

Project Name: **454B Stock**

Unit Model #: **KYG12E4B3AA5A111A1**

Quantity: **1**

System: **KYG12E4B3AA5A111A1**

Cooling Performance

Total gross capacity	127.9 MBH
Sensible gross capacity	93.6 MBH
Efficiency (at ARI)	12.00 EER
Integrated eff. (at ARI)	14.80 IEER
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.	56.8 °F
Unit Leaving DB temp.	60.0 °F
Unit Leaving WB temp.	57.5 °F
Leaving air temp dew point	55.80 °F
Power input (w/o blower)	8.40 kW
Sound power	87 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	5 lb 6 oz
Sys2	5 lb 10 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	176.0 MBH
Supply air	4000 cfm
Heating input capacity (Max)	220 MBH
Leaving DB temp.	100.7 °F
Air temp. rise	40.7 °F
SSE	80.0 %
Stages	2

Supply Air Blower Performance

Supply air	4000 cfm
Ext. static pressure	0.6 IWG
Blower speed	837 rpm
Max BHP of Motor (including service factor)	3.70 HP
Duct location	Bottom
Motor rating	3.70 HP
Actual required BHP	2.19 HP
Power input	2.04 kW
Elevation	0 ft
Drive type	BELT

Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	25 A
Unit min over-current protection	30 A
Unit max over-current protection	30 A

Dimensions & Weight

Hgt 55 in	Len 87 in	Wth 62 in
Weight with factory installed options	1018 lb	

Clearances

Right	18 in	Front	48 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
- Two Stage Cooling
- 220 MBH Two 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: 4 - (20" x 20"). 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

10 Ton

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

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	25 A
Unit max over-current protection	30 A
Min Voltage	432 V
Max Voltage	504 V
Comp #1 RLA	7.1
Comp #1 LRA	69.0
Comp #2 RLA	7.1
Comp #2 LRA	69.0
Indoor Mtr Voltage	460-3-60
Indoor Mtr FLA	6.1
Outdoor Mtr Qty	1
Outdoor Fan Voltage	460-3-60
OD Fan Mtr FLA (ea.)	2.9
Power Ex Mtr Qty (if applicable)	2
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:	KY	York Sun Core Single Packaged R-454B Air Conditioner
Heat Type:	G	Gas Heat
Nominal Cooling Capacity:	12	10 Ton Two Stage Cooling 12.0 EER
Heat Size:	E	220 MBH Two Stage Input Medium Heat Aluminized Gas
Voltage:	4	460-3-60
Airflow:	B	Medium Static Belt Drive Blower
Airflow Options:	3	VFD IntelliSpeed
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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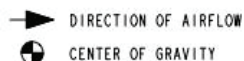
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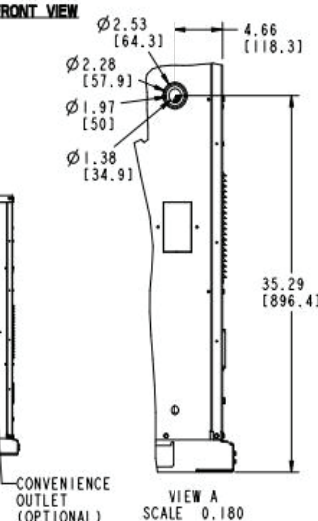
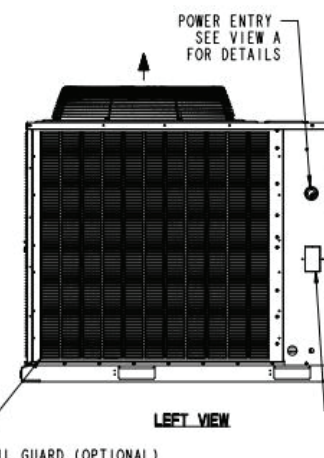
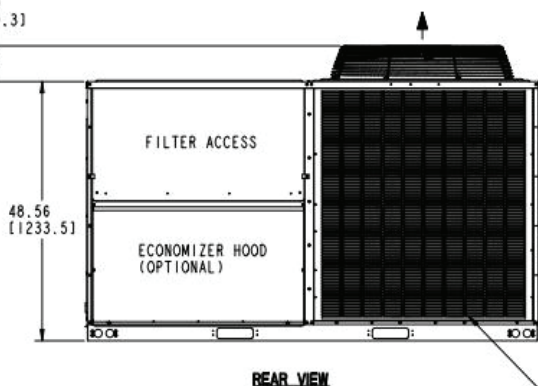
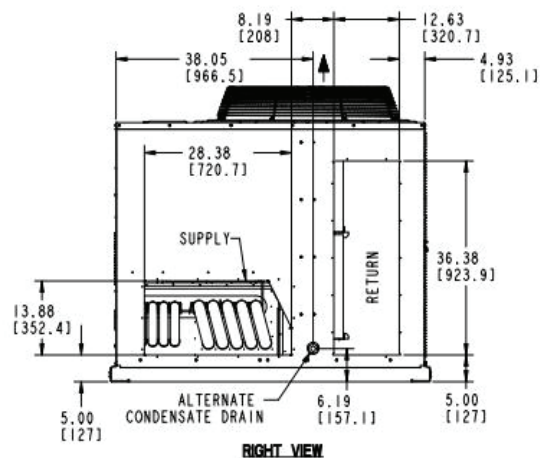
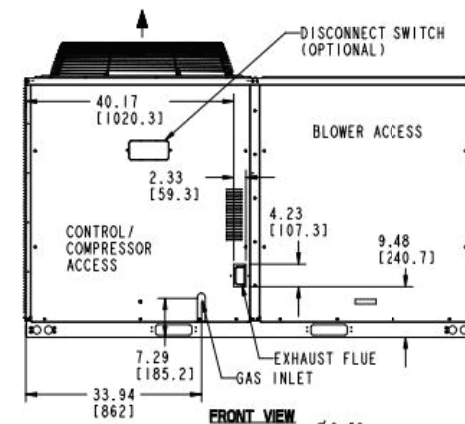
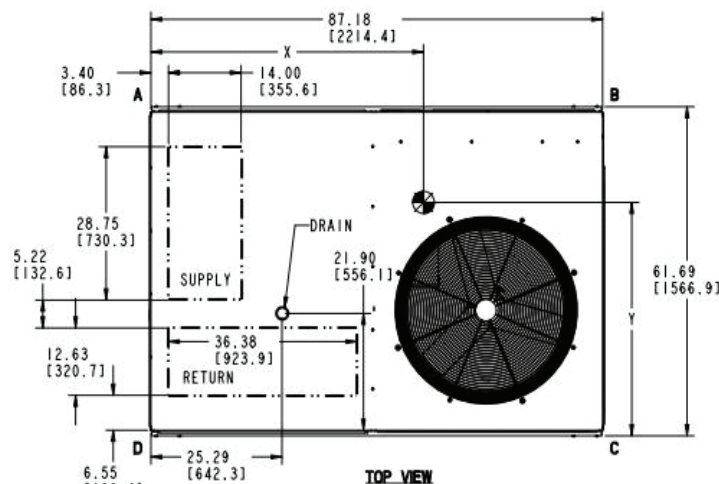
Submittal

