6	15.1	20.4	25.7	
		72	TC	31.3	31.3	31.3	29.4	29.4	29.4	27.4	27.4	27.4	25.2	25.2	25.2	22.8	22.8	22.8	
			SHC	13.3	18.9	24.5	12.6	18.2	23.8	11.8	17.5	23.1	11.0	16.7	22.3	10.1	15.8	21.5	
		76	TC	—	33.9	33.9	—	32.0	32.0	—	29.8	29.8	—	27.5	27.5	—	24.9	24.9	
			SHC	—	14.3	19.8	—	13.7	19.1	—	12.9	18.5	—	12.2	17.7	—	11.3	16.9	
1350 Cfm	EAT (wb)	58	TC	27.8	27.8	31.3	26.3	26.3	29.7	24.8	24.8	27.9	23.0	23.0	26.0	21.1	21.1	23.8	
			SHC	24.2	27.8	31.3	22.9	26.3	29.7	21.6	24.8	27.9	20.0	23.0	26.0	18.3	21.1	23.8	
		62	TC	27.8	27.8	32.5	26.3	26.3	30.8	24.7	24.7	29.0	23.0	23.0	27.0	21.1	21.1	24.8	
			SHC	23.0	27.8	32.5	21.8	26.3	30.8	20.5	24.7	29.0	19.0	23.0	27.0	17.4	21.1	24.8	
		67	TC	28.7	28.7	32.4	27.0	27.0	31.5	25.0	25.0	30.6	23.1	23.1	28.7	21.1	21.1	26.7	
			SHC	19.8	26.1	32.4	19.0	25.3	31.5	18.2	24.4	30.6	17.0	22.8	28.7	15.6	21.1	26.7	
		72	TC	31.7	31.7	31.7	29.8	29.8	29.8	27.8	27.8	27.8	25.5	25.5	25.5	23.0	23.0	23.1	
			SHC	13.7	19.9	26.2	13.0	19.2	25.5	12.2	18.5	24.8	11.4	17.7	24.0	10.5	16.8	23.1	
		76	TC	—	34.4	34.4	—	32.4	32.4	—	30.2	30.2	—	27.8	27.8	—	25.2	25.2	
			SHC	—	14.9	21.0	—	14.2	20.4	—	13.5	19.7	—	12.7	18.9	—	11.9	18.1	

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 5.

Performance data (cont)

