KR EC 400



(Fig. similar)

Designed for the delivery of contaminated air.

EC

