

Industrial Fans



Our Selection of Fans

Industrial Fans



INDUSTRIAL FANS



We offer a wide range of standard fans for a variety of applications and fans for OEM applications. All Rosenberg fans are equipped with direct driven external rotor motors.

THE ADVANTAGES

The Rosenberg fans offer you fans with decisive advantages in comparison to conventional fans:

- extremely long service life
- compact design
- motor and impeller assembled in one unit
- the speed is 100% controllable (auto transformers ; controller)
- low start-up current
- Rosenberg fans are equipped with motor protection through thermal contacts as a standard feature
- The impellers are balanced on 2 levels according to DIN ISO 1940 (quality grade G2.5).

AC motors

The drive using an external rotor motor offers space-saving, compact and attractive design. The engine sits inside the impeller and is thus optimally cooled. For this reason, a 100% variable speed control can be guaranteed. V-belts, additional tension bars and motor mounting devices are not necessary. Only well-dimensioned ball-bearings, fitted on both sides and long-life lubricants are used. Both ball-bearing seats are ground to high precision in one work process to eliminate any vibration.

External rotor motors are also characterised by an extremely low start-up current. The drive motors correspond primarily to protection class IP54 according to DIN EN 60034-5. The winding insulation corresponds to the thermal class F. In addition, the winding has a standard moisture protection impregnation.

EC motors

The EC motors used are characterised by very high efficiency even at partial loads, and excellent control behaviour. They are easy to connect, individually preconfigured, compact in design and have a high power density. The implementation of additional functions (e.g. volumetric flow and pressure control) is possible. Rosenberg EC motors primarily meet protection class IP54; input voltage of 380V-480V (50/60Hz). Rosenberg EC motors are continuous speed controllable and have integrated motor protection.





DUCT FANS

EC Duct fan (Type: KHAG)

Properties

- flow rates up to 12,000 m³/h
- duct size: 40 x 20 cm to 100 x 50 cm
- swing out motor and impeller unit
- backward curved impellers
- integrated control system (EC controller)
- speed is 100% infinitely variable
- sound-proofed version possible (..WS)

Duct fan ; swing-out (Type: KHAE / KHAD)

Properties

- flow rates up to 11,000 m³/h
- duct size: 40 x 20 cm to 100 x 50 cm
- swing out motor and impeller unit
- backward curved impellers
- speed is variable using auto transformers
- extremely low starting current
- sound-proofed version possible (..WS)

Duct Fan (Type: EKAE / EKAD)

Properties

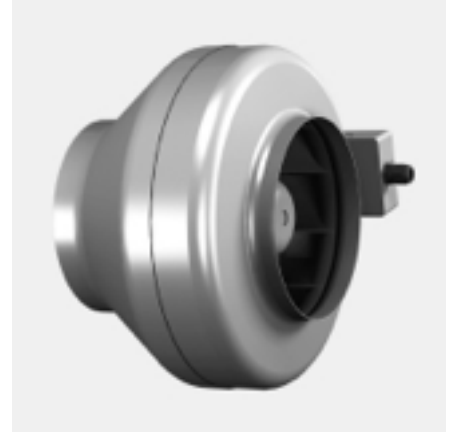
- flow rates up to 8,000 m³/h
- duct size: 40 x 20 cm to 80 x 50 cm
- forward curved impellers
- speed is variable using auto transformers
- extremely low starting current
- compact, space-saving design

TUBE FANS

Tube fans (Type: R)

Properties

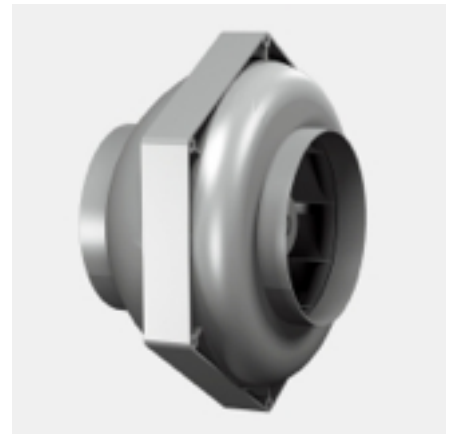
- flow rates up to 5,200 m³/h
- size: 100 - 400 mm (tube diameter)
- steel casing
- backward curved impellers
- can be used in all mounting positions
- speed is 100% infinitely variable using auto transformers or electronic control



