

# R2E220-RB86-11 ebmpapst 115V 220mm AC Centrifugal Fan

**SKU:** R2E220-RB86-11

**Price:** \$199.99

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/r2e220-rb86-11-ebmpapst-115v-220mm-ac-centrifugal-fan/>

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## Product Description

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The ebmpapst R2E220-RB86-11 is a high-performance single-phase AC Centrifugal Fan featuring a 220 mm backward-curved impeller, specifically engineered for the North American 115V power grid. Powered by the M2E068-CF (Size 68) external rotor motor, this unit delivers a powerful airflow at a rated speed of 2480 RPM (50 Hz) or 2600 RPM (60 Hz). Utilizing a lightweight, 7-blade PP plastic impeller and a robust black-painted rotor, it is optimized for high-pressure environments in commercial refrigeration and industrial ventilation. With a power input of up to 140 W and a rated current of 1.23 A, the R2E220-RB86-11 features an IP44-rated motor with H1 environmental protection and condensation drainage holes, making it ideal for horizontal or rotor-down installation. This 1.72 kg unit is a mission-critical thermal management solution for 115V HVAC systems, telecommunications cooling, and lab equipment requiring UL/CSA certified reliability.

R2E220-RB86-11 Fan Parameters

Manufacturer: ebmpapst (Germany)

Model Number: R2E220-RB86-11

Motor Model: M2E068-CF (Size 68)

Phase: 1~

Type: AC Centrifugal Fan (Backward Curved)

Impeller Size: 220 mm

Dimensions: 220 mm (Diameter) x 71 mm (Axial Depth)

Nominal Voltage: 115 VAC

Frequency: 50 / 60 Hz

Speed: 2480 RPM (50 Hz) / 2600 RPM (60 Hz)

Power Input: 105 W (50 Hz) / 140 W (60 Hz)

Rated Current: 0.93 A (50 Hz) / 1.23 A (60 Hz)

Max. Permitted Ambient Temp: +80 °C

Min. Permitted Ambient Temp: -25 °C (Transport/Storage down to -40 °C)

Touch Current: < 0.75 mA (per IEC 60990)

Weight: 1.72 kg

Rotor Surface: Painted black

Impeller Material: PP Plastic

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Degree of Protection: IP44 (Installation-dependent)

Insulation Class: F

Environmental Protection Class: H1

Condensation Drainage: Rotor side holes included

Mode of Operation: S1 (Continuous operation)

Motor Bearing: Maintenance-free Ball Bearing

Motor Protection: Thermal overload protector (TOP) internally connected

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

Protection Class: I (With customer-connected protective earth)

Conformity Standards: EN 60034-1; EN 60204-1; EN 60335-1

Approvals: UL 1004-3; CSA C22.2 No. 77

Note: CE Commissioning not permitted in the European Economic Area (EEA)

#### Application

The ebmpapst R2E220-RB86-11 is a specialized 115V centrifugal cooling solution for North American industrial and commercial infrastructure. Its 220 mm PP plastic 7-blade impeller is specifically designed to provide high-static pressure airflow in humid environments, supported by H1 moisture protection and condensation drainage. This 1.72 kg unit is ideal for 115V-powered cold storage evaporators, electronic cabinet ventilation, and air filtration units where space is limited and horizontal mounting is required. The integrated TOP thermal protection and S1 continuous duty rating ensure long-term reliability in mission-critical HVAC and telecommunications systems, while its 2600 RPM performance ensures efficient heat removal in high-resistance ducting and dense equipment racks.

## Product Images

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Scan for product details:

