

Foundation Gas/Electric Rooftop

Application	Unit Size	Supply Fan		External Dimension				g Weight	EER	IEER/SEER						
Gas/Electric	5 Ton	Airflow	External Static Pressure	Height	Width	Length	Minimum	Maximum	12.0 EER	14.00						
		2000 cfm	0.500 in H2O	3.55 ft	3.99 ft	6.40 ft	586.0 lb	785.0 lb			ć					
Unit Fea	tures										appr					
										1	neer					
Unit Ele								123	-	, enc	S .					
	voitage/pna	se/hertz 460 MCA 13.0								40						
		MOP 20.0								*als						
							,		bri	lt.						
									SUL							
									diffe							
Controls	s								e ^c							
				Unit Cont	rols Electro-	mechanical		(1 ¹)00								
Cooling	Section						G	or								
		ng Dry Bulb	80.00 F				of.	, Cap	acity							
		ng Wet Bulb					lest	Gross Total	60.94 MBh							
	Am	nbient Temp	95.00 F				ູ S ^O Gro	ss Sensible	46.19 MBh							
		oil Dry Bulb				, C	n,	Net Total	57.42 MBh							
		oil Wet Bulb				L'S	N	let Sensible	42.66 MBh							
		nit Dry Bulb				X2U	Refrig Cha	rge-circuit 1	5.0 lb							
	Leaving Ur	nit Wet Bulb	58.11 F			Cor.										
Heating	Section				diffe	•										
					ing Capacity	92.00 MDH										
			Output Hea		ity with Fan											
					eating EAT											
					leating LAT J Temp Rise											
				Reating	I temp kise	42.40 F										
Fan Sec	tion		an Data	80												
		Indoor F						Outdoor	Fan Data							
Type FC Centrifugal									Propeller							
	Drive Type Bel?					Fan Quantity 1										
			Indoor Fancerformance						Drive Type Direct							
					Airflow 2000 cfm						Outdoor Fan Performance					
		Airflow	2000 cfm								Condenser Fan FLA 0.70 A					
		Airflow Design ESP	2000 cfm 0.500 in H2C)				ser Fan FLA	0.70 A							
	Сог	Airflow Design ESP mponent SP	2000 cfm 0.500 in H2C 0.000 in H2C)				ser Fan FLA Exhaust	0.70 A Fan Data							
	Cor	Airflow Design ESP moment SP V Total SP	2000 cfm 0.500 in H2C 0.000 in H2C 0.500 in H2C)				ser Fan FLA Exhaust Type	0.70 A Fan Data FC Centrifu	gal						
	Cor Motor Oper	Airflow Design ESP moonent SP Total SP ating Power	2000 cfm 0.500 in H2C 0.000 in H2C 0.500 in H2C 0.85 bhp)			Condens	ser Fan FLA Exhaust Type Drive Type	0.70 A Fan Data FC Centrifu Direct							
	Cor Motor Oper	Airflow Design ESP moonent SP Total SP ating Power	2000 cfm 0.500 in H2C 0.000 in H2C 0.500 in H2C 0.85 bhp 0.63 kW)			Condens	ser Fan FLA Exhaust Type Drive Type Exhaust Fan	0.70 A Fan Data FC Centrifu Direct Performand							
	Cor Motor Oper	Airflow Design ESP moonent SP Total SP ating Power	2000 cfm 0.500 in H2C 0.000 in H2C 0.500 in H2C 0.85 bhp 0.63 kW)			Condens	ser Fan FLA Exhaust Type Drive Type	0.70 A Fan Data FC Centrifu Direct Performand							
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	Cor Motor Oper Ingeor N	Airflow Design ESP moonent SP Total SP ating Power	2000 cfm 0.500 in H2C 0.000 in H2C 0.500 in H2C 0.85 bhp 0.63 kW)			Condens	ser Fan FLA Exhaust Type Drive Type Exhaust Fan	0.70 A Fan Data FC Centrifu Direct Performand							





Job Name: Stock Units Prepared For: Unit Tag: GBC060A4EMB Quantity: 1

ELECTRICAL / GENERAL DATA

lodel: GBC060 Ove		Oversized Motor	HEATING - GENERAL DATA				
Jnit Operating Voltage: Jnit Primary Voltage: Jnit Secondary Voltage Jnit Hertz: Jnit Phase:	- 460 - 60 3	MCA: MFS: MCB:	Heating Model: Heating Input (BTU): Heating Output (BTU): No. Burners: No. Stages	Medium 115000 / 92000 92000 / 73000 3 2			
EER: EER One Speed Fan:	12 / 14		Gas Inlet Pressure		200		
EER Multi Speed Fan:	-		Natural Gas (Min/Max): LP (Min/Max)	4.5 / 14.0 in. wc 11.0 / 14.0 in. wc	\$ Ĭ		
Standard Motor		Field Installed Oversized Motor	Gas Pipe Connection Size:	1/2"			
MCA: MFS: MCB:	12.9 20.0 20.0	MCA: MFS: MCB:		115000 / 92000 92000 / 73000 3 2 4.5 / 14.0 in. wc 11.0 / 14.0 in. wc 1/2" Eield Installed Oversized What			
INDOOR MOTOR				nitte			
Standard Motor		Oversized Motor		Field Installed Oversized Notor			
Number: 1 Horsepower: 1.0 Motor Speed (RPM): - Phase 3 "ull Load Amps: 2.0 Locked Rotor Amps: 15.0		Number: Horsepower: Motor Speed (RPM): Phase Full Load Amps: Locked Rotor Amps:		Number: Horsepower: Motor Speed (Rptrl): Phase Full Load Amps: Locked Over Amps:			
COMPRESSOR Circuit 1	/2			onte			
Number: 1 Horsepower: 6.50 Phase: 3 Rated Load Amps: 7.8/8.6 Locked Rotor Amps: 52.0			Number: Horsepower: 2.33 Motor Speed (RPN - Phase: 3 Full Load Amps: 0.7 Locked Roto Amps: 2.3	,			
POWER EXHAUST ACCESS (Field Installed Power Exhaust)	SORY ⁽³⁾	FILTERS	Contact	REFRIGERANT ⁽²⁾ Type: R-410A			
Phase: Horsepower: Motor Speed (RPM): Full Load Amps: Locked Rotor Amps:		Furnished: Number	firowaway es 6"x 16"x 2"	Factory Charge: Circuit #1 5.0 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 procise value, see unit nameplate and service instructions. 3. Value does not include Power Exhaust Accessory. model

4. Value does not include Heater.

Value does not include reater.
Value include Standard Motor.
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 on Motors: Amp draw for each motor; multiply value by number of motors to determine total amps.

 9. HP for each compressor.
10. Integrated Energy Efficiency RatificER) is rated in accordance with AHRI standard 210/240 or 360.
11. Full Load Amps (FLA) are the Onbined amps for outdoor motors. these cut sheets are for reference



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29"



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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's base pan 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 Evaporat@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 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 space 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.



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 FAUST. 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

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