

Project Name: **454B Stock**

Unit Model #: **KQG06E2B1AA5A111A1**

Quantity: **1**

System: **KQG06E2B1AA5A111A1**

Cooling Performance

Total gross capacity	64.5 MBH
Sensible gross capacity	46.8 MBH
Seasonal Efficiency (at ARI)	14.00 SEER2
Efficiency (at ARI)	EER
Efficiency (at ARI)	12.00 EER2
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Evap Coil Leaving DB temp.	58.3 °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	55.70 °F
Power input (w/o blower)	4.30 kW
Sound power	80 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	4 lb 14 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	90.0 MBH
Supply air	2000 cfm
Heating input capacity (Max)	112 MBH
Leaving DB temp.	101.7 °F
Air temp. rise	41.7 °F
SSE	80.0 %
Stages	1

Supply Air Blower Performance

Supply air	2000 cfm
Ext. static pressure	0.6 IWG
Blower speed	1094 rpm
Max BHP of Motor (including service factor)	2.40 HP
Duct location	Bottom
Motor rating	2.40 HP
Actual required BHP	1.04 HP
Power input	0.97 kW
Elevation	0 ft
Drive type	BELT

Electrical Data

Power supply	208-3-60	230-3-60
Unit min circuit ampacity	23.6 A	23.9 A
Unit min over-current protection	25 A	25 A
Unit max over-current protection	35 A	35 A

Dimensions & Weight

Hgt 41 in	Len 74 in	Wth 49 in
Weight with factory installed options	625 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



Unit Features

- Refrigerant Detection System (RDS) is Factory Installed
- 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
- Unit Ships with 2" Throwaway Filters
- Solid Core Liquid Line Filter Driers
- Single Point Power Connection
- Short Circuit Current: 5kA RMS Symmetrical
- Microchannel All Aluminum Condenser Coil, Copper tube/Aluminum fin Evaporator Coil

5 Ton

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

BAS Controller

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

Standard Unit Controller

- 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.
- Smart Equipment Control Board
- On-Board Diagnostic and Fault Code display

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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Power supply	208-3-60
Unit min circuit ampacity	23.6 A
Unit max over-current protection	35 A
Min Voltage	187 V
Max Voltage	252 V
Comp #1 RLA	13.1
Comp #1 LRA	93.0
Indoor Mtr Voltage	208-3-60
Indoor Mtr FLA	5.2
Outdoor Mtr Qty	1
Outdoor Fan Voltage	208-1-60
OD Fan Mtr FLA (ea.)	2.0
Power Ex Mtr Qty (if applicable)	1
Powered Ex Voltage(if applicable)	208-3-60
Power Ex Mtr FLA (ea) (if applicable)	1.1
Combustion Mtr Qty	1
Combustion Motor Voltage	208/230-1-60
Combustion Mtr FLA (ea)	0.5



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Quantity: 1

System: KQG06E2B1AA5A111A1

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:	06	5 Ton Single Stage Cooling 14.0 SEER2 / 12.0 EER2
Heat Size:	E	112 MBH Single Stage Input Medium Heat Aluminized Gas
Voltage:	2	208/230-3-60
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:	5	Refrigerant Detection System
Economizer / Damper:	A	
Convenience Outlet:	1	
Electrical Options:	1	
Cabinet Options:	1	
Special Options:	A	
Product Generation:	1	


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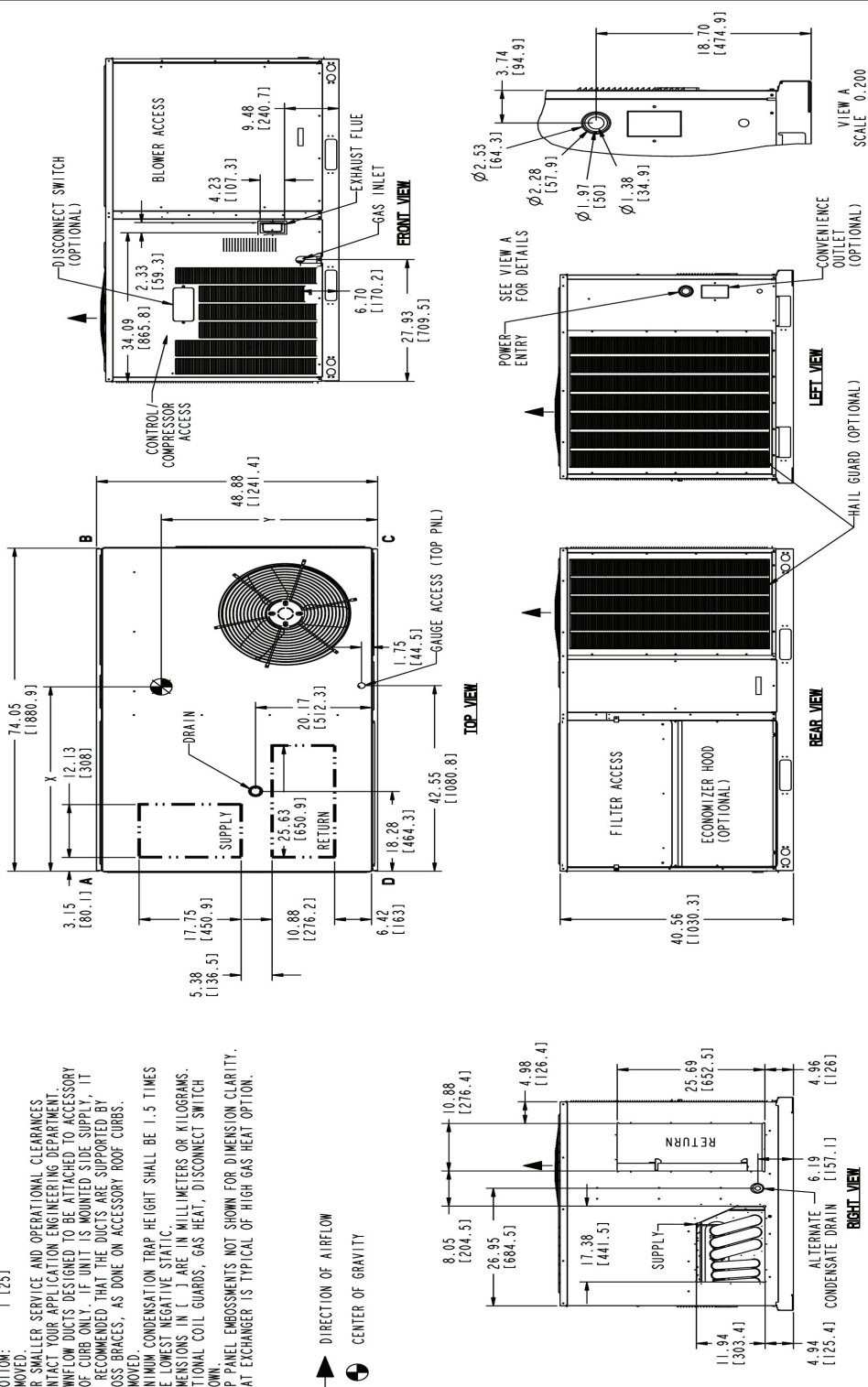
Unit Model #: **KQG06E2B1AA5A111A1**

Quantity: **1**

ZQ 06 Unit Dimensions

ZQ06

TONNAGE	U	I	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
				X	Y	A	B	C	D
6	24	24	592 (268.5)	33.7 (155)	24.9 (132)	162.6 (73.8)	136.3 (61.8)	133.8 (60.5)	159.3 (72.3)
4	21	21	564 (255.5)	36.3 (162)	24.9 (132)	144.9 (65.7)	139.9 (63.5)	137.1 (62.2)	142 (64.4)
5	21	21	562 (254)	36.2 (163)	25.1 (133)	151.1 (68.6)	145.1 (65.8)	139.9 (63.5)	145.7 (66.1)
5	20	20	566.2 (256.8)	37.5 (153)	25.1 (133)	141.9 (64.4)	146.2 (66.4)	141 (64)	136.8 (62.1)



