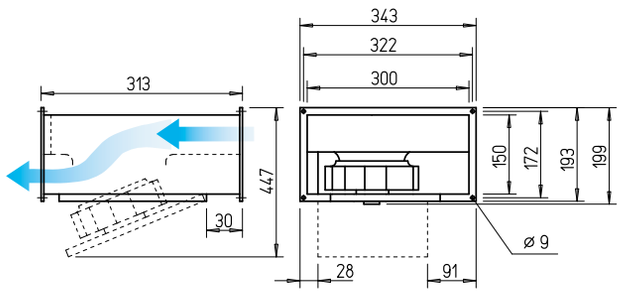
KR EC 180



(Fig. similar)

Designed for the delivery of contaminated air.

Dimensions KR EC 180



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.

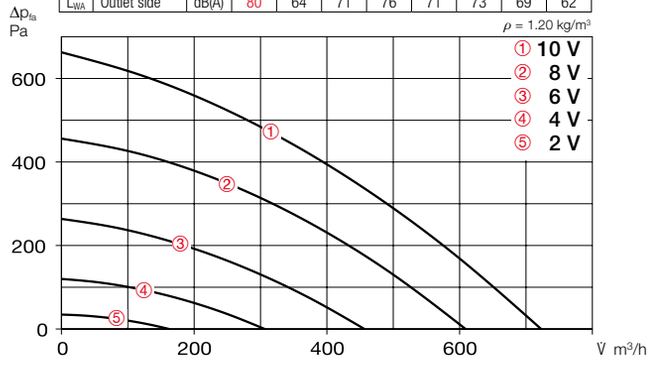
Reference	Page
Selection table	439
Techn. description	438
Planning information	14 ff.
Modular system	436

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 180/30/15	08168	720	3560	41	0.10	0.82	979	60	5.2	**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 180/30/15

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	61	45	56	58	50	50	43	36
L_{WA}	Inlet side	dB(A)	77	63	71	75	64	65	65	55
L_{WA}	Outlet side	dB(A)	80	64	71	76	71	73	69	62



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3630	720	85	0.7	41	0.43
8	3040	610	50	0.5	38	0.30
6	2270	460	20	0.2	33	0.16
4	1510	310	10	0.1	23	0.12

Accessories

External wall shutter
VK 30/15 Ref. no. 00735
Automatic overpressure shutter made of light grey plastic.



Weather protection grille
WSG 30/15 Ref. no. 00108
Stable construction made of extruded aluminium profiles, natural colour anodised.



Multi-leaf damper for rectangular duct installation
JVK 30/15 Ref. no. 06927
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.



Fitting
FSK 30/15 Ref. no. 00831
For cost-effective integration of rectangular duct fans in round duct systems with Ø 160 mm.



Flexible connector
VS 30/15 Ref. no. 06928
Flexible rectangular duct connector with double-sided flange frame.



Counter flange
GF 30/15 Ref. no. 06918
Flange frame made of galvanised steel sheet for connection to the rectangular duct.



Accessory details	Page
Shutters and weather prot. grille	482, 563 ff.
Filters, heating elements and silencers	483 ff.
Universal control system, electronic controllers, speed potentiometer	615 ff.