

ZN091-ZIL.GL.V5P1 ZIEHL-ABEGG 910mm ZAplus EC Axial Fan

SKU: ZN091-ZIL.GL.V5P1

Price: \$4,698.28

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/zn091-zil-gl-v5p1-ziehl-abegg-910mm-zap-lus-ec-axial-fan/>

Product Description

The ZIEHL-ABEGG ZN091-ZIL.GL.V5P1 is a premium industrial EC axial fan from the ZAplus high-efficiency system, featuring a 910 mm impeller. It is powered by the advanced ECblue motor technology (Size MK152), designed for 3-phase 380-480 V AC operation. The ZAplus system integrates a bionic blade design (FE2owlet) with a high-strength, UV-stabilized composite nozzle and diffuser, which significantly increases pressure recovery while minimizing acoustic emissions. This fan is the global benchmark for high-performance cooling in data center chillers, massive air-cooled condensers, and industrial heat exchangers where maximum energy efficiency and intelligent MODBUS communication are required.

ZN091-ZIL.GL.V5P1 Fan Parameters

Model: ZN091-ZIL.GL.V5P1

Manufacturer: ZIEHL-ABEGG (Germany)

Type: EC Axial Fan with ZAplus System

Series: ZAplus / ECblue / FE2owlet

Impeller Size: 910 mm

Nominal Voltage: 3~ 380 - 480 V AC

Operating Voltage Range: 380 V AC to 480 V AC (+/- 10%)

Frequency: 50/60 Hz

Rated Input Power: 3.10 kW

Rated Current: 4.80 A - 5.10 A

Number of Blades: 5 (FE2owlet bionic profile with serrated trailing edges)

Motor Design: ECblue (High-efficiency permanent magnet motor)

Motor Size: MK152-ZIK.GL.V5P1

Rated Speed: 1080 RPM

Max. Airflow: 26,500 m³/h (15,597 CFM)

Max. Static Pressure: 280 Pa (1.12 inAq)

Noise Level: 76.0 dB(A)

Bearing Type: Maintenance-free Ball Bearings

Insulation Class: Class F (155 °C)

Protection Class: IP55 (Control unit and motor)

Electrical Protection: Integrated Active PFC, Thermal Overload, Locked-rotor, Phase Failure, Overvoltage Protection

Control Interface: MODBUS RTU, 0-10 VDC / PWM input, Integrated PID controller

Sensor Type: Speed Output (Open Collector), Status Relay (1x 250V AC 2A)

Nozzle/Frame Material: High-performance, UV-stabilized composite material (ZAplus)

Impeller Material: Die-cast Aluminum / High-performance composite

Life Expectancy: > 80,000 h (at 40 °C)

Operating Temperature Range: -35 °C to +60 °C

Storage Temperature Range: -40 °C to +80 °C

Mass: 45.5 kg

Certifications: CE, UL, CSA, ErP 2020 Compliant, EAC, UKCA

Application

The ZIEHL-ABEGG ZN091-ZIL.GL.V5P1 is the flagship thermal solution for mission-critical industrial cooling. Its FE2owlet blades, inspired by the silent flight of an owl, feature serrated trailing edges to drastically reduce turbulence and acoustic noise. The ZAplus housing acts as a multi-functional diffuser, converting air velocity into static pressure, which allows the fan to operate at significantly higher efficiencies in high-resistance environments like V-shaped condensers and large-scale dry coolers. The ECblue motor provides full intelligence with a built-in MODBUS interface, enabling seamless integration into Building Management Systems (BMS) for real-time monitoring of power consumption, motor temperature, and operating hours. Its robust IP55 rating and high-performance composite frame ensure unmatched reliability for outdoor rooftop installations in harsh climates.

Product Images







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