50GCQM05 HIGH STAGE COOLING CAPACITIES

50GCQM05				AMBIENT TEMPERATURE (F)															
				85			95			105			115			125			
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	
1200 Cfm	EAT (wb)	58	TC	41.7	41.7	47.4	39.2	39.2	44.7	36.6	36.6	41.8	33.7	33.7	38.6	30.7	30.7	35.4	
			SHC	36.0	41.7	47.4	33.8	39.2	44.7	31.3	36.6	41.8	28.7	33.7	38.6	26.1	30.7	35.4	
		62	TC	44.1	44.1	45.3	41.0	41.0	43.4	37.8	37.8	41.5	34.2	34.2	39.4	30.8	30.8	36.4	
			SHC	32.6	38.9	45.3	30.7	37.1	43.4	28.8	35.2	41.5	26.8	33.1	39.4	24.2	30.3	36.4	
		67	TC	48.9	48.9	48.9	45.7	45.7	45.7	42.2	42.2	42.2	38.4	38.4	38.4	34.4	34.4	34.4	
			SHC	26.7	33.0	39.3	24.8	31.2	37.5	22.9	29.3	35.6	20.9	27.3	33.7	18.9	25.2	31.6	
		72	TC	54.2	54.2	54.2	50.7	50.7	50.7	46.9	46.9	46.9	42.9	42.9	42.9	38.6	38.6	38.6	
			SHC	20.7	26.9	33.1	18.8	25.1	31.3	16.9	23.2	29.5	15.0	21.3	27.5	12.9	19.2	25.5	
		76	TC	—	58.4	58.4	—	54.7	54.7	—	50.9	50.9	—	46.6	46.6	—	42.1	42.1	
			SHC	—	21.7	28.3	—	20.0	25.5	—	18.2	24.1	—	16.3	22.3	—	14.3	20.4	
1400 Cfm	EAT (wb)	58	TC	44.4	44.4	50.4	41.7	41.7	47.5	38.9	38.9	44.4	35.8	35.8	41.0	32.5	32.5	37.4	
			SHC	38.4	44.4	50.4	36.0	41.7	47.5	33.4	38.9	44.4	30.6	35.8	41.0	27.7	32.5	37.4	
		62	TC	45.6	45.6	50.2	42.4	42.4	48.2	39.1	39.1	46.0	36.0	36.0	42.6	32.6	32.6	39.1	
			SHC	35.5	42.9	50.2	33.6	40.9	48.2	31.5	38.7	46.0	28.9	35.8	42.6	26.1	32.6	39.1	
		67	TC	50.6	50.6	50.6	47.1	47.1	47.1	43.5	43.5	43.5	39.6	39.6	39.6	35.4	35.4	35.4	
			SHC	28.6	36.0	43.3	26.8	34.1	41.5	24.8	32.2	39.6	22.8	30.2	37.5	20.7	28.1	35.4	
		72	TC	55.8	55.8	55.8	52.2	52.2	52.2	48.3	48.3	48.3	44.1	44.1	44.1	39.6	39.6	39.6	
			SHC	21.6	28.8	36.1	19.8	27.0	34.3	17.8	25.1	32.4	15.8	23.1	30.4	13.7	21.0	28.3	
		76	TC	—	60.1	60.1	—	56.4	56.4	—	52.4	52.4	—	47.9	47.9	—	43.2	43.2	
			SHC	—	23.0	29.7	—	21.2	28.1	—	19.4	26.4	—	17.4	24.5	—	15.3	22.5	
1600 Cfm	EAT (wb)	58	TC	46.6	46.6	52.9	43.8	43.8	49.8	40.8	40.8	46.5	37.6	37.6	43.0	34.1	34.1	39.2	
			SHC	40.4	46.6	52.9	37.8	43.8	49.8	35.1	40.8	46.5	32.2	37.6	43.0	29.1	34.1	39.2	
		62	TC	47.4	47.4	53.0	44.3	44.3	50.7	40.9	40.9	48.5	37.7	37.7	44.9	34.2	34.2	40.9	
			SHC	37.4	45.2	53.0	35.3	43.0	50.7	33.3	40.9	48.5	30.4	37.7	44.9	27.4	34.2	40.9	
		67	TC	51.8	51.8	51.8	48.2	48.2	48.2	44.5	44.5	44.5	40.4	40.4	41.3	36.1	36.1	39.1	
			SHC	30.5	38.8	47.2	28.6	36.9	45.3	26.6	35.0	43.3	24.6	32.9	41.3	22.4	30.8	39.1	
		72	TC	57.1	57.1	57.1	53.3	53.3	53.3	49.2	49.2	49.2	44.9	44.9	44.9	40.3	40.3	40.3	
			SHC	22.5	30.7	39.0	20.6	28.8	37.1	18.6	26.9	35.2	16.6	24.9	33.2	14.4	22.7	31.1	
		76	TC	—	61.6	61.6	—	57.7	57.7	—	53.4	53.4	—	48.8	48.8	—	43.9	43.9	
			SHC	—	24.1	32.0	—	22.3	30.2	—	20.3	28.4	—	18.4	26.5	—	16.3	24.4	
1800 Cfm	EAT (wb)	58	TC	48.5	48.5	55.0	45.6	45.6	51.8	42.5	42.5	48.4	39.1	39.1	44.7	35.4	35.4	40.6	
			SHC	42.1	48.5	55.0	39.4	45.6	51.8	36.6	42.5	48.4	33.5	39.1	44.7	30.3	35.4	40.6	
		62	TC	48.8	48.8	56.6	45.7	45.7	53.9	42.5	42.5	50.4	39.1	39.1	46.6	35.5	35.5	42.4	
			SHC	39.7	48.2	56.6	37.4	45.7	53.9	34.6	42.5	50.4	31.7	39.1	46.6	28.6	35.5	42.4	
		67	TC	52.8	52.8	52.8	49.1	49.1	49.1	45.2	45.2	47.0	41.1	41.1	44.9	36.6	36.6	42.6	
			SHC	32.3	41.6	50.9	30.3	39.7	49.0	28.3	37.7	47.0	26.2	35.6	44.9	24.0	33.3	42.6	
		72	TC	58.1	58.1	58.1	54.2	54.2	54.2	50.0	50.0	50.0	45.6	45.6	45.6	40.9	40.9	40.9	
			SHC	23.2	32.5	41.7	21.3	30.6	39.8	19.3	28.6	37.9	17.3	26.6	35.9	15.1	24.4	33.8	
		76	TC	—	62.7	62.7	—	58.6	58.6	—	54.2	54.2	—	49.6	49.6	—	44.6	44.6	
			SHC	—	25.1	34.0	—	23.2	32.2	—	21.3	30.3	—	19.3	28.4	—	17.2	26.3	
2000 Cfm	EAT (wb)	58	TC	50.2	50.2	56.8	47.1	47.1	53.5	43.9	43.9	49.9	40.4	40.4	46.1	36.6	36.6	41.9	
			SHC	43.5	50.2	56.8	40.7	47.1	53.5	37.8	43.9	49.9	34.7	40.4	46.1	31.3	36.6	41.9	
		62	TC	50.2	50.2	59.1	47.2	47.2	55.7	43.9	43.9	52.0	40.4	40.4	48.0	36.6	36.6	43.7	
			SHC	41.3	50.2	59.1	38.7	47.2	55.7	35.8	43.9	52.0	32.8	40.4	48.0	29.5	36.6	43.7	
		67	TC	53.6	53.6	54.5	49.8	49.8	52.5	45.9	45.9	50.5	41.6	41.6	48.3	37.1	37.1	45.9	
			SHC	33.9	44.2	54.5	32.0	42.3	52.5	30.0	40.2	50.5	27.8	38.1	48.3	25.5	35.7	45.9	
		72	TC	59.0	59.0	59.0	55.0	55.0	55.0	50.7	50.7	50.7	46.2	46.2	46.2	41.4	41.4	41.4	
			SHC	24.0	34.2	44.4	22.0	32.3	42.5	20.0	30.3	40.5	18.0	28.2	38.5	15.8	26.1	36.3	
		76	TC	—	63.6	63.6	—	59.4	59.4	—	54.9	54.9	—	50.2	50.2	—	45.1	45.1	
			SHC	—	26.0	35.9	—	24.1	34.1	—	22.2	32.2	—	20.2	30.2	—	18.0	28.1	

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 5.

