

G1G170-AB31-03 ebm-papst 24VDC 170mm EC Centrifugal Blower Datasheet



Brand: ebmpapst

SKU: [886108885718](#)

Category: Axial & Centrifugal Fans

Price: **\$1,350.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/g1g170-ab31-03-ebm-papst-24vdc-170mm-ec-centrifugal-blower>

Product Description

The ebm-papst G1G170-AB31-03 is a precision-engineered EC centrifugal blower designed specifically for high-efficiency combustion applications and gas condensing technology. Utilizing advanced GreenTech EC motor technology, this unit delivers superior aerodynamic performance with optimized thermal impedance and reduced energy consumption compared to AC equivalents. The construction features a robust die-cast aluminum housing ensuring structural rigidity and effective heat dissipation, critical for high-temperature environments. Equipped with maintenance-free ball bearings, the G1G170-AB31-03 ensures long-term reliability under continuous operation. Its integrated electronics provide precise speed control via PWM or 0-10V interface, making it ideal for modulating gas condensing boilers where exact air-fuel ratios are critical for thermal efficiency and emissions control.

Model: G1G170-AB31-03

Brand: ebm-papst

Product Type: EC Centrifugal Gas Blower

Rated Voltage: 24VDC

Voltage Range: 16.0 - 28.0 VDC

Rated Power: 45 W

Rated Current: 2.1 A

Rated Speed: 4730 RPM

Max. Air Flow: 164.8 CFM (280 m³/h)

Max. Static Pressure: 4.01 inH₂O (1000 Pa)

Bearing Type: Ball Bearing

Motor Technology: EC (Electronically Commutated)

Speed Control: PWM / 0-10V Control Input

Tachometer Output: Yes

Housing Material: Die-cast Aluminum

Impeller Material: Sheet Steel, Hot-dip Galvanized

Insulation Class: Class F

Ingress Protection: IP20

Operating Temperature: -25°C to +60°C

Storage Temperature: -40°C to +80°C

Mounting Orientation: Any

Weight: 1.6 kg

Termination: Lead Wires

Certifications: CE, UL, CSA

Protection Features: Locked-rotor protection, Soft start, Reverse polarity protection

The G1G170-AB31-03 is specifically engineered for premix gas burners and condensing boiler systems requiring precise combustion air delivery. In residential and commercial heating sectors, the G1G170-AB31-03 ensures optimal fuel efficiency by modulating airflow to match burner demand dynamically. Additionally, this blower is utilized in fuel cell technology and specialized industrial process heating applications where compact, high-pressure air movement is mandatory for system stability.

Supplemental Images

