

D2E146-CD51-09 ebmpapst 230V 146mm AC Centrifugal Fan

SKU: D2E146-CD51-09

Price: \$629.25

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/d2e146-cd51-09-ebmpapst-230v-146mm-ac-centrifugal-fan/>

Product Description

The ebmpapst D2E146-CD51-09 is a robust 230 V single-phase AC dual-inlet centrifugal fan featuring a 146 mm forward-curved galvanized steel impeller integrated into a heavy-duty scroll housing. Driven by the M2E068-DF external rotor motor, this unit is engineered for stable air displacement in industrial environments, delivering a powerful airflow at 1850 RPM with a power consumption of 230 W. The design features a galvanized steel housing and impeller, an unpainted rotor surface, and a PA plastic guard grille for enhanced safety. Optimized for high-resistance systems, it requires a minimum back pressure of 200 Pa to maintain operational stability and prevent motor overload. This compact, all-metal air-moving solution is ideal for air conditioning units, laboratory fume hoods, and electronic cabinet cooling across an ambient temperature range of -25 °C to 30 °C.

D2E146-CD51-09 Fan Parameters

Model Number: D2E146-CD51-09

Manufacturer: ebmpapst

Motor Model: M2E068-DF

Series: AC Centrifugal Series

Type: AC Centrifugal Fan (Dual-Inlet with Scroll Housing)

Size: 146 mm

Dimensions: 225 x 241 x 176 mm

Bearing Type: Ball Bearing

Nominal Voltage: 230 VAC

Voltage Range: 220 - 240 VAC

Phase: 1~

Frequency: 50 Hz

Weight: 4.2 kg

Power Consumption: 230 W

Nominal Current: 1.01 A

Speed: 1850 RPM

Required Capacitor: 4 μ F / 450 VDB (S2 standard)

Min. Back Pressure: 200 Pa

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)

Max. Static Pressure: 9.81 mmH₂O (96.24 Pa / 0.39 inH₂O)

Motor Design: Single-phase External Rotor Motor (PSC)

Motor Protection: Thermal overload protector (TOP) internally connected

Insulation Class: Class B

Touch Current: < 0.75 mA

Electrical Hookup: Axial cable

Number of Blades: 42 (Forward-curved)

Direction of Rotation: Counter-clockwise, viewed toward rotor

Impeller Material: Sheet steel, galvanized

Housing Material: Sheet steel, galvanized

Guard Grille Material: PA plastic

Rotor Surface: Unpainted

Installation Position: Any

Condensate Discharge Holes: None

Degree of Protection: IP44

Environmental Protection Class: H0 (Dry environment)

Operating Temperature: -25 - +30 °C

Standard Compliance: EN 60335-1

Approval Agency: CCC, EAC

Application

The ebmpapst D2E146-CD51-09 centrifugal fan is primarily utilized in air conditioning units, electronic cabinet cooling, fume hood ventilation, laboratory equipment cooling, and small air handling systems.

Product Images







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