

Project Name: **454B Stock**

Unit Model #: **KQG05E2B1AA1A111A1**

Quantity: **1**

System: **KQG05E2B1AA1A111A1**

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	208-3-60	230-3-60
Unit min circuit ampacity	21.5 A	21.6 A
Unit min over-current protection	25 A	25 A
Unit max over-current protection	30 A	30 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	208-3-60
Unit min circuit ampacity	21.5 A
Unit max over-current protection	30 A
Min Voltage	187 V
Max Voltage	252 V
Comp #1 RLA	12.0
Comp #1 LRA	123.0
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.)	1.3
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

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Factory Installed Options

KQG05E2B1AA1A111A1

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:	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:	1	
Economizer / Damper:	A	
Convenience Outlet:	1	
Electrical Options:	1	
Cabinet Options:	1	
Special Options:	A	
Product Generation:	1	

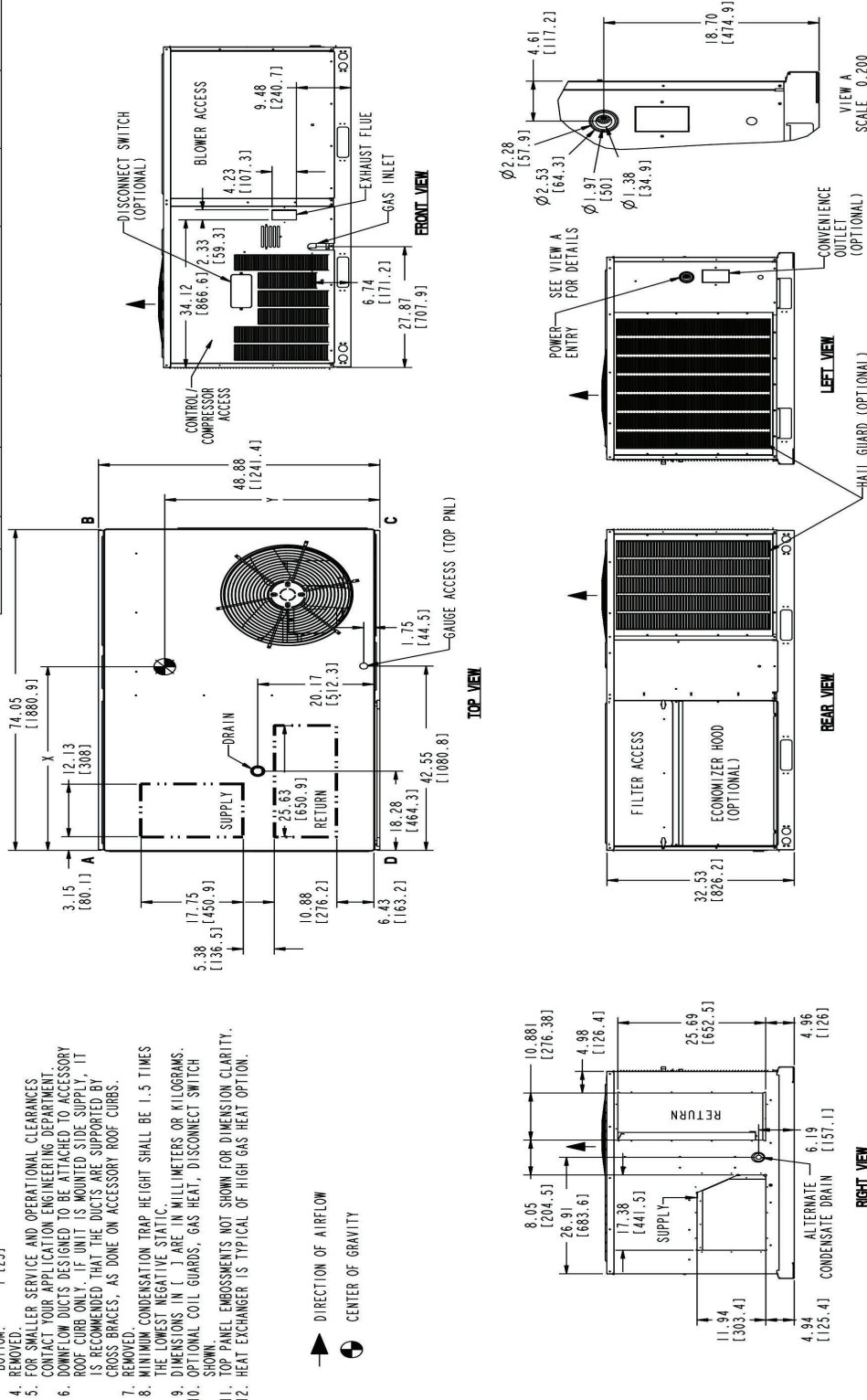
Unit Model #: KQG05E2B1AA1A111A1

Quantity: 1

ZQ 04-05 Unit Dimensions

ZQ04-05

TOWNAGE	U N I T	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D
3	2X	469 (212.7)	36.5 (1927)	25.5 (1646)	122.7 (555.7)	119.8 (554.3)	111.8 (530.7)	114.5 (532)
4	2X	486 (225.9)	36.1 (1917)	25 (1635)	128.1 (586.6)	126.9 (584.4)	125.5 (577)	
5	2X	530 (242.4)	36.1 (1917)	24.1 (1612)	132.5 (601.1)	126.5 (571.4)	132.3 (601)	138.5 (62.9)
