

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

Unit Model #: **YH424E2S11**

Quantity: **1**

Cooling Performance

Total net capacity	24.4 MBH
Sensible net capacity	20.0 MBH
Seasonal Efficiency (at ARI)	14.30 SEER2
Efficiency (at ARI)	11.00 EER2
Ambient DB temp.	95.0 °F
Leaving air temp dew point	56.80 °F
Power input	2.12 kW

Hangtag Ratings

Hangtag Cooling	14.30 SEER2
Hangtag Heating	7.50 HSPF2

Refrigerant

Refrigerant type	R-454B
Data plate charge with 15' lineset	5 lb 4 oz

Heat Pump Performance

Heating output capacity	25.6 MBH
Supply air	800 cfm
Ambient DB temp.	47 °F
Entering DB temp.	60 °F
Leaving DB temp.	89.6 °F
Air temp. rise	29.6 °F
Power Input	1.6 kW
Cop	4.6 COP
HSPF2	7.5

Electrical Data

Power supply	208/230-1-60
Unit min circuit ampacity	16 A
Unit max over-current protection	25 A

Outdoor Unit Shipping Dimensions & Weight

Hgt	34 in	Len	31 in	Wth	31 in
Weight with factory installed options	143 lb				

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.



2 Ton

Product Features

- The YH4 models are the newest offering in our successful LX Series split system heat pump lineup. These R-454B outdoor units are optimized for the new DOE 2023 14.3 SEER2 / 7.5 HSPF2 Minimum Efficiency in all US Regions, and are specifically designed to be matched with York indoor coils, furnaces, and air handlers to provide a complete system solution.

Unit Features

- Two-Stage Operation** - Unit utilizes a new two-stage compressor for improved efficiency
- Easier Installation** - Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. All models utilize TXV's. The field-installed filter-drier and factory charge for a 15-Ft lineset means less time spent brazing and charging the system. The small base dimension and reduced unit clearances make for easier retrofits.
- Accessible Information** - QR code on unit provides quick access to technical documents and warranty information.
- Durable Finish** - The coated steel wire fan guard, coated external fasteners, and pre-treated G90-equivalent galvanized steel chassis components resist corrosion and rust creep. Powdercoat paint further protects external panels.
- Quality Coils** - Enhanced aluminum fins are mechanically bonded to copper tubing.
- Rugged Coil Protection** - Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- Protected Compressor** - Compressors are protected internally by a high pressure relief valve and a temperature sensor, and externally by the system mechanical high and low pressure switches.
- Reliable Operation** - Ball bearing fan motors provide superior performance in extreme temperatures. Factory installed accumulator ensures proper functioning across a wide range of conditions.
- Environmentally Friendly** - CFC-free LGWP R-454B refrigerant delivers environmentally friendly performance with zero ozone depletion.
- Low Operating Sound Levels** - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance of 76 dBA or lower. Compatible accessories for further sound reduction are also available.
- Better Service Access** - Diagonal base valves with open access for low-loss fittings, single panel access to the electrical controls, full corner access, and removable fan guard allow easy access for unit maintenance.

Warranty

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



Residential Split
Split-System Outdoor

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Factory Installed Options

YH424E2S11

Equipment Options		Option(s) Selected
Brand:	Y	York Brand
Unit Type:	H	Heat Pump
Efficiency:	4	14.3 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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Condensing Units-cfm Distributors

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Physical and Electrical

Physical and electrical data

Unit model		YH418E2S11	YH424E2S11	YH436E2S11	YH448E2S11	YH460E2S11
Unit supply voltage		208-230 V, 1 Ph, 60 Hz				
Normal voltage range (V) ¹		187 to 252				
Minimum circuit ampacity (A)		9.2	13.5	18.9	26.3	32.7
Maximum overcurrent device (A) ²		15	20	30	45	50
Minimum overcurrent device (A) ³		15	15	20	30	35
Compressor	Type	Single-stage rotary	Two-stage scroll	Two-stage scroll	Two-stage scroll	Two-stage scroll
	Rated load (A)	6.7	10.2	14.5	20.0	25.2
	Locked rotor (A)	33	62.0	76.0	141.0	147.3
Crankcase heater		No	No	No	No	No
Factory external discharge muffler		Yes	Yes	Yes	Yes	Yes
Hard start kit required with TXV ⁴		Yes	No	No	No	No
Fan diameter (in.)		18	22	22	24	24
Fan motor	Type	PSC	PSC	PSC	PSC	PSC
	Rated HP	0.083	0.125	0.125	0.250	0.250
	Rated load (A)	0.64	0.70	0.70	1.30	1.30
	Nominal RPM	1000	1075	1075	850	850
	Nominal CFM	2100	3000	3200	4100	3715
Coil	Face area (sq ft)	14.5	14.6	17.9	23.8	23.8
	Rows deep	1	1	1	1	2
	Fins per inch	22	22	22	22	18
Liquid refrigerant piping outdoor (field-installed)		3/8	3/8	3/8	3/8	3/8
Vapor refrigerant piping outdoor (field-installed) ⁵		3/4	3/4	3/4	7/8	1 1/8†
Unit charge (lb - oz) ⁶		3 - 12	5 - 1	5	8 - 6	10 - 5
Charge (oz/ft)		0.57	0.57	0.57	0.60	0.67
Operating weight (lb)		124	143	165	221	239

1. Rated in accordance with AHRI Standard 110-2012, utilization range A.

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

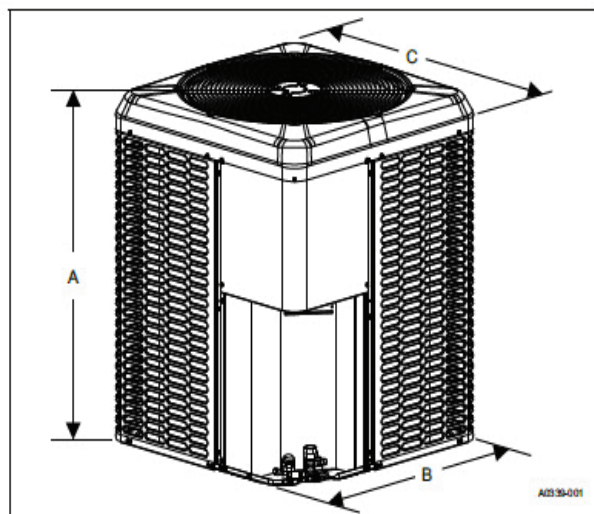
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.

4. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. Most hard start kits are a field-installed accessory. Unit model YH418E2S11 contains a factory installed hard start kit.

5. For applications with non-standard vapor line sizes, refer to the *Applications and Accessories* section in the *Technical Guide*.

6. The unit charge is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant tubing. For tubing 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.

† The adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.



Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
YH418E2S11	36 1/4	24	24	3/8	3/4
YH424E2S11	30	29 1/4	29 1/4		
YH436E2S11	36 1/4	29 1/4	29 1/4		7/8
YH448E2S11	39 1/2	35 1/4	31 3/4		
YH460E2S11	39 1/2	35 1/4	31 3/4		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.

† The adapter fitting must be field-installed for the required 1 1/8 in. of refrigerant piping.