

RH45M-4DK.4I.1R Ziehl-Abegg 400VAC 450mm Centrifugal Fan Datasheet



Brand: Ziehl-Abegg

SKU: [800634315971](#)

Category: Axial & Centrifugal Fans

Price: **\$857.99**

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Product Page:

<https://www.equipspares.com/product/rh45m-4dk-4i-1r-ziehl-abegg-400vac-450mm-centrifugal-fan>

Product Description

The Ziehl-Abegg RH45M-4DK.4I.1R is a high-efficiency centrifugal fan designed with advanced external rotor motor technology. Featuring a backward-curved motorized impeller, this unit optimizes aerodynamic performance while minimizing acoustic resonance. The construction ensures superior structural rigidity and low thermal impedance, making it ideal for demanding industrial ventilation requirements. Engineered for continuous operation, the motor integrates robust bearing architecture to support high radial loads, ensuring longevity and reliability in complex air handling systems. The design facilitates optimal airflow dynamics, reducing turbulence and enhancing overall system efficiency.

Model Number: RH45M-4DK.4I.1R

Brand: Ziehl-Abegg

Product Type: Centrifugal Fan (Motorized Impeller)

Rated Voltage: 400VAC (3-Phase)

Frequency: 50/60 Hz

Connection Type: Star (Y) / Delta (D)

Rated Current: 1.45 A

Power Input: 0.78 kW

Rated Speed: 1390 RPM

Bearing Type: Maintenance-free Ball Bearing

Max. Air Flow: 3825 CFM (6500 m³/h)

Max. Static Pressure: 2.41 inH₂O (600 Pa)

Impeller Diameter: 450mm

Blade Material: High-performance Composite / Aluminum

Motor Type: AC External Rotor

Ingress Protection: IP54

Insulation Class: F (155°C)

Operating Temperature: -20°C to +60°C

Motor Protection: Thermal Overload Protector (TOP)

Weight: 10.5 kg

Mounting Orientation: Any

Certifications: CE, UL, CCC

This motorized impeller is widely utilized in precision air handling units (AHUs), roof fans, and industrial ventilation systems requiring consistent airflow. The RH45M-4DK.4I.1R is frequently integrated into cleanroom filtration setups and heat recovery devices where reliability is paramount. Additionally, the RH45M-4DK.4I.1R serves as a critical component in cooling large-scale electronics and telecommunications infrastructure, providing effective thermal dissipation in restricted spaces.

Supplemental Images

