

R3G450-AZ30-01 ebmpapst 380-480VAC 450mm EC Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: [834894829574](#)

Category: Axial & Centrifugal Fans

Price: **\$9,571.99**

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<https://www.equipspares.com/product/r3g450-az30-01-ebmpapst-380-480vac-450mm-ec-centrifugal-fan>

Product Description

The ebmpapst R3G450-AZ30-01 is a high-efficiency EC Centrifugal Fan engineered for demanding industrial thermal management applications. Featuring advanced GreenTech EC motor technology (M3G150-IF), this unit delivers superior aerodynamic performance through its backward-curved impeller design, optimizing airflow while minimizing acoustic resonance and thermal impedance. The robust construction ensures structural rigidity under high-speed operation, while the integrated electronics provide precise control and monitoring capabilities. Designed for continuous operation in harsh environments, the R3G450-AZ30-01 offers exceptional energy efficiency and reliability, making it a critical component for systems requiring substantial static pressure and consistent air movement.

Model Number: R3G450-AZ30-01

Brand: ebmpapst

Product Type: EC Centrifugal Fan

Motor Type: M3G150-IF

Rated Voltage: 400 V

Voltage Range: 380 - 480 VAC

Frequency: 50/60 Hz

Phase: 3~

Rated Current: 8.3 A

Power Consumption: 5370 W
Rated Speed: 2750 RPM
Bearing Type: Ball Bearing
Impeller Diameter: 450 mm
Max. Air Flow: 5000 CFM (8500 m³/h)
Max. Static Pressure: 7.22 inH₂O (1800 Pa)
IP Rating: IP55
Weight: 32.5 kg
Life Expectancy: 40,000 hrs @ 40°C
Blade Material: Aluminum Sheet
Insulation Class: F
Motor Protection: Thermal Overload Protector (TOP)
Speed Control: 0-10 VDC / PWM
Operating Temperature: -25°C to +60°C
Mounting Orientation: Any

The R3G450-AZ30-01 is specifically engineered for critical infrastructure cooling, finding its primary utility in precision computer room air conditioning (CRAC) units and large-scale data center thermal regulation systems. Its high-pressure capabilities make it ideal for overcoming the resistance of high-density filters and heat exchangers in industrial ventilation. Additionally, the R3G450-AZ30-01 is utilized in complex air handling units (AHUs) and variable refrigerant flow (VRF) systems where consistent, high-volume airflow is non-negotiable for maintaining equipment integrity.

Supplemental Images