3	2Y	481 (218.2)	35.5 (1904)	25.2 (1640)	127.4 (578.8)	118.4 (553.7)	113.2 (531.4)	121.8 (555.3)
3	2Y	482 (220.2)	36.3 (1922)	26.1 (1663)	127.1 (575.1)	117 (535.1)	104 (471.2)	107.7 (48.9)
4	2Y	481 (220.2)	35.9 (1912)	25.1 (1585)	131.1 (595.5)	123.8 (581.2)	112.8 (512)	114.5 (54.2)



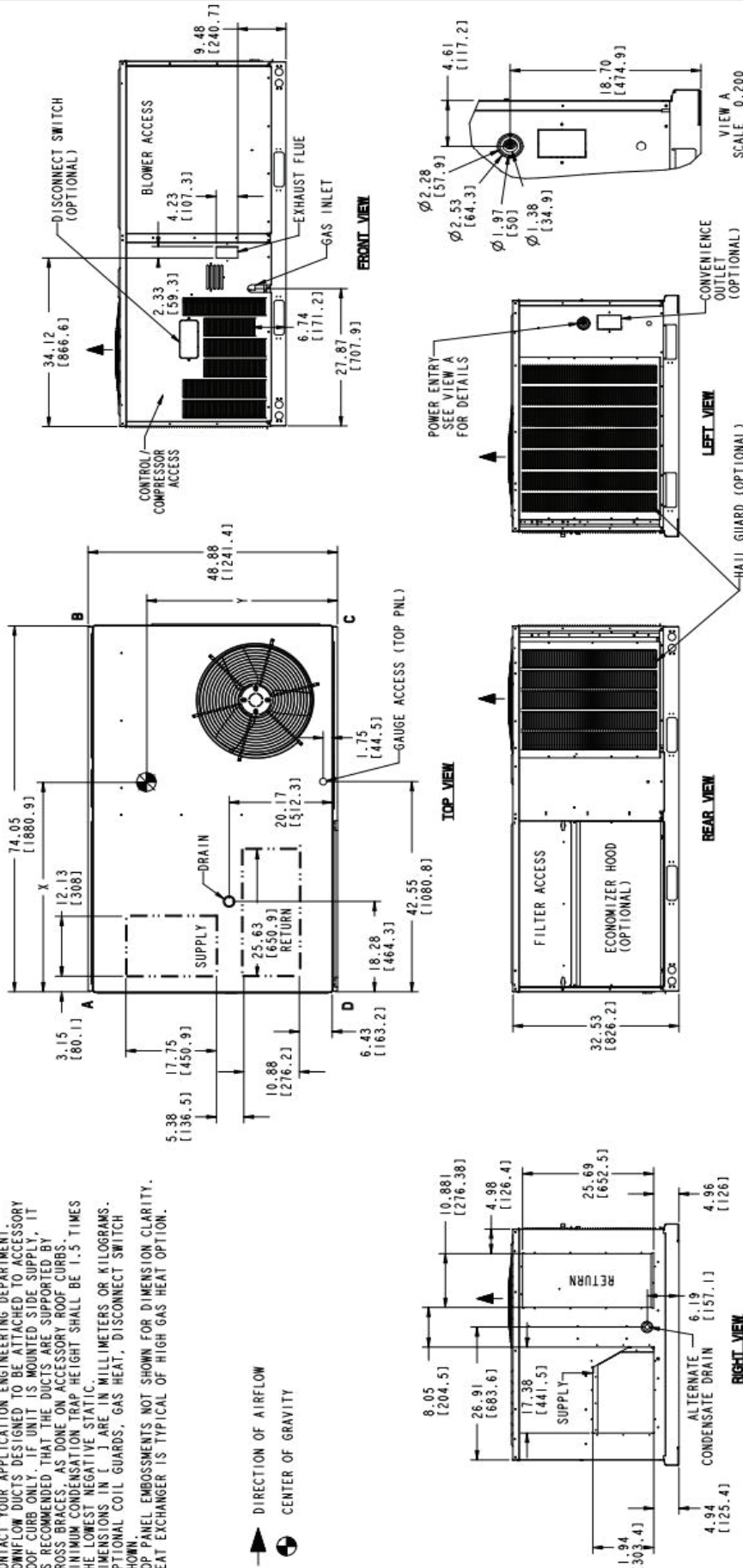
REV	DATE	REVISION RECORD	EC	NO	DR	CK	ENG	THIRD ANGLE PROJECTION	ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER HEREOF ARE RESERVED AND NO PERMISSION IS GRANTED TO REPRODUCE OR TRANSMIT IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM JONHSON CONTROLS	SAFETY AND HEALTH SHEET AND STRESS PER RE-200-S10-01
1	09-13-13	NEW DRAWING	3737S	REG	JC	DN			SUBMITTAL DWG, COR 1 OF, 32, 3 CAB TYPE: NOT APPLICABLE DIM SPEC: NOT APPLICABLE SIZE: 00000 Dwg NO:	
2	02-03-14	REVISE CLEARANCES (NOTE 3), REMOVE EXTRA DIMS FROM VIEW A	21728	REG	JC	DN			DRAINAGE PER ASME 11.4-2009 DIMENSIONAL UNLESS OTHERWISE SPECIFIED:	MATERIAL DIM SPEC: NOT APPLICABLE SIZE: 00000 Dwg NO:
3	05-09-14	B C 12-03-14 ADDED ADDITIONAL ROWS TO TABLE FOR Z0 UNITS 3 & 4 TON	44829	REG	RG	AJR			ONE PLACE DECIMAL: .1 TWO PLACE DECIMAL: .01 THREE PLACE DECIMAL: .001 DIMENSIONS ARE IN INCHES ANGLES: DEGREES	JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73069
4	10-24-16	CORRECTED 4 POINT CORNER LOAD TABLE, CORRECTED CORNER CALL OUTS ON PRINT	72AW	TRK	TRK	TRK				REV D 100FSS