Tube fans (Type: RS)

Properties

- flow rates up to 1,700 m³/h
- size: 100 - 315 mm (tube diameter)
- plastic casing
- absolutely resistant to corrosion
- backward curved impellers
- can be used in all mounting positions
- speed is 100% infinitely variable using auto transformers or electronic control
- extremely low noise lev



EC Zerobox (Type: Z...G)

Properties

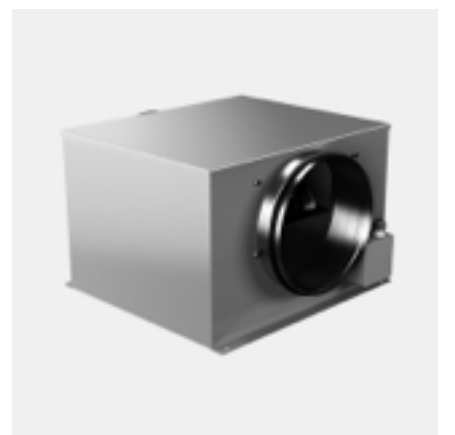
- flow rates up to 2,500 m³/h
- size: 125 - 400 mm (tube diameter)
- insulated casing
- highly efficient EC technology
- can be used in all mounting positions
- easy cleaning and maintenance
- integrated control (EC controller)
- very low noise



Zerobox EVOLUTION (Type: Z...E)

Properties

- flow rates up to 2,400 m³/h
- size: 125 - 400 mm (tube diameter)
- insulated casing
- high volume and pressure performance
- can be used in all mounting positions
- easy cleaning and maintenance
- speed is 100% infinitely variable using auto transformers or electronic control
- very low noise





Centrifugal Fans

We offer a wide range of centrifugal fans for numerous applications. In addition to different casing designs, Rosenberg centrifugal fans are offered in both single and double-sided inlet design. In addition, the fans are also available with different drives. Energy-saving EC external rotor motors, conventional AC external rotor motors as well as IEC standard motors are used. A distinction is also made between fans with forward or backward curved impellers.

| Range | Type | Applications |
|--|----------|---|
| EC-Centrifugal fans with backward curved centrifugal impellers | EHAG... | In this series, only energy efficient EC external rotor motors are used for the drive. The high-performance centrifugal fans with backward curved blades are specially designed for use in modern ventilation and air conditioning equipment, and are suitable for the conveying of slightly dusty air and slightly aggressive gas and vapours. The sizes correspond to the standard number series R20 according to DIN323. |
| Centrifugal fans with backward curved centrifugal impellers | E/DHA... | These centrifugal fans have been developed especially for use in modern ventilation and air-conditioning equipment, and are suitable for the conveying of slightly dusty air and slightly aggressive gas and vapours. The sizes correspond to the standard number series R20 according to DIN232. |
| Centrifugal fans with IEC standard motor and backward curved centrifugal impellers | EHN... | The high performance centrifugal fans of the EHN... series are suitable for the conveying of clean or slightly dusty air and slightly aggressive gas and vapours. They are not gas-tight. The permissible conveying medium temperature is between -30°C and 60°C. |

Centrifugal fans , backward curved

| Range | Type | Applications |
|---|----------|--|
| Centrifugal fans with forward curved centrifugal impellers | E/DRA... | These centrifugal fans have been developed especially for use in modern ventilation and air-conditioning equipment, and are suitable for the conveying of slightly dusty air and slightly aggressive gas and vapours. The sizes correspond to the standard number series R20 according to DIN232. |
| High efficiency Centrifugal fans with slippage characteristics | E/DRA... | By using specially designed external rotor motors with high rotor resistance, we have developed a range of centrifugal fans with extremely high slippage character in conjunction with forward curved centrifugal impellers. The external rotor motor adjusts its operating behaviour to the respective loads and this changes the speed dependent on the total pressure. This is particularly advantageous in systems where resistances vary during operation such as, for example, with dirty filters, controlled dampers in the connection and disconnection of duct installations as well as for cleanroom applications. |
| Centrifugal fans with IEC standard motor and forward curved centrifugal impellers | ERN... | The high performance centrifugal fans of the ERN... series are suitable for the conveying of clean or slightly dusty air and slightly aggressive gas and vapours. They are not gas-tight. The permissible conveying medium temperature is between -30°C and 60°C. |

