

RH63M-6DK.6N.1R Ziehl-Abegg 230/400V AC Centrifugal Fan

SKU: RH63M-6DK.6N.1R

Price: \$2,924.85

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/rh63m-6dk-6n-1r-ziehl-abegg-230-400v-ac-centrifugal-fan/>

Product Description

The Ziehl-Abegg RH63M-6DK.6N.1R (Article No. 130157) is a high-performance 3-phase AC Centrifugal Fan featuring a 630 mm backward-curved aluminum impeller. Powered by the MK137-6DK.20.U external rotor motor, this 28.20 kg unit is designed for versatile global integration, supporting 230V Delta (Δ) or 400V Star (Y) power supplies. It delivers a maximum air flow of 5474 m³/h at its optimum efficiency point with a pressure increase of 370 Pa, operating at a rated speed of 910 RPM (50 Hz). The unit features IP54 protection, a thermal class 155 (F) rating, and is specialized for moisture and hot climate protection. With its RAL 7032 pebble grey painted motor and G 6.3 balance quality, the RH63M-6DK.6N.1R provides a reliable and efficient air-moving solution for mission-critical industrial ventilation and AHU systems requiring 230V/400V 3-phase power.

RH63M-6DK.6N.1R Fan Parameters

Manufacturer: Ziehl-Abegg

Type: RH63M-6DK.6N.1R

Motor Model: MK137-6DK.20.U (6-Pole)

Phase: 3~

Designation: Single inlet impeller with backward curved blades

Impeller Size: 630 mm

Weight: 28.20 kg

[Electrical Data - 50 Hz]

Nominal Voltage: 230 VAC (Δ) / 400 VAC (Y) $\pm 10\%$

Power Input (P1): 1.15 kW

Current Draw: 5.20 A (Δ) / 3.00 A (Y)

Speed: 910 RPM

Power Factor (COSY): 0.55

Max. Ambient Temp: 70 °C

[Electrical Data - 60 Hz]

Nominal Voltage: 265 VAC (Δ) / 460 VAC (Y) $\pm 10\%$

Power Input (P1): 1.90 kW

Current Draw: 6.30 A (Δ) / 3.60 A (Y)

Speed: 1060 RPM

Power Factor (COSY): 0.66

Max. Ambient Temp: 60 °C

[ErP 2015 Data]

Air Flow (qv) at Eta opt: 5474 m³/h

Pressure Increase (pfs) at Eta opt: 370 Pa

Input Power (P1) at Eta opt: 1147 W

Static Efficiency (η_{statA}): 52.5 %

Efficiency Grade: $N_{actual} = 62.4 / N_{target} = 62$

Frequency Inverter Required: Yes

[Materials & Construction]

Impeller Material: Aluminum

Motor Painting: 1 coat paint resistance class 1 (L-TI-0596)

Motor Colour: RAL 7032 (Pebble grey)

Balance Quality: G 6.3

Degree of Protection: IP54

Thermal Class: 155 (Class F)

Min. Operating Temp: -40 °C

Motor Protection: Thermal contact

Quality of Bearings: Ball bearing with long-time lubrication

Electrical Connection: Supply cable side, 9x 0.82mm² (AWG18) x 105cm

Connection Diagram: 1360-106XA

Installation/Fitting Position: H/Vu/Vo (Any position)

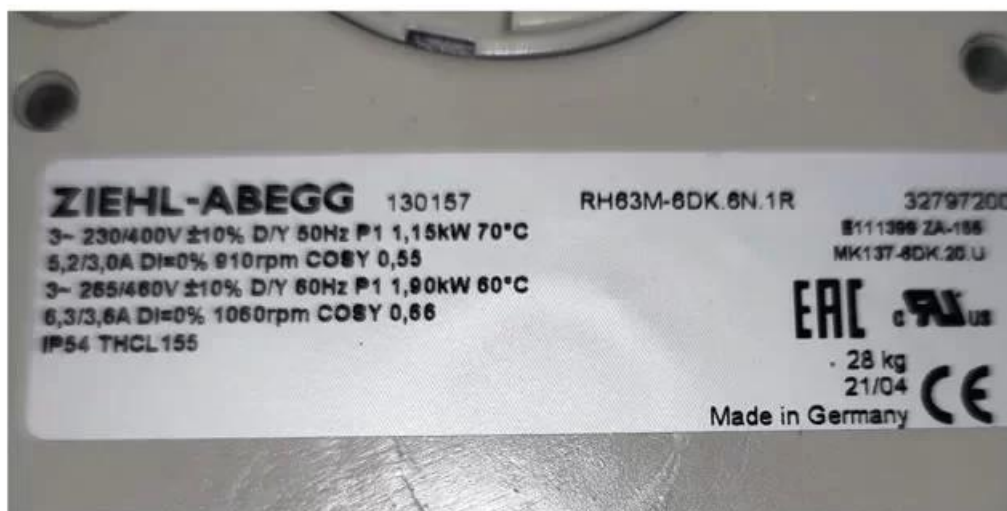
Application

The Ziehl-Abegg RH63M-6DK.6N.1R is a high-duty industrial centrifugal fan engineered for large-scale Air Handling Units (AHU), commercial HVAC systems, and industrial process ventilation. Unlike standard composite models, this specific variant features a robust 630 mm aluminum impeller, making it exceptionally suited for environments with extreme temperature fluctuations (operating from -40 °C to +70 °C) or where metal construction is required for fire safety and mechanical durability.

