COMPANY HEADER

Item # FRA16AY24AJ2N, Endeavor® Line F-Series Plus™ 2 ton 16 SEER2 2-Stage Air Conditioner – 208/230/1/60

- Cooling Efficiency: 17 SEER2 / 12 EER2
- Refrigerant Type: R-454B
- Nominal Sizes: 2, 3, 4 & 5 Ton
- Cooling Capacities: 22.8 to 56.0 kBTU
- Sound Ranking[2]: As low as 71.9 dBA
- EcoNet® Enabled: No
- ENERGY STAR® certified[3]: Yes
- Compressor Type: Two-Stage Scroll
- Condenser Coil Type: 7mm
- PlusOnes:
  - PlusOne® Expanded Valve Space: Provides a minimum working area of 27-sqaure inches
  - PlusOne Triple Service Access – 15 in. wide industry leading corner service access, two fastener removeable corner and

more



Specifications | Electrical Data | Outdoor Coil | Outdoor Fan | Cooling Performance | Dimensions | Features

Specifications

Type	Air Conditioner
Nominal Capacity	24000 Btu/h 7.03 kW 2.0 TR

Refrigerant Type	R-454B
Refrigerant Furnished oz.	103
Compressor Type	2-stage Scroll
Sound Level	69 dB
Weight	169 lb
Shipping Weight	176 lb

Electrical Data

Voltage	208 to 230 V
Number of Phases	1
Frequency	60 Hz
Maximum Overcurrent Protection	25 A
Minimum Circuit Ampacity	16 A
Compressor - Rated Load Amps	12 A
Compressor - Locked Rotor Amps	65 A
Condenser Fan Motor - Full Load Amps	0.8 A
Condenser Fan Motor - Locked Rotor Amps	1.7 A

Outdoor Coil

Net Face Area - Outer Coil	13.3 ft²
Net Face Area - Inner Coil	12.9 ft²
Tube Diameter	0.276 in

Number of Rows	2
Fins per Inch	24

Outdoor Fan

Outdoor Fan Diameter	24 in
Number of Blades	2
Motor HP	1/6 hp
CFM	2723 ft³/min
RPM	825
Watts	161 W

Cooling Performance

Air Handler	RCFY2417STAN
Total Capacity	22800 Btu/h 6.7 kW
Net Sensible Capacity	16200 Btu/h 4.7 kW
Net Latent Capacity	6600 Btu/h 1.9 kW
SEER2	14.3
EER2	11.7
Indoor CFM	750 ft³/min 354.0 L/s

Dimensions

Depth	33.75 in 857 mm
Width	33.75 in 857 mm
Height	25.00 in 635 mm
Shipping Depth	36.38 in 924 mm
Shipping Width	36.38 in 924 mm
Shipping Height	26.50 in 673 mm
Liquid Line O.D.	3/8 in
Suction Line O.D.	3/4 in

Features

- **PlusOne® Diagnostics & Bluetooth® Connectivity:** With the Rheem Contractor App, built-in technology makes advanced set-up, monitoring, troubleshooting and repairing the product easier than ever before
- **Swept Wing Fan Technology:** Features quieter operation and improved unit acoustics
- **7mm Condenser Copper Coil:** Requires less refrigerant allowing for a smaller and lighter footprint while enhancing reliability
- **Two-Stage Scroll Compressor:** Features two speeds high and low) of cooling and heating, providing more precise temperature control, lower humidity and greater efficiency when compared to single-stage compressors
- **PlusOne® Expanded Valve Space:** 3 in. – 4 in. – 5 in. service valve space — provides a minimum working area of 27-square inches for easier access
- **PlusOne® Triple Service Access:** 15 in. wide, industry leading access, two fastener, removeable corner and individual louver panels — makes repairs faster and easier
- **Designing for Sustainability with Low GWP:** For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78%2 lower GWP than previous-generation refrigerants — with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort

- **PlusOne® Refrigerant Detection System™:** An integrated one-box, patented design featuring the A2L sensor and mitigation board, offering easier commissioning with a single component and simplified wiring configuration, compatibility with any 24V thermostat application and system protection by automatically pausing outdoor unit operation – if excess refrigerant is detected