

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

Unit Model #: **YC424E2S11**

Quantity: **1**

System: **YC424E2S11**

Cooling Performance

Total gross capacity	22.2 MBH
Ambient DB temp.	95.0 °F
Power input	1.60 kW
Suction pressure	118 psig
Saturated suction temp.	45 °F

Hangtag Ratings

Hangtag Cooling	14.30 SEER2
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Refrigerant

Electrical Data

Power supply	208/230-1-60
Unit min circuit ampacity	13.4 A
Unit max over-current protection	20 A

Outdoor Unit Shipping Dimensions & Weight

Hgt	34 in	Len	31 in	Wth	31 in
Weight with factory installed options	150 lb				

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

- The YC4 models are the latest iteration in our successful LX Series split system air conditioner lineup. Optimized for the 14.3 SEER2 Regional Minimum Efficiency in the US South Region using LGWP R-454B refrigerant.

Unit Features

- Small Footprint** - Minimum footprint for easier handling, transportation, and installation.
- Easier Installation**- Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. Matched with indoor TXV for optimal size and performance. The filter-drier is loose shipped for field installation and factory charged for a 15-Ft line set 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** - The high efficiency microchannel aluminum coil is manufactured using an improved material system providing reliable performance and small unit size.
- 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 high pressure switch.
- Reliable Operation** - Ball bearing fan motors provide superior performance in extreme temperatures.
- 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, straight tubing for flexibility in line set connections, single panel access to the electrical controls, swing out control box for 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

YC424E2S11

Equipment Options		Option(s) Selected
Brand:	Y	York Brand
Unit Type:	C	Air Conditioner
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	

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

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Physical and Electrical

Physical and electrical data

Model	YC418E2S11	YC424E2S11	YC430E2S11	YC436E2S11	YC442E2S11	YC448E2S11	YC460E2S11
Unit supply voltage	208-230 V, 1 ϕ , 60 Hz						
Normal voltage range ¹	187 to 252						
Minimum circuit ampacity	9.0	13.4	16.2	19.0	18.9	29.1	30.7
Maximum overcurrent device (A) ²	15	20	25	30	30	50	50
Minimum overcurrent device (A) ³	15	15	20	20	20	30	35
Compressor	Type ⁴	1-stage rotary	1-stage scroll	1-stage scroll	1-stage scroll	1-stage scroll	1-stage scroll
	Rated load (A)	6.7	10.2	12.5	14.4	14.3	23.7
	Locked rotor (A)	33.0	60.2	67.0	86.0	95.0	157.0
Crankcase heater	No	No	No	No	No	No	No
Factory external discharge muffler	No	No	No	No	No	No	No
Hard start kit required with TXV ⁵	No	No	No	No	No	No	No
Hard start kit part number (S1-2SA067****)	22006	10106	10106	10106	10106	10106	10106
Fan diameter (in.)	22	22	22	24	26	24	26
Fan motor	Type	PSC	PSC	PSC	PSC	PSC	PSC
	Rated HP	1/12	1/12	1/12	1/4	1/4	1/4
	Rated load (A)	0.64	0.64	0.64	1.30	1.05	1.05
	Nominal RPM	1000	1000	1000	850	850	850
	Nominal CFM	2275	2275	2275	3500	4300	4300
Coil	Face area (sq ft)	13.83	13.83	19.22	18.74	23.40	27.40
	Rows deep	1	1	1	1	1	1
	Fins per inch	23	23	23	23	23	23
Liquid refrigerant piping outdoor (field-installed)	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor refrigerant piping outdoor (field-installed) ⁶	3/4	3/4	3/4	3/4	7/8	7/8	1 1/8 [‡]
Unit charge (lb - oz) ⁷	2-8	2-10	3-0	3-2	3-6	3-11	5-3
Charge (oz/ft)	0.57	0.57	0.57	0.57	0.60	0.60	0.67
Operating weight (lb)	150	150	165	185	230	215	235

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.

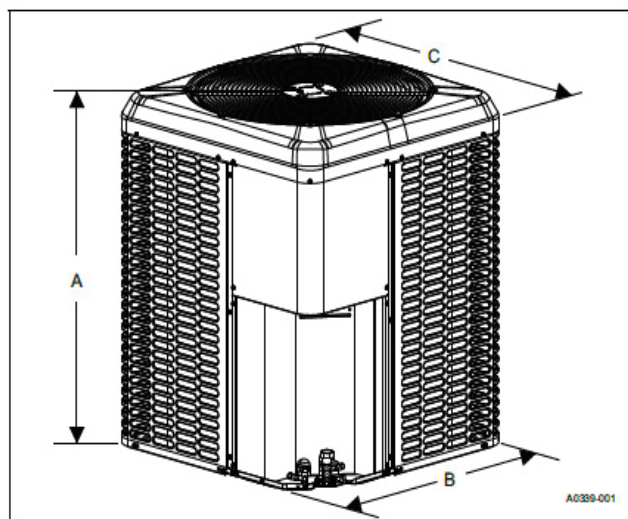
4. Rotary compressor models are limited to an equivalent length of refrigerant piping of 100 ft with no exceptions.

5. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. The hard start kit is a field-installed accessory.

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

7. 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
YC418E2S11	30	29 1/4	29 1/4	3/8	3/4
YC424E2S11	30	29 1/4	29 1/4		
YC430E2S11	39 1/2	29 1/4	29 1/4		
YC436E2S11	33 1/4	35 1/4	31 3/4		7/8
YC442E2S11	36 1/4	38	34 1/4		
YC448E2S11	36 1/4	35 1/4	31 3/4	7/8 [‡]	7/8 [‡]
YC460E2S11	42 3/4	38	34 1/4		

Notes:

‡ Adapter fitting must be field installed for the required 1 1/8 in. refrigerant piping.
 All dimensions are in inches and are subject to change without notice.
 Overall height is from the bottom of the base pan to the top of the fan guard.
 Overall length and width include screw heads.