

MRCOOL® SIGNATURE SERIES AUXILIARY HEAT KIT

Technical Specification Sheet | Model: MCAEHFD5X1AA (5kW)

Product Overview

The **MCAEHFD5X1AA** is a high-performance, factory-engineered supplemental electric heat kit designed exclusively for the MRCOOL® Signature Series **R-454B** Multi-position Air Handlers. This 5kW auxiliary configuration provides optimal backup and emergency thermal support, seamlessly supplementing central ducted heat pump systems during extreme cold weather frames or outdoor coil defrost cycles.

Key System Features

- A2L Compatibility:** Specially approved and tested for eco-friendly, low-GWP R-454B refrigerant systems.
- Multi-position Adaptability:** Tailored strictly for Multi-position Air Handlers (Upflow, Downflow, Horizontal Left/Right layouts).
- Integrated Overcurrent Protection:** Includes a built-in heavy-duty circuit breaker serving as a direct safety cutoff and localized disconnect.
- Robust Construction:** Corrosion-resistant frame housing premium nickel-chromium heating elements for instant thermal transfer.
- Seamless Control:** Pre-wired wiring harness connects smoothly to the central control board for dynamic defrost tempering cycles.

Technical Engineering Parameters

Parameter	Specification Value / Requirement
Model Identifier	MCAEHFD5X1AA
Product Series	Signature Series R-454B Split System
Nominal Heating Capacity	5 Kilowatts (5 kW)
Thermal Output Rating	15,000 – 17,100 BTU/hr
Electrical Configuration	208/230-240V AC, 60 Hz, Single Phase (1-Phase)
Calculated Heater Amperage	20.84 Amps @ 240V
Safety Certifications	UL Listed / ETL Safety Approved
Cabinet Orientation Style	Multi-positional (Upflow, Downflow, Horizontal)
Circuit Disconnect Hardware	Factory-installed Circuit Breaker Included

Installation & Compliance Directives

Mandatory Technical Requirement: The MCAEHFD5X1AA auxiliary heat kit is strictly classified as a **Non-DIY product**. Field installation must be executed solely by a licensed, EPA-certified HVAC professional and a certified electrician. Unauthorized consumer installation violates the safe operational parameters of A2L low-GWP flammable refrigerant handling systems, directly voids the comprehensive MRCOOL® factory parts warranty, and risks electrical code infractions.

Disclaimer: This document is synthesized for technical reference purposes based on manufacturer-published specifications for MRCOOL® Signature Series R-454B accessories. Design and exact electrical layout values remain subject to localized engineering adjustments or manufacturer revisions without formal notification. Always cross-reference field wire dimensions with national and regional electrical codes (NEC).