Centrifugal fans , forward curved

FREE RUNNING IMPELLERS

Free running impellers with EC-drives (Type: GKHM / GKHS / GKHR)

Properties

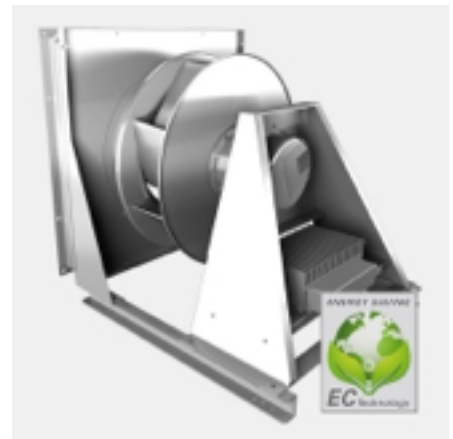
- flow rates up to 17,000 m³/h
- size: 250 - 630 mm (impeller diameter)
- highly efficient EC technology
- backward curved impellers
- integrated control system (EC controller)
- speed is 100% infinitely variable



Free running impellers with EC-drives (Type: GKHB)

Properties

- flow rates up to 23,000 m³/h
- size: 450 - 710 mm (impeller diameter)
- highly efficient EC technology
- backward curved impellers
- integrated control system (EC controller)
- 5-100% continuously adjustable



Free running impellers (Type: DKHM)

Properties

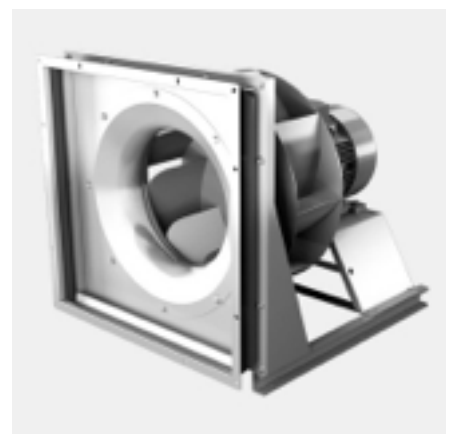
- flow rates up to 15,000 m³/h
- size: 250 - 630 mm (impeller diameter)
- asynchronous external rotor motor
- backward curved impellers
- terminal box design ; alternatively, lateral or axial cable outlet
- compact, space-saving design



Free running impellers (Type: DKNB)

Properties

- flow rates up to 60,000 m³/h
- size: 250 - 1000 mm (impeller diameter)
- backward curved impellers
- IEC standard motors in type 3
- can be installed in all positions
- compact design





AXIAL FANS

EC Axial fans (Type: AKFG)

Properties

- flow rates up to 32,000 m³/h
- size: 560 - 1000 mm (impeller diameter)
- highly efficient EC technology
- sickle formed profiled impellers made of cast aluminium
- integrated control system (EC controller)
- speed is 100% infinitely variable

Axial fans (Type: AKFD)

Properties

- flow rates up to 24,000 m³/h
- size: 560 - 1000 mm (impeller diameter)
- asynchronous external rotor motor
- sickle formed profiled impellers made of cast aluminium
- terminal box design; alternatively, lateral or axial cable outlet
- protection class IP54, thermal class F

Axial fans (Type: AKSE / AKSD)

Properties

- flow rates up to 28,000 m³/h
- size: 315 - 900 mm (impeller diameter)
- asynchronous external rotor motor
- sickle-shaped impellers
- terminal box design; alternatively, lateral or axial cable outlet
- protection class IP54, thermal class F





... AXIAL FANS

EC Axial fans (Type: GQ)

Properties

- flow rates up to 33,000 m³/h
- size: 200 - 1000 mm (impeller diameter)
- highly efficient EC technology
- small depth
- sickle formed profiled impellers
- integrated control system (EC controller)
- speed is 100% infinitely variable

Axial fans (Type: ER/DR and EQ/DQ)