NOTES:

- FOR OUTDOOR USE ONLY.
- WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
- RECOMMENDED MIN. CLEARANCES:
RIGHT SIDE: 18 [450] W/SIDE CONDENSATE DRAIN: 24 [600]
LEFT SIDE: 12 [300] W/PIGTAIL: 18 [450]
FRONT: 48 [1200]
REAR: 18 [450] W/ECONOMIZER/POWER EXHAUST: 36 [900]
TOP: 72 [1800]
BOTTOM: 1 [25]
- 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.
- 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.



TONNAGE	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
10	KL	955 [433.2]	45.8 [1163.3]	35.4 [899.2]	258.2 [117.1]	287.1 [130.2]	215.7 [97.8]	194.0 [88.0]
12.5	KL	980 [444.5]	44 [1117.6]	35.4 [899.2]	276.6 [125.5]	283.0 [128.4]	212.6 [96.4]	207.8 [94.3]
10	KY	902 [409.1]	46.8 [1189]	35.5 [902]	238.6 [108.2]	277.8 [126]	207.3 [94.1]	178.1 [80.8]



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 THIS PRINT IN WHOLE OR IN PART OR DISCLOSE ANY OF THE INFORMATION HEREON TO OTHERS WITHOUT WRITTEN RELEASE BY JOHNSON CONTROLS	SAFETY AND KEY CHARACTERISTICS PER RE-PP-STR-51
A	04-18-24	NEW DRAWING (FROM 5901140)	101151	RCH	MLP	BV		DRAWING PER ASME Y14.5-2009 TOLERANCES UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL = ± .1 TWO PLACE DECIMAL = ± .03 THREE PLACE DECIMAL = ± .010 ANGLES = ± 2° DIMENSIONS ARE IN INCHES DO NOT SCALE PRINT	TYPE NOT APPLICABLE ENG SPEC NOT APPLICABLE MATERIAL NOT APPLICABLE
SUBMITTAL DATA DWG, CORE 1 ODF, 48.5" CAB								JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73069	REV A
SCALE 0.090								6504492	REV A