

KR EC 225

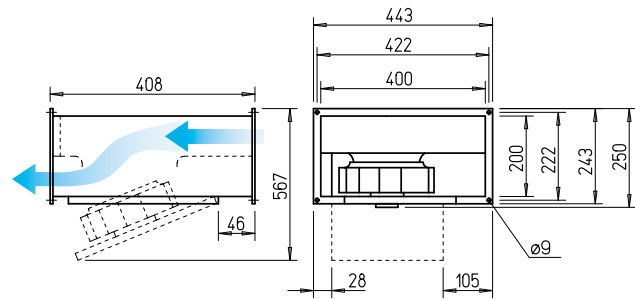


(Fig. similar)

Designed for the delivery of contaminated air.



Dimensions KR EC 225



Dim. in mm

Centrifugal EC rectangular duct fans with backward curved impeller blades. Retractable motor-impeller unit.

- Highly efficient EC motor for the lowest operating costs.
- High-performance impellers with high efficiency.
- Use in extract air and intake air systems for the delivery of larger volume flows.
- Non-critical for the delivery of contaminated air.

Special features

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Compact design, low space requirement, linear rectangular duct throughflow.

Description

- **Casing**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- **Impeller**
Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.
- **Drive**
Energy-saving, speed-controllable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.
- **Motor protection**
Integrated electronic temperature monitoring system for EC motor and electronics.
- **Power control**
Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

■ **Electrical connection**

Terminal box (IP54) mounted to external cable.

■ **Installation**

Installation possible in any position. Note accessibility/swivelling range.

■ **Noise**

The total level and range are specified above the performance diagram for:

- Case-radiated sound power
- Inlet side sound power
- Outlet side sound power.

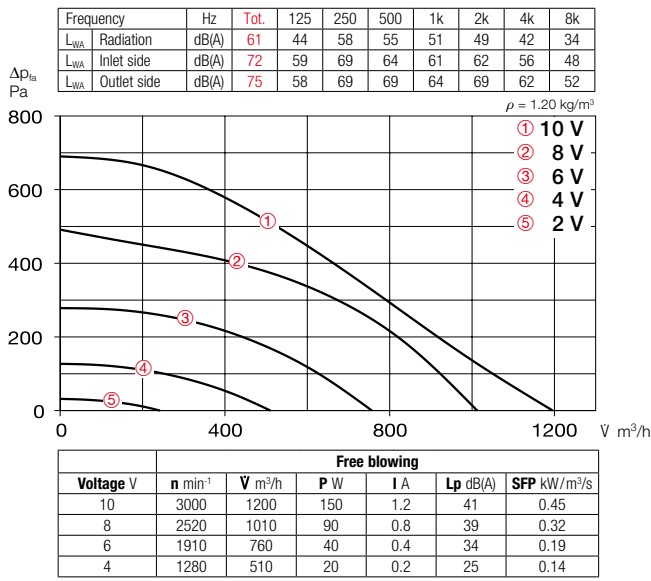
The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

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Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case-radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system		Speed potentiometer		
										Type	Ref. no.	Type	Ref. no.	
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44														
KRW EC 225/40/20	08169	1200	2820	41	0.15	1.19	979	60	8.1	EUR EC ¹⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735

¹⁾ Multiple EC fans can normally be connected. ²⁾ alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories.

Performance curves KRW EC 225/40/20



Accessory details Page

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Filters, heating elements and silencers	481 ff.
Temperature control systems for heating elements	487, 492 f
Universal control system, electronic controllers, speed potentiometer	613 ff.

Accessories

External wall shutter

VK 40/20 Ref. no. 00874

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 40/20 Ref. no. 00109

Stable construction made of extruded aluminium profiles, natural colour anodised.

Multi-leaf damper for rectangular duct installation

JVK 40/20 Ref. no. 06910

Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.

Fitting

FSK 40/20 Ref. no. 00832

For cost-effective integration of rectangular duct fans in round duct systems with Ø 200 mm.

Flexible connector

VS 40/20 Ref. no. 05694

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 40/20 Ref. no. 06919

Flange frame made of galvanised steel sheet for connection to the rectangular duct.

Rectangular duct silencer

KSD 40/20 Ref. no. 08728

For outlet and inlet side insertion in the rectangular duct system.

Rectangular duct air filter

KLF 40/20 Coarse 70%* 08720

KLF 40/20 ePM1 50%* 08644

With large bag filter. Galvanised steel sheet casing with double-sided flanges.

Electric heating element

EHR-K 6/40/20 Ref. no. 08702

EHR-K 15/40/20 Ref. no. 08703

Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.

Temperature control system for electric heating element

EHSD 16 Ref. no. 05003

Warm water heating element

WHR 2/40/20 Ref. no. 08782

WHR 4/40/20 Ref. no. 08783

For installation in rectangular duct system.

Temperature control system for warm water heating element

WHS HE Ref. no. 08319



* See product page 477 for detailed description.