

Project Name: **6 ton**

Unit Model #: **KE072H12B2AAAAA1A1**

Quantity: **1** Tag #: **6 ton 208/230/3**

System: **KE072H12B2AAAAA1A1**

Cooling Performance

Total gross capacity	76.0 MBH
Sensible gross capacity	54.4 MBH
Efficiency (at ARI)	11.20 EER
Integrated eff. (at ARI)	16.00 IEER
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Evap Coil Leaving DB temp.	59.0 °F
Evap Coil Leaving WB temp.	57.0 °F
Unit Leaving DB temp.	60.7 °F
Unit Leaving WB temp.	57.7 °F
Leaving air temp dew point	55.70 °F
Power input (w/o blower)	5.10 kW
Sound power	83 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	5 lb 14 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	100.0 MBH
Supply air	2400 cfm
Heating input capacity (Max)	125 MBH
Leaving DB temp.	98.6 °F
Air temp. rise	38.6 °F
SSE	80.0 %
Stages	1

Supply Air Blower Performance

Supply air	2400 cfm
Ext. static pressure	0.6 IWG
Blower speed	1156 rpm
Max BHP of Motor (including service factor)	1.73 HP
Duct location	Bottom
Motor rating	1.50 HP
Actual required BHP	1.52 HP
Power input	1.31 kW
Elevation	0 ft
Drive type	BELT

Electrical Data

Power supply	208-3-60	230-3-60
Unit min circuit ampacity	37.4 A	37.4 A
Unit max over-current protection	50 A	50 A

Dimensions & Weight

Hgt 33 in	Len 83 in	Wth 45 in
Weight with factory installed options		735 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
- Two Stage Cooling / Intellispeed w/VFD Standard
- 125 MBH Input
- 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
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 750 Hours Salt Spray Test (ASTM B-117 Standards)
- 1.5 HP Standard Static Belt Drive Blower
- 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

6 Ton

- York 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

- 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.

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



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Additional Electrical Data

Power supply	208-3-60
Unit min circuit ampacity	37.4 A
Unit max over-current protection	50 A
Min Voltage	187 V
Max Voltage	252 V
Comp #1 RLA	19.2
Comp #1 LRA	162.3
Indoor Mtr Voltage	208-3-60
Indoor Mtr FLA	9
Outdoor Mtr Qty	1
Outdoor Fan Voltage	208-1-60
OD Fan Mtr FLA (ea.)	4.4
Combustion Mtr Qty	1
Combustion Motor Voltage	208/230-1-60
Combustion Mtr FLA (ea)	0.8

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Factory Installed Options

KE072H12B2AAAAA1A1

Equipment Options		Option(s) Selected
Product Category:	KE	Single Packaged R-454B Air Conditioner 11.2 EER
Nominal Cooling Capacity:	072	6 Ton Two Stage Cooling / Intellispeed w/VFD Standard
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:	2	208/230-3-60
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	

Unit Model #: KE072H12B2AAAAA1A1

Quantity: 1 Tag #: 6 ton 208/230/3	Consolidated Drawing
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NOTES.

1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
RIGHT SIDE: 54 [609.6] (LESS ECONOMIZER)
54 [609.6] (WITH ECONOMIZER)
36 [914.4] (COOLING/ELECTRIC HEAT)
FRONT: 24 [609.6] (COOLING/ELECTRIC HEAT)
24 [609.6] (LESS ECONOMIZER)
REAR: 12 [304.8] (LESS ECONOMIZER)
12 [304.8] (WITH ECONOMIZER OR FIXED AIR/MOTORIZED DAMPER)
36 [914.4] (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" [22.2] HIGH.
DOWNFLOW DUCTS DO NOT HAVE FLANGES.
7. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
8. DIMENSIONS IN [] ARE IN MILLIMETERS OR KILOGRAMS.
9. OPTIONAL COIL GUARD GAS HEAT ECONOMIZER HOOD, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND OUTLET/INLET HOOD SHOWN.

Technical drawing of a roof curb assembly, showing top and side views with dimensions and labels.

Labels:

- REAR
- RIGHT
- POWER WIRING BOTTOM ENTRY Ø2.00 [50,8]
- CONTROL WIRING BOTTOM ENTRY Ø0.88 [22,2]
- GAS SUPPLY BOTTOM ENTRY Ø1.5 (0.50 [12,7] NPT AT GAS VALVE)

Dimensions (mm):

- 5.51 [140,0]
- 12.26 [311,3]
- 11.50 [292,1]
- 17.50 [444,5]
- 6.48 [164,7]
- 11.06 [281,0]
- 32.08 [815,2]
- 8.23 [209,2]
- 4.00 [101,6]

