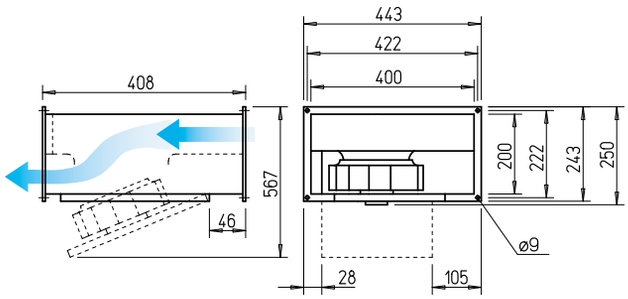
KR EC 225



(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 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.

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.

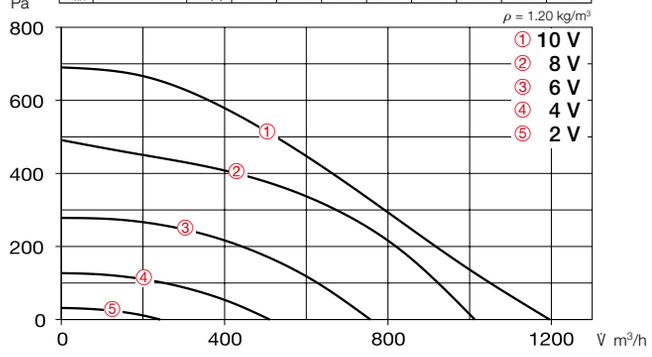
Reference	Page
Selection table	439
Techn. description	438
Planning information	14 ff.
Modular system	436

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.	
		V̇ m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °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

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	61	44	58	55	51	49	42	34
L_{WA}	Inlet side	dB(A)	72	59	69	64	61	62	56	48
L_{WA}	Outlet side	dB(A)	75	58	69	69	64	69	62	52



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3000	1200	150	1.2	41	0.45
8	2520	1010	90	0.8	39	0.32
6	1910	760	40	0.4	34	0.19
4	1280	510	20	0.2	25	0.14

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 f
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.