

RH25V-6IK.BD.1R Ziehl-Abegg 200-277V EC Centrifugal Fan

SKU: RH25V-6IK.BD.1R

Price: \$2,154.63

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/rh25v-6ik-bd-1r-ziehl-abegg-200-277v-ec-centrifugal-fan/>

Product Description

The Ziehl-Abegg RH25V-6IK.BD.1R is a high-performance single-phase EC Centrifugal Fan module featuring a 250 mm ZABluefin backward-curved impeller made of High Performance Composite Material. Integrated with a premium EC external rotor motor and a built-in controller, this unit is finished in the signature RAL 5002 ultramarine blue. It is designed for a wide voltage range of 200-277 VAC (50/60 Hz), delivering 0.50 kW of power at a maximum speed of 4000 RPM. This 4.80 kg compact module achieves IE5 efficiency standards with an efficiency grade of Nactual 72.0, providing superior air displacement and acoustic comfort. Featuring IP54 protection, active temperature management, and a BASIC-MODBUS interface, the RH25V-6IK.BD.1R provides an intelligent, energy-saving, and ultra-quiet cooling solution for space-constrained industrial and commercial HVAC systems.

RH25V-6IK.BD.1R Fan Parameters

Manufacturer: Ziehl-Abegg

Motor Model: MK085-6IK.BD.1R

Phase: 1~

Type: EC Centrifugal Fan with ZABluefin Impeller

Impeller Size: 250 mm

Dimensions: 250 mm (Diameter) x 182 mm (Axial Depth)

Weight: 4.80 kg

[Electrical Data - 50/60 Hz]

- Nominal Voltage: 1~ 200 - 277 VAC

- Power Input (Ped): 0.50 kW

- Current Draw: 2.50 - 1.80 A

- Rated Speed: 4000 RPM

- Max. Ambient Temp: 60 °C

[Performance & Efficiency]

- Max. Airflow: 2,450 m³/h
- Max. Static Pressure: 1,100 Pa
- Static Efficiency (η_{statA}): 61.5 %
- Efficiency Class: IE5
- Efficiency Grade: $N_{actual} = 72.0 / N_{target} = 62$
- ErP Data: ErP 2015 compliant

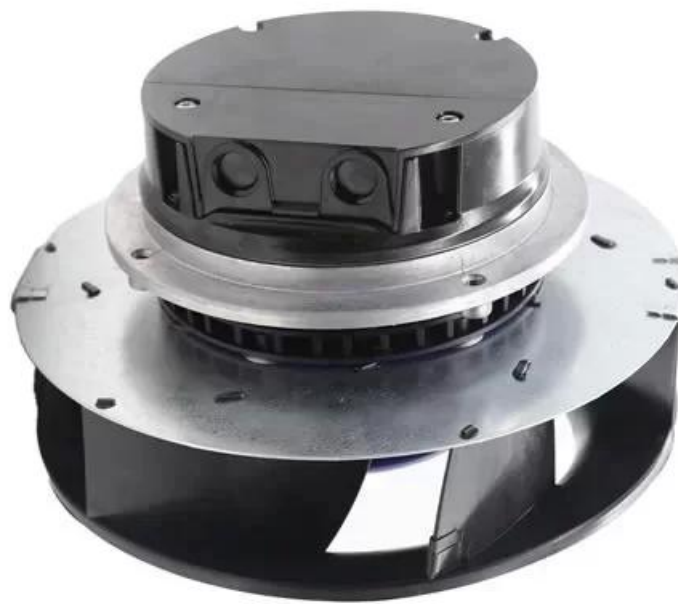
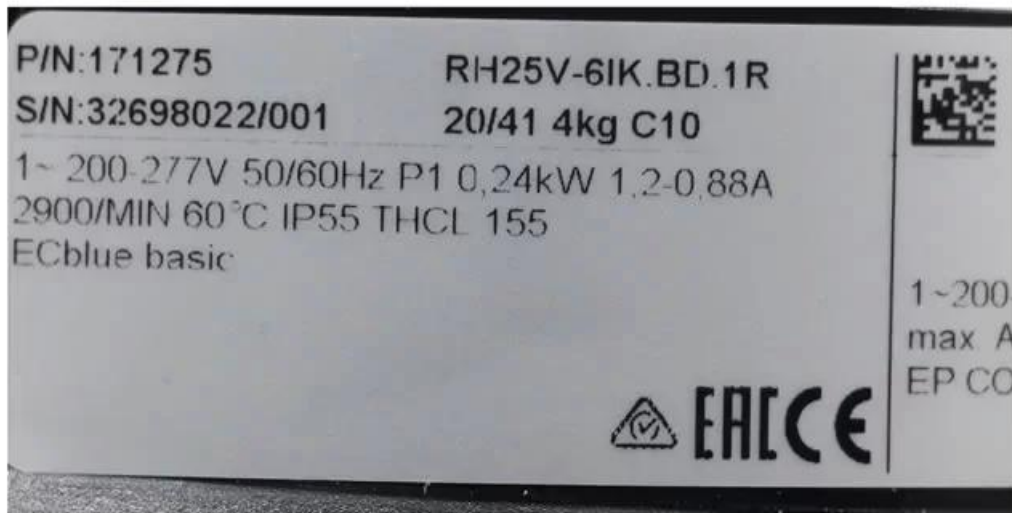
[Materials & Construction]

- Impeller Material: High Performance Composite Material
- Colour (Rotor/Impeller): RAL 5002 (Ultramarine blue)
- Control Interface: BASIC-MODBUS / 0-10V / PWM
- Degree of Protection: IP54
- Thermal Class: 155 (Class F)
- Motor Protection: Integrated active temperature management
- Min. Operating Temp: -20 °C
- Balance Quality: G 2.5
- Installation Position: H/Vu/Vo (Flexible mounting)

Application

The Ziehl-Abegg RH25V-6IK.BD.1R is the premier air-moving solution for high-performance, space-limited applications such as Precision Air Conditioning (PAC) for server rooms, Fan Filter Units (FFU) in pharmaceutical clean rooms, and high-end residential heat recovery ventilation (HRV) systems. Its 250 mm ZABluefin impeller features bionic serrated trailing edges that mimic the silent flight of an owl, significantly reducing turbulent noise even at high speeds of 4000 RPM. The integrated EC controller supports seamless Demand-Controlled Ventilation (DCV) via MODBUS or 0-10V signals, allowing for precise airflow management and real-time system monitoring. With its IE5 efficiency class, ultra-light 4.8 kg weight, and RAL 5002 blue composite construction, the RH25V-6IK provides a durable, energy-intelligent, and vibration-free cooling solution for modern 200-277V single-phase infrastructures.

Product Images





Scan for product details:

