

Foundation Gas/Electric Rooftop

Unit Overview - GDK300A3SHA**070000000000000000000000000000000000											
Application	Unit Size	Suppl	y Fan	External Dimensions (in.)			Operating Weight		EER	IEER/SEER	Elevation
Gas/Electric	25 Ton	Airflow	External Static Pressure	Height	Width	Length	Minimum	Maximum	9.80	13.00	
		10000. cfm	0.500 in H2O	4.94 ft	7.24 ft	10.26 ft	2098.0 lb	2628.0 lb			

Unit Features

SupplyFan/Drive/ MotorType Two speed fan standard motor

Unit Electrical						
Voltage/phase/hertz	208-230/60/3					
MCA	121.00 A					
MOP	150.00 A					



Controls

Unit Controls Symbio 700

Cooling Section	
Entering Dry Bulb 80.00 F	Capacity
Entering Wet Bulb 67.00 F	Gross Total 284.84 MBh
Ambient Temp 95.00 F	Gross Sensible 219.06 MBh
Leaving Coil Dry Bulb 59.80 F	Net Total 265.14 MBh
Leaving Coil Wet Bulb 57.88 F	Net Sensible 199.37 MBh
Leaving Unit Dry Bulb 62.04 F	Refrig Charge-circuit 1 14.4 lb
Leaving Unit Wet Bulb 58 75 F	

Heating Section	
Input Heating Capacity	380.00 MBh
Output Heating Capacity	308.00 MBh
Output Heating Capacity with Fan	308.00 MBh
Heating EAT	70.00 F
Heating LAT	98.39 F

Fan Section			
Indoor Fan Data		Outdoor	Fan Data
Type FC Centrif	ugal	Туре	Propeller
Drive Type Belt		Fan Quantity	2
Indoor Fan Performan	ce	Drive Type	Direct
Airflow 10000. cfm	n	Outdoor Fan	Performance
Design ESP 0.500 in H	20	Condenser Fan FLA	4.30 A
Component SP 0.000 in H.	20	Exhaust	Fan Data
Total SP 0.500 in H	20	Туре	FC Centrifugal
Indoor Motor Operating Power 6.51 bhp		Drive Type	Direct
Indoor Motor Power 5.59 kW		Exhaust Fan	Performance
Indoor RPM 1029 rpm		Exhaust Fan FLA	19.80 A

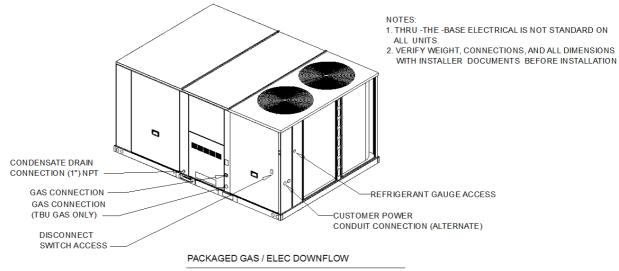
Heating Temp Rise 28.39 F

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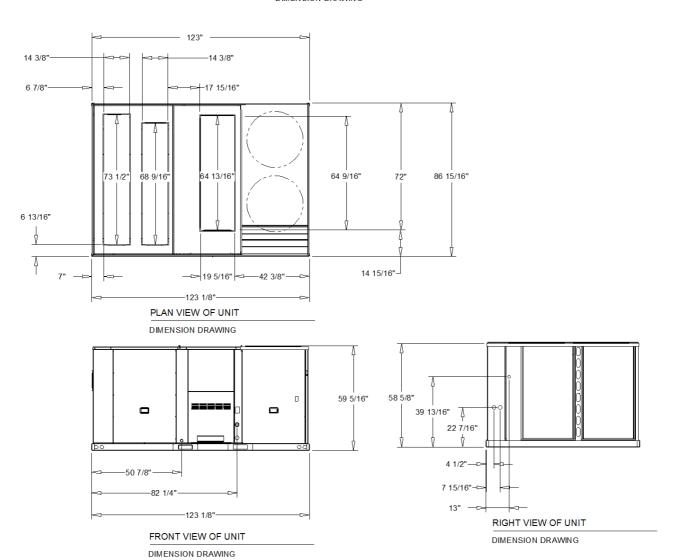
Compressor 1 RLA 49.60 A Compressor 2 RLA 30.10 A

