

YWF4D-450S Weiguang 380VAC 450mm IP54 Axial Fan Motor Datasheet



Brand: Weiguang

SKU: [850558089005](#)

Category: Axial & Centrifugal Fans

Price: **\$154.99**

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Product Page:

<https://www.equipspares.com/product/ywf4d-450s-weiguang-380vac-450mm-ip54-axial-fan-motor>

Product Description

The Weiguang YWF4D-450S is a high-efficiency external rotor axial fan designed for critical thermal management in industrial and commercial refrigeration environments. This unit integrates a three-phase AC induction motor directly into the impeller hub, a design that significantly reduces the overall footprint while enhancing aerodynamic stability and cooling performance. Engineered with a robust metal construction and coated for corrosion resistance, the fan ensures structural rigidity and durability under continuous duty cycles. The motor features precision maintenance-free ball bearings to minimize friction and thermal impedance, extending the operational lifespan. With an IP54 ingress protection rating, the YWF4D-450S provides reliable defense against dust and splashing water, making it an optimal choice for condensers and evaporators requiring consistent volumetric airflow and static pressure.

Model Number: YWF4D-450S

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Product Type: External Rotor Axial Fan

Rated Voltage: 380 VAC

Frequency: 50 Hz

Phase: 3-Phase

Rated Current: 0.75 A

Input Power: 375 W

Output Power: 200 W
Rated Speed: 1360 RPM
Blade Diameter: 450 mm
Air Flow Direction: Suction
Bearing Type: Ball Bearing
Max. Air Flow: 3266 CFM (5550 m³/h)
Max. Static Pressure: 75 Pa (0.30 inH₂O)
Ingress Protection: IP54
Insulation Class: Class F
Motor Type: AC Induction
Number of Poles: 4
Material: Coated Steel Grid and Blades
Operating Temperature: -30°C to +60°C
Mounting: Grid Mount
Certifications: CE, CCC

The YWF4D-450S is widely deployed in commercial refrigeration sectors, serving as a primary cooling component for cold storage evaporators and outdoor condensing units. Manufacturers of HVAC chillers and industrial heat exchangers rely on the YWF4D-450S for its compact external rotor design and ability to maintain airflow in harsh environments. Additionally, this model is suitable for general ventilation in workshops and equipment cabinets where space-saving and high reliability are paramount.

Supplemental Images

