

R4D450-RH01-01 ebmpapst 230/400/480VAC 450mm Centrifugal Fan

SKU: R4D450-RH01-01

Price: \$478.83

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r4d450-rh01-01-ebmpapst-230-400-480v-ac-450mm-centrifugal-fan/>

Product Description

The ebmpapst R4D450-RH01-01 is a high-performance 230/400/480 V RadiCal AC centrifugal fan featuring a 450 mm backward-curved impeller designed for maximum aerodynamic efficiency and quiet operation. Powered by the M4D110-GF three-phase external rotor motor, this robust unit delivers an impressive maximum airflow of 6015 m³/h, making it a premier choice for high-capacity industrial ventilation. The impeller is constructed from high-strength PP plastic, optimized through complex fluid simulation to minimize turbulence and noise. Engineered for 24/7 continuous S1 operation, the R4D450-RH01-01 provides exceptional reliability in mission-critical environments, including large-scale HVAC systems and industrial heat exchangers, across a wide temperature range from -40 °C to 60 °C.

R4D450-RH01-01 Fan Parameters

Model Number: R4D450-RH01-01

Manufacturer: ebmpapst

Motor Model: M4D110-GF

Series: RadiCal AC Centrifugal Series

Type: AC Centrifugal Fan (Backward-Curved)

Impeller Size: 450 mm

Dimensions: 450 x 450 x 240 mm

Bearing Type: Ball Bearing

Nominal Voltage: 230 VAC (Delta) / 400 VAC (Star) / 480 VAC (Star)

Voltage Range: 220 - 480 VAC

Frequency: 50 / 60 Hz

Weight: 9.4 kg

Input Power: 710 W (50 Hz) / 1060 W (60 Hz) / 1140 W (480V 60 Hz)

Nominal Current: 2.51 A (230V) / 1.45 A (400V) / 1.76 A (480V)
Speed: 1350 RPM (50 Hz) / 1500 RPM (60 Hz) / 1600 RPM (480V)
Motor Design: 3-Phase External Rotor Motor
Wiring: Δ (Delta) for 230V / Y (Star) for 400V and 480V
Motor Protection: Thermal overload protector (TOP) brought out
Insulation Class: Class F
Touch Current: ≤ 3.5 mA
Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)
Max. Static Pressure: 9.81 mmH₂O (96.24 Pa / 0.39 inAq)
Number of Blades: 6
Direction of Rotation: Clockwise (Viewed toward rotor)
Airflow Direction: Radial (Single inlet)
Mode of Operation: S1 (Continuous operation)
Impeller Material: PP plastic
Rotor Surface: Cast in aluminum
Degree of Protection: IP54
Environmental Protection Class: H1 (F3-1 moisture protection)
Operating Temperature: -40 - +60 °C
Standard Compliance: EN 60034-1, CE
Approval Agency: VDE, CCC, EAC, UL 1004-1, CSA C22.2 No. 100

Application

The ebmpapst R4D450-RH01-01 centrifugal fan is widely used in large-scale HVAC air handling units, industrial heat exchangers, data center cooling systems, cleanroom ventilation, and commercial refrigeration condensers.

Product Images







Scan for product details:

