

G2E120-AR77-01 ebm-papst 230VAC 120mm Centrifugal Blower Datasheet



Brand: ebmpapst

SKU: 1013120570714

Category: Axial & Centrifugal Fans

Price: \$279.99

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Product Page:

<https://www.equipspares.com/product/g2e120-ar77-01-ebm-papst-230vac-120mm-centrifugal-blower>

Product Description

The ebm-papst G2E120-AR77-01 is a Centrifugal Blower engineered for critical thermal management applications requiring high static pressure and consistent airflow delivery. This unit features a robust AC external rotor asynchronous motor integrated directly into the impeller hub, optimizing compactness and rotational stability. The aerodynamic design utilizes a single-inlet scroll housing with forward-curved blades, constructed to minimize turbulence and enhance efficiency. Designed with precision ball bearings and a die-cast aluminum housing, the blower ensures exceptional structural rigidity and longevity under continuous operation. Its thermal impedance characteristics make it suitable for demanding industrial environments where reliable heat dissipation is paramount.

Model Number: G2E120-AR77-01

Brand: ebm-papst

Product Type: AC Centrifugal Blower (Single Inlet)

Motor Type: M2E068-DF (External Rotor)

Rated Voltage: 230 VAC

Frequency: 50 / 60 Hz

Rated Current: 0.35 / 0.44 A

Power Input: 80 / 100 W

Rated Speed: 2350 / 2450 RPM

Max. Air Flow: 153.0 CFM (260 m³/h)

Max. Static Pressure: 1.40 inH₂O (350 Pa)
Impeller Diameter: 120mm
Bearing Type: Ball Bearing
Capacitor: 2.0 μ F / 450 VDB
Insulation Class: B
Motor Protection: Thermal Overload Protector (TOP) wired internally
Ingress Protection: IP44
Housing Material: Die-cast aluminum
Impeller Material: Sheet steel, hot-galvanized
Direction of Rotation: Clockwise, seen on rotor
Mounting Orientation: Any
Electrical Connection: Leads / Terminal Block
Operating Temperature: -25°C to +55°C
Weight: 5.18 lbs (2.35 kg)
Life Expectancy: > 40,000 Hours (L10 at 40°C)
Compliance: CE, CCC, VDE

The G2E120-AR77-01 is specifically calibrated for high-density industrial applications such as control cabinet cooling, frequency converter ventilation, and precision medical instrumentation. In server rack environments, the G2E120-AR77-01 provides the necessary static pressure to overcome impedance caused by dense component layouts and filters. Additionally, this model is frequently utilized in CNC machinery and telecommunications infrastructure where continuous, maintenance-free operation is critical for system reliability.

Supplemental Images

