

# R1G175-AE73-10 ebm-papst 48VDC 175mm Centrifugal Fan Datasheet



**Brand:** ebmpapst

**SKU:** [836191170337](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$490.99**

---

**E-mail:** [sales@equipspares.com](mailto:sales@equipspares.com)

**Web:** <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/r1g175-ae73-10-ebm-papst-48vdc-175mm-centrifugal-fan>

---

## Product Description

The ebm-papst R1G175-AE73-10 is a high-efficiency EC centrifugal fan engineered for demanding thermal management applications requiring precise airflow control and robust reliability. This unit features an advanced electronically commutated (EC) motor that integrates AC mains rectification with DC motor efficiency, resulting in significantly reduced power consumption compared to traditional AC counterparts. The backward-curved impeller design optimizes aerodynamic performance, minimizing turbulence and noise generation while maintaining high static pressure capabilities. Constructed with industrial-grade materials to ensure structural rigidity, the fan operates with a sophisticated bearing architecture designed to withstand continuous duty cycles. Its thermal impedance characteristics are optimized for dense electronic enclosures, ensuring consistent heat dissipation under variable load conditions.

Model Number: R1G175-AE73-10

Brand: ebm-papst

Product Type: EC Centrifugal Fan

Impeller Diameter: 175mm

Rated Voltage: 48 VDC

Voltage Range: 36 - 52 VDC

Rated Power: 100 W

Rated Current: 2.1 A

Rated Speed: 3430 RPM  
Max. Air Flow: 382.6 CFM (650 m<sup>3</sup>/h)  
Max. Static Pressure: 1.85 inH<sub>2</sub>O (460 Pa)  
Bearing Type: Ball Bearing  
Motor Type: M1G074-BF  
Blade Material: PA Plastic (Glass-fiber reinforced)  
Number of Blades: 7  
Direction of Rotation: Clockwise (viewed toward rotor)  
Ingress Protection: IP20  
Insulation Class: B  
Operating Temperature: -25°C to +60°C  
Speed Control: 0-10 VDC / PWM Control input  
Signal Output: Tachometer Output  
Protection: Reverse Polarity, Locked Rotor Protection  
Weight: 1.2 kg  
Termination: Lead Wires  
Certifications: UL, CSA, VDE, CE

The R1G175-AE73-10 is frequently deployed in critical infrastructure environments such as telecommunications base stations and high-density server racks where space is at a premium but airflow cannot be compromised. Engineers often specify the R1G175-AE73-10 for medical imaging equipment and precision CNC machinery cooling due to its controllable speed input, allowing for dynamic adjustment based on real-time thermal loads. Additionally, this model serves effectively in compact air handling units and ventilation systems requiring a high pressure-to-size ratio.

## Supplemental Images

---

