

# G2E140-PI51-42 ebm-papst 230VAC 140mm Centrifugal Blower Datasheet



**Brand:** ebmpapst

**SKU:** [851863661491](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$377.99**

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Product Page:

<https://www.equipspares.com/product/g2e140-pi51-42-ebm-papst-230vac-140mm-centrifugal-blower>

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## Product Description

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The ebm-papst G2E140-PI51-42 is a robust Single Inlet Centrifugal Blower engineered for high-pressure industrial air movement. Utilizing an advanced external rotor AC motor architecture, this unit integrates a forward-curved impeller directly onto the rotor, optimizing aerodynamic efficiency and minimizing the overall structural footprint. The housing is constructed from galvanized sheet steel, ensuring exceptional structural rigidity and corrosion resistance in harsh operating environments. Designed with precision maintenance-free ball bearings, the G2E140-PI51-42 delivers consistent performance with low thermal impedance, making it suitable for continuous duty cycles. Its electromechanical design balances high airflow throughput with significant static pressure capabilities, adhering to strict industrial standards for reliability, vibration control, and operational longevity.

Model Number: G2E140-PI51-42

Brand: ebm-papst

Product Type: Single Inlet Centrifugal Blower

Rated Voltage: 230 VAC

Frequency: 50 / 60 Hz

Voltage Range: 200 - 240 VAC

Rated Current: 0.70 A (50Hz) / 0.81 A (60Hz)

Power Input: 160 W (50Hz) / 185 W (60Hz)

Rated Speed: 1950 RPM (50Hz) / 2150 RPM (60Hz)  
Max. Air Flow: 208.9 CFM (355 m<sup>3</sup>/h)  
Max. Static Pressure: 1.20 inH<sub>2</sub>O (300 Pa)  
Capacitor: 4 μF / 450 VDB  
Motor Type: M2E068-DF  
Impeller Diameter: 140 mm  
Bearing Type: Ball Bearing  
Housing Material: Galvanized Sheet Steel  
Impeller Material: Sheet Steel, Galvanized  
Insulation Class: Class B  
Ingress Protection: IP44  
Motor Protection: Thermal Overload Protector (TOP) wired internally  
Mounting Orientation: Any  
Electrical Connection: Lead wires  
Weight: 3.2 kg  
Operating Temperature: -25°C to +50°C  
Compliance: CE, CCC

The G2E140-PI51-42 is widely utilized in critical thermal management systems requiring reliable air delivery against significant back pressure. Common deployments include industrial control cabinet cooling, variable frequency drive (VFD) ventilation, and specialized HVAC air handling units. The G2E140-PI51-42 is also frequently integrated into commercial kitchen exhaust systems and cleanroom filtration setups where consistent airflow is paramount. Its durable construction allows the G2E140-PI51-42 to operate effectively in machinery cooling applications, ensuring optimal component temperatures in automated manufacturing lines and telecommunications infrastructure.

## Supplemental Images

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