

Foundation Gas/Electric Rooftop

Unit Overview - GCC102A4EHA**07M0000000000000000000000000000000000											
Application	Application Unit Size Supply Fan External Dimensions (in.) Operating Weight						g Weight	EER	IEER/SEER	Elevation	
Gas/Electric _{ir}	8.5 Ton - confirm inventory/m aximum 2	Airflow	External Static Pressure	Height	Width	Length	Minimum	Maximum	11.20	14.80	
		3400 cfm	0.500 in H2O	4.09 ft	4.96 ft	7.35 ft	1115.0 lb	1483.0 lb			

Unit Features

SupplyFan/Drive/ MotorType Two speed fan standard motor

Unit Electrical	
Voltage/phase/hertz	460/60/3
MCA	20.00 A
MOP	25.00 A



Controls

Unit Controls Electro-mechanical

Cooling Section						
Entering Dry Bulb 80.00 F	Capacity					
Entering Wet Bulb 67.00 F	Gross Total 109.10 MBh					
Ambient Temp 95.00 F	Gross Sensible 84.30 MBh					
Leaving Coil Dry Bulb 57.04 F	Net Total 103.46 MBh					
Leaving Coil Wet Bulb 56.59 F	Net Sensible 78.66 MBh					
Leaving Unit Dry Bulb 58.97 F	Fan Motor Heat 5.64 MBh					
Leaving Unit Wet Bulb 57.34 F	Refrig Charge-circuit 1 4.8 lb					

Heating Section

Output Heating Capacity	182.00 MBh
Output Heating Capacity with Fan	182.00 MBh
Heating EAT	70.00 F
Heating LAT	119.34 F
Heating Temp Rise	49.34 F

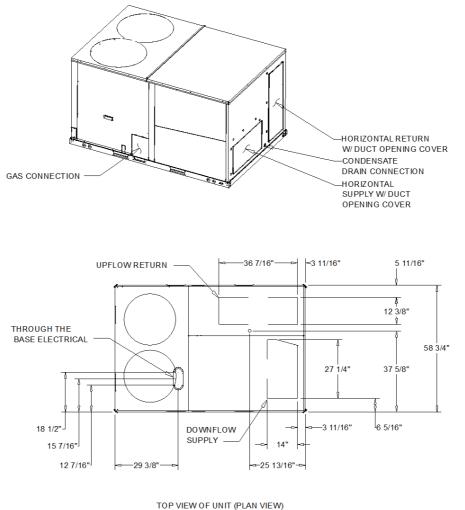
Fan Section					
Indoor F	Fan Data	Outdoor Fan Data			
Туре	FC Centrifugal	Туре	Propeller		
Drive Type	Belt	Fan Quantity	2		
Indoor Fan I	Performance	Drive Type	Direct		
Airflow	3400 cfm	Outdoor Fan	Performance		
Design ESP	0.500 in H2O	Outdoor Motor Power	0.65 kW		
Component SP	0.000 in H2O	Condenser Fan FLA	0.87 A		
Total SP	0.500 in H2O	Exhaust	Fan Data		
Indoor Motor Operating Power	1.88 bhp	Туре	FC Centrifugal		
Indoor Motor Power	1.40 kW	Drive Type	Direct		
Indoor RPM	821 rpm	Exhaust Fan	Performance		
		Exhaust Fan FLA	3.50 A		

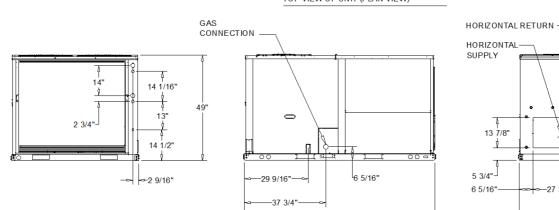
Compressor Section					
Power	7.54 kW				
Circuit 1 RLA	6.50 A				
Circuit 2 RLA	6.00 A				

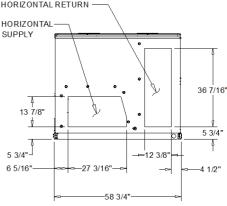


Job Name: GCC Stock Prepared For: Unit Tag: AMSGCC102A4EH Quantity: 1

> NOTES: 1. VERIFY WEIGHT, CONNECTIONS, AND ALL DIMENSIONS WITH INSTALLER DOCUMENTS BEFORE INSTALLATION







10 TON PACKAGED GAS / ELECTRIC UNIT

-88 1/4"-

DIMENSION DRAWING



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Base Unit and Corner Weights only

