

Project Name: **small sunline**

Unit Model #: **KE048H12B4AAAAA1A1**

Quantity: **1**

System: **KE048H12B4AAAAA1A1**

Cooling Performance

Total gross capacity	53.4 MBH
Sensible gross capacity	37.3 MBH
Seasonal Efficiency (at ARI)	13.40 SEER2
Efficiency (at ARI)	EER
Efficiency (at ARI)	11.20 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.	56.4 °F
Unit Leaving DB temp.	59.8 °F
Unit Leaving WB temp.	56.9 °F
Leaving air temp dew point	55.10 °F
Power input (w/o blower)	3.60 kW
Sound power	80 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	4 lb 4 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	100.0 MBH
Supply air	1600 cfm
Heating input capacity (Max)	125 MBH
Leaving DB temp.	117.9 °F
Air temp. rise	57.9 °F
SSE	80.0 %
Stages	1

Supply Air Blower Performance

Supply air	1600 cfm
Ext. static pressure	0.6 IWG
Blower speed	984 rpm
Max BHP of Motor (including service factor)	1.73 HP
Duct location	Bottom
Motor rating	1.50 HP
Actual required BHP	0.76 HP
Power input	0.71 kW
Elevation	0 ft
Drive type	BELT

Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	10.7 A
Unit max over-current protection	15 A

Dimensions & Weight

Hgt 33 in	Len 83 in	Wth 45 in
Weight with factory installed options	678 lb	

Clearances

Right	24 in	Front	32 in	Rear	12 in
Top	72 in	Bottom	0 in	Left	24 in

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



Unit Features

- Refrigerant Detection System (RDS) is Factory Installed
- Single Stage Gas Aluminum Steel
- Single Stage Cooling
- 125 MBH Input
- 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 Compressor
- 1.5 HP Standard Static Belt Drive Blower
- Unit Ships with 1" Throwaway Filters
- Solid Core Liquid Line Filter Driers
- Replacement Filters: 2 - (15" x 20" x 1" or 2") and 1 - (14" x 25" x 1" or 2"). Unit accepts 1" or 2" wide filters.
- Single Point Power Connection
- Through-the-Curb and Through-The-Base Utility Connections
- Short Circuit Current: 5kA RMS Symmetrical
- Microchannel All Aluminum Condenser Coil, Copper tube/Aluminum fin Evaporator Coil
- Galvanized Steel Drain Pan
- Standard Access Doors

4 Ton

- York 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: Smart Equipment Control Board

- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan On and Fan off Delays, Low Voltage Protection, On-Board Diagnostic and Fault Code Display. 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.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements
- Ten (10) Year Warranty - Aluminized Heat Exchanger

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Power supply	460-3-60
Unit min circuit ampacity	10.7 A
Unit max over-current protection	15 A
Min Voltage	432 V
Max Voltage	504 V
Comp #1 RLA	6.0
Comp #1 LRA	49.4
Indoor Mtr Voltage	460-3-60
Indoor Mtr FLA	2.1
Outdoor Mtr Qty	1
Outdoor Fan Voltage	460-1-60
OD Fan Mtr FLA (ea.)	1.1
Combustion Mtr Qty	1
Combustion Motor Voltage	208/230-1-60
Combustion Mtr FLA (ea)	0.8

