

Foundation Gas/Electric Rooftop

Unit Overview - GBC240A3EMB**00000000000000000000000000000000000											
Application	Unit Size	Supply Fan		External Dimensions (in.)		Operating Weight		EER	IEER/SEER	Elevation	
Gas/Electric 2	20 Ton	Airflow	External Static Pressure	Height	Width	Length	Minimum	Maximum	10.0 EER	11.60	
		8000 cfm	0.500 in H2O	4.94 ft	7.24 ft	10.26 ft	2024.0 lb	2438.0 lb			64

Unit Features

Unit Electrical				
Voltage/phase/hertz	208-230/60/3			
MCA	101.00 A			
MOP	125.00 A			



Controls

Unit Controls Electro-mechanical

		. 0.5		
Cooling Section		. sales		
Entering Dry Bulb	80.00 F	Capa	acity	
Entering Wet Bulb	67.00 F	Gross Total	257.71 MBh	
Ambient Temp	95.00 F	Gross Sensible	186.58 MBh	
Leaving Coil Dry Bulb	58.49 F	Net Total	245.00 MBh	
Leaving Coil Wet Bulb	56.77 F	Net Sensible	173.86 MBh	
Leaving Unit Dry Bulb	60.32 F	Refrig Charge-circuit 1	13.5 lb	
Leaving Unit Wet Bulb	57.49 F	Refrig Charge-circuit 2	7.0 lb	

Heating Section

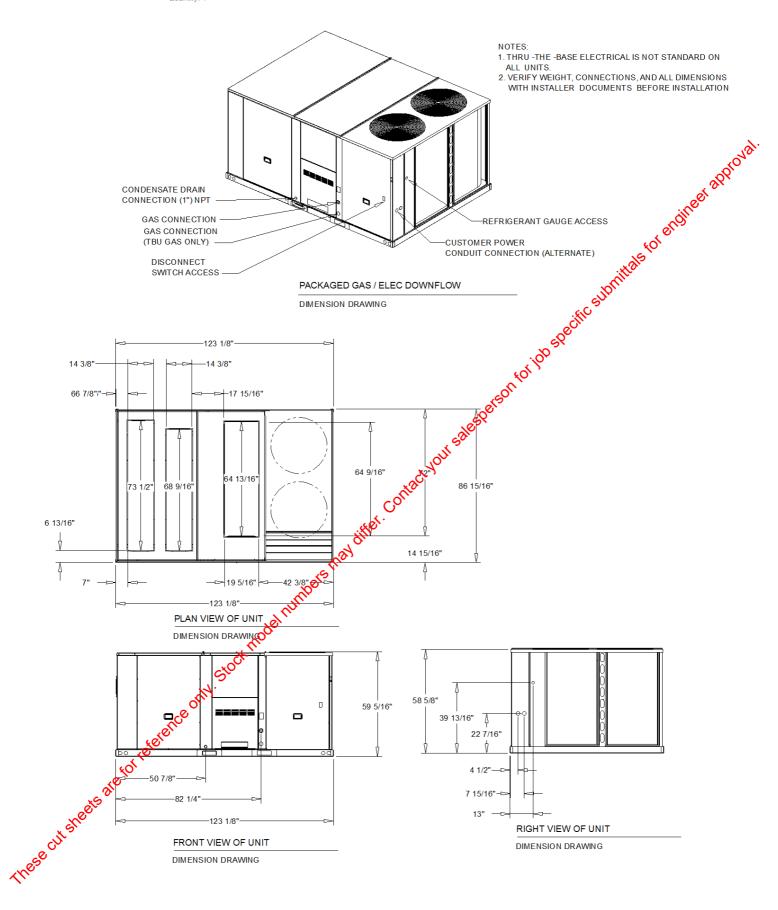
Output Heating Capacity 256.00 MBh
Output Heating Capacity with Fan 256.00 MBh
Heating EAT 70.00 F
Heating LAT 99.49 F
Heating Temp Rise 29.49 F

Fan Section	S		
Indoor Ran	Data	Outdoor	Fan Data
Type FC	C Centrifugal	Туре	Propeller
Drive Type Be	elt	Fan Quantity	2
Indoor Fan Peri	formance	Drive Type	Direct
Airflow 800		Outdoor Fan	Performance
Obesign ESP 0.5	500 in H2O	Condenser Fan FLA	9.60 A
Component SP 0.0	000 in H2O	Exhaust	Fan Data
Total SP 0.5		Туре	FC Centrifugal
Indoor Notor Operating Power 3.7		Drive Type	Direct
Indoor Motor Power 2.7	76 kW	Exhaust Fan	Performance
Indoor RPM 869	9 rpm	Exhaust Fan FLA	16.70 A

Compressor Section

Circuit 1 RLA 35.70 A **Circuit 2 RLA** 29.60 A

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ELECTRICAL / GENERAL DATA

GENERAL (2)(4)(6)(7)(10)	MCA: MFS: MCB:	HEATING PERFORMAN HEATING - GENERAL DAT. Heating Model: Heating Input (BTU): Heating Output (BTU): No. Burners: No. Stages Gas Inlet Pressure Natural Gas (Min/Max): LP (Min/Max)	Medium 320000/224000 256000/179200 8 2 4.5 / 14.0 in. wc 11.0 / 14.0 in. wc
Standard Motor MCA: 101. MFS: 125. MCB: 125.) MFS:	Gas Pipe Connection Size:	3/4" as for engine
INDOOR MOTOR Standard Motor Number: 1 Horsepower: 5.0 Motor Speed (RPM): 3450 Phase 3 Full Load Amps: 16.7 Locked Rotor Amps: 110.0	Oversized Motor Number: Horsepower: Motor Speed (RPM): Phase Full Load Amps: Locked Rotor Amps:		Field Installed Oversized Motor Number: Horsepower: Motor Speed (PolyM): Phase Full Load Amps: Locked Polyor Amps:
COMPRESSOR Circuit 1/2 Number: 2 Horsepower: - Phase: 3 Rated Load Amps: 35.7/29.6 Locked Rotor Amps: 240.0/240.0		OUTDOOR MOTOR Number: Horsepower: Motor Speed (RPN) Phase: Full Load Amus: Control of the cont	
POWER EXHAUST ACCESSORY (Field Installed Power Exhaust) Phase: Horsepower: Motor Speed (RPM): Full Load Amps: Locked Rotor Amps:	Mullibel	Contact Kfrowaway Yes 3 20"x25"x2"	REFRIGERANT (2) Type: R-410A Factory Charge: Circuit #1 12.5 lb / 7.2 lb Circuit #2

- NOTES:

 1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.

 2. Refrigerant charge is an approximate value. For a more process value, see unit nameplate and service instructions.

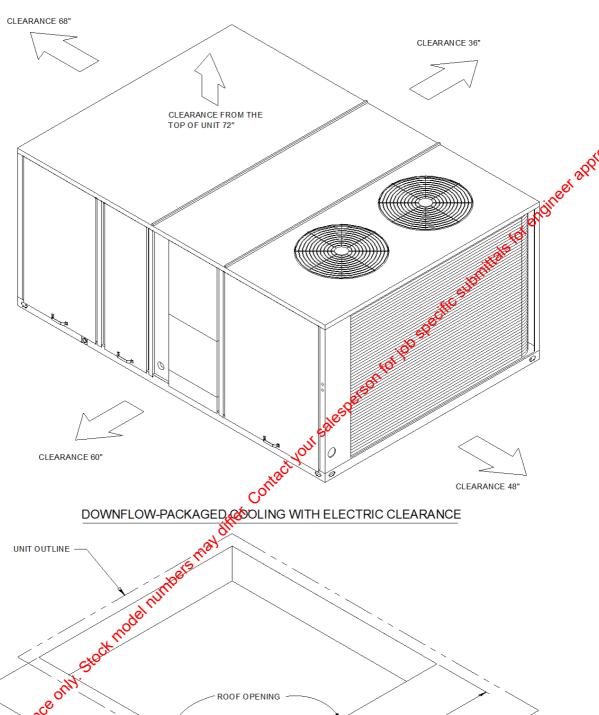
 3. Value does not include Power Exhaust Accessory.

 4. Value does not include Heater

- 5. 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 Condenses and Motors: Amp draw for each motor; multiply value by number of motors to determine total amps.
- 9. HP for each compressor.
- Integrated Energy Efficiency Rapid EER) is rated in accordance with AHRI standard 210/240 or 360.
 Full Load Amps (FLA) are the embined amps for outdoor motors. These cut sheets are for reference

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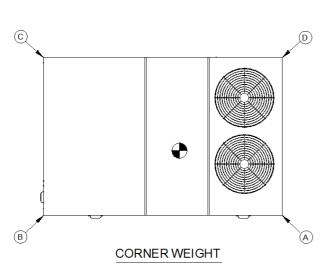


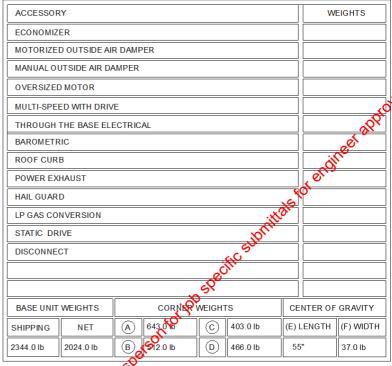
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DOWNFLOW-PACKAGED COOLING WITH ELECTRIC ROOF OPENING CLEARANCE

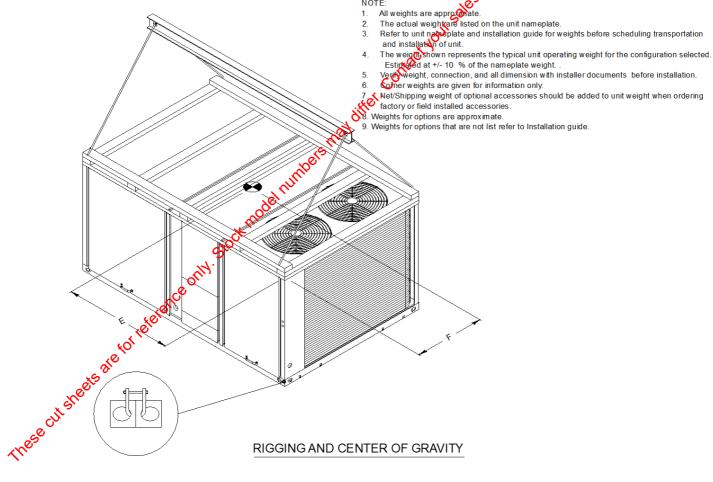
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INSTALLED ACCESSORIES NET WEIGHT DATA





- Net/Shipping weight of optional accessories should be added to unit weight when ordering factory or field installed excessories. factory or field installed accessories.
- 9. Weights for options that are not list refer to Installation guide.



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15 thru 25 Ton General

The units shall be dedicated downflow or horizontal airflow. The operating range shall be between 115°F and 40°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 3rd Edition.

15 thru 25 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 three screws to remove. All exposed vertical panels and top covers in the indoor air section shall be insulated with a 1/2", 30 lbdensity foil-faced, fire-resistant, permanent, odorless, glass fiber material. The base of the downflow unit shall be insulated with 1/2", 1.0 lbdensity foil-faced, closed-cell material. The downflow unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1 125 high supply/return openings to provide an added water integrity precaution, if the condensate dain backs up. The base of the unit shall have provisions for forklift and crane lifting.

15 thru 25 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.

15 thru 25 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.

15 thru 25 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.

15 thru 25 Ton Evaporator and Condenser Coils

Microchannel coils will be burst tested by the manufacturer. Internally finned, 5/16" copper tubes mechanically bonded to a configured aluminum plate fin shall be standard for evaporator coils. 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.

15 thru 25 Ton Filters

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

15thru 25 Ton Gas Heating Section

The heating section shall have a progressive 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/Electric Only).

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15 thru 25 Ton High Pressure Control

All units include High Pressure Cutout as standard.

15 thru 25 Ton Indoor Fan

Units above shall have belt driven, FC centrifugal fans with adjustable motor sheaves. Units with standard motors shall have an adjustable idler-arm assembly for quick-adjustment of fan belts and 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).

15 thru 25 Ton Low Pressure Control

All units include Low Pressure Cutout as standard.

15 thru 25 Ton Outdoor Fans

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

15 thru 25 Ton Phase Monitor

The Phase Monitor is a three-phase line monitor module that protects against mase 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 ONand FAULT. There are no field adjustments and the module will automatically reset from a fault condition.

15 thru 25 Ton Refrigerant Circuits

Each refrigerant circuit shall have independent fixed orifice, service pressure ports, and refrigerant line filter driers factory installed as standard. An area shall be provised for replacement suction line driers.

15 thru 25 Ton Unit Top

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

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