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

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/FIRETAIL: 18 [450]
FRONT: 36 [900]
REAR: 18 [450] W/ECONOMIZER/POWER EXHAUST: 36 [900]
TOP: 72 [1800]
BOTTOM: 1 [25]
4. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES, CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
5. 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.
6. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
7. DIMENSIONS IN [] ARE IN MILLIMETERS OR KILOGRAMS.
8. OPTIONAL COIL GUARDS, GAS HEAT, DISCONNECT SWITCH SHOWN.
9. TOP PANEL EMBOSSEMENTS NOT SHOWN FOR DIMENSION CLARITY.
10. HEAT EXCHANGER IS TYPICAL OF HIGH GAS HEAT OPTION.

TOWNAGE	U N	OPERATING WEIGHT (LBS) T	CENTER OF GRAVITY (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	
3	KL	4087 (1210.2)	42 (1067)	27 (6663)	112 (50.8)	147 (66.7)	126 (57.2)	96 (43.6)
3	ML	4591.2 (1204.2)	38.3 (9321)	26.1 (6663)	121.2 (55)	117 (53.1)	104 (47.2)	107.7 (48.9)
4	ML	4871.2 (1221.0)	35.9 (912)	25.6 (6655)	131.1 (59.5)	123.6 (56.2)	113.2 (51.2)	119.4 (54.2)
3	KY	4881 (1218.2)	35.9 (904)	25.2 (6640)	127.4 (57.8)	118.4 (53.7)	112.8 (51.4)	121.8 (55.3)



REV	DATE	REVISION RECORD	EC NO	DR	CK	ENG	THIRD ANGLE PROJECTION	SHARPEN PER ASME 114.5-2003	TOLERANCES UNLESS OTHERWISE SPECIFIED:	TYPE, NOT APPLICABLE	MATERIAL	SAFETY AND RET.
A	02-20-24	NEW DRAWING (FROM 5901129)	10143	ECM	MLP	BY		DIMENSIONS PER ASME 114.5-2003 DIMENSIONS PER ASME 114.5-2003	DIMENSIONS PER ASME 114.5-2003 DIMENSIONS PER ASME 114.5-2003	TYPE, NOT APPLICABLE SIZE, 32.5" CAB	MATERIAL 6061-T6 ALUMINUM	SAFETY AND RET. 6061-T6 ALUMINUM
SUBMITTAL DATA DWG CORE 1 00P, 32.5" CAB												
JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73069												
REV. NO. 6482715 PART NO. 6482715												