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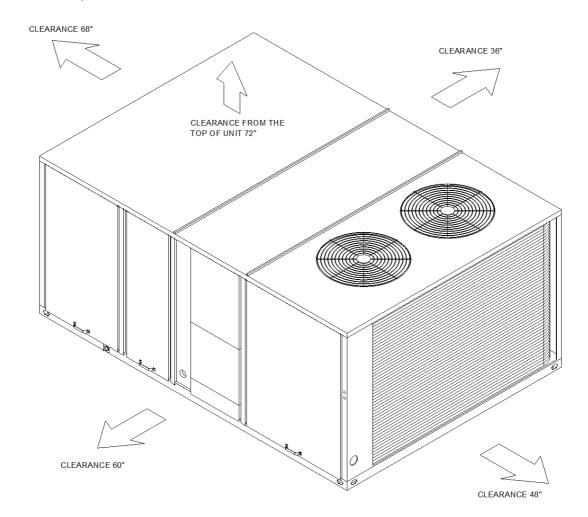


DIMENSION DRAWING

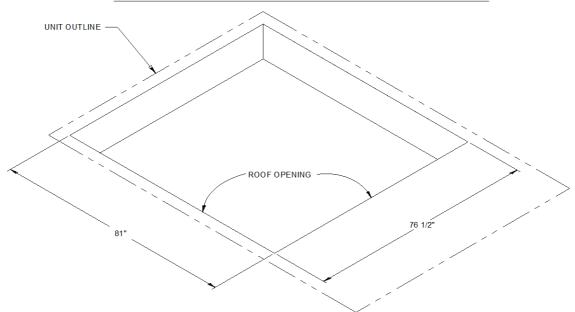


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DOWNFLOW-PACKAGED COOLING WITH ELECTRIC CLEARANCE



DOWNFLOW-PACKAGED COOLING WITH ELECTRIC ROOF OPENING CLEARANCE

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(c) (B) (A)**CORNER WEIGHT**

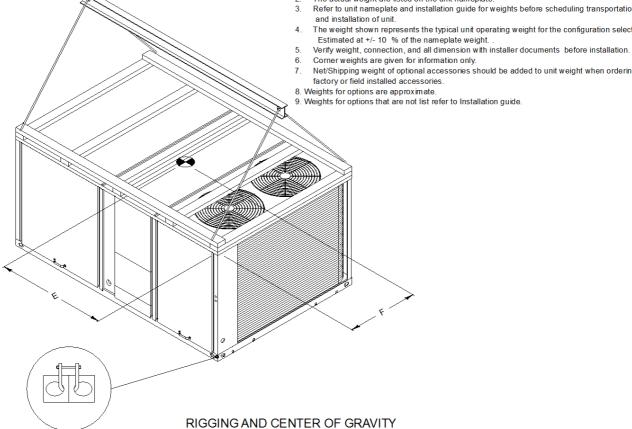
INSTALLED ACCESSORIES NET WEIGHT DATA

ACCESSORY							W	EIGHTS		
ECONOMIZ	ER									
MOTORIZED OUTSIDE AIR DAMPER										
MANUAL OUTSIDE AIR DAMPER										
OVERSIZED MOTOR										
MULTI-SPEED WITH DRIVE								65.0 lb		
THROUGH	THE BASE EL	ECTRIC	AL							
BAROMETE	BAROMETRIC									
ROOF CURB										
POWER EXHAUST										
HAIL GUARD										
LP GAS CO	NVERSION									
STATIC DR	IVE									
DISCONNE	СТ									
BASE UNIT	WEIGHTS		CORNER	WEIGHT	S	CE	NTER OF	GRAVITY		
SHIPPING	NET	A	671.0 lb	(C)	393.0 lb	(E) I	ENGTH	(F) WIDTH		
2386.0 lb	2061 0 lb	(B)	524.0 lb		472.0 lb	55	;"	36"		

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

 Refer to unit nameplate and installation guide for weights before scheduling transportation
- The weight shown represents the typical unit operating weight for the configuration selected.

- Net/Shipping weight of optional accessories should be added to unit weight when ordering factory or field installed accessories.



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15 thru 25 Ton General

The units shall be dedicated downflow or horizontal airflow. The operating range shall be between115°F and 40°F in cooling as standard from the factory for all units. Cooling performance shall be rated in accordance with AHRI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-454B, 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. Unit shall be furnished with a leak detection system from the factory. The leak detection system shall consist of one or more refrigerant detection sensors. When the system detects a leak, the unit controller shall initiate mitigation actions.

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", 1.0 lbdensity foilfaced, 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 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.

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 thermostat is 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.

15 thru 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 in 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 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 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 provided 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.

15 thru 25 Ton Multi-Speed Indoor Fan System

Multi-speed indoor fan system is designed for use in applications for meeting the minimum requirement of CA Title 24. This system incorporates a multi-speed fan control to change the speed of the fan to 66% of full airflow based off of compressor stages.

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