Base unit weights		Corner Weights				Center of Gravity	
SHIPPING	NET	A	В	C	D	E	F
		280.0 lb	132"	397.0 lb	306.0 lb	46 3/8"	21 11/16"

1. All weights are approximate.

2. The actual weight are listed on the unit nameplate.

3. Refer to unit nameplate and installation guide for weights before scheduling transportation

and installation of unit. 4. The weight shown represents the typical unit operating weight for the configuration selected. Estimated at +/- 10 % of the nameplate weight.

5. Verify weight, connection, and all dimension with installer documents before installation.

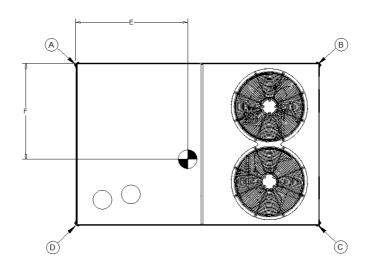
Comer weights are given for information only.
Net/Shipping weight of optional accessories should be added to unit weight when ordering factory or field installed accessories.

Installed Options Net Weight Data

Accessory	Weight
Economizer, Manual and Motorized Outside Air Damper	
Barometric Relief	
Power Exhaust	
Roof Curb	
Oversized Motor	
Disconnect	
Hail Guard	
Through the Base	
Through the Gas	

1. Weights for options are approximate.

2. Weights for options that are not list refer to Installation guide.

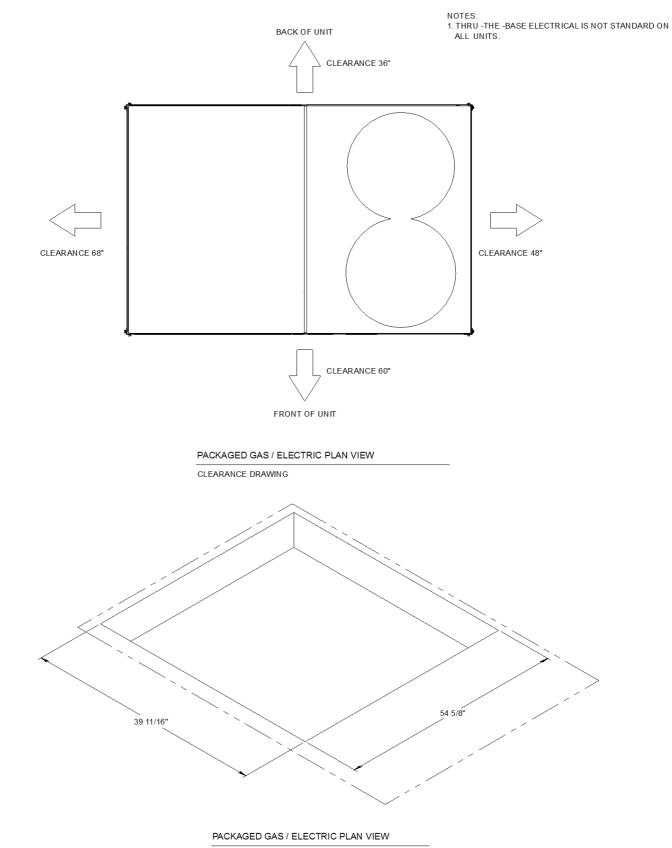


PACKAGED GAS/ELECTRIC PLAN VIEW

CENTER OF GRAVITY DRAWING



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DOWNFLOW CLEARANCE DRAWING



General

-Packaged rooftop units cooling, heating capacities, and efficiencies are AHRI Certified within scope of AHRI Standard (I-P) and ANSIZ21.47 and 10 CFR Part 431 pertaining to Commercial Warm Air Furnaces

-Packaged rooftop units are dedicated downflow or horizontal airflow

-Operating range between 125°F and 40°F in cooling standard from the factory

-Factory assembled, internally wired, fully charged with R-410A, and 100 percent run tested to check cooling operation, fan and blower rotation, and control sequence before leaving the factory