Performance data (cont)

50GCQM05 LOW STAGE COOLING CAPACITIES

50GCQM05				AMBIENT TEMPERATURE (F)															
				85			95			105			115			125		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1000 Cfm	EAT (wb)	58	TC	29.9	29.9	34.2	27.3	27.3	31.4	24.5	24.5	28.3	21.5	21.5	25.0	18.2	18.2	21.4
			SHC	25.6	29.9	34.2	23.3	27.3	31.4	20.7	24.5	28.3	18.0	21.5	25.0	15.0	18.2	21.4
		62	TC	30.7	30.7	34.5	27.6	27.6	32.5	24.6	24.6	29.7	21.5	21.5	26.2	18.2	18.2	22.5
			SHC	23.8	29.2	34.5	21.8	27.2	32.5	19.5	24.6	29.7	16.8	21.5	26.2	13.9	18.2	22.5
		67	TC	34.7	34.7	34.7	31.6	31.6	31.6	28.0	28.0	28.0	24.0	24.0	24.0	19.8	19.8	21.7
			SHC	19.1	24.4	29.7	17.3	22.7	28.0	15.3	20.7	26.0	13.2	18.6	23.9	11.0	16.4	21.7
		72	TC	38.9	38.9	38.9	35.8	35.8	35.8	32.1	32.1	32.1	28.0	28.0	28.0	23.6	23.6	23.6
			SHC	14.4	19.5	24.6	12.6	17.9	23.1	10.7	16.0	21.3	8.6	13.9	19.3	6.4	11.8	17.1
		76	TC	—	42.6	42.6	—	39.4	39.4	—	35.7	35.7	—	31.4	31.4	—	26.8	26.8
			SHC	—	15.6	20.2	—	14.0	18.8	—	12.2	17.3	—	10.2	15.4	—	8.0	13.3
1200 Cfm	EAT (wb)	58	TC	32.4	32.4	37.0	29.7	29.7	34.0	26.7	26.7	30.8	23.5	23.5	27.2	19.9	19.9	23.3
			SHC	27.9	32.4	37.0	25.4	29.7	34.0	22.7	26.7	30.8	19.7	23.5	27.2	16.5	19.9	23.3
		62	TC	32.5	32.5	38.6	29.7	29.7	35.5	26.8	26.8	32.2	23.5	23.5	28.5	19.9	19.9	24.5
			SHC	26.4	32.5	38.6	24.0	29.7	35.5	21.3	26.8	32.2	18.5	23.5	28.5	15.4	19.9	24.5
		67	TC	36.2	36.2	36.2	32.8	32.8	32.8	29.1	29.1	30.0	25.0	25.0	27.9	20.6	20.6	25.5
			SHC	21.2	27.6	34.0	19.3	25.7	32.1	17.2	23.6	30.0	15.1	21.5	27.9	12.8	19.2	25.5
		72	TC	40.6	40.6	40.6	37.2	37.2	37.2	33.3	33.3	33.3	29.0	29.0	29.0	24.4	24.4	24.4
			SHC	15.4	21.6	27.8	13.6	19.9	26.3	11.6	17.9	24.3	9.5	15.8	22.2	7.2	13.6	20.0
		76	TC	—	44.5	44.5	—	41.0	41.0	—	36.9	36.9	—	32.5	32.5	—	27.7	27.7
			SHC	—	16.9	22.8	—	15.2	21.4	—	13.3	19.5	—	11.2	17.5	—	9.1	15.3
1400 Cfm	EAT (wb)	58	TC	34.5	34.5	39.3	31.6	31.6	36.1	28.5	28.5	32.7	25.0	25.0	29.0	21.3	21.3	24.9
			SHC	29.7	34.5	39.3	27.1	31.6	36.1	24.2	28.5	32.7	21.1	25.0	29.0	17.8	21.3	24.9
		62	TC	34.5	34.5	40.9	31.6	31.6	37.7	28.5	28.5	34.2	25.1	25.1	30.3	21.4	21.4	26.1
			SHC	28.1	34.5	40.9	25.6	31.6	37.7	22.8	28.5	34.2	19.8	25.1	30.3	16.6	21.4	26.1
		67	TC	37.3	37.3	37.9	33.7	33.7	36.0	29.9	29.9	33.9	25.7	25.7	31.6	21.5	21.5	28.3
			SHC	23.1	30.5	37.9	21.1	28.5	36.0	19.1	26.5	33.9	16.8	24.2	31.6	14.2	21.2	28.3
		72	TC	41.8	41.8	41.8	38.2	38.2	38.2	34.2	34.2	34.2	29.8	29.8	29.8	25.0	25.0	25.0
			SHC	16.3	23.6	30.9	14.4	21.8	29.1	12.4	19.8	27.1	10.2	17.6	25.0	8.0	15.4	22.8
		76	TC	—	45.8	45.8	—	42.0	42.0	—	37.8	37.8	—	33.2	33.2	—	28.3	28.3
			SHC	—	18.1	25.2	—	16.3	23.5	—	14.3	21.5	—	12.2	19.5	—	10.0	17.3
1600 Cfm	EAT (wb)	58	TC	36.2	36.2	41.1	33.2	33.2	37.9	29.9	29.9	34.3	26.3	26.3	30.4	22.5	22.5	26.2
			SHC	31.2	36.2	41.1	28.5	33.2	37.9	25.5	29.9	34.3	22.3	26.3	30.4	18.8	22.5	26.2
		62	TC	36.2	36.2	42.9	33.2	33.2	39.5	29.9	29.9	35.8	26.4	26.4	31.8	22.5	22.5	27.4
			SHC	29.6	36.2	42.9	26.9	33.2	39.5	24.1	29.9	35.8	20.9	26.4	31.8	17.6	22.5	27.4
		67	TC	38.1	38.1	41.7	34.5	34.5	39.6	30.5	30.5	37.4	26.5	26.5	34.4	22.6	22.6	29.9
			SHC	24.9	33.3	41.7	22.9	31.2	39.6	20.7	29.1	37.4	18.2	26.3	34.4	15.2	22.6	29.9
		72	TC	42.7	42.7	42.7	38.9	38.9	38.9	34.8	34.8	34.8	30.3	30.3	30.3	25.4	25.4	25.5
			SHC	17.1	25.5	33.8	15.2	23.6	31.9	13.1	21.5	29.9	11.0	19.3	27.7	8.7	17.1	25.5
		76	TC	—	46.7	46.7	—	42.8	42.8	—	38.5	38.5	—	33.8	33.8	—	28.8	28.8
			SHC	—	19.2	27.3	—	17.3	25.4	—	15.2	23.5	—	13.1	21.4	—	10.9	19.2
1800 Cfm	EAT (wb)	58	TC	37.6	37.6	42.7	34.5	34.5	39.3	31.1	31.1	35.7	27.4	27.4	31.6	23.4	23.4	27.2
			SHC	32.5	37.6	42.7	29.7	34.5	39.3	26.6	31.1	35.7	23.2	27.4	31.6	19.6	23.4	27.2
		62	TC	37.6	37.6	44.5	34.5	34.5	41.0	31.2	31.2	37.2	27.5	27.5	33.0	23.4	23.4	28.5
			SHC	30.8	37.6	44.5	28.1	34.5	41.0	25.1	31.2	37.2	21.9	27.5	33.0	18.4	23.4	28.5
		67	TC	38.7	38.7	45.2	35.1	35.1	43.1	31.2	31.2	40.3	27.5	27.5	35.9	23.5	23.5	31.1
			SHC	26.5	35.9	45.2	24.5	33.8	43.1	22.1	31.2	40.3	19.1	27.5	35.9	15.9	23.5	31.1
		72	TC	43.3	43.3	43.3	39.5	39.5	39.5	35.3	35.3	35.3	30.7	30.7	30.7	25.8	25.8	28.1
			SHC	17.9	27.2	36.5	15.9	25.3	34.6	13.9	23.2	32.6	11.7	21.0	30.4	9.4	18.7	28.1
		76	TC	—	47.3	47.3	—	43.4	43.4	—	39.0	39.0	—	34.3	34.3	—	29.1	29.1
			SHC	—	20.1	29.2	—	18.2	27.3	—	16.1	25.3	—	14.0	23.2	—	11.8	21.0

