

Project Name: **R454B York HP Condensing Units--cfm Distributors**

Unit Model #: **HH824E2S11**

Quantity: **1** Tag #: **2 Ton HH8**

System: **HH824E2S11,JHE24B5AC2SS1**

Cooling Performance

Total net capacity	25.3 MBH
Sensible net capacity	18.1 MBH
Seasonal Efficiency (at ARI)	19.00 SEER2
Efficiency (at ARI)	12.00 EER2
Ambient DB temp.	95.0 °F
Power input	1.81 kW

Hangtag Ratings

Hangtag Cooling	16.00 SEER2
Hangtag Heating	8.50 HSPF2

Refrigerant

Refrigerant type	R-454B
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Heat Pump Performance

Heating output capacity	26.3 MBH
Supply air	800 cfm
Ambient DB temp.	47 °F
Entering DB temp.	60 °F
Leaving DB temp.	90.4 °F
Air temp. rise	30.4 °F
Power Input	2.2 kW
Cop	3.5 COP
HSPF2	9.5

Electrical Data

Power supply	208/230-1-60
Unit min circuit ampacity	22 A
Unit max over-current protection	25 A

Outdoor Unit Shipping Dimensions & Weight

Hgt	33 in	Len	41 in	Wth	19 in
Weight with factory installed options	117 lb				

Matchup Information

AHRI Reference Number	214396076
AHRI Rated Capacity	25.3 MBH
AHRI Rated Efficiency	19 SEER2
CEE	N/A
Energy Star	Yes
Cold Climate Heat Pump	Yes

Note: Please refer to the tech guide for actual unit dimensions

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



2 Ton

Product Features

- Inverter driven compressor and modulating system will automatically adjust capacity, in heat or cool mode, to precisely match the comfort demands of the space providing closer temperature and humidity control.

Unit Features

- Easier Installation- Installation time is reduced by being factory charged for a 15-Ft line set. The small footprint and slim design along with reduced unit clearance requirements provide more retrofit applications.
- Durable Finish- The coated steel wire fan guard, coated external fasteners, and pre-treated galvanized steel chassis components resist corrosion and rust creep.
- Quality Coils- Enhanced aluminum fins are mechanically bonded to copper tubing and coated to shed water during defrost cycles.
- Protected Compressor - Compressors are protected by the system high pressure switch and low pressure sensor.
- Long Line Set – These models are factory capable for long line set installations up to 246ft.
- Reliable Operation – Ball bearing fan motors provide superior performance in extreme temperatures. Factory installed accumulator protects the compressor while operating across a wide range of conditions.
- Thin Profile – The thin profile allows for installation on narrow lots and allows compact location on multi-unit applications.
- Low Operating Sound Levels - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance as low as 56 dBA.

Warranty

- Standard 5-Years parts
- 10 Years compressor limited warranty
- Extended 10 Years parts limited warranty with registration

Heat pump performance shown is with a basic air handler. Actual performance will vary, depending on the actual indoor unit /coil used in your system



Residential Split
Split-System Outdoor

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Factory Installed Options

HH824E2S11

Equipment Options		Option(s) Selected
Brand :	H	Side Discharge
Unit Type :	H	Heat Pump
Efficiency :	8	18 SEER2
Capacity :	24	2.0 Tons
Refrigerant :	E	R-454B Refrigerant
Voltage :	2	208/230-1-60
Controls :	S	Standard (Conventional) Controls
Factory-Installed Options :		1
Generation :	1	

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Dimensions and Physical Data

