

# RH63M-VDK.7Q.1R Ziehl-Abegg 400V 630mm AC Centrifugal Fan

**SKU:** RH63M-VDK.7Q.1R

**Price:** \$3,524.57

**Categories:** Fans

**Tags:** Ziehl-Abegg

**Product Link:**

<https://www.electspares.com/product/rh63m-vdk-7q-1r-ziehl-abegg-400v-630m-ac-centrifugal-fan/>

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## Product Description

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The Ziehl-Abegg RH63M-VDK.7Q.1R is a high-performance 3-phase AC Centrifugal Fan featuring a 630 mm backward-curved Cpro impeller, precision-engineered from fiberglass-reinforced composite material. Powered by the high-torque MK165-VDK.14.U external rotor motor, this unit operates on a 400 VAC supply (Delta/Star) and is optimized for the most demanding AHU (Air Handling Unit) and FanGrid applications. It delivers a maximum airflow of 14,350 m<sup>3</sup>/h at a rated speed of 1230 RPM (50Hz, Δ-connection). The Cpro series is renowned for its bionic blade geometry, which minimizes acoustic turbulence and maximizes static pressure efficiency (up to 750 Pa). With a maximum power input of 2.6 kW and IP54 protection, this 31.5 kg module provides 24/7 mission-critical reliability for 400V global industrial infrastructures, offering superior chemical resistance and reduced rotational inertia compared to traditional steel impellers.

RH63M-VDK.7Q.1R Fan Parameters

Manufacturer: Ziehl-Abegg

Model Number: RH63M-VDK.7Q.1R

Motor Model: MK165-VDK.14.U

Phase: 3~

Type: Centrifugal Fan with Cpro Impeller (Backward-curved)

Impeller Size: 630 mm

Dimensions: 630 mm (Diameter) x 394 mm (Total Axial Depth)

Nominal Voltage: 400 VAC (Δ/Y)

Frequency: 50 / 60 Hz

[50 Hz Operation Data]

- Wiring: Δ (Delta) / Y (Star)

- Speed: 1230 / 890 RPM
- Power Input (P1): 2.60 / 1.45 kW
- Current Draw: 4.80 / 2.70 A
- Max. Ambient Temp: +45 °C

[60 Hz Operation Data]

- Speed: 1250 / 820 RPM
- Power Input (P1): 3.20 / 1.65 kW
- Current Draw: 5.40 / 3.00 A
- Max. Ambient Temp: +40 °C

Efficiency Data (ErP 2015):

- Static Efficiency ( $\eta_{es}$ ): 61.2 %
- Efficiency Grade: N 65.4
- Specific Ratio: 1.00

Max. Airflow: 14,350 m<sup>3</sup>/h (50 Hz) / 15,100 m<sup>3</sup>/h (60 Hz)

Max. Static Pressure: 750 Pa (3.01 inAq)

Noise Level (Inlet side): 76 dB(A)

Weight: 31.5 kg

Impeller Material: Cpro composite (Fiberglass-reinforced PP)

Number of Blades: 7

Direction of Rotation: Clockwise (viewed from suction side)

Degree of Protection: IP54

Insulation Class: F (155 °C)

Environmental Protection Class: H1 (Humidity resistant)

Motor Protection: Thermal contact (TB) wired to terminals (must be connected)

Condensation Drainage: Drainage holes on motor side (openable)

Motor Surface: Unpainted die-cast aluminum

Mode of Operation: S1 (Continuous duty)

Bearing Type: Sealed Ball Bearing (Maintenance-free)

Conformity & Approvals: CE, ErP 2015/2021, EAC, UKCA

Application

The Ziehl-Abegg RH63M-VDK.7Q.1R is the definitive air-moving solution for medium-to-large scale Air Handling Units (AHU), industrial data center cooling, and clean-room recirculation systems. Its 630 mm Cpro composite impeller is specifically engineered for low-noise operation and high resistance to aggressive environments, making it ideal for hospital ventilation and pharmaceutical production areas. The 400V 3-phase dual-speed ( $\Delta/Y$ ) capability allows for flexible integration into building management systems (BMS), enabling high-performance airflow at 1230 RPM or high-efficiency, reduced-noise operation at 890 RPM. With its 31.5 kg robust construction and H1 moisture protection, the RH63M provides high-velocity, reliable heat rejection and climate control for global 50/60 Hz industrial power grids.

## Product Images

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