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 5.

Performance data (cont)

50GCQM06 HIGH STAGE COOLING CAPACITIES

50GCQM06				AMBIENT TEMPERATURE (F)															
				85			95			105			115			125			
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	
1500 Cfm	EAT (wb)	58	TC	54.3	54.3	61.3	51.9	51.9	58.7	49.5	49.5	55.9	46.8	46.8	52.9	43.9	43.9	49.7	
			SHC	47.3	54.3	61.3	45.2	51.9	58.7	43.0	49.5	55.9	40.6	46.8	52.9	38.1	43.9	49.7	
		62	TC	56.6	56.6	59.3	53.7	53.7	57.8	50.5	50.5	56.2	47.2	47.2	54.3	44.0	44.0	51.5	
			SHC	43.2	51.2	59.3	41.7	49.7	57.8	40.1	48.1	56.2	38.3	46.3	54.3	36.1	43.8	51.5	
		67	TC	62.6	62.6	62.6	59.3	59.3	59.3	55.9	55.9	55.9	52.2	52.2	52.2	48.3	48.3	48.3	
			SHC	35.4	43.5	51.5	34.0	42.0	50.0	32.4	40.5	48.5	30.8	38.8	46.9	29.1	37.1	45.2	
		72	TC	68.9	68.9	68.9	65.5	65.5	65.5	61.8	61.8	61.8	57.9	57.9	57.9	53.6	53.6	53.6	
			SHC	27.6	35.5	43.3	26.2	34.1	42.0	24.6	32.5	40.5	23.0	31.0	38.9	21.3	29.3	37.3	
		76	TC	—	74.4	74.4	—	70.8	70.8	—	66.9	66.9	—	62.7	62.7	—	58.1	58.1	
			SHC	—	28.9	37.2	—	27.6	34.7	—	26.1	33.5	—	24.5	32.1	—	22.9	30.6	
1750 Cfm	EAT (wb)	58	TC	57.5	57.5	64.9	55.0	55.0	62.1	52.3	52.3	59.1	49.4	49.4	55.8	46.2	46.2	52.3	
			SHC	50.1	57.5	64.9	47.8	55.0	62.1	45.5	52.3	59.1	42.9	49.4	55.8	40.2	46.2	52.3	
		62	TC	58.5	58.5	65.4	55.4	55.4	63.7	52.5	52.5	61.0	49.4	49.4	58.1	46.3	46.3	54.4	
			SHC	46.8	56.1	65.4	45.2	54.4	63.7	43.1	52.0	61.0	40.8	49.4	58.1	38.2	46.3	54.4	
		67	TC	64.4	64.4	64.4	61.1	61.1	61.1	57.5	57.5	57.5	53.6	53.6	53.6	49.5	49.5	50.0	
			SHC	37.8	47.1	56.4	36.3	45.6	55.0	34.7	44.1	53.4	33.1	42.4	51.8	31.3	40.7	50.0	
		72	TC	70.7	70.7	70.7	67.2	67.2	67.2	63.4	63.4	63.4	59.2	59.2	59.2	54.8	54.8	54.8	
			SHC	28.6	37.6	46.7	27.1	36.3	45.4	25.6	34.8	44.0	24.0	33.2	42.4	22.2	31.5	40.7	
		76	TC	—	76.3	76.3	—	72.5	72.5	—	68.4	68.4	—	64.0	64.0	—	59.3	59.3	
			SHC	—	30.2	38.7	—	28.8	37.5	—	27.3	36.2	—	25.7	34.7	—	24.1	33.1	
2000 Cfm	EAT (wb)	58	TC	60.1	60.1	67.9	57.5	57.5	64.9	54.6	54.6	61.7	51.5	51.5	58.3	48.2	48.2	54.5	
			SHC	52.4	60.1	67.9	50.1	57.5	64.9	47.5	54.6	61.7	44.8	51.5	58.3	41.9	48.2	54.5	
		62	TC	60.6	60.6	69.6	57.5	57.5	67.5	54.7	54.7	64.1	51.6	51.6	60.6	48.3	48.3	56.7	
			SHC	49.5	59.5	69.6	47.6	57.5	67.5	45.2	54.7	64.1	42.6	51.6	60.6	39.8	48.3	56.7	
