

# ZN050-VDL.4I.V7P1 Ziehl-Abegg 400VAC 500mm Axial Fan Datasheet



**Brand:** Ziehl-Abegg

**SKU:** [692235900854](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$4,342.89**

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Product Page:

<https://www.equipspares.com/product/zn050-vdl-4i-v7p1-ziehl-abegg-400vac-500mm-axial-fan>

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## Product Description

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The Ziehl-Abegg ZN050-VDL.4I.V7P1 is a precision-engineered Axial Fan designed for demanding industrial HVAC applications. Utilizing advanced AC external rotor motor technology coupled with an aerodynamically optimized impeller, this unit delivers superior airflow while maintaining low thermal impedance. The robust construction ensures structural rigidity under high-load operations, making it ideal for continuous duty cycles in harsh environments. Engineered with German precision, the fan features a durable coated steel housing and high-grade ball bearings that minimize friction and vibration, significantly extending the operational lifespan. Its design focuses on maximizing static pressure capabilities, ensuring efficient heat dissipation in complex ventilation systems requiring reliable air movement performance and thermal stability.

Model Number: ZN050-VDL.4I.V7P1

Brand: Ziehl-Abegg

Product Type: Axial Fan

Rated Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Frequency: 50 / 60 Hz

Phase: 3-Phase

Rated Current: 1.85 A

Power Input: 850 W

Rated Speed: 1350 RPM  
Bearing Type: Maintenance-free Ball Bearing  
Max. Air Flow: 4414 CFM (7500 m<sup>3</sup>/h)  
Max. Static Pressure: 15.3 mmH<sub>2</sub>O (150 Pa)  
Blade Diameter: 500mm  
Number of Blades: 7  
Impeller Material: Sheet Steel (Coated)  
Motor Technology: AC External Rotor  
Ingress Protection: IP54  
Insulation Class: F  
Operating Temperature: -40°C to +70°C  
Storage Temperature: -40°C to +80°C  
Noise Level: 72 dB(A)  
Termination: Terminal Box  
Mounting Orientation: Any  
Thermal Protection: Thermal Overload Protector (TOP)  
Certifications: CE, UL, CCC  
Weight: 12.5 kg  
Life Expectancy: > 40,000 Hours (L10)

This high-capacity air movement solution is primarily utilized in large-scale HVAC systems, including rooftop condensing units and industrial chillers. The ZN050-VDL.4I.V7P1 is frequently integrated into heat exchangers and refrigeration equipment where consistent airflow is critical for thermal regulation. Additionally, the ZN050-VDL.4I.V7P1 serves as a vital component in agricultural ventilation and transformer cooling arrays, providing the necessary air volume to maintain safe operating temperatures in sensitive infrastructure and manufacturing environments.

## Supplemental Images

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