

# R2E175-AR70-05 ebmpapst 230V 175mm AC Centrifugal Fan

**SKU:** R2E175-AR70-05

**Price:** \$389.98

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/r2e175-ar70-05-ebmpapst-230v-175mm-ac-centrifugal-fan/>

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## Product Description

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The ebmpapst R2E175-AR70-05 is a high-speed 230 V single-phase AC centrifugal fan featuring a 175 mm backward-curved impeller made of high-strength PA plastic. Powered by the M2E052-CA external rotor motor, this compact unit is engineered for efficient air displacement in high-resistance environments, achieving speeds up to 2950 RPM. Designed for continuous S1 operation, the fan features an improved Class F insulation system and an integrated thermal overload protector for enhanced thermal durability. Its versatile design allows for installation in any position, making it an ideal thermal management solution for electronic cabinet cooling, ventilation in lab equipment, and HVAC applications across a wide temperature range of -25 °C up to 60 °C.

R2E175-AR70-05 Fan Parameters

Model Number: R2E175-AR70-05

Manufacturer: ebmpapst

Motor Model: M2E052-CA

Series: AC Centrifugal Series

Type: AC Centrifugal Fan (Backward-Curved)

Impeller Size: 175 mm

Dimensions: 175 x 175 x 69 mm

Bearing Type: Ball Bearing

Nominal Voltage: 230 VAC

Voltage Range: 220 - 240 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Weight: 0.9 kg

Input Power: 38 W (50 Hz) / 44 W (60 Hz)

Nominal Current: 0.17 A (50 Hz) / 0.20 A (60 Hz)

Speed: 2600 RPM (50 Hz) / 2950 RPM (60 Hz)

Motor Capacitor: 1.5  $\mu$ F / 400 VDB (S0 CE standard)

Motor Design: Single-phase External Rotor Motor (PSC)

Motor Protection: Thermal overload protector (TOP) internally connected

Insulation Class: Class F

Touch Current: < 0.75 mA

Termination: Variable cable

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Number of Blades: 7

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: Radial (Single inlet)

Mounting Position: Any

Condensate Discharge Holes: None

Mode of Operation: S1 (Continuous operation)

Impeller Material: PA plastic

Rotor Surface: Painted black

Degree of Protection: IP44

Operating Temperature: -25 - +60 °C (Occasional start-up permitted down to -40 °C)

Standard Compliance: EN 60335-1, CE

Approval Agency: CCC, EAC

#### Application

The ebmpapst R2E175-AR70-05 centrifugal fan is primarily utilized in electronic cabinet cooling, small air handling units, laboratory equipment ventilation, cleanroom filter units, and compact HVAC systems.

## Product Images

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Scan for product details:

