

Project Name: **small sunline**

Unit Model #: **KE036H10A1A1AAA1A1**

Quantity: **1**

System: **KE036H10A1A1AAA1A1**

Cooling Performance

Total gross capacity	38.2 MBH
Sensible gross capacity	27.4 MBH
Seasonal Efficiency (at ARI)	13.40 SEER2
Efficiency (at ARI)	EER
Efficiency (at ARI)	11.40 EER2
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Evap Coil Leaving DB temp.	59.8 °F
Evap Coil Leaving WB temp.	57.5 °F
Unit Leaving DB temp.	60.7 °F
Unit Leaving WB temp.	57.8 °F
Leaving air temp dew point	56.00 °F
Power input (w/o blower)	2.60 kW
Sound power	81 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	3 lb 10 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	80.0 MBH
Supply air	1259 cfm
Heating input capacity (Max)	100 MBH
Leaving DB temp.	118.8 °F
Air temp. rise	58.8 °F
AFUE	81.0 %
Stages	1

Supply Air Blower Performance

Supply air	1259 cfm
Ext. static pressure	0.6 IWG
Blower speed	861 rpm
Blower speed description	MED/HI
Duct location	Bottom
Motor rating	0.75 HP
Actual required BHP	0.34 HP
Power input	0.32 kW
Elevation	0 ft
Drive type	DIRECT
Speed tap	4

Electrical Data

Power supply	208-1-60	230-1-60
Unit min circuit ampacity	29.2 A	29.5 A
Unit max over-current protection	40 A	40 A

Dimensions & Weight

Hgt 33 in	Len 83 in	Wth 45 in
Weight with factory installed options		535 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



3 Ton

- York Units are Manufactured at an ISO 9001 Registered Facility and Each Rooftop is Completely Computer-Run Tested Prior to Shipment.

Unit Features

- Single Stage Gas Aluminum Steel
- Single Stage Cooling
- 100 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
- Solid Core Liquid Line Filter Driers
- Unit Ships with 1" Throwaway Filters
- 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

Standard Unit Controller: Smart Equipment Control Board

- 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.
- 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.

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 and Electric Heater Elements
- Ten (10) Year Warranty - Aluminized Heat Exchanger

Project Name: **small sunline**Unit Model #: **KE036H10A1A1AAA1A1**Quantity: **1**System: **KE036H10A1A1AAA1A1****Additional Electrical Data**

Power supply	208-1-60
Unit min circuit ampacity	29.2 A
Unit max over-current protection	40 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
Outdoor Mtr Qty	1
Outdoor Fan Voltage	208-1-60
OD Fan Mtr FLA (ea.)	2.3
Combustion Mtr Qty	1
Combustion Motor Voltage	208/230-1-60
Combustion Mtr FLA (ea)	0.8

