



R2E280-AE52-05 ebmpapst

Brand: ebmpapst

SKU: R2E280-AE52-05

Category: Axial Fans

URL: <https://www.fansco.com/item/r2e280-ae52-05-ebmpapst/>

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Product Description

R2E280-AE52-05 ebmpapst 230VAC 280mm Ball 225W 2700RPM 4 Wire Leads IP44 Axial

Fan

Equipped with the M2E068-EC single-phase motor, the R2E280-AE52-05 operates on a 230VAC/50Hz power supply, delivering a rated speed of 2700 min⁻¹ and an input power of 225W. Under free-air operation (0Pa backpressure), it achieves a robust air flow of 2110 m³/h, efficiently catering to ductless exhaust or light-load air delivery scenarios where unobstructed airflow is critical. Its 11 backward-curved blades are engineered to optimize aerodynamic performance: by minimizing eddy current losses through a precision-contoured design, this configuration enhances energy efficiency by 10–15% compared to traditional forward-curved blade setups, while also reducing noise generation for quieter operation.

As system backpressure increases to 200Pa, the fan maintains stable performance with a consistent airflow of 1655 m³/h and a marginal power increase to 230W, showcasing exceptional adaptability to varying load conditions. Even at the maximum measurable backpressure of 400Pa, it continues to operate reliably, sustaining a flow rate of 1070 m³/h with a power input of 324W—making it well-suited for medium-low pressure applications such as air handling units, industrial control cabinet cooling, and machinery ventilation systems. The backward-curved blade technology not only balances airflow, energy efficiency, and noise control but also ensures stable performance across a wide operational range, positioning the R2E280-AE52-05 as a dependable choice for applications requiring consistent, efficient air movement under moderate dynamic loads.

Technical Specifications

Attribute	Value
Part Number	R2E280-AE52-05
Manufacturer	ebm-papst
Dimensions	280 mm
Series	R2E280
Voltage Rating	230 VAC
Bearing Type	Ball Bearing
Features	Capacitor, Thermal Overload Protection (TOP)
Power Rating	225 W
Fan Speed	2700 RPM
Termination	4 Wire Leads
Noise Level	76 dB(A)
IP Rating	IP44
Operating Temperature	-13 ~ 104°F (-25 ~ 40°C)
Approval Agency	CCC

Fan Type	AC
Weight	3.5kg
Subcategory	Motorized Impellers
Approval Agency	CCC EAC
Material Blade	Steel
ECCN	EAR99
REACH Status	REACH Unaffected
RoHS Status	ROHS3 Compliant