-Colored and numbered wring internal to the unit for simplified identification

-Units cULus listed and labeled, classified in accordance

Casing

-Zinc coated, heavy gauge, galvanized steel

-Weather-resistant baked enamel finish on phosphatized exterior surfaces

-Meets ASTM B117, 672 hour salt spray test

-Removable single side maintenance access panels

-Lifting handles in maintenance access panels (can be removed and reinstalled by removing no more than 11 fasteners while providing a water and air tight seal)

-Exposed vertical panels and top covers in the indoor air section shall be insulated with a 1/2-inch, 1pound density foil-faced, fire-resistant, permanent, odorless, glass fiber material

-Base of unit shall be insulated with 1/2-inch, 1-pound density, foil-faced, glass fiber material -Base pan shall have no penetrations within the perimeter of the curb other than the raised 1 1/8-inch high downflow supply/return openings to provide an added water integrity precaution, if the condensate drain backs up

-Downflow unit?s base pan shall have no penetrations within the perimeter of the curb other than the raised 1 1/8-inch high supply/return openings to provide an added water integrity precaution, if the condensate drain backs up

-Base of unit shall have provisions for forklift and crane lifting

Compressors

-All units have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps -Suction gas-cooled motor with voltage utilization range of plus or minus 10 percent of unit nameplate voltage

-Internal overloads standard with scroll compressors

-All models have phase monitors and Low and High Pressure Controls as standard

Discharge Line Thermostat

-A bi-metal element discharge line thermostat is installed as a standard option on the discharge line of each system

-Provides extra protection to the compressors against high discharge temperatures in case of loss of charge, extremely high ambient and other conditions which could drive the discharge temperature higher

-Wired in series with high pressure control

-When discharge temperature rises above the protection limit, the bi-metal disc in the thermostat switches to the off position, opening the 24 Vac circuit

-When temperature on the discharge line cools down, the bi-metal disc closes the contactor circuit, providing power to the compressor

Evaporator and Condenser Coils

-Microchannel coils burst tested by manufacturer

-Microchannel evaporator and condenser coils standard on all units

- -Coils leak tested to ensure the pressure integrity
- -Evaporator coil and condenser coil leak tested to 225 psig and pressure tested to 450 psig

-Sloped condensate drain pans are standard

Filters

Two inch standard filters shall be factory supplied on all units.



Gas Heat Section

-Progressive tubular heat exchanger, stainless steel burners and corrosion resistant steel

-Induced draft combustion blower shall be used to pull the combustion products through the firing tubes

-Heater shall use a direct spark ignition (DSI) system

-On initial call for heat, the combustion blower shall purge the heat exchanger for 20 seconds before ignition

-After three unsuccessful ignition attempts, entire heating system shall be locked out until manually reset at the thermostat/zone sensor

-Units shall be suitable for use with natural gas or propane (field-installed kit)

Indoor Fan

-Belt driven, FC centrifugal fans with adjustable motor sheaves

-Motors thermally protected

-Oversized motors available for high static application

-Indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT)

Locking Safety Device

-Pressure switch monitoring allows for lockout in a situation where the switch is opened -By monitoring the Y input as well as the pressure switches, advanced decision making can be made to identify situations where faults/errors occur

Outdoor Fans

-Outdoor fan shall be direct-drive, statically and dynamically balanced, draw-through in the vertical discharge position

-Fan motor(s) shall be permanently lubricated and shall have built-in thermal overload protection

Phase Monitor

-3-phase line monitor module

- -Protects against phase loss, phase imbalance and phase reversal indication
- -Intended to protect compressors from reverse rotation
- -Operating input voltage range of 180-632 Vac
- -LED indicators for ON and FAULT

-No field adjustments

-Module will automatically reset from a fault condition

Refrigerant Circuits

-Each refrigerant circuit shall have thermostatic expansion valves, service pressure ports, and refrigerant line filter driers factory installed as standard -An area shall be provided for replacement suction line driers

Refrigerant Pressure Control

All units include High and Low Pressure Cutouts as standard.

Unit Top

The top cover shall be double hemmed and gasket sealed to prevent water leakage.

Multi-Speed Indoor Fan System

-Incorporates a multi-speed fan control to change the speed of the fan to 70% of full airflow based off of compressor stages

Stainless Steel Heat Exchanger

-Gas heat exchanger shall be of tubular heat exchanger design

- -Constructed from a minimum 304 grade stainless steel tubes and 439 stainless steel burners
- -Shall have a 10-year warranty as standard (Gas/Electric only)

Filters

Two inch standard filters shall be factory supplied on all units.