

R2E250-RA48-25 ebmpapst 115V 250mm AC Centrifugal Fan

SKU: R2E250-RA48-25

Price: \$289.99

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r2e250-ra48-25-ebmpapst-115v-250mm-ac-centrifugal-fan/>

Product Description

The ebmpapst R2E250-RA48-25 is a high-performance 115 V AC centrifugal fan with an impeller size of 250 mm, purpose-built to deliver elite-level thermal cooling in high-resistance airflow paths. This unit features a heavy-duty M2E068-EC external rotor motor capable of sustaining a massive 320 W power input to drive its specialized 7-blade PA plastic and galvanized sheet-metal impeller at a consistent 2750 RPM. Engineered specifically for high-efficiency air displacement in complex thermal systems, it utilizes a backward-curved design to generate high velocity and pressure without the need for a scroll housing. The mechanical design relies on a precision-shielded dual ball bearing system and a painted black rotor surface to ensure continuous S1 mode operation even in demanding environments. Featuring an integrated thermal overload protector, Class F insulation, and H1 environmental protection, this fan is a critical component for laboratory equipment, cleanroom filter units, and industrial cooling systems where maximum air density and robust 115 V operation are mandatory.

R2E250-RA48-25 Fan Parameters

Manufacturer: ebmpapst

Model Number: R2E250-RA48-25

Motor Model: M2E068-EC

Series: AC Centrifugal Fan

Impeller Size: 250 mm

Type: AC Centrifugal Fan (Backward-curved)

Bearing Type: Ball Bearing

Nominal Voltage: 115 VAC

Voltage Range: 105.0 - 125.0 VAC

Frequency: 50 / 60 Hz

Weight: 2.83 kg

[Electrical Data]

Input Power (50/60Hz): 220.0 / 320.0 W

Nominal Current (50/60Hz): 1.92 / 2.75 A

Nominal Speed (50/60Hz): 2550 / 2750 RPM

Motor Design: 1-phase 2-pole external rotor motor

Capacitor: 30.0 µF / 250 VDB (S0 CE standard)

Motor Protection: Thermal overload protector (TOP) internally connected

Insulation Class: Class F

Moisture Protection: H1

Termination: Variable cable

[Performance & Acoustics]

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 inH₂O)

Sound Power Level: 77.0 dB(A) (Typical for series at max 60Hz speed)

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Radial

Mode of Operation: S1 (Continuous operation)

[Materials & Construction]

Impeller Material: PA plastic, galvanized sheet-metal plate

Rotor Surface: Painted black

Installation Position: Shaft horizontal or rotor on bottom (Rotor on top on request)

Condensation Drainage: On rotor side holes

Degree of Protection: IP44 (Installation-dependent)

[Reliability & Safety Standards]

Min. Ambient Temperature: -25 °C

Max. Ambient Temperature (50/60Hz): 65 °C / 50 °C

Storage Temperature: -40 °C - 80 °C

Standard Compliance: EN 60335-1, UL 2111

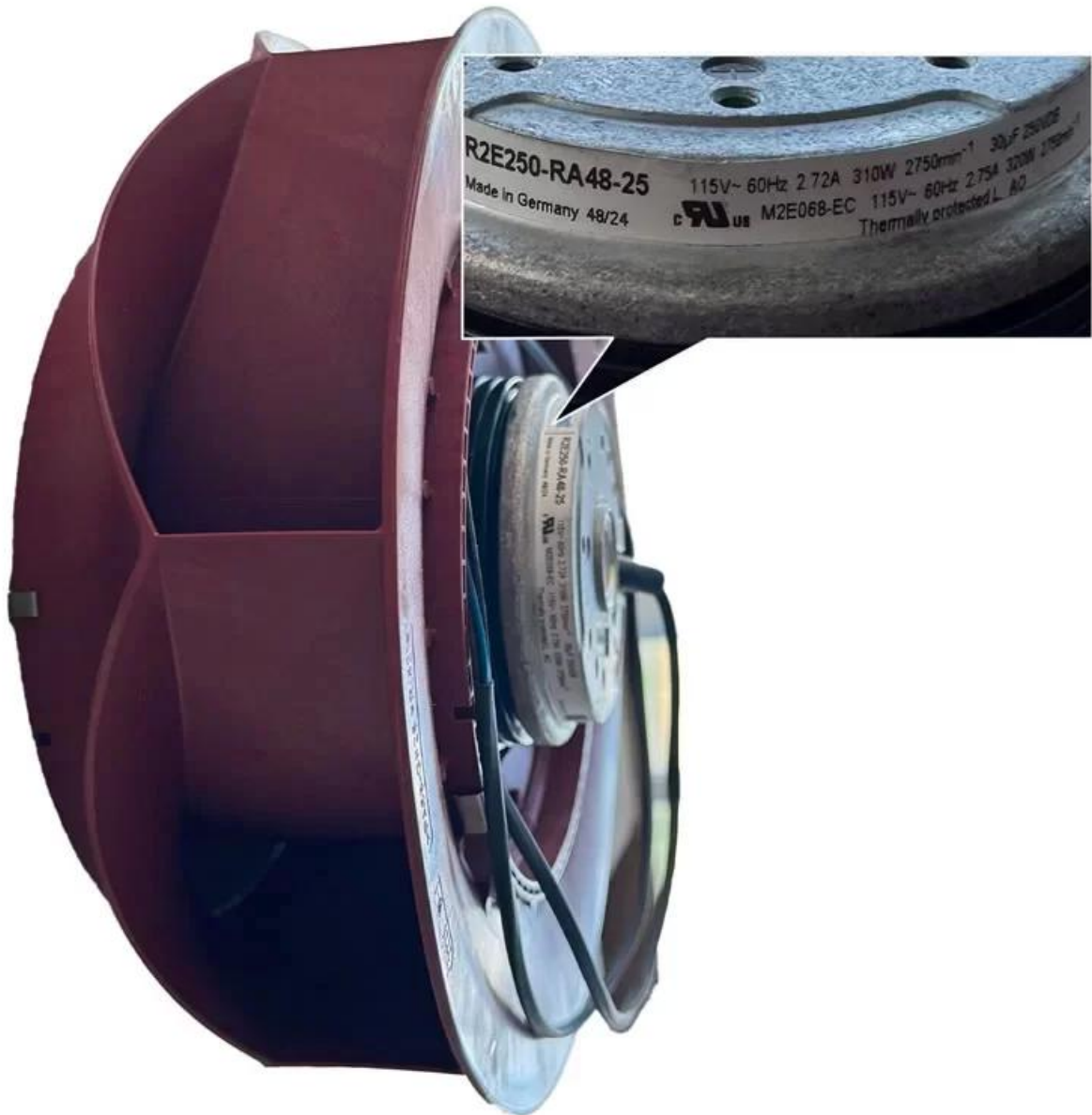
Approval Agency: UL 1004-3, CSA C22.2 No. 77

Application

The ebmpapst R2E250-RA48-25 centrifugal fan is used in laboratory fume hoods, cleanroom filter fan units (FFU), medical imaging equipment, industrial control cabinets, and commercial ventilation systems.

Product Images







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