

Foundation Gas/Electric Rooftop

Unit Ove	erview - G	BC036A4	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			6

Unit Features

Unit Electrical	
Voltage/phase/hertz	460/60/3
MCA	11.00 A
MOP	15.00 A



Controls

Unit Controls Electro-mechanical

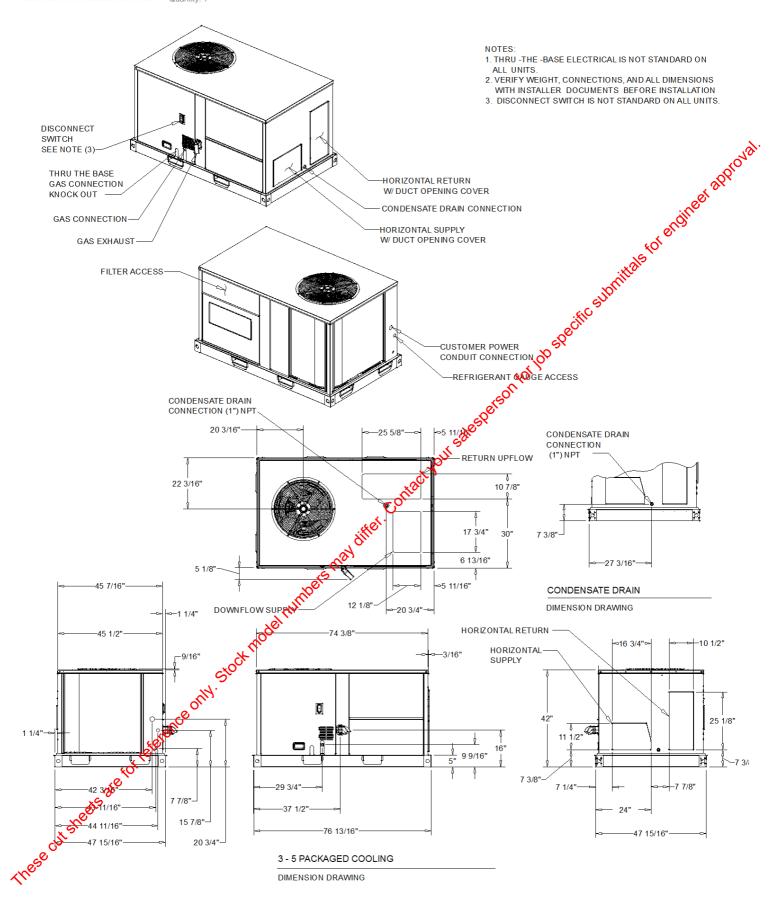
Cooling Section	Equ.
Entering Dry Bulb 80.00 F	Capacity
Entering Wet Bulb 67.00 F	Gross Total 37.11 MBh
Ambient Temp 95.00 F	Gross Sensible 28.13 MBh
Leaving Coil Dry Bulb 57.83 F	Net Total 35.12 MBh
Leaving Coil Wet Bulb 56.99 F	Net Sensible 26.15 MBh
Leaving Unit Dry Bulb 59.93 F	Refrig Charge-circuit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

Heating Section

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

Fan Section	
Indoor Fan Data	Outdoor Fan Data
Type FC Centrifugal	Type Propeller
Drive Type Bel?	Fan Quantity 1
Indoor Fan Rerformance	Drive Type Direct
Airflow 1200 cfm	Outdoor Fan Performance
Design ESP 0.500 in H2O	Condenser Fan FLA 0.70 A
Component SP 0.000 in H2O	Exhaust Fan Data
Total 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 2.50 A
Compressor Section	
Circuit 1 RLA 5.80 A	

Circuit 1 RLA 5.80 A Circuit 2 RLA 0.00 A



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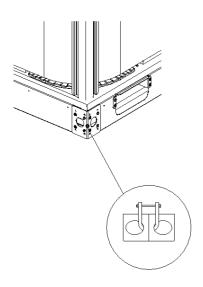
American Standard.