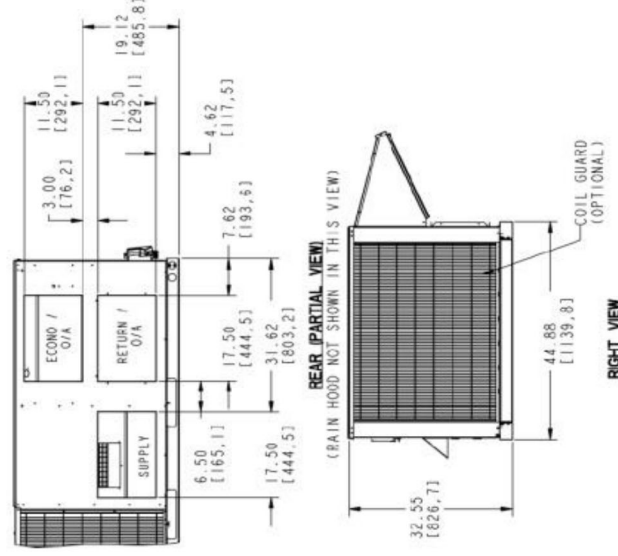
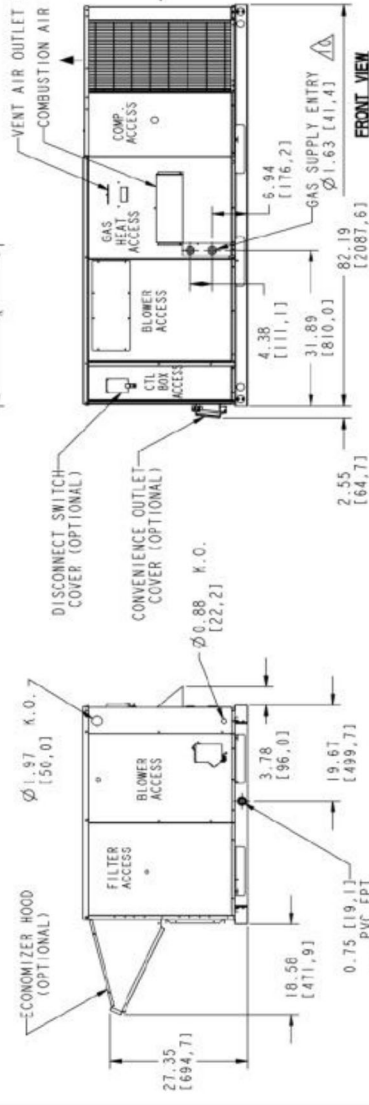
Notes:

- FOR SMALLER SERVICE AND VENTILATIONAL CLEARANCES, CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
- DOWN COMB 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.
- SIDE DUCT FLANGES ARE 0.675" [17,2] HIGH.
- BOTTOM DUCTS DO NOT HAVE FLANGES.
- MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC HEAD IN MILLIMETERS OR KILOGRAMS.
- DIMENSIONS IN [] ARE IN MILLIMETERS OR KILOGRAMS.
- OPTIONAL COIL GUARD, GAS HEAT ECONOMIZER ROOF, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND OUTLET/INLET HOOD SHOWN.
- EXCEPT NX/XT (HEAT PUMP) UNITS.

Direction of Airflow: Indicated by a triangle pointing right.

Center of Gravity: Indicated by a circle with a crosshair.

—▲— DIRECTION OF AIRFLOW
● CENTER OF GRAVITY



REV	DATE	REVISION RECORD	EC	NO	DR	CK	ENG	THIRD ANGLE PROJECTION	ALL PREPARED PARTS BEING RECEIVED AND NO PERMISSION IS GRANTED TO REPRODUCE THIS PRINT IN WHOLE OR IN PART OR DISCLOSE ANY INFORMATION FROM IT TO OTHERS WITHOUT WRITTEN RELEASE BY JOHNSON CONTROLS	SAFETY AND EYE CHARACTERISTICS PER (B-200, STD-4)
A	12-21-10	NEW DRAWING	19176	10	RCF	KAC			DRAWING PER ASME Y14.5-2009	
B	09-08-11	CHANGED OPERATING & CORNER WEIGHTS FOR 3, 4 & 5T (GEN 2)	19176	10	RCF	KAC			DRAWING PER ASME Y14.5-2009	
C	11-25-14	ADDED ZF7ZD 8MMX4T MODELS	30683	10	ROH	KAC			DRAWING PER ASME Y14.5-2009	
D	07-30-18	ADDED ZF7ZD 6 TON MODEL & REMOVED OBSOLETE DATA	60489	SMO	LDP	CB			DRAWING PER ASME Y14.5-2009	

ONE PLACE DECIMAL: ± .1

TWO PLACE DECIMAL: ± .010

THREE PLACE DECIMAL: ± .010

ANGLES: ± 1°

UNLESS OTHERWISE SPECIFIED

SUBMITTAL DWG. SW SUNLINE,
3-6 TONS

JOHNSON CONTROLS
UNITARY PRODUCTS GROUP
NORMAN, OK 73069

DATE: 07-30-18

BY: SMO

CHK: LDP

ENG: CB

SCALE: 3/8" = 1'-0"

TYPE: NOT APPLICABLE

USE SPEC: NOT APPLICABLE

SIZE: 1/8" = 1'-0"

DATE: 07-30-18

BY: SMO

CHK: LDP

ENG: CB

SCALE: 3/8" = 1'-0"

REVISION RECORD

REV: A, B, C, D

DATE: 12-21-10, 09-08-11, 11-25-14, 07-30-18

DESCRIPTION: NEW DRAWING, CHANGED OPERATING & CORNER WEIGHTS FOR 3, 4 & 5T (GEN 2), ADDED ZF7ZD 8MMX4T MODELS, ADDED ZF7ZD 6 TON MODEL & REMOVED OBSOLETE DATA

SAFETY AND EYE CHARACTERISTICS PER (B-200, STD-4)

REVISION: 0

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Typical Application