		67	TC	65.7	65.7	65.7	62.3	62.3	62.3	58.6	58.6	58.6	54.7	54.7	56.5	50.4	50.4	54.7	
			SHC	39.9	50.4	60.9	38.5	49.1	59.6	36.9	47.5	58.1	35.3	45.9	56.5	33.5	44.1	54.7	
		72	TC	72.1	72.1	72.1	68.4	68.4	68.4	64.4	64.4	64.4	60.2	60.2	60.2	55.7	55.7	55.7	
			SHC	29.5	39.7	50.0	28.0	38.3	48.6	26.4	36.8	47.1	24.8	35.2	45.6	23.1	33.5	44.0	
		76	TC	—	77.7	77.7	—	73.8	73.8	—	69.6	69.6	—	65.1	65.1	—	60.2	60.2	
			SHC	—	31.4	41.3	—	30.0	40.0	—	28.4	38.6	—	26.8	37.0	—	25.2	35.4	
2250 Cfm	EAT (wb)	58	TC	62.4	62.4	70.4	59.6	59.6	67.3	56.6	56.6	63.9	53.4	53.4	60.3	49.9	49.9	56.4	
			SHC	54.4	62.4	70.4	51.9	59.6	67.3	49.3	56.6	63.9	46.4	53.4	60.3	43.3	49.9	56.4	
		62	TC	62.5	62.5	73.2	59.7	59.7	69.9	56.7	56.7	66.5	53.4	53.4	62.7	49.9	49.9	58.6	
			SHC	51.8	62.5	73.2	49.4	59.7	69.9	46.9	56.7	66.5	44.1	53.4	62.7	41.2	49.9	58.6	
		67	TC	66.7	66.7	66.7	63.3	63.3	64.2	59.5	59.5	62.6	55.5	55.5	61.0	51.1	51.1	59.2	
			SHC	41.8	53.4	65.0	40.6	52.4	64.2	39.0	50.8	62.6	37.3	49.2	61.0	35.5	47.4	59.2	
		72	TC	73.2	73.2	73.2	69.4	69.4	69.4	65.4	65.4	65.4	61.0	61.0	61.0	56.4	56.4	56.4	
			SHC	30.3	41.7	53.1	28.8	40.3	51.8	27.3	38.8	50.4	25.6	37.2	48.9	23.9	35.6	47.2	
		76	TC	—	78.9	78.9	—	74.8	74.8	—	70.5	70.5	—	65.9	65.9	—	61.0	61.0	
			SHC	—	32.4	43.6	—	31.0	42.2	—	29.5	40.8	—	27.9	39.2	—	26.2	37.6	
2500 Cfm	EAT (wb)	58	TC	64.4	64.4	72.6	61.4	61.4	69.4	58.3	58.3	65.8	54.9	54.9	62.1	51.3	51.3	58.0	
			SHC	56.1	64.4	72.6	53.5	61.4	69.4	50.7	58.3	65.8	47.8	54.9	62.1	44.6	51.3	58.0	
		62	TC	64.4	64.4	75.5	61.5	61.5	72.1	58.4	58.4	68.4	55.0	55.0	64.5	51.3	51.3	60.3	
			SHC	53.4	64.4	75.5	50.9	61.5	72.1	48.3	58.4	68.4	45.4	55.0	64.5	42.4	51.3	60.3	
		67	TC	67.7	67.7	69.7	64.2	64.2	68.5	60.3	60.3	67.0	56.2	56.2	65.4	51.8	51.8	63.4	
			SHC	44.0	56.9	69.7	42.6	55.5	68.5	41.0	54.0	67.0	39.3	52.4	65.4	37.4	50.4	63.4	
		72	TC	74.2	74.2	74.2	70.3	70.3	70.3	66.1	66.1	66.1	61.7	61.7	61.7	57.0	57.0	57.0	
			SHC	31.1	43.7	56.3	29.6	42.3	55.0	28.1	40.8	53.6	26.4	39.2	52.0	24.7	37.5	50.4	
		76	TC	—	79.8	79.8	—	75.7	75.7	—	71.3	71.3	—	66.6	66.6	—	61.6	61.6	
			SHC	—	33.5	45.8	—	32.1	44.4	—	30.5	43.0	—	28.9	41.4	—	27.2	39.8	

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 5.