ELECTRICAL / GENERAL DATA

	Medium 100000 / 80000 80000/64000 3 2
MCA:	Medium 100000 / 80000 80000/64000
Unit Primary Voltage:	100000 / 80000 80000/64000
Unit Secondary Voltage Unit Phase: MCB:	80000/64000
No. Burmers: No. Stages EER: 12 / 14 IEER One Speed Fan: IEER Multi Speed Fan: IEER Multi Speed Fan: IEER Multi Speed Fan: IEER Multi Speed Fan: IStandard Motor ISTANDOOR MCB: INDOOR MCB: INDOOR MOTOR Standard Motor Number: In Horsepower: In O Motor Speed (RPM): Phase ISTANDOOR MOTOR Standard Motor Number: In O Horsepower: In O Motor Speed (RPM): Phase ISTANDOOR MOTOR Oversized Motor Number: In O Horsepower: In O Motor Speed (RPM): Phase ISTANDOOR MOTOR Oversized Motor Oversized Motor Oversized Motor Number: Horsepower: In O Motor Speed (RPM): Phase ISTANDOOR MOTOR OUTDOOR MOTOR Number: In O Horsepower: In O UTDOOR MOTOR Number: In O UTDOOR MOTO	3 2
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Standard Motor MCA: 10.5 MCA: 15.0 MFS: MCB: 15.0 MCB: MCB: MCB: MCB: MCB: MCB: MCB: MCB:	4.5 / 14.0 in. wc
Standard Motor MCA: MCS: MCB: MCC MCD MCD MCD MCD MCD MCD MC	11.0 / 14.0 in. wc
MFS: 15.0 MFS: MCB: INDOOR MOTOR Standard Motor Number: 1 Horsepower: 1.0 Horsepower: Motor Speed (RPM): Phase 2.0 Full Load Amps: Locked Rotor Amps: COMPRESSOR Circuit 1/2 Number: 1 Horsepower: 4.10 Phase: 3 Rated Load Amps: 5.8/6.3 Locked Rotor Amps: 38.0 POWER EXHAUST ACCESSORY MFS: MCB: MFS: MCB: Number: Horsepower: Motor Speed (RPM): Phase: Motor Speed (RPM): Phase: Motor Speed (RPM): Motor Spee	e: 1/2"
MCB: 15.0 MCB: INDOOR MOTOR Standard Motor Oversized Motor Number: 1 Horsepower: 1.0 Horsepower: Motor Speed (RPM): Phase 3 Phase Full Load Amps: 2.0 Full Load Amps: Locked Rotor Amps: COMPRESSOR Circuit 1/2 OUTDOOR MOTOR Number: 1 Horsepower: 4.10 Phase: 3 Rated Load Amps: 38.0 Full Load Amps: Locked Rotor Amps: 38.0 Full Load Amps: Locked Rotor Amps: Motor Speed (RPM): Phase: 3 Rated Load Amps: 38.0 Full Load Amps: Locked Rotor Amps: 1.0 Full Load Amps: Locked Rotor Amps: 1.0 Full Load Amps: Seed (RPM): Phase: Seed (RPM): Full Load Amps: Locked Rotor Amps: 1.0 Full Load Amps: 1	
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POWER EXHAUST ACCESSORY (Field Installed Power Exhaust) Phase: Horsepower: Motor Speed (RPM): TITERS FILTERS Type: Furnished: Furnished: Number 4	2.3
(Field Installed Power Exhaust) Phase: Horsepower: Motor Speed (RPM): Type: Furnished: Number Type: Furnished: Number	
(Field Installed Power Exhaust) Phase: Horsepower: Wotor Speed (RPM): Type: Furnished: Yes Number 4	REFRIGERANT ⁽²⁾
Horsepower: Furnished: Sift Yes Motor Speed (RPM): Number 4	
Horsepower: Furnished: Sift Yes Motor Speed (RPM): Number 4	Type: R-410A
Motor Speed (RPM): Number 4	Factory Charge:
Full Load Amps: Pecommended 16"x 16"x 2"	Circuit #1 3.5 lb
Locked Rotor Amps:	Circuit #2
LOUNDU MILIPS.	
NOTES:	
NOTES: 1. Maximum (HACR) Circuit Breaker sizing is for installations judge United States only.	
 Refrigerant charge is an approximate value. For a more recise value, see unit nameplate and service instructions 	
Value does not include Power Exhaust Accessory. 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.

