

FB050-VDK.4I.V4S Ziehl-Abegg 400VAC 500mm Axial Fan Datasheet



Brand: Ziehl-Abegg

SKU: 794778791868

Category: Axial & Centrifugal Fans

Price: **\$762.86**

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Product Page:

<https://www.equipspares.com/product/fb050-vdk-4i-v4s-ziehl-abegg-400vac-500mm-axial-fan>

Product Description

The Ziehl-Abegg FB050-VDK.4I.V4S is a robust industrial axial fan engineered for high-efficiency air movement in demanding thermal management environments. Utilizing an advanced AC external rotor motor design, this unit integrates sickle-shaped sheet aluminum blades to minimize noise generation while maximizing aerodynamic throughput and static pressure capabilities. The system features high-grade ball bearings ensuring long-term operational stability and reduced thermal impedance under continuous duty cycles. Its construction adheres to strict IP54 protection standards, offering substantial resistance against dust and moisture ingress, making it suitable for applications where structural rigidity and precise airflow control are critical performance metrics.

Model Number: FB050-VDK.4I.V4S

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Product Type: Axial Fan

Rated Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Phase: 3-Phase

Frequency: 50 / 60 Hz

Rated Current: 0.74 A

Power Input: 360 W

Rated Speed: 1350 RPM

Bearing Type: Ball Bearing
Max. Air Flow: 4414 CFM (7500 m³/h)
Max. Static Pressure: 14.2 mmH₂O (140 Pa)
Blade Diameter: 500mm
Motor Size: 106
Number of Blades: 4
Blade Material: Sheet Aluminium (Die-cast)
Ingress Protection: IP54
Insulation Class: F (155°C)
Min. Ambient Temperature: -40°C
Max. Ambient Temperature: +70°C
Weight: 8.5 kg
Termination: Terminal Box
Motor Protection: Thermal Overload Protector (TOP)
Direction of Airflow: V (Suction over stator)
Mounting Orientation: Any
Compliance: CE, ErP 2015

The FB050-VDK.4I.V4S is specifically designed for large-scale HVAC and industrial cooling applications requiring reliable heat dissipation. Common deployments include commercial condenser units, refrigeration systems, and heat exchangers where consistent airflow is paramount. The FB050-VDK.4I.V4S is also frequently utilized in agricultural ventilation, transformer cooling banks, and general factory air circulation systems. Its durable construction ensures the FB050-VDK.4I.V4S maintains optimal performance in environments requiring consistent thermal regulation, such as server room exhaust banks and heavy machinery cooling circuits.

Supplemental Images

