

# R2E175-RA52-01 ebm-papst 230VAC 175mm Centrifugal Fan Datasheet



**Brand:** ebmpapst

**SKU:** 946953504406

**Category:** Axial & Centrifugal Fans

**Price:** **\$96.99**

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Product Page:

<https://www.equipspares.com/product/r2e175-ra52-01-ebm-papst-230vac-175mm-centrifugal-fan>

## Product Description

The ebm-papst R2E175-RA52-01 is a high-efficiency Backward Curved Centrifugal Fan designed for critical industrial applications requiring substantial static pressure development in compact environments. This motorized impeller features an external rotor AC motor integrated directly into the polyamide impeller structure, which significantly enhances structural rigidity and reduces thermal impedance during continuous operation. Engineered with a precision ball bearing system, the unit ensures exceptional reliability and a long service life under demanding load conditions. The R2E175-RA52-01 minimizes vibration and acoustic noise through superior aerodynamic balancing, making it an optimal solution for thermal management systems where efficiency and durability are paramount.

Model Number: R2E175-RA52-01

Brand: ebm-papst

Product Type: Motorized Impeller / Backward Curved Centrifugal Fan

Rated Voltage: 230VAC

Frequency: 50 / 60 Hz

Rated Current: 0.21 / 0.25 A

Power Input: 46 / 57 W

Power Output: 19 / 25 W

Rated Speed: 2450 / 2700 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 335.5 CFM (570 m<sup>3</sup>/h / 9.5 m<sup>3</sup>/min)

Max. Static Pressure: 1.40 inH<sub>2</sub>O (350 Pa / 35.69 mmH<sub>2</sub>O)

Impeller Diameter: 175mm

Weight: 1.3 kg

Ingress Protection: IP44

Motor Type: M2E068-EC

Capacitor: 1.5 µF / 450 VDB

Impeller Material: PA Plastic (Polyamide, glass-fiber reinforced)

Insulation Class: B

Operating Temperature: -25°C to +60°C

Mounting Orientation: Any

Direction of Rotation: Clockwise, seen on rotor

Motor Protection: Thermal Overload Protector (TOP) wired internally

Compliance: CE, CCC, VDE

The R2E175-RA52-01 is widely deployed in electronic cabinet cooling and server rack ventilation systems where high-density component packing requires forced air cooling to overcome significant backpressure. Industrial automation engineers frequently specify the R2E175-RA52-01 for use in variable frequency drive (VFD) cooling modules, medical ventilation equipment, and laminar flow hoods. Its robust IP44 rating also makes it suitable for intake air filtration units in manufacturing environments and telecommunications base stations, ensuring that critical infrastructure remains within safe operating temperature ranges.

## Supplemental Images

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