

# FN050-4EK.4I.V7P1 Ziehl-Abegg 230VAC 500mm 7-Blade Axial Fan Datasheet



**Brand:** Ziehl-Abegg

**SKU:** 738507407709

**Category:** Axial & Centrifugal Fans

**Price:** **\$1,114.99**

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Product Page:

<https://www.equipspares.com/product/fn050-4ek-4i-v7p1-ziehl-abegg-230vac-500mm-7-blade-axial-fan>

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## Product Description

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The Ziehl-Abegg FN050-4EK.4I.V7P1 is a robust AC axial fan engineered for demanding HVAC applications and precision cooling systems. Featuring an advanced external rotor motor integrated with bionic sickle-shaped blades, this unit optimizes aerodynamic efficiency while significantly reducing acoustic emissions and turbulence. The construction utilizes high-grade die-cast aluminum and coated steel, ensuring structural rigidity and superior thermal impedance management under continuous operation. Designed with an IP54 ingress protection rating and THCL 155 thermal class, the fan delivers reliable performance in harsh outdoor environments. Its optimized airflow dynamics minimize energy consumption, making it an ideal solution for heat exchange systems requiring consistent static pressure and operational longevity.

Model Number: FN050-4EK.4I.V7P1

Brand: Ziehl-Abegg

Product Type: Axial Fan

Rated Voltage: 230 VAC

Voltage Range: 207 - 253 VAC

Phase: 1~ (Single Phase)

Frequency: 50 / 60 Hz

Rated Current: 3.20 A (50Hz) / 3.50 A (60Hz)

Power Input: 720 W (50Hz) / 790 W (60Hz)

Rated Speed: 1340 RPM (50Hz) / 1490 RPM (60Hz)  
Bearing Type: Ball Bearing  
Max. Air Flow: 5179 CFM (8800 m<sup>3</sup>/h / 146.6 m<sup>3</sup>/min)  
Max. Static Pressure: 0.60 inH<sub>2</sub>O (150 Pa / 15.3 mmH<sub>2</sub>O)  
Blade Diameter: 500 mm  
Number of Blades: 7  
Blade Design: Sickle-shaped (Profiled)  
Blade Material: Die-cast Aluminum  
Guard Grill: Integrated Steel Wire (Coated)  
Capacitor: 14 µF / 400 VDB  
Ingress Protection: IP54  
Insulation Class: THCL 155  
Motor Protection: Thermal contact (Internal)  
Operating Temperature: -40°C to +70°C  
Mounting Orientation: Any  
Weight: 10.2 kg  
Life Expectancy: >40,000 Hours (L10)  
Certifications: CE, UL, CCC

This high-performance axial fan is specifically calibrated for precision cooling in critical infrastructure. The FN050-4EK.4I.V7P1 is extensively utilized in computer room air conditioning (CRAC) units and outdoor condenser systems where thermal regulation is paramount. Additionally, the FN050-4EK.4I.V7P1 serves as a vital component in industrial heat exchangers, refrigeration chillers, and ventilation systems for telecommunication shelters, ensuring operational stability for sensitive electronic equipment.

## Supplemental Images

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