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Factory Installed Options

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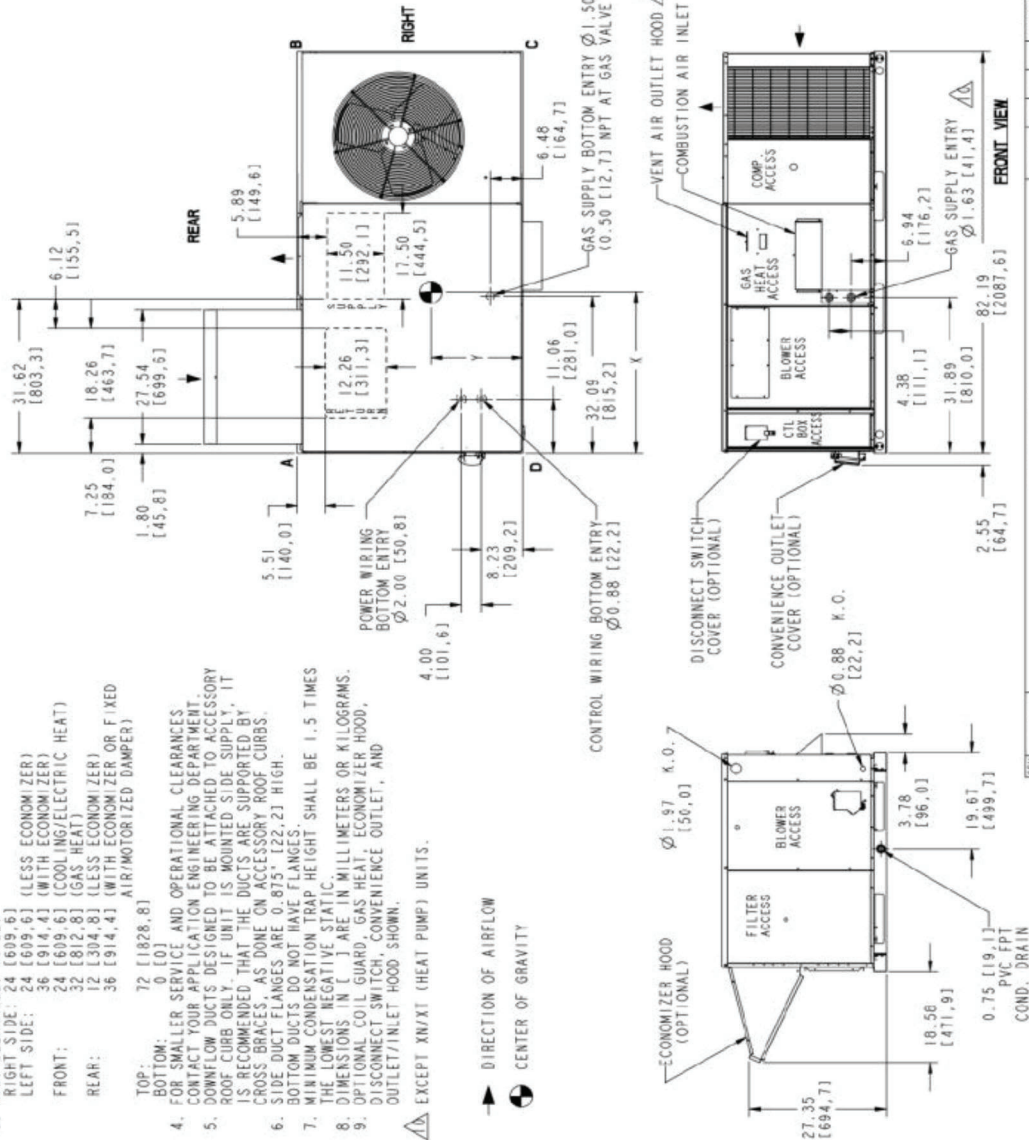
Equipment Options		Option(s) Selected
Product Category:	KE	Single Packaged R-454B Air Conditioner 11.2 EER2 / 13.4 SEER2
Nominal Cooling Capacity:	048	4 Ton Single Stage Cooling
Heat Type and Nominal Heat Capacity:	H12	Single Stage Gas Aluminum Steel 125 MBH Input
Blower Option:	B	1.5 HP Standard Static Belt Drive Blower
Voltage:	4	460-3-60
Outside Air Option:	A	
Service Options:	A	
Sensor Options:	A	Refrigerant Detection System
Controls:	A	Smart Equipment Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors.
Refrigeration:	A	Microchannel All Aluminum Condenser Coil, Copper tube/Aluminum fin Evaporator Coil
Additional Options:	1	1" Throwaway Filters
Cabinet Options:	A	Galvanized Steel Drain Pan Standard Access Doors
Product Generation:	1	

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NOTES:

1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE IN KILOGRAMS.
3. MIN. CLEARANCES TO BE:
RIGHT SIDE: 24 (609.6)
LEFT SIDE: 24 (609.6)
FRONT: 26 (660.4) (LESS ECONOMIZER)
26 (660.4) (WITH ECONOMIZER)
32 (812.8) (COOLING/ELECTRIC HEAT)
32 (812.8) (GAS HEAT)
REAR: 12 (304.8) (LESS ECONOMIZER)
36 (914.4) (WITH ECONOMIZER OR FIXED AIR/MOTORIZED DAMPER)
TOP: 72 (1828.8)
BOTTOM: 0 (0)
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. SIDE DUCT FLANGES ARE 0.875" x 122.21 HIGH.
7. BOTTOM DUCTS DO NOT HAVE FLANGES.
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 GUARD, GAS HEAT, ECONOMIZER HOOD, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND OUTLET/INLET HOOD SHOWN.



