

Project Name: **454B Stock**

Unit Model #: **KQG04E1A1AA1A111A1**

Quantity: **1**

System: **KQG04E1A1AA1A111A1**

Cooling Performance

Total gross capacity	37.0 MBH
Sensible gross capacity	27.3 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.	58.9 °F
Evap Coil Leaving WB temp.	57.3 °F
Unit Leaving DB temp.	60.2 °F
Unit Leaving WB temp.	57.7 °F
Leaving air temp dew point	56.30 °F
Power input (w/o blower)	2.50 kW
Sound power	79 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	3 lb 6 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	90.0 MBH
Supply air	1200 cfm
Heating input capacity (Max)	112 MBH
Leaving DB temp.	129.4 °F
Air temp. rise	69.4 °F
AFUE	81.0 %
Stages	1

Supply Air Blower Performance

Supply air	1200 cfm
Ext. static pressure	0.88 IWG
Blower speed	1156 rpm
Blower speed description	Hi
Duct location	Bottom
Motor rating	0.75 HP
Actual required BHP	0.75 HP
Power input	0.46 kW
Elevation	0 ft
Drive type	DIRECT

Electrical Data

Power supply	208-1-60	230-1-60
Unit min circuit ampacity	28.8 A	28.3 A
Unit min over-current protection	30 A	30 A
Unit max over-current protection	45 A	40 A

Dimensions & Weight

Hgt 33 in	Len 74 in	Wth 49 in
Weight with factory installed options		508 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



3 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
- Standard Static Direct 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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Power supply	208-1-60
Unit min circuit ampacity	28.8 A
Unit max over-current protection	45 A
Min Voltage	187 V
Max Voltage	252 V
Comp #1 RLA	16.7
Comp #1 LRA	93.5
Indoor Mtr Voltage	208-1-60
Indoor Mtr FLA	6.6
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)	208-1-60
Power Ex Mtr FLA (ea) (if applicable)	1.5
Combustion Mtr Qty	1
Combustion Motor Voltage	208/230-1-60
Combustion Mtr FLA (ea)	0.5



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Quantity: 1

System: KQG04E1A1AA1A111A1

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:	04	3 Ton Single Stage Cooling 14.0 SEER2 / 12.0 EER2
Heat Size:	E	112 MBH Single Stage Input Medium Heat Aluminized Gas
Voltage:	1	208/230-1-60
Airflow:	A	Standard Static Direct 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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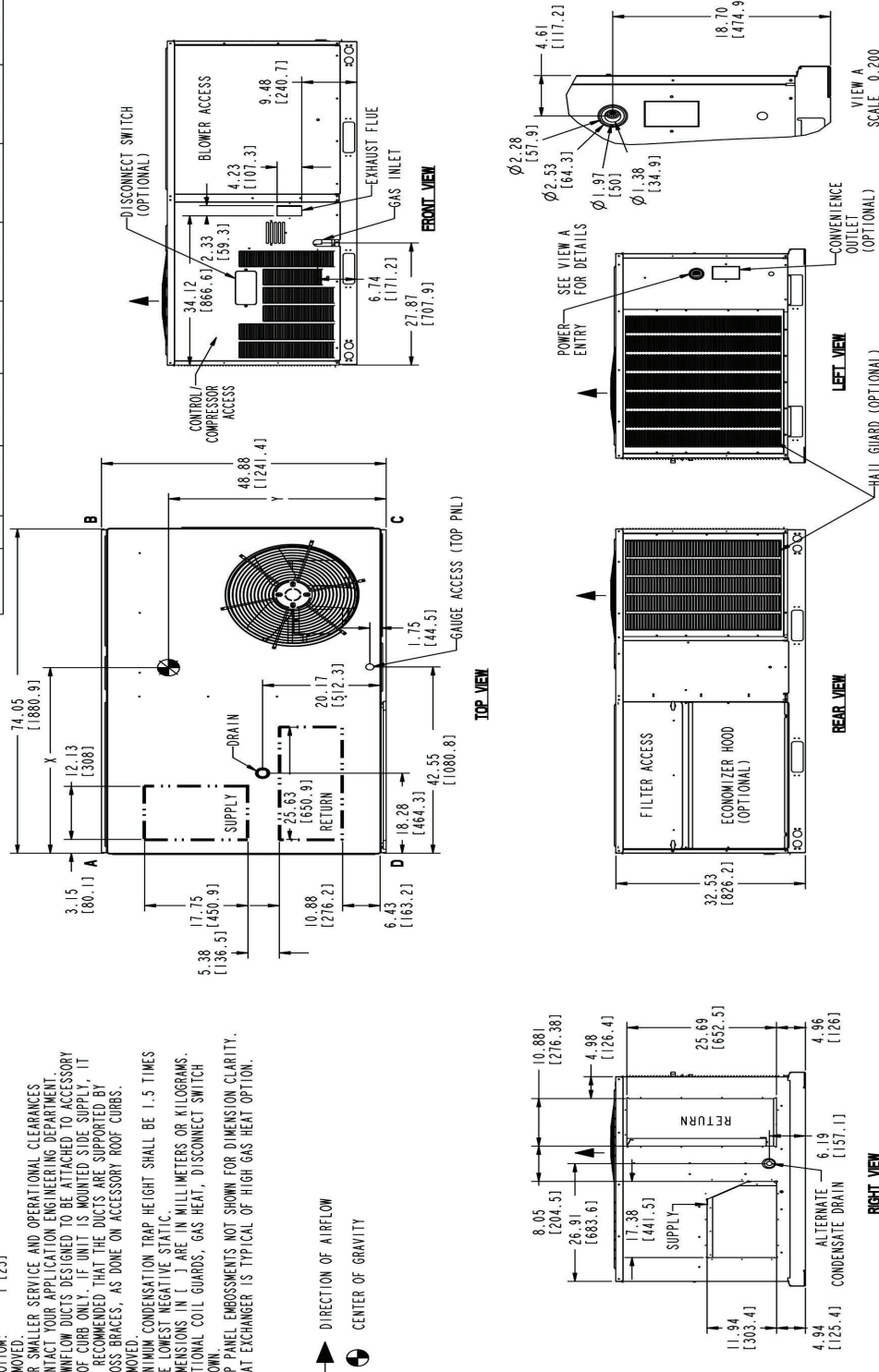
Quantity: 1

ZQ 04-05 Unit Dimensions

ZQ04-05

TONNAGE	U N I T	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTERS OF GRAVITY LOCATION (BASE UNIT)			4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D	
3	24	469 [212.7]	36.5 [1827]	25.5 [1248]	122.7 [55.7]	119.8 [54.3]	111.8 [50.7]	114.5 [52]	
4	24	498 [225.9]	36.1 [1817]	25 [1235]	129.1 [58.6]	118.9 [54.4]	113.3 [51.7]	125.5 [57]	
5	24	530 [240.4]	36.1 [1817]	24.1 [1212]	132.5 [60.1]	126.5 [57.4]	132.3 [60]	138.5 [62.9]	
3	27	481 [218.2]	35.6 [1804]	25.2 [1240]	127.4 [57.7]	118.4 [54.4]	113.2 [51.4]	121.8 [55.3]	
3	20	450.2 [204.2]	36.3 [1822]	26.1 [1263]	121.2 [55]	117 [53.1]	104.4 [47.2]	107.7 [48.9]	
4	20	487.2 [221.0]	35.9 [1812]	25.9 [1248]	131.1 [59.5]	123.8 [56.2]	112.8 [51.2]	119.4 [54.2]	

- NOTES:
- FOR OUTDOOR USE ONLY.
 - WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
 - RECOMMENDED MIN. CLEARANCES:
 - RIGHT SIDE: 18 [450] WIDE CONDENSATE DRAIN: 24 [600]
 - LEFT SIDE: 12 [300] W/P DRAIN: 18 [450]
 - FRONT: 36 [900]
 - REAR: 18 [450] W/ECONOMIZER/POWER EXHAUST: 36 [900]
 - TOP: 72 [1800]
 - BOTTOM: 1 [25]
 - REMOVED.
 - FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES
 - CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT
 - 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.
 - REMOVED.
 - MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
 - DIMENSIONS IN () ARE IN MILLIMETERS OR KILOGRAMS.
 - OPTIONAL COIL GUARDS, GAS HEAT, DISCONNECT SWITCH, SHOWN.
 - TOP PANEL EMBOSSEMENTS NOT SHOWN FOR DIMENSION CLARITY.
 - HEAT EXCHANGER IS TYPICAL OF HIGH GAS HEAT OPTION.