- NOTES:**
1. FOR OUTDOOR USE ONLY.
 2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
 3. RECOMMENDED MIN. CLEARANCES:
RIGHT SIDE: 18 [450] W/SIDE CONDENSATE DRAIN: 24 [600]
LEFT SIDE: 12 [300] W/PIPGAIL: 18 [450]
FRONT: 36 [900]
REAR: 18 [450] W/ECONOMIZER/POWER EXHAUST: 36 [900]
TOP: 72 [1800]
BOTTOM: 1 [25]
 4. REMOVED.
 5. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES
CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
 6. DOWNFLOW DUCTS DESIGNED 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 EMBOSSEMENTS NOT SHOWN FOR DIMENSION CLARITY.
 12. HEAT EXCHANGER IS TYPICAL OF HIGH GAS HEAT OPTION.

REV	DATE	REVISION RECORD	EC NO	DR	CH	ENG	THIRD ANGLE PROJECTION	SAFETY AND TEST
A	10-13-13	NEW DRAWING	27375	RGG	JC	DM		1. SAFETY AND TEST
B	12-03-14	REVISE CLEARANCES (NOTE 3), REMOVE EXTRA DIMS FROM VIEW A	37128	RGG	TPS	ALR		2. SAFETY AND TEST
C	05-10-16	ADDED ADDITIONAL ROW TO TABLE FOR 20 UNIT 5 TON	44829	RG	RG	ALR		3. SAFETY AND TEST
D	10-25-16	CORRECTED 4 POINT CORNER LOAD TABLE, CORRECTED CORNER CALL OUTS ON PRINT		ZAW	TR	TR		4. SAFETY AND TEST
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								100. SAFETY AND TEST



3-12.5 York® Sun™ Core

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Unit Model #: KQG06E2B1AA5A111A1

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Submittal

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SHOWN.
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► DIRECTION OF AIRFLOW
● CENTER OF GRAVITY

Labels: DRAIN, SUPPLY, RETURN, GAUGE ACCESS (TOP PNL), FILTER ACCESS, ECONOMIZER HOOD (OPTIONAL), HAIL GUARD (OPTIONAL), CONVENIENCE OUTLET (OPTIONAL), POWER ENTRY, SEE VIEW A FOR DETAILS, DISCONNECT SWITCH (OPTIONAL), BLOWER ACCESS, EXHAUST FLUE, GAS INLET, CONTROL/COMPRESSOR ACCESS.

TONNAGE		CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
U	N	X	Y	A	B	C	D
4	HL	36 [914.4]	26 [660.4]	153 [69.4]	145 [65.8]	150 [68]	137 [62.1]
5	HL	582 [264]	24 [609.6]	141 [64]	142 [64.4]	150 [68]	149 [67.6]
5	RL	581 [264.5]	36 [914.4]	140 [63.5]	134 [60.8]	140 [63.5]	147 [66.7]
6	RLA	614 [278.5]	34.4 [874]	168 [76.2]	146 [66.2]	139 [63.0]	160 [72.6]
4	RY	584 [265.8]	24.9 [627]	144.9 [65.7]	139.9 [63.5]	131 [62.2]	142 [64.4]
5	RY	582 [264]	25.1 [638]	151.1 [68.6]	145.1 [65.8]	135.9 [63.5]	145.7 [66.1]

REVISION RECORD

REV	DATE	DESCRIPTION
A	02-20-24	NEW DRAWING (FROM 5901136)

SCALE: 0.100

THIRD ANGLE PROJECTION

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DRAWING PER ASME Y14.5-2009

UNLESS OTHERWISE SPECIFIED:

ONE PLACE DECIMAL = ± .1
TWO PLACE DECIMAL = ± .01
THREE PLACE DECIMAL = ± .001
DIMENSIONS ARE IN INCHES
DO NOT SCALE PRINT

SCALE: 0.200

VIEW A

SUBMITTAL DATA DWG, CORE
1 ODF, 40, 5" CAB

JOHNSON CONTROLS
UNITARY PRODUCTS GROUP
NORMAN, OK 73069

6482716

REV A

SHEET NO. 1 OF 1

Information is subject to change without notice. Check local codes.

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