N	U	N	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	AC	470	(213)	34.5	(876.3)	18.25	(463.6)	111	(530)	80	(336)	117	(533)	162	(733)
4	AC	598	(271)	36.5	(914.4)	18.50	(449.9)	139	(663)	106	(449)	154	(701)	198	(903)
5	AC	632	(287)	37.5	(958.5)	18.62	(462.9)	139	(663)	117	(533)	171	(780)	204	(933)
6	AC	655	(302)	35.5	(901.7)	17.75	(450.8)	150	(668)	114	(521)	173	(783)	228	(1033)
3	HP	610	(217)	38.3	(932.8)	18.75	(476.3)	136	(662)	119	(534)	165	(755)	190	(866)
4	HP	616	(279)	38.2	(970.3)	18.4	(467.4)	135	(661)	117	(533)	169	(771)	195	(888)
5	HP	620	(281)	38.6	(980.4)	18	(457.2)	132	(660)	117	(533)	171	(779)	197	(893)

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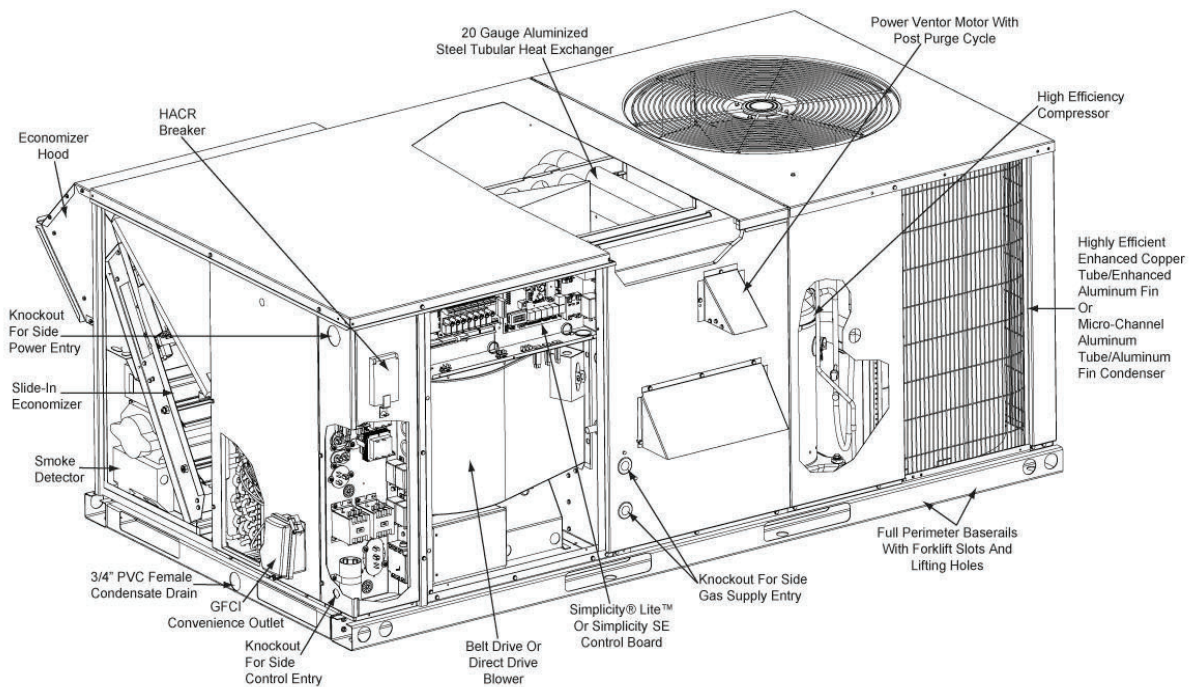
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Component Location

Component Location

Gas/Electric



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Typical Application

