

MRCOOL® Signature Series TruInverter™

4 Ton 18 SEER2 Heat Pump Condenser — Model: MCAESHV8T4821BA

Product Overview & Key Features

- **Variable-Speed TruInverter™ Technology:** Dynamically modulates compressor output to perfectly match thermal loads, optimizing efficiency and indoor comfort.
- **Eco-Friendly Refrigerant:** Engineered using **R-454B** low-GWP next-generation refrigerant to reduce environmental impact and meet modern compliance standards.
- **Extreme Climate Performance:** Delivers reliable and resilient heating operation down to **-5°F (-21°C)** ambient temperature.
- **Quiet Comfort System:** Uses an acoustic-dampening compressor blanket paired with a smooth DC brushless fan motor for ultra-low noise emission.
- **Premium Finish & Protection:** Durable steel louvered wrap protect the internal coils from physical damage, finished with a sleek Gunmetal powder coat.
- **Elite Industry Warranty:** Backed by MRCOOL's premier 10-Year Parts Warranty and a **Lifetime Compressor Warranty** upon timely registration.

Technical Specifications

Parameter	Specification / Value
Nominal Capacity	48,000 BTU/h (4 Ton)
Cooling Capacity	46,500 BTU/h
Heating Capacity	47,500 BTU/h
SEER2 Efficiency	18.0
EER2 Rating	9.2
HSPF2-4 Rating	8.5
Compressor Type	Variable-Speed Rotary (TruInverter™)
Fan Motor Type	Brushless DC Motor
Refrigerant Type	R-454B
Factory Refrigerant Charge	126.99 oz (3600 g)
Expansion Device	Electronic Expansion Valve (EEV)

Electrical & Piping Information

Parameter	Specification / Value
Power Supply Voltage	208/230V, Single-Phase, 60Hz
Minimum Circuit Ampacity (MCA)	29.0 A
Max Overcurrent Protector (MOP)	45 A (Fuse/Breaker)
Liquid Line Connection	3/8 in (Stub-out / Brazed)
Suction / Vapor Line Connection	7/8 in (Stub-out / Brazed)
Max Allowable Line Set Length	100 ft (30.5 m)
Max Height Elevation Difference	50 ft (15.2 m)

Physical Dimensions & Weights

Dimension Component	Value
Net Unit Dimensions (W x D x H)	29.125 in x 29.125 in x 33.19 in (740 x 740 x 843 mm)
Gross Packaging Dimensions (W x D x H)	31.50 in x 31.50 in x 34.65 in (800 x 800 x 880 mm)
Net Unit Weight	178.6 lbs (81.0 kg)
Gross Shipping Weight	194.0 lbs (88.0 kg)
Cabinet Finish / Aesthetics	Louvered Steel Wrap, Gunmetal Gray Finish