

Auxiliary Electric Heat Kit Specification Sheet

Model: MCAEHFD5X1BA

5kW Electric Heat Strip with Built-in Circuit Breaker

Product Overview

The MCAEHFD5X1BA is a field-installed auxiliary electric heat kit engineered explicitly for the MRCOOL® Signature Series TruInverter™ indoor air handlers. This unit provides reliable backup or primary heating performance during extreme low-ambient conditions. It features integrated circuit breaker protection to streamline installation and safeguard electrical circuits.

Technical Specifications

Specification Parameter	Value / Technical Data
Nominal Heat Capacity	5.0 kW
Heating Capacity (BTU/h)	17,000 BTU/h (Nominal at 240V)
Voltage / Phase / Frequency	208/230V, Single-Phase, 60Hz
Circuit Breaker Protection	Included (Integrated)
Compatibility	MRCOOL TruInverter Air Handlers (2 Ton - 5 Ton Series)
Minimum Circuit Ampacity (MCA)	Refer to Air Handler Combo Ratings (Approx. 27A-30A heater alone)
Max Overcurrent Protection (MOP)	30A (Heater circuit dedicated configuration)
Heating Elements	Nickel-Chromium open wire heating elements
Safety Controls	Automatic reset thermal limit controls

Installation & Safety Requirements

- * **Multi-Position Design:** Approved for use in Upflow, Downflow, and Horizontal configurations when fitted within matched TruInverter cabinets.
- * **Electrical Compliance:** Wiring must strictly comply with local electrical codes and the National Electrical Code (NEC). Dual or single-point power source options depend on air handler connection blocks.
- * **Airflow Interlock:** System controls automatically sequence the heating elements to prevent rapid cycling and ensure proper blower delay timing.

Disclaimer: Specifications are subject to change by the manufacturer without notice. Always verify electrical sizing with the unit wiring diagram before final rough-in.