

Foundation Gas/Electric Rooftop

Unit Ove	erview - G	BC036A3	EMB**000	00000000	00000000	00000000					
Application	Unit Size	Supp	ly Fan	Extern	al Dimensio	ns (in.)	Operatin	g Weight	EER	IEER/SEER	Elevation
Gas/Electric	3 Ton	Airflow	External Static Pressure	Height	Width	Length	Minimum	Maximum	12.0 EER	14.00	
		1200 cfm	0.500 in H2O	3.55 ft	3.99 ft	6.40 ft	524.0 lb	723.0 lb			

Unit Features

Unit Electrical	
Voltage/phase/hertz	208-230/60/3
MCA	20.00 A
MOP	25 00 A



Controls

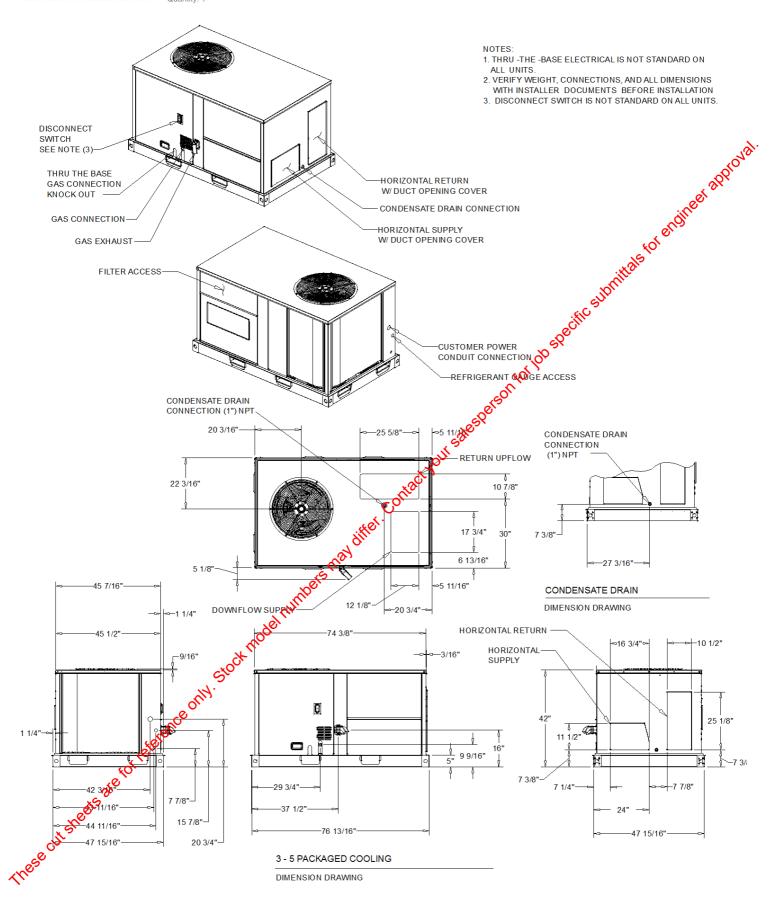
Unit Controls Electro-mechanical

Cooling Section	_E O ^N
Entering Dry Bulb 80.00 F	Capacity
Entering Wet Bulb 67.00 F	Gross Total 37.11 MBh
Ambient Temp 95.00 F	Gross Sensible 28.13 MBh
Leaving Coil Dry Bulb 57.83 F	Net Total 35.12 MBh
Leaving Coil Wet Bulb 56.99 F	Net Sensible 26.15 MBh
Leaving Unit Dry Bulb 59.93 F	Refrig Charge-circuit 1 3.5 lb
Leaving Unit Wet Bulb 57.79 F	com

Heating Section

Output Heating Capacity 80.00 MBh Output Heating Capacity with Fan 80.00 MBh Heating EAT 70.00 F Heating Temp Rise 61.44 F Heating LAT 131.44 F

Fan Section	
Indoor Fan Data	Outdoor Fan Data
Type FC Centrifugal	Type Propeller
Drive Type Bei?	Fan Quantity 1
Indoor Fancerformance	Drive Type Direct
Airflow 1200 cfm	Outdoor Fan Performance
Design ESP 0.500 in H2O	Condenser Fan FLA 1.40 A
Component SP 0.000 in H2O	Exhaust Fan Data
CONTROLL SP 0.500 in H2O	Type FC Centrifugal
Indoor Motor Operating Power 0.38 bhp	Drive Type Direct
Ingeor Motor Power 0.28 kW	Exhaust Fan Performance
Indoor RPM 779 rpm	Exhaust Fan FLA 5.00 A
e [©]	
Compressor Section	
Circuit 1 RLA 10.40 A Circuit 2 RLA 0.00 A	
Circuit 2 RLA 0.00 A	



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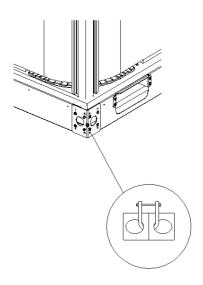


ELECTRICAL / GENERAL DATA

Medium	GENERAL (2)(4)(6)(7)(10)			HEATING PERFORMANC	``
Unit Operating Voltage: Unit Secondary Voltage: Unit S		GRC026	Oversized Motor		
Unit Secondary Voltage	Unit Operating Voltage:	-			
Unit Pictary 101 Metro: 102 MCB. 103 MCB. 104 Heating Output (BTU): 105 Blomes: 105 Slanders 105 Slanders 106 MCB. 107 MCB. 107 MCB. 108 MCB. 109 MCB. 109 MCB. 100 MCB. 10					
District 1			MCB:		80000/64000
Standard Motor Oversized Motor Field Installed Oversized Motor Field Installed Oversized Motor Number: 1					3
Standard Motor Oversized Motor Field Installed Oversized Motor Field Installed Oversized Motor Number: 1	FFR:	12 / 14			-
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3. Value does not include Power Exhaust Accessory					
4. Value does not include Heater.			sory. 😿		
5. Value include Standard Motor	 Value does not include Heater Value include Standard Motor 				

- Value oces not include related.
 Value include Standard Motor.
 Value include Oversized Motor
 EER is rated at AHRI conditions and in accordance with DOE test procedures.
 For Compressor Motors and Condense of Motors: Amp draw for each motor; multiply value by number of motors to determine total amps.
- 9. HP for each compressor.
- These cut sheets are for reference He for each compressor.
 Integrated Energy Efficiency Raio (IEER) is rated in accordance with AHRI standard 210/240 or 360.
 Full Load Amps (FLA) are the combined amps for outdoor motors.

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PACKAGED COOLING PLAN VIEW

RIGGING DRAWING

Base Unit and Corner Weights only

Base unit	weights		Corner	Weights		Center	of Gravity
SHIPPING	NET	A	В	C	D	Е	F
574.0 lb	524.0 lb	95.0 lb	111.0 lb	172.0 lb	146.0 lb	42"	29"

- 1. All weights are approximate.
- 2. The actual weight are listed on the unit nameplate.

e weight shown represents the typical unit operating weight for the configure lected. Estimated at +/- 10 % of the nameplate weight.	ation
erify weight, connection, and all dimension with installer documents before in	ıstallation. 🟒 🕜
omer weights are given for information only.	60°
he actual weight are listed on the unit nameplate. efer to unit nameplate and installation guide for weights before scheduling tra nd installation of unit. he weight shown represents the typical unit operating weight for the configure elected. Estimated at +/- 10 % of the nameplate weight erify weight, connection, and all dimension with installer documents before in omer weights are given for information only, et/Shipping weight of optional accessories should be added to unit weight wh actory or field installed accessories. **Stalled Options Net Weight Data** **Accessorial**	en ordering (d. Weight
	Weight
	·
	•
Economizer, Manual and Motorized Outside Air Damper	
Economizer, Manual and Motorized Outside Air Damper Barometric Relief	
Economizer, Manual and Motorized Outside Air Damper Barometric Relief Power Exhaust	
Economizer, Manual and Motorized Outside Air Damper Barometric Relief Power Exhaust Roof Curb	
Economizer, Manual and Motorized Outside Air Damper Barometric Relief Power Exhaust Roof Curb Oversized Motor	
Economizer, Manual and Motorized Outside Air Damper Barometric Relief Power Exhaust Roof Curb Oversized Motor Disconnect	
Economizer, Manual and Motorized Outside Air Damper Barometric Relief Power Exhaust Roof Curb Disconnect Hail Guard	

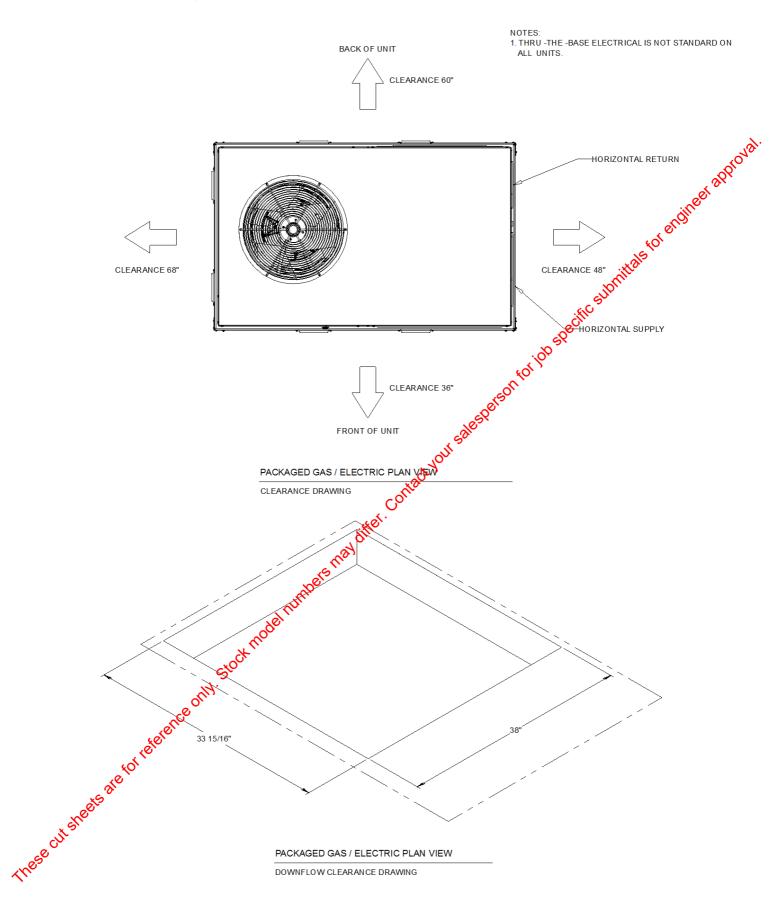
- Weights for options that are not list refer to Installation guide.

— Fray lifter. Contact. (c) These cut sheets are for reference only. Stor A

PACKAGED GAS/ELECTRIC PLAN VIEW

CENTER OF GRAVITY DRAWING

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3 thru 5 Ton General

The units shall be convertible from downflow or horizontal airflow. The operating range shall be between 125.0 F and 40.0 F in cooling as standard from the factory for all units. Cooling performance shall be rated in accordance with ARI testing procedures. All units shall be 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. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be UL listed and labeled, classified in accordance to UL 1995/C 22.2, 236-05 5rd Edition.

3 thru 5 Ton Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 672 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. In order to ensure a water and air tight seal, service panels shall have lifting handles and no more than four screws to remove. All exposed vertical panels and top covers in the indoor air section shall be insulated with a 1/2", 1.0 lb density foil-faced, fire-resistant, permanent,dorless, glass fiber material. The base of the downflow unit shall be insulated with 1/2", 1.0 lb density foil-faced, closed-cell material. The downflow unit shall have no penetrations within the perimeter of the curb other than the raised 1 1/8" high supply/return openings to provide an added water integrity precaution, if the condensate drain backs up. The base of the unit shall have provisions for forklift and crane lifting.

3 thru 5 Ton Compressors

All units shall have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of nameplate voltage. Internal overloads shall be provided with the scroll compressors. All models shall have phase monitors and low and high pressure control as standard.

3 thru 5 Ton Controls

Unit shall be completely factory wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Unit shall provide an external location for mounting a fused disconnect device.

3 thru 5 Ton Discharge Line Thermostat

A bi-metal element discharge line thermostates installed as a standard option on the discharge line of each system. This standard option 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. Discharge line thermostat is wired in series with high pressure control. When the 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 the temperature on the discharge line cools down, the bi-metal disc closes the contactor circuit, providing power to the compressor.

3 thru 5 Ton Evaporator and Condenser Coils

Microchannel coils will be burst tested by the manufacturer. Microchannel condenser coils shall be standard on all units. Coils shall be leak tested to ensure the pressure integrity. The evaporator coil and condenser coil shall be leak tested to 225 psig and pressure tested to 450 psig. Sloped condensate drain pans are standard.

3 thru 5 Ton Filters

Two inchestandard filters shall be factory supplied on all units.

3 thru 5 Ton Gas Heating Section

The heating section shall have a tubular heat exchanger design. An induced draft combustion blower shall be used to pull the combustion products through the firing tubes. The 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, the entire heating system shall be locked out until manually reset at the thermostat. Units shall be suitable for use with natural gas or propane (field-installed kit) and also comply with the California requirement for low NOx emissions (Gas Heat Only).

3 thru 5 Ton High Pressure Control

All units include High Pressure Cutout as standard.

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3 thru 5 Ton Indoor Fan

Units above shall have belt driven, FC centrifugal fans with adjustable motor sheaves. All motors shall be thermally protected. Oversized motors shall be available for high static application. All indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

3 thru 5 Ton Low Pressure Control

All units include low pressure cutout as standard.

3 thru 5 Ton Outdoor Fans

The outdoor fan shall be direct-drive, statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor(s) shall be permanently lubricated and shall have built in thermal overload protection.

3 thru 5 Ton Phase Monitor

The Phase Monitor is a three-phase line monitor module that protects against phase loss, phase reversal and phase unbalance. It is intended to protect compressors from reverse rotation. It has an operating input voltage range of 190-600 Vac, and LED indicators for ON and FAUM. There are no field adjustments and the module will automatically reset from a fault condition.

3 thru 5 Ton Refrigerant Circuits

Each refrigerant circuit shall have independent thermal expansion valve, service pressure ports, and refrigerant line filter driers factory installed as standard. An area shall be provided for replacement suction line driers.

3 thru 5 Ton Unit Top

These cut sheets are for reference only. The top cover shall be double hemmed and gasket sealed to prevent water leakage.

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