

KR EC 225



(Fig. similar)



Designed for the delivery of contaminated air.

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

- Highly efficient EC motor for low 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.

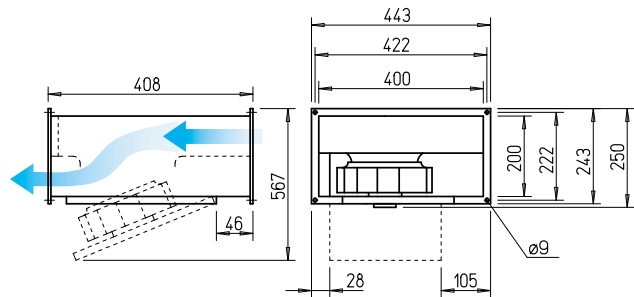
Special features

- 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-efficient, speed-controllable EC external rotor motor with IP44 protection and high efficiency. Maintenance-free and equipped with ball bearings. 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.

Dimensions KR EC 225



Dim. in mm

■ **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.

■ **Reference**

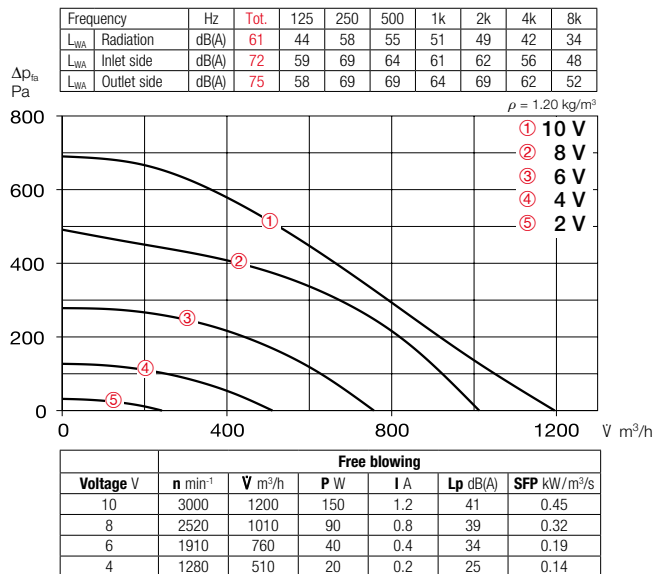
Page

Selection table	439
Techn. description	438
Planning information	14 ff.
Modular system	436

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 flush-mount.	Speed potentiometer surface-mount.
		$\text{V m}^3/\text{h}$	min^{-1}	dB(A) in 4 m	kW	A	No.	$^{\circ}\text{C}$	kg	Type Ref. no.	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⁾²⁾ 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

Shutters and weather prot. grille	482, 563 ff.
Filters, heating elements and silencers	483 ff.
Temperature control systems for heating elements	489, 494 ff.
Universal control system, electronic controllers, speed potentiometer	615 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.