Tabular Data Sheet

HH8 Series - Horizontal Discharge Variable Speed Heat Pump

18 SEER2 - R-454B - 1 Phase - 2 nominal ton to 5 nominal ton

Models: HH824E2S11 to HH860E2S11

Physical and electrical data

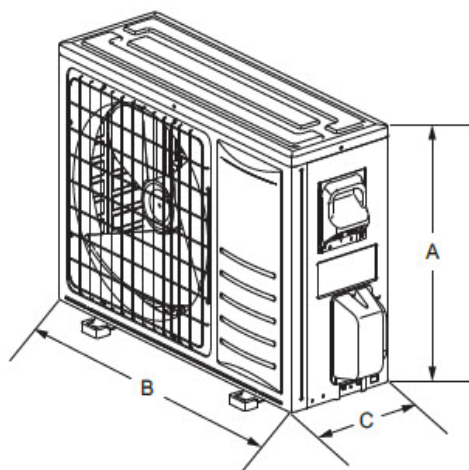
Model		HH824E2S11	HH836E2S11	HH860E2S11
Unit supply voltage		208-230 V, 1 phase, 60 Hz		
Normal voltage range ¹		187 to 252		
Minimum circuit ampacity		24	28	37
Maximum overcurrent device (A) ²		35	35	45
Compressor	Type	Twin rotary	Twin rotary	Twin rotary
	Rated load (A)	16.8	19	27
Crankcase heater (base heater)		Yes	Yes	Yes
Base pan heater		Yes	Yes	Yes
Fan diameter (in.)		21.89	24.4	21.85
Fan motor	Rated HP	1/7	1/3	1/5
	FLA (A)	0.8	1.5	1
	Nominal RPM	870	850	880
	Nominal CFM	2235	3620	4645
Coil	Face area (ft ²)	7.49	10.76	14.87
	Rows deep	2	2	2.6
	Fins per inch	17	18	18
Liquid refrigerant piping outdoor (field installed)		3/8	3/8	3/8
Vapor refrigerant piping outdoor (field installed) ^{3,4}		5/8	3/4	7/8
Unit charge (lb-oz)		5 - 01	7 - 07	11 - 00
Charge (oz/ft)		0.54	0.57	0.6
Operating weight (lb)		116.8	185.2	233.5

1. Rated in accordance with AHRI Standard 110-2016, utilization range A.

2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.

3. For applications with non-standard vapor line sizes, refer to the Accessories section in the Technical Guide.

4. The unit charge provided is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant piping. For refrigerant piping lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigerant piping length (not the equivalent length) multiplied by the per foot value.



A1440-001

Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
HH824E2S11	29 1/2	35 3/7	13 2/5	3/8	5/8
HH836E2S11	34 4/9	43 1/3	17 5/7		3/4
HH860E2S11	57 1/2	38 2/5	13		7/8

Notes:

- All dimensions are in inches and are subject to change without notice.
- The overall height is from the bottom of the base pan to the top of the fan guard.
- The overall length and width include screw heads.

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Clearances

Clearance

During installation, maintain the required clearance from walls and adjacent equipment. See Figure 3. When installing multiple units, be careful to avoid intake of discharged air from adjacent units.

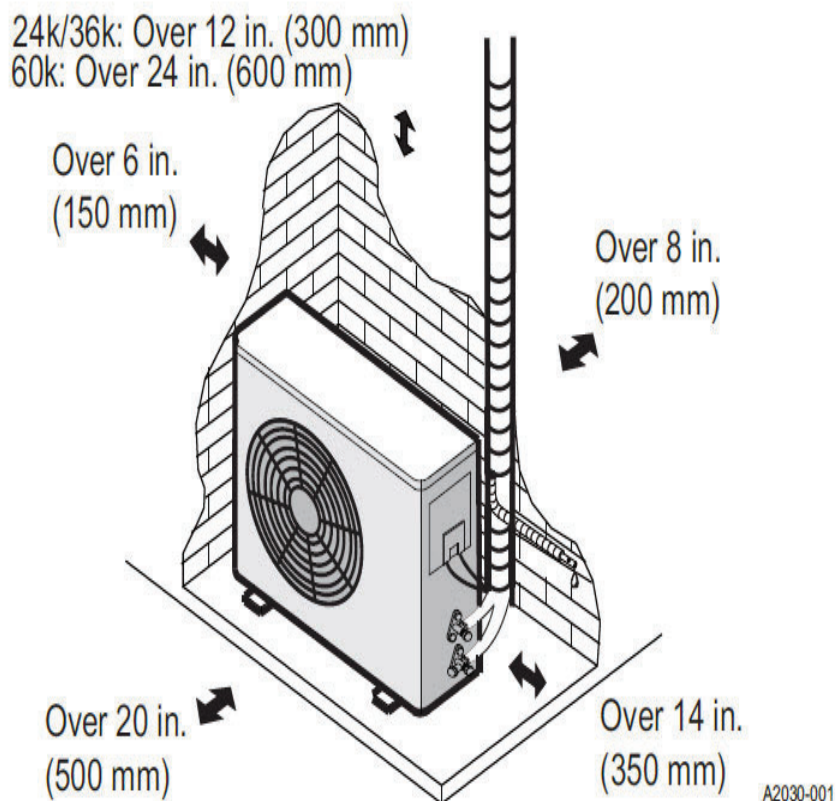


Figure 3: Minimum clearance