

Plug Fan DKH... / EKH...



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D/EKH... - Plug fan

with AC-motor

- Various high-performance radial impellers available
- different mechanical configurations available
- wide range of voltage- and frequency-controlled configurations
- maintenance free operation through lifetime lubricated ball bearings



Description:

Rosenberg AC-Radial fans in combination with a voltage-controllable external-rotor motor form a very compact, efficient and optimized fan unit. They impress with low installation depth and a simple installation. Fast start-up is ensured because of well-integrated components.

Applications:

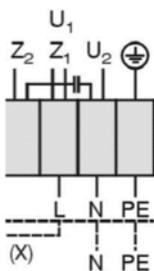


Mechanical Configuration:

Plug fans, in dependence of the fan type, are available in different mechanical designs. Mounting either with horizontal or vertical motor shaft.

- _KHR, RRE** = Motorized impeller
- _KHM, RRM** = Fan module type "Module" cone and supporting frame included
- _KHS** = Fan module type "Spider" cone and supporting frame included
- _KHB** = Fan Module type "Mounting Stand" cone and supporting frame included

Electrical connection:



The electrical connection is made either via a connection cable designed by the motor or via a terminal box attached to the motor.

Impellers:



E-Impeller:

E-series impeller (Revolution series) made of black UV-stabilised polypropylene (PP) reinforced with long glass fibre, with 7 profiled blades curved backwards and a narrow circumferential diffuser to optimise efficiency. Noise-optimised, weight-reduced and corrosion-resistant design, volume-flow-oriented behaviour.

Product range: 315, 355, 400, 450, 500, 560 mm.



W-Impeller:

Aluminium impeller (AlMg3) with 8 backward curved blades. Compact, versatile design.

Product range: 315, 355, 400, 450, 500, 560 mm.



B-Impeller:

Aluminium impeller (AlMg3) with 7 backward curved blades and rotating diffuser with optimized efficiency. Noise-optimised design. Pressure-oriented behaviour.

Product range: 250, 280, 315, 355, 400, 450, 500, 560, 630 und 710 mm.



F-Impeller:

Efficiency-optimised impeller made of galvanized sheet steel with 7 backward curved blades.

Product range: 225 und 250 mm.

Motor and Motor Protection:

The voltage-controlled AC motors are characterized by a compact, robust design and a good controlling behaviour in combination with variable frequency drives (VFD) or a transformer. Voltage controlled AC external rotor motor complies to UL 1004-1.



Motor Protection:

The motor protection with Rosenberg AC-motors is provided by thermal contacts put into the windings of the motor. When properly connected these protect the motor from overloading due to phase failure, excessive medium temperature or blocked rotor. If an external evaluation of the thermal contacts is required, we recommend Rosenberg motor protection devices, which are available in various versions as accessories.

Air volume control:

For more information see accessories.



5-Step controlling:

via transformer (RTE, RE, RTD)

Infinitely variable controlling:

via variable frequency drive (VFD)

Scope of delivery:

- Plug Fan (DKH / EKH)
- Documentation