Project Name: **small sunline**

Unit Model #: **KE036H10A1A1AAA1A1**

Quantity: **1**

System: **KE036H10A1A1AAA1A1**

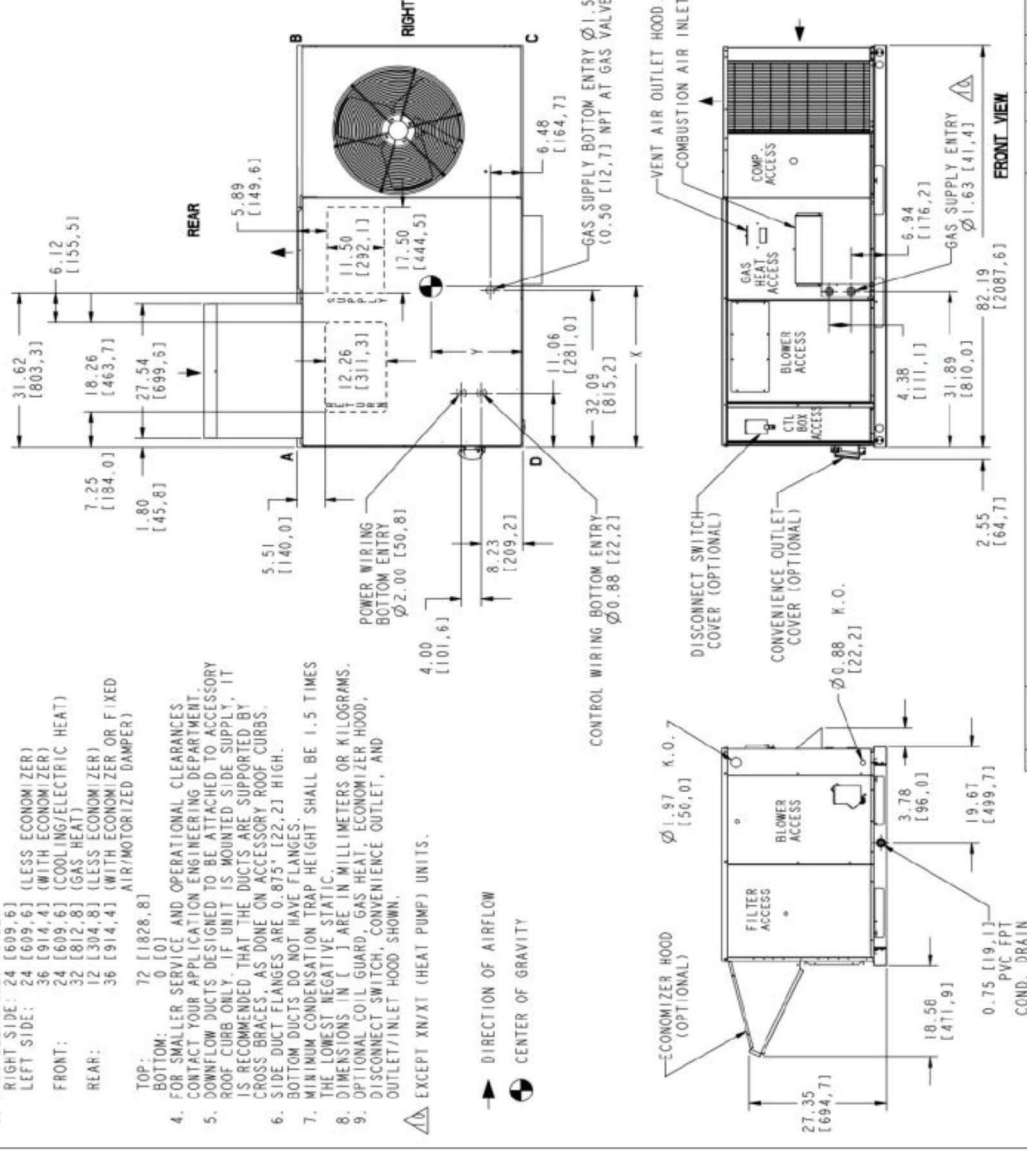
Factory Installed Options

KE036H10A1A1AAA1A1

Equipment Options		Option(s) Selected
Product Category:	KE	Single Packaged R-454B Air Conditioner DOE FER Compliant 11.4 EER2 / 13.4 SEER2
Nominal Cooling Capacity:	036	3 Ton Single Stage Cooling
Heat Type and Nominal Heat Capacity:	H10	Single Stage Gas Aluminum Steel 100 MBH Input
Blower Option:	A	Direct Drive
Voltage:	1	208/230-1-60
Outside Air Option:	A	
Service Options:	1	
Sensor Options:	A	
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	

NOTES:

1. FOR OUTDOOR USE ONLY
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
RIGHT SIDE: 24 [609.6]
LEFT SIDE: 24 [609.6] (LESS ECONOMIZER)
24 [609.6] (WITH ECONOMIZER)
FRONT: 24 [609.6] (COOLING/ELECTRIC HEAT)
25 [612.8] (GAS HEAT)
REAR: 12 [304.8] (LESS ECONOMIZER)
12 [304.8] (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" T22, 21 HIGH.
7. BOTTOM DUCTS DO NOT HAVE FLANGES.
8. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC HEAD.
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 TONNAGE	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 (463.5)	111 (509)	80 (36)	117 (53)	162 (73)
4	AC	598 (271)	36 (914.4)	18.50 (469.9)	139 (63)	108 (49)	154 (70)	198 (90)
5	AC	632 (287)	37.5 (952.5)	18.2 (462.3)	139 (63)	117 (53)	171 (78)	204 (93)
6	AC	665 (302)	35.5 (901.7)	17.75 (450.8)	150 (68)	114 (52)	173 (78)	228 (103)
3	HP	610 (271)	36.25 (912.8)	18.75 (476.3)	136 (62)	118 (54)	165 (75)	190 (86)
4	HP	616 (219)	36.2 (970.3)	18.4 (457.4)	135 (61)	117 (53)	169 (77)	195 (88)
5	HP	620 (281)	36.6 (980.4)	18 (457.2)	132 (60)	117 (53)	171 (78)	197 (91)

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 TO DISCLOSE ANY OF THE INFORMATION CONTAINED HEREIN TO ANY OTHER WITHOUT WRITTEN RELEASE BY JOHNSON CONTROLS			SAFETY AND NEW CHARACTERISTICS PER (1910-201-201-2)	
A	12-21-10	NEW DRAWING				---	---	LO	ROH	KMC				EXAMINE PER ARIE 114-5-1009 EXAMINATION PER ARIE 114-5-1009 TOLERANCES UNLESS OTHERWISE SPECIFIED		TYPE: NOT APPLICABLE ENG SPEC: NOT APPLICABLE SIZE:		
B	09-08-11	CHANGED OPERATING & CORNER WEIGHTS FOR 3, 4 & 5 (GEN 2)				19176	LO	ROH	KMC				ONE PLACE DECIMAL = ± .1 TWO PLACE DECIMAL = ± .03 THREE PLACE DECIMAL = ± .009 ANGLES ARE IN DEGREES DIMENSIONS ARE IN INCHES DO NOT SCALE PRINT		SUBMITTAL DWG: SW SUNLINE, 3-6 TONS			
C	11-25-14	ADDED Z17ZD XXN/XT MODELS				30683	LO	ROH	KMC				ONE PLACE DECIMAL = ± .1 TWO PLACE DECIMAL = ± .03 THREE PLACE DECIMAL = ± .009 ANGLES ARE IN DEGREES DIMENSIONS ARE IN INCHES DO NOT SCALE PRINT		JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73869			
D	07-30-18	ADDED Z17ZD 6 TON MODEL & REMOVED OBSOLETE DATA				60489	SMD	LOP	CB				ONE PLACE DECIMAL = ± .1 TWO PLACE DECIMAL = ± .03 THREE PLACE DECIMAL = ± .009 ANGLES ARE IN DEGREES DIMENSIONS ARE IN INCHES DO NOT SCALE PRINT		JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73869			

Project Name: **small sunline**

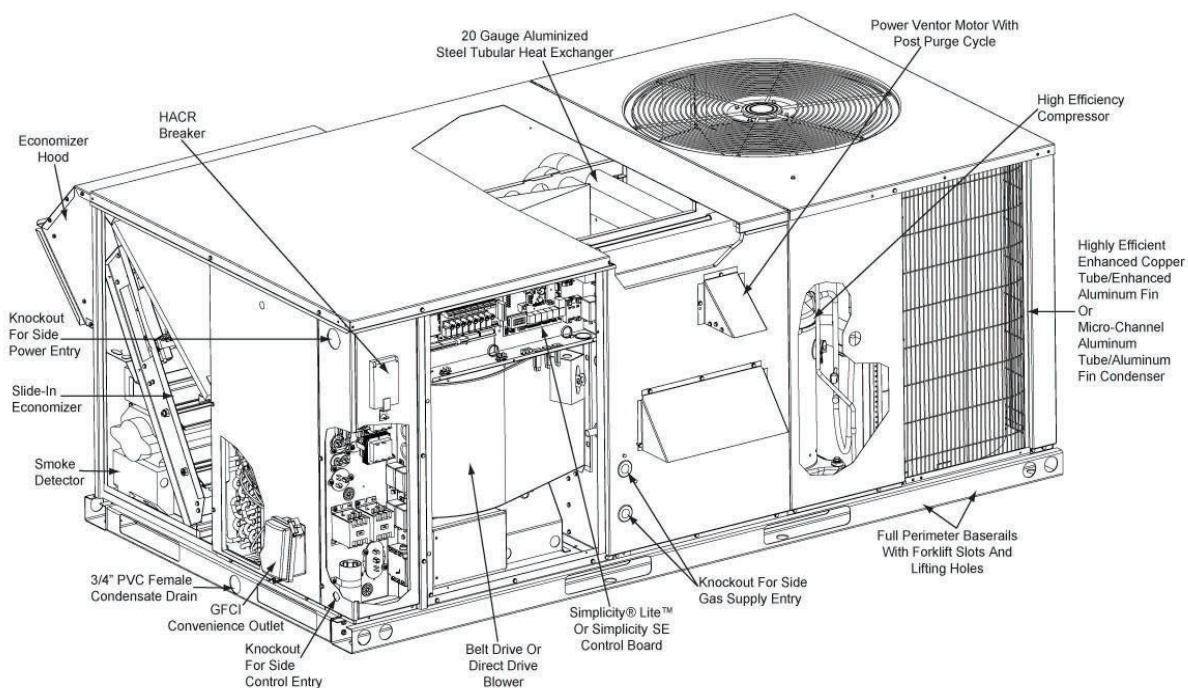
Unit Model #: **KE036H10A1A1AAA1A1**

Quantity: **1**

Component Location

Component Location

Gas/Electric



Project Name: **small sunline**

Unit Model #: **KE036H10A1A1AAA1A1**

Quantity: 1

Typical Application

