

Project Name: **454B Stock**

Unit Model #: **KQG05E4B1AA1A111A1**

Quantity: **1**

System: **KQG05E4B1AA1A111A1**

Cooling Performance

Total gross capacity	52.0 MBH
Sensible gross capacity	37.4 MBH
Seasonal Efficiency (at ARI)	14.00 SEER2
Efficiency (at ARI)	EER
Efficiency (at ARI)	11.50 EER2
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Evap Coil Leaving DB temp.	58.4 °F
Evap Coil Leaving WB temp.	56.7 °F
Unit Leaving DB temp.	59.9 °F
Unit Leaving WB temp.	57.3 °F
Leaving air temp dew point	55.60 °F
Power input (w/o blower)	3.60 kW
Sound power	79 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	4 lb

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	90.0 MBH
Supply air	1600 cfm
Heating input capacity (Max)	112 MBH
Leaving DB temp.	112.1 °F
Air temp. rise	52.1 °F
SSE	80.0 %
Stages	1

Supply Air Blower Performance

Supply air	1600 cfm
Ext. static pressure	0.6 IWG
Blower speed	1148 rpm
Max BHP of Motor (including service factor)	2.40 HP
Duct location	Bottom
Motor rating	2.40 HP
Actual required BHP	0.83 HP
Power input	0.77 kW
Elevation	0 ft
Drive type	BELT

Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	11.3 A
Unit min over-current protection	15 A
Unit max over-current protection	15 A

Dimensions & Weight

Hgt 33 in	Len 74 in	Wth 49 in
Weight with factory installed options	548 lb	

Clearances

Right	18 in	Front	36 in	Rear	18 in
Top	72 in	Bottom	1 in	Left	12 in

Note: Please refer to the tech guide for listed maximum static pressures



4 Ton

- All units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

Unit Features

- Single Stage Cooling
- 112 MBH Single Stage Input Medium Heat Aluminized Gas
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 750 Hours Salt Spray Test (ASTM B-117 Standards)
- Either supply and/or return can be field converted from vertical to horizontal configuration without cutting panels.
- Full perimeter base rails with built in rigging capabilities
- Scroll Compressors
- Medium Static Belt Drive Blower
- Solid Core Liquid Line Filter Driers
- Unit Ships with 2" Throwaway Filters
- Replacement Filters: 2 - (16" x 25"). Unit accepts 2" or 4" wide filters.
- Single Point Power Connection
- Short Circuit Current: 5kA RMS Symmetrical
- Microchannel All Aluminum Condenser Coil, Copper tube/Aluminum fin Evaporator Coil

Standard Unit Controller

- Smart Equipment Control Board
- On-Board Diagnostic and Fault Code display
- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan On and Fan off Delays, Low Voltage Protection, Allows all units to operate in the cooling mode down to 0 °F outdoor ambient without additional components or intervention.
- Safety Monitoring - Monitors the high and low-pressure switches, the freezestats, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, safety lockouts and repeated limit switch trips.

BAS Controller

- Smart Equipment Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors
- Ten (10) Year Warranty - Aluminized Steel Tubular Heat Exchangers



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Additional Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	11.3 A
Unit max over-current protection	15 A
Min Voltage	432 V
Max Voltage	504 V
Comp #1 RLA	6.3
Comp #1 LRA	60.0
Indoor Mtr Voltage	460-3-60
Indoor Mtr FLA	2.6
Outdoor Mtr Qty	1
Outdoor Fan Voltage	460-1-60
OD Fan Mtr FLA (ea.)	0.8
Power Ex Mtr Qty (if applicable)	1
Powered Ex Voltage(if applicable)	460-3-60
Power Ex Mtr FLA (ea) (if applicable)	0.5
Combustion Mtr Qty	1
Combustion Motor Voltage	208/230-1-60
Combustion Mtr FLA (ea)	0.5



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Factory Installed Options

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Equipment Options		Option(s) Selected
Product Category:	KQ	York Sun Core Single Packaged R-454B Air Conditioner
Heat Type:	G	Gas Heat
Nominal Cooling Capacity:	05	4 Ton Single Stage Cooling 14.0 SEER2 / 11.5 EER2
Heat Size:	E	112 MBH Single Stage Input Medium Heat Aluminized Gas
Voltage:	4	460-3-60
Airflow:	B	Medium Static Belt Drive Blower
Airflow Options:	1	
Controls:	A	Smart Equipment Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors.
Sensor Options:	1	
Economizer / Damper:	A	
Convenience Outlet:	1	
Electrical Options:	1	
Cabinet Options:	1	
Special Options:	A	
Product Generation:	1	

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ZQ 04-05 Unit Dimensions

ZQ04-05

Technical drawing of a condenser unit showing dimensions and components. The drawing includes a side view and a front view. Dimensions are given in inches and millimeters. Components are labeled: SUPPLY, RETURN, ALTERNATE, and CONDENSATE DRAIN. The side view shows a total width of 8.05 [204.5] and a total height of 10.881 [276.38]. The front view shows a total width of 26.91 [683.6] and a total height of 4.98 [126.4]. The side view also shows a total width of 25.69 [652.5] and a total height of 4.96 [126]. The front view shows a total width of 17.38 [441.5] and a total height of 6.19 [157.1]. The side view also shows a total width of 1.94 [49.4] and a total height of 9.4 [239.4]. The front view shows a total width of 1.94 [49.4] and a total height of 9.4 [239.4].

4. REMOVED.
5. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
6. DOWNFLOW DUCTS TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY IF UNIT IS MOUNTED SIDE SUPPLY. IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS.
7. REMOVED.
8. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
9. DIMENSIONS IN () ARE IN MILLIMETERS OR KILOGRAMS.
10. OPTIONAL COIL GUARDS, GAS HEAT, DISCONNECT SWITCH SHOWN.
11. TOP PANEL EXCHANGES NOT SHOWN FOR DIMENSION CLARITY.
12. HEAT EXCHANGER IS TYPICAL OF HIGH GAS HEAT OPTION.

▲ DIRECTION OF AIRFLOW
 ● CENTER OF GRAVITY

VIEW A
SCALE 0.200

Z-HALL GUARD (OPTIONAL)

1

RIGHT VIEW

[illegible]

 DIRECTION OF AIRFLOW
 CENTER OF GRAVITY

[illegible]