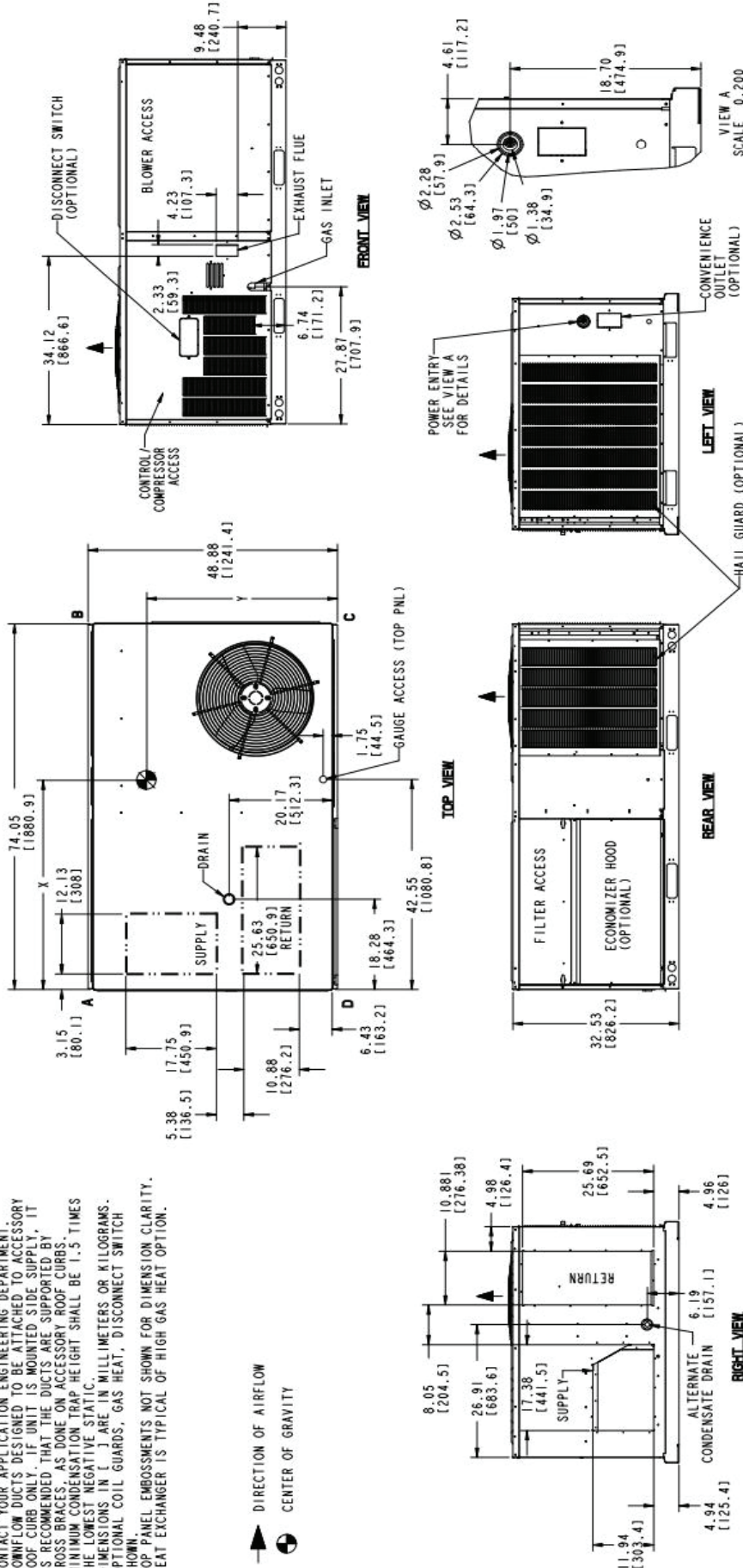
REV	DATE	REVISION RECORD	EC NO	DR	CK	ENG	THIRD ANGLE PROJECTION	DRIVING PER ASME Y14.5-2009	SUBMITTAL DWG, COR	UNITARY PRODUCTS GROUP	JOHNSON CONTROLS	UNIT-COR-100FSS	REV
A	09-13-13	NEW DRAWING	27375	RGG	JC	DW	THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION	1	100F	JOHNSON CONTROLS	UNIT-COR-100FSS	D
B	12-03-14	REVISE CLEARANCES (NOTE 3). REMOVE EXTRA DIMS FROM VIEW A	37320	RGG	TPS	AJR	THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION	1	100F	JOHNSON CONTROLS	UNIT-COR-100FSS	D
C	05-09-16	ADDED ADDITIONAL ROWS TO TABLE FOR 20 UNITS 3 & 4 TON	44829	HG	RG	AJR	THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION	1	100F	JOHNSON CONTROLS	UNIT-COR-100FSS	D
D	10-24-16	CORRECTED 4 POINT CORNER LOAD TABLE. CORRECTED CORNER CALL OUTS ON PRINT		ZAW	TR	TR	THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION	1	100F	JOHNSON CONTROLS	UNIT-COR-100FSS	D

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Submittal

3. RECOMMENDED MIN CLEARANCES:
RIGHT SIDE: 18 [450] W/SIDE CONDENSATE DRAIN: 24 [600]
LEFT SIDE: 12 [300] W/PIT/TAIL: 16 [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 1 ARE IN MILLIMETERS OR KILOGRAMS.
8. OPTIONAL COIL GUARDS, GAS HEAT, DISCONNECT SWITCH
SHOWN.
9. TOP PANEL EMOSSMENTS NOT SHOWN FOR DIMENSION CLARITY.
10. HEAT EXCHANGER IS TYPICAL OF HIGH GAS HEAT OPTION.

Tonnage		Operating Weight (LBS) (BASE UNIT)	Center of Gravity Location (BASE UNIT)		4 Point Corner Loads (LBS) (BASE UNIT)			
W	H		X	Y	A	B	C	D
3	KL	481 (1218.2)	42 (1067)	27 (686)	112 (50.8)	147 (66.7)	126 (57.2)	96 (43.6)
3	KL	450.2 (1204.2)	36.3 (922)	26.1 (663)	121.2 (55)	117 (53.1)	104 (47.2)	107.7 (48.9)
4	KQ	487.2 (1221.0)	35.9 (912)	25.5 (655)	131.1 (59.5)	123.8 (56.2)	112.8 (51.2)	119.4 (54.2)
3	KV	481 (1218.2)	35.5 (904)	25.2 (647)	127.4 (57.8)	118.4 (53.7)	112.5 (51.4)	121.8 (55.3)

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