Performance data (cont)

50GCQM06 LOW STAGE COOLING CAPACITIES

50GCQM06				AMBIENT TEMPERATURE (F)															
				85			95			105			115			125		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
1250 Cfm	EAT (wb)	58	TC	38.8	38.8	44.0	36.3	36.3	41.3	33.7	33.7	38.5	30.9	30.9	35.4	27.8	27.8	32.0
			SHC	33.5	38.8	44.0	31.3	36.3	41.3	28.9	33.7	38.5	26.4	30.9	35.4	23.6	27.8	32.0
		62	TC	39.4	39.4	44.9	36.5	36.5	42.9	33.8	33.8	40.1	30.9	30.9	36.9	27.9	27.9	33.4
			SHC	31.4	38.1	44.9	29.6	36.3	42.9	27.4	33.8	40.1	24.9	30.9	36.9	22.3	27.9	33.4
		67	TC	44.3	44.3	44.3	41.1	41.1	41.1	37.7	37.7	37.7	34.0	34.0	34.0	30.0	30.0	31.6
			SHC	25.4	32.1	38.9	23.7	30.5	37.2	21.9	28.7	35.4	20.1	26.8	33.6	18.1	24.9	31.6
		72	TC	49.4	49.4	49.4	46.2	46.2	46.2	42.6	42.6	42.6	38.7	38.7	38.7	34.5	34.5	34.5
			SHC	19.2	25.8	32.4	17.5	24.2	30.9	15.8	22.5	29.2	14.0	20.7	27.4	12.1	18.8	25.5
		76	TC	—	53.9	53.9	—	50.5	50.5	—	46.7	46.7	—	42.7	42.7	—	38.3	38.3
			SHC	—	20.7	26.9	—	19.1	25.5	—	17.4	23.9	—	15.6	22.2	—	13.8	20.4
1500 Cfm	EAT (wb)	58	TC	41.7	41.7	47.3	39.1	39.1	44.4	36.3	36.3	41.4	33.3	33.3	38.0	30.0	30.0	34.4
			SHC	36.1	41.7	47.3	33.8	39.1	44.4	31.2	36.3	41.4	28.5	33.3	38.0	25.6	30.0	34.4
		62	TC	41.8	41.8	49.3	39.2	39.2	46.3	36.3	36.3	43.1	33.3	33.3	39.7	30.0	30.0	35.9
			SHC	34.3	41.8	49.3	32.0	39.2	46.3	29.6	36.3	43.1	26.9	33.3	39.7	24.1	30.0	35.9
		67	TC	45.9	45.9	45.9	42.5	42.5	42.5	39.0	39.0	40.4	35.1	35.1	38.5	31.0	31.0	36.5
			SHC	27.9	35.9	43.9	26.1	34.2	42.2	24.3	32.4	40.4	22.4	30.5	38.5	20.4	28.5	36.5
		72	TC	51.0	51.0	51.0	47.5	47.5	47.5	43.8	43.8	43.8	39.8	39.8	39.8	35.5	35.5	35.5
			SHC	20.2	28.1	35.9	18.6	26.5	34.4	16.8	24.8	32.7	15.0	23.0	31.0	13.0	21.1	29.1
		76	TC	—	55.4	55.4	—	51.8	51.8	—	47.9	47.9	—	43.7	43.7	—	39.2	39.2
			SHC	—	21.9	29.5	—	20.3	28.0	—	18.6	26.3	—	16.8	24.6	—	15.0	22.8
1750 Cfm	EAT (wb)	58	TC	44.1	44.1	50.0	41.4	41.4	47.0	38.4	38.4	43.7	35.2	35.2	40.2	31.7	31.7	36.3
			SHC	38.2	44.1	50.0	35.8	41.4	47.0	33.1	38.4	43.7	30.2	35.2	40.2	27.1	31.7	36.3
		62	TC	44.2	44.2	52.0	41.4	41.4	48.9	38.4	38.4	45.5	35.2	35.2	41.9	31.8	31.8	37.9
			SHC	36.3	44.2	52.0	33.9	41.4	48.9	31.3	38.4	45.5	28.6	35.2	41.9	25.6	31.8	37.9
		67	TC	47.0	47.0	48.8	43.6	43.6	47.1	39.9	39.9	45.2	36.0	36.0	43.2	31.9	31.9	40.9
			SHC	30.2	39.5	48.8	28.4	37.7	47.1	26.6	35.9	45.2	24.6	33.9	43.2	22.5	31.7	40.9
		72	TC	52.1	52.1	52.1	48.5	48.5	48.5	44.7	44.7	44.7	40.6	40.6	40.6	36.2	36.2	36.2
			SHC	21.2	30.2	39.2	19.5	28.6	37.7	17.7	26.9	36.0	15.9	25.1	34.3	13.9	23.2	32.5
		76	TC	—	56.6	56.6	—	52.8	52.8	—	48.8	48.8	—	44.5	44.5	—	39.9	39.9
			SHC	—	23.1	31.9	—	21.5	30.3	—	19.7	28.7	—	17.9	26.9	—	16.0	25.1
2000 Cfm	EAT (wb)	58	TC	46.1	46.1	52.2	43.2	43.2	49.0	40.1	40.1	45.6	36.7	36.7	41.9	33.1	33.1	37.9
			SHC	40.0	46.1	52.2	37.4	43.2	49.0	34.6	40.1	45.6	31.6	36.7	41.9	28.3	33.1	37.9
		62	TC	46.1	46.1	54.2	43.3	43.3	51.0	40.1	40.1	47.5	36.8	36.8	43.7	33.2	33.2	39.6
			SHC	38.0	46.1	54.2	35.5	43.3	51.0	32.8	40.1	47.5	29.9	36.8	43.7	26.8	33.2	39.6
		67	TC	47.9	47.9	53.5	44.4	44.4	51.7	40.7	40.7	49.7	36.8	36.8	47.2	32.4	32.4	42.7
			SHC	32.3	42.9	53.5	30.5	41.1	51.7	28.7	39.2	49.7	26.5	36.8	47.2	22.1	32.4	42.7
		72	TC	53.0	53.0	53.0	49.3	49.3	49.3	45.4	45.4	45.4	41.2	41.2	41.2	36.7	36.7	36.7
			SHC	22.1	32.3	42.5	20.3	30.6	40.9	18.6	28.9	39.3	16.7	27.1	37.6	14.8	25.3	35.7
		76	TC	—	57.4	57.4	—	53.6	53.6	—	49.5	49.5	—	45.1	45.1	—	40.4	40.4
			SHC	—	24.2	34.1	—	22.5	32.5	—	20.8	30.8	—	19.0	29.1	—	17.1	27.3
2250 Cfm	EAT (wb)	58	TC	47.8	47.8	54.0	44.8	44.8	50.7	41.5	41.5	47.2	38.1	38.1	43.4	34.3	34.3	39.2
			SHC	41.5	47.8	54.0	38.8	44.8	50.7	35.9	41.5	47.2	32.7	38.1	43.4	29.4	34.3	39.2
		62	TC	47.8	47.8	56.2	44.8	44.8	52.8	41.6	41.6	49.1	38.1	38.1	45.2	34.3	34.3	40.9
			SHC	39.4	47.8	56.2	36.8	44.8	52.8	34.0	41.6	49.1	31.0	38.1	45.2	27.8	34.3	40.9
		67	TC	48.7	48.7	57.9	45.2	45.2	56.0	41.7	41.7	52.9	37.6	37.6	48.8	34.4	34.4	44.2
			SHC	34.4	46.1	57.9	32.5	44.3	56.0	30.2	41.6	52.9	26.4	37.6	48.8	24.5	34.4	44.2
		72	TC	53.7	53.7	53.7	50.0	50.0	50.0	46.0	46.0	46.0	41.7	41.7	41.7	37.1	37.1	38.9
			SHC	22.9	34.2	45.6	21.2	32.6	44.1	19.4	30.9	42.5	17.5	29.1	40.7	15.6	27.2	38.9
		76	TC	—	58.1	58.1	—	54.2	54.2	—	50.0	50.0	—	45.6	45.6	—	40.8	40.8
			SHC	—	25.2	36.1	—	23.5	34.6	—	21.8	33.0	—	20.0	31.3	—	18.1	29.5