Properties

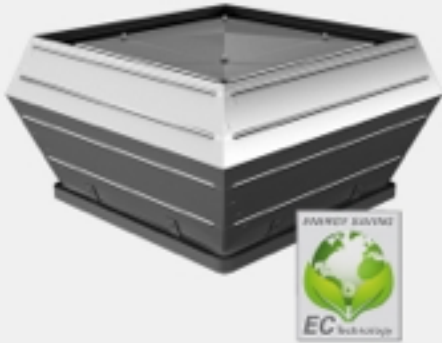
- flow rates up to 34,000 m³/h
- size: 200 - 1000 mm (impeller diameter)
- asynchronous external rotor motor
- small depth
- universally usable in all installation positions
- speed is variable using auto transformers

Axial flow fans (Type: AND / ANDB)

Properties

- flow rates up to 85,000 m³/h
- AND - size: 400 - 710 mm (impeller diameter)
- ANDB - size: 560 - 1000 mm (impeller diameter)
- IEC standard motors as drive
- vertical and horizontal installation possible
- options for varying hub ratio, number of blades and blade angle

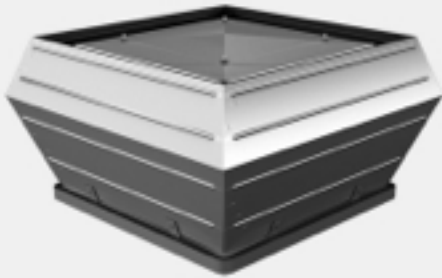




EC Roof fans (Type: DV/S...G / DVW/S...G)

Properties

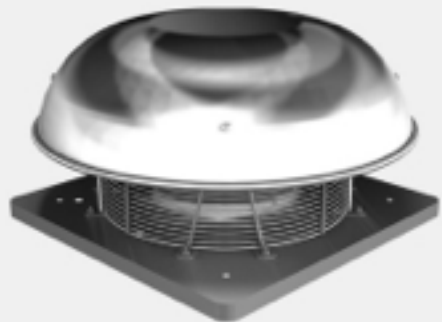
- flow rates up to 15,000 m³/h
- size: 310 - 710 mm (impeller diameter)
- vertical outlet
- highly efficient EC technology
- backward curved impellers
- mounted on/off switch
- solid weatherproof casing
- easy to install
- integrated control system (EC controller)
- speed is 100% infinitely variable
- integrated pressure sensor (type: pressure control)



Roof fans (Type: DV/S, DVW/S)

Properties

- flow rates up to 20,000 m³/h
- size: 190 - 710 mm (impeller diameter)
- vertical outlet
- backward curved impellers
- different models
- solid weatherproof casing
- easy to install



Roof fans (Type: DH, DHW)

Properties

- flow rates up to 15,500 m³/h
- size: 190 - 630 mm (impeller diameter)
- horizontal outlet
- backward curved impellers
- solid weatherproof casing
- easy to install



Roof fans with IEC standard motor (Type: DVN/S, DVWN/S)

Properties

- flow rates up to 36,000 m³/h
- size: 310 - 900 mm (impeller diameter)
- vertical outlet
- IEC standard motors as drive
- suitable for higher conveying temperatures
- backward curved impellers
- different models
- solid weatherproof casing
- easy to install



KITCHEN EXHAUST FANS

Kitchen exhaust unit (Type: KBA...)

Properties

- flow rates up to 8,200 m³/h
- size: 180 - 500 mm (impeller diameter)
- motor out of air stream
- conveying liquid temperatures up to 100°C possible
- for the exhaust of dirty and greasy air
- efficiency-optimised casing-impeller combination
- high efficiency
- door hinge DIN right/left can be variably converted

EC-Unobox-ME (Type: EC-UNO-ME)

Properties

- flow rates up to 13,000 m³/h
- size: 355 - 630 mm (impeller diameter)
- motor out of air stream
- high conveying media temperatures possible
- backward curved impellers
- integrated control system (EC controller)
- discharge upward (standard), operating side can be exchanged
- with built-in emergency stop

Unobox-ME (Type: UNO-ME)

Properties

- flow rates up to 20,000 m³/h
- size: 355 - 630 mm (impeller diameter)
- motor out of air stream
- high conveying media temperatures possible
- backward curved impellers
- removable control cover for easy cleaning
- discharge upward (standard), operating side can be exchanged
- with built-in emergency stop





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