With its 6-pole MK137-6DK.20.U motor, the unit is optimized for high-volume airflow (8710 m³/h at optimum efficiency) while maintaining high static pressure (370 Pa), effectively overcoming resistance from dense filter banks or long ducting networks. The dual-voltage (230V Delta / 400V Star) flexibility allows for seamless integration into diverse global power grids, particularly

in 230V 3-phase industrial sites requiring the 5.20 A high-torque performance. Rated with an efficiency grade of Nactual 62.4, this fan is an ideal choice for energy-conscious FanGrid arrays and pharmaceutical clean rooms where reliable, S1 continuous-duty performance and precise air displacement are mission-critical.

Product Images





Article number
130157

The Royal League Die Königsklasse

2. Product specification - Technical data

| | |
|----------------------------|--|
| Article number | 130157 |
| Type | RH63M-6DK.6N.1R |
| Designation | Single inlet impeller with backward curved blades. |
| Rated values | 3~230/400V $\pm 10\%$ Δ/Y 50Hz P ₁ 1.15kW 5.20/ 3.00A $\Delta I=0\%$ 910/min COSY 0,55 70°C 3~265/460V $\pm 10\%$ Δ/Y 60Hz P ₁ 1.90kW 6.30/ 3.60A $\Delta I=0\%$ 1060/min COSY 0,66 60°C |
| Electrical connection | Supply cable side, 9x 0,82mm ² (AWG18)x 105cm |
| ErP Data | Measurement category ErP: A Air flow q _v on Eta opt: 5474 m ³ /h Pressure increase p _{fs} on Eta opt: 370 Pa Input power P ₁ on Eta opt: 1147 W Efficiency η_{statA} : 52.5 % Efficiency grade: N _{actual} = 62.4 / N _{target} = 62* Frequency inverter required *ErP 2015 |
| Min. operating temperature | -40°C*** |
| Thermal class | Thermal class 155 |
| Cable quality | Li7Y2G-J |
| Material impeller | Impeller made of aluminium |
| Connection diagram | 1360-106XA |
| Installation position | Fitting position H/Vu/Vo |
| Fitting position mot | Mounting position H/Vu/Vo |
| Motor protection | thermal contact |
| Type of protection | IP54 |
| Impregnation | Moisture and hot climate protection |
| Quality of bearings | ball bearing with long-time lubrication |
| Labelling UL/CSA | E111399 ZA-155, MK137-6DK.20.U |
| Painting motor | Motor 1 coat paint resistance class 1 (L-TI-0596) |
| Colour motor | 2T58036999 RAL 7032 (pebble grey) |
| Balance quality | G 6.3 |
| Weight | 28,20 kg |

*** Operation mode:

Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02.

Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Permissible minimum and maximum ambient temperature for operation:

Please refer to the technical documentation of the product for the minimum and maximum ambient temperature valid for the respective fan. Operation below -25 °C as well as partial load operation for refrigeration applications is only possible with special bearings for refrigeration applications on request. If special bearings for refrigeration applications are installed in the fan, please observe the permissible maximum temperatures in the technical documentation of the product.

www.ziehl-abegg.com
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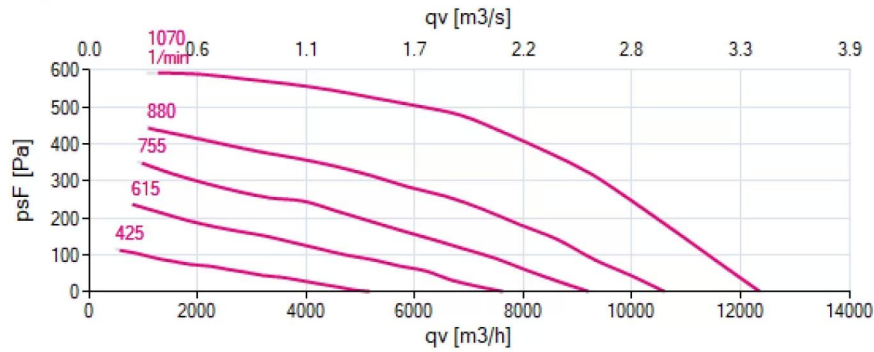
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6. Characteristic Curve

RH63M-6DK.6N.1R
3~ 460V 60Hz Y

measured in standard nozzle in installation type A according to ISO 5801
measurement density 1,16 kg/m³

Air performance



Please note: It's not allowed to use this fan in the stall area!*

*In doubt please ask your responsible ZIEHL-ABEGG sales contact.

Scan for product details:

