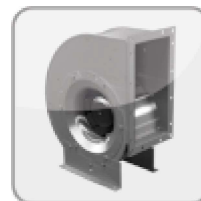


## EHAD/E... - Centrifugal Fan in scroll casing

single inlet with backward curved impeller

- all 90° mounting positions available
- compact AC external rotor motor
- integrated motor protection via thermal contacts



### Description:

Rosenberg single inlet Radial Fans in scroll casing were especially developed for Process Air Technology and Air Conditioning. Through the different positions available as mounting stand and their compact design they're versatile even in confined spaces.

### Applications:

Railway / Wind Power / Compressors / Air Handling Units / Industrial Buildings

### Mechanical Configuration:

Single and double inlet centrifugal fans made from galvanised sheet metal.

#### Size 225 - 400

The side parts of the scroll is assembled with the spirally shaped guide plate through a stranding seam. The side parts are produced with nut sets to fix the mounting brackets, which can be fixed in steps of 90°. Installation possible in all 90° positions.

#### Size 450 - 560

Casing in rectangular shape. Installation possible in all 90° positions.

Direction of rotation for fan series EHA is clockwise viewed from the inlet side. For fan series DHA it is counter-clockwise viewed from the cable outlet.

### Impeller:

Impeller made of aluminum (AlMg3) with backward curved blades.

Product range: 225, 250, 280, 315, 355, 400, 450, 500 and 560 mm.

### Motors:

The voltage controllable AC-motors are characterized by a compact, robust design and a good controlling behaviour in combination with Variable Frequency Drives (VFD) or a transformer.

### UL-Version:

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.

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#### **Electrical connection:**

The electrical connection is made via cables from the motor.

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#### **Air volume control:**

For more information see accessories.

#### **5-Step Controlling:**

via transformer (RTE, RE, RTD)

#### **Infinitely variable controlling:**

via Variable Frequency Drive (VFD)

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### **IMPORTANT NOTES:**

#### **Air performance curves:**

The air performance curves have been established using the intake test method in the test chamber according to DIN EN ISO 5801. They show pressure increase as a function of the volume flow. Performance curves were recorded in installation type B.

#### **Sound levels:**

The tests and their performance curves were conducted according to DIN 45635 part 38 or. ISO 133347-3 and DIN EN ISO 3744/ 3745 in accordance with the envelope surface method.

The A-weighted sound pressure level at a distance of 1m can be roughly calculated from the sound power level by using the equation below.

$$LpA\ 1m = LwA - 7\ dB(A)$$

The inlet sound power level can be roughly calculated from the outlet sound power level by using the equation below.

$$LwA(in) = LwA(out) - 6\ dB(A)$$

#### **Erp-Information:**

Rosenberg fans have a specific (pressure-) ratio < 1,05 (pressure < 5000 Pa).

#### **Service life:**

For maximum service life of Rosenberg products please beware of the maintenance hints on the manual for each product type.

**Recycling and disposal:**

For recycling and disposal of Rosenberg products comply with applicable locally requirements and regulations.

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