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 5.

Performance data (cont)

50GCQM04 HEATING CAPACITIES

50GCQM04 (3 Tons)										
Return Air (°F db)	CFM (Standard Air)		Temperature Air Entering Outdoor Coil (°F db at 70% rh)							
			–10	0	10	17	30	40	47	50	60
55	900	Capacity	9.6	13.1	16.9	19.8	25.8	31.0	35.4	36.7	42.5
		Int. Cap.	8.9	12.0	15.5	18.0	22.6	31.0	35.4	36.7	42.5
	1200	Capacity	10.0	13.6	17.6	20.5	26.7	32.6	36.7	38.0	43.9
		Int. Cap.	9.2	12.5	16.1	18.7	23.4	32.6	36.7	38.0	43.9
	1500	Capacity	10.7	14.4	18.4	21.5	27.9	33.7	37.8	39.1	44.8
		Int. Cap.	9.9	13.2	16.9	19.6	24.5	33.7	37.8	39.1	44.8
70	900	Capacity	7.3	10.8	14.6	17.5	23.3	28.3	32.4	34.0	40.1
		Int. Cap.	6.7	9.9	13.4	16.0	20.4	28.3	32.4	34.0	40.1
	1200	Capacity	7.7	11.3	15.3	18.3	24.4	29.6	34.3	35.7	41.6
		Int. Cap.	7.1	10.4	14.1	16.7	21.4	29.6	34.3	35.7	41.6
	1500	Capacity	8.4	12.2	16.3	19.3	25.6	31.1	35.7	37.1	42.8
		Int. Cap.	7.8	11.2	14.9	17.6	22.4	31.1	35.7	37.1	42.8
80	900	Capacity	5.4	9.0	12.9	15.8	21.6	26.5	30.3	31.8	38.2
		Int. Cap.	5.0	8.3	11.9	14.4	19.0	26.5	30.3	31.8	38.2
	1200	Capacity	5.8	9.6	13.6	16.6	22.7	27.8	32.1	33.7	40.0
		Int. Cap.	5.4	8.8	12.5	15.2	19.8	27.8	32.1	33.7	40.0
	1500	Capacity	6.6	10.4	14.5	17.6	23.8	29.1	33.7	35.4	41.3
		Int. Cap.	6.1	9.6	13.3	16.1	20.9	29.1	33.7	35.4	41.3

LEGEND

— Indicates operation not permissible

Capacity — Instantaneous Capacity (1000 Btuh) - includes indoor fan motor heat at AHRI static conditions

Int. Cap. — Integrated Capacity = instantaneous capacity minus the effects of frost on the OD coil and the heat required to defrost it

rh — Relative Humidity

db — Dry Bulb

Performance data (cont)

50GCQM05 HEATING CAPACITIES

50GCQM05 (4 Tons)										
Return Air (°F db)	CFM (Standard Air)		Temperature Air Entering Outdoor Coil (°F db at 70% rh)							
			–10	0	10	17	30	40	47	50	60
55	1200	Capacity	12.8	18.0	23.3	27.2	34.8	41.4	47.1	48.8	56.0
		Int. Cap.	11.8	16.6	21.4	24.8	30.5	41.4	47.1	48.8	56.0
	1600	Capacity	12.9	18.3	23.8	27.9	35.6	43.1	48.2	49.9	56.9
		Int. Cap.	12.0	16.9	21.8	25.4	31.2	43.1	48.2	49.9	56.9
	2000	Capacity	13.8	19.3	24.8	29.2	37.0	44.4	49.3	50.9	57.5
		Int. Cap.	12.8	17.8	22.8	26.6	32.4	44.4	49.3	50.9	57.5
70	1200	Capacity	10.4	15.7	20.9	24.7	32.3	38.4	43.5	45.5	53.5
		Int. Cap.	9.6	14.4	19.2	22.5	28.3	38.4	43.5	45.5	53.5
	1600	Capacity	10.7	16.1	21.5	25.4	33.5	39.5	45.6	47.5	54.7
		Int. Cap.	9.9	14.8	19.8	23.1	29.3	39.5	45.6	47.5	54.7
	2000	Capacity	11.6	17.2	22.7	26.6	34.7	41.3	47.2	48.9	55.7
		Int. Cap.	10.7	15.8	20.8	24.2	30.4	41.3	47.2	48.9	55.7
80	1200	Capacity	8.4	13.8	19.1	22.8	30.3	36.9	41.3	43.1	51.3
		Int. Cap.	7.8	12.7	17.5	20.8	26.6	36.9	41.3	43.1	51.3
	1600	Capacity	8.7	14.2	19.7	23.6	31.4	37.9	42.9	45.0	53.0
		Int. Cap.	8.0	13.1	18.1	21.5	27.5	37.9	42.9	45.0	53.0
	2000	Capacity	9.6	15.3	20.9	24.8	32.9	39.3	44.9	46.9	54.2
		Int. Cap.	8.9	14.1	19.2	22.6	28.8	39.3	44.9	46.9	54.2

LEGEND

Capacity — Instantaneous Capacity (1000 Btuh) - includes indoor fan motor heat at AHRI static conditions

Int. Cap. — Integrated Capacity = instantaneous capacity minus the effects of frost on the OD coil and the heat required to defrost it

rh — Relative Humidity

db — Dry Bulb

Performance data (cont)

50GCQM06 HEATING CAPACITIES

50GCQM05 (5 Tons)										
Return Air (°F db)	CFM (Standard Air)		Temperature Air Entering Outdoor Coil (°F db at 70% rh)							
			–10	0	10	17	30	40	47	50	60
55	1500	Capacity	14.5	20.5	27.0	31.8	42.0	49.9	56.5	58.6	67.1
		Int. Cap.	13.4	18.9	24.8	29.0	36.8	49.9	56.5	58.6	67.1
	2000	Capacity	16.2	22.4	29.0	34.0	44.2	52.6	58.9	60.8	68.4
		Int. Cap.	14.9	20.6	26.6	31.0	38.8	52.6	58.9	60.8	68.4
	2500	Capacity	17.2	23.5	30.2	35.4	45.6	53.7	59.2	60.8	67.3
		Int. Cap.	15.9	21.6	27.7	32.3	40.0	53.7	59.2	60.8	67.3
70	1500	Capacity	11.2	17.4	23.8	28.6	38.6	46.9	53.3	55.3	63.9
		Int. Cap.	10.4	16.0	21.9	26.1	33.9	46.9	53.3	55.3	63.9
	2000	Capacity	12.9	19.2	25.9	30.8	41.5	49.4	55.9	57.8	65.9
		Int. Cap.	11.9	17.7	23.7	28.1	36.4	49.4	55.9	57.8	65.9
	2500	Capacity	13.9	20.4	27.1	32.1	42.9	51.0	57.0	58.8	65.8
		Int. Cap.	12.9	18.7	24.9	29.3	37.6	51.0	57.0	58.8	65.8
80	1500	Capacity	8.8	15.0	21.6	26.3	35.9	44.7	50.9	53.2	61.7
		Int. Cap.	8.1	13.8	19.8	24.0	31.5	44.7	50.9	53.2	61.7
	2000	Capacity	10.5	16.9	23.6	28.5	38.6	47.4	53.7	55.9	63.9
		Int. Cap.	9.7	15.5	21.7	26.0	33.8	47.4	53.7	55.9	63.9
	2500	Capacity	11.5	18.0	24.8	29.9	40.4	49.0	55.1	56.9	64.2
		Int. Cap.	10.6	16.6	22.8	27.2	35.4	49.0	55.1	56.9	64.2

LEGEND

— Indicates operation not permissible

Capacity — Instantaneous Capacity (1000 Btuh) - includes indoor fan motor heat at AHRI static conditions

Int. Cap. — Integrated Capacity = instantaneous capacity minus the effects of frost on the OD coil and the heat required to defrost it

rh — Relative Humidity

db — Dry Bulb