ected. Estimated at +/- 10 % of the nameplate weight	ration
ne actual weight are listed on the unit nameplate. efer to unit nameplate and installation guide for weights before scheduling to dinstallation of unit. he weight shown represents the typical unit operating weight for the configu- elected. Estimated at +/- 10 % of the nameplate weight erify weight, connection, and all dimension with installer documents before omer weights are given for information only. et/Shipping weight of optional accessories should be added to unit weight w ctory or field installed accessories. estalled Options Net Weight Data	installation. 🦽 🗥
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et/Shipping weight of optional accessories should be added to unit weight weight weight of optional accessories.	hen ordering
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	Weight
Economizer, Manual and Motorized Outside Air Damper	
conditizer, manual and motorized Outside Air Damper	
Barometric Relief	•
Power Exhaust	
Power Exhaust	
Power Exhaust Roof Curb Oversized Motor	•
Power Exhaust Roof Curb Oversized Motor Disconnect	•
Power Exhaust Roof Curb Oversized Motor Disconnect Hail Guard	•

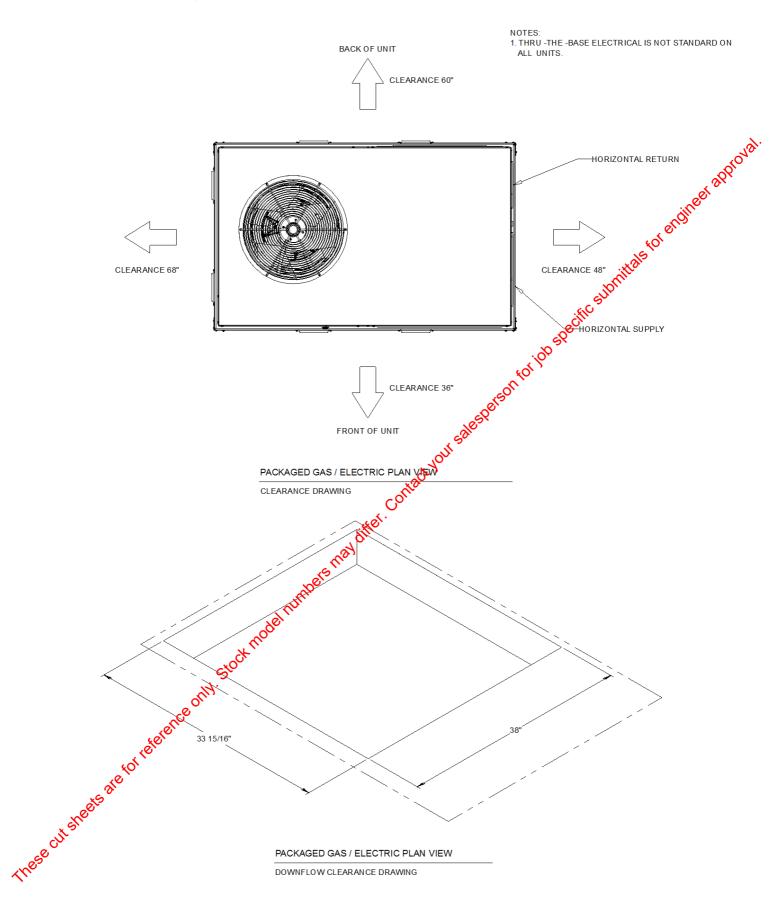
- Weights for options that are not list refer to Installation guide.

— 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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