



D2E133-AM47-01 ebmpapst

Brand: ebmpapst

SKU: D2E133-AM47-01

Category: AC Fans

URL: <https://www.fansco.com/item/d2e133-am47-01-ebmpapst/>

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Product Description

D2E133-AM47-01 ebmpapst 230VAC 170.5x180x215mm 353CFM Ball 55dB(A) 200W 1800RPM IP44 4 Wire Leads Blower Centrifugal AC Fan.

The D2E133-AM47-01 is a forward-curved, dual-inlet AC centrifugal fan manufactured by ebm-papst, designed for efficient air movement in a variety of ventilation applications. Featuring a flange-free housing constructed from hot-galvanized steel, with a rotor partially cast in aluminum, the fan balances durability, corrosion resistance, and lightweight operation. Measuring 133 mm in diameter and weighing 3.48 kg, it offers flexible installation in any orientation, supported by a single-side motor bracket and an axial cable exit with color-coded wiring—blue for U1, brown for Z, black for U2, and green/yellow for protective earth—ensuring straightforward electrical connections.

Powered by the M2E068-DF single-phase induction motor, the fan operates at 230V AC with compatibility for both 50Hz and 60Hz frequencies. At 50Hz (free air operation), it runs at 1500 rpm, consuming 190W of power with a current draw of 0.84A, while at 60Hz (max. load), it reaches 1800 rpm, with power inputs of 200W (CE certified) or 210W (UL 2111 certified for North America), supported by a 3 μ F/450V motor capacitor for reliable starting. A built-in thermal overload protector (TOP) provides safety by automatically disconnecting power during overheating, preventing motor damage, and leakage current is strictly limited to below 0.75mA, meeting strict safety standards for direct human contact environments.

The fan's aerodynamic performance adapts to varying backpressure conditions, delivering up to 710 m³/h of airflow in free air (0Pa backpressure) at 50Hz, and maintaining 295 m³/h even at the maximum 275Pa backpressure. At 60Hz, it provides 565 m³/h at 100Pa backpressure and 180 m³/h at the higher 375Pa backpressure, demonstrating efficient operation in systems with moderate to high resistance. Its forward-curved blades optimize airflow in low-to-moderate backpressure scenarios, while the hot-galvanized steel construction ensures long-term durability in dusty or moist environments, thanks to an IP44 protection rating that shields against solid particles larger than 1.0mm and splashing water from all directions.

Certified to CE, CCC, and UL 2111 standards, the D2E133-AM47-01 complies with international safety requirements, including EN 60335-1 for household appliances and UL 2111 for North American HVAC applications, making it suitable for global markets. Designed for continuous operation (S1 duty cycle), it withstands storage and transport temperatures ranging from -40°C to +80°C,

though operational ambient temperatures are limited to 35°C for 50Hz and 25°C for 60Hz to ensure optimal motor performance and lifespan.

Ideal for household use in kitchen exhaust systems, bathroom ventilation, and air conditioners, as well as commercial and light industrial applications such as small air handling units, control cabinet cooling, and retail space ventilation, the fan’s compact design and reliable performance make it a versatile choice. While its fixed-speed design requires external controls for speed adjustment and it is best suited for moderate-temperature environments, its robust construction, multi-region compliance, and efficient airflow characteristics position it as a practical solution for standardized ventilation needs where durability and safety are paramount.

Technical Specifications

Attribute	Value
Part Number	D2E133-AM47-01
Manufacturer	ebm-papst
Series	D2E133
Fan Type	AC
Voltage Rating	230 VAC
Dimensions	170.5x180x215 mm
Air Flow	353 CFM
Air Flow (m3)	9.88m³/min
Static Pressure	0.401 in H2O (100.0 Pa)
Bearing Type	Ball Bearing
Subcategory	Blower, Centrifugal
Noise Level	55 dB(A)
Power Rating	200 W
Fan Speed	1800 RPM
Termination	4 Wire Leads
IP Rating	IP44
Operating Temperature	-40 ~ 176°F (-40 ~ 80°C)
Approval Agency	CCC, CE, UL

Weight

7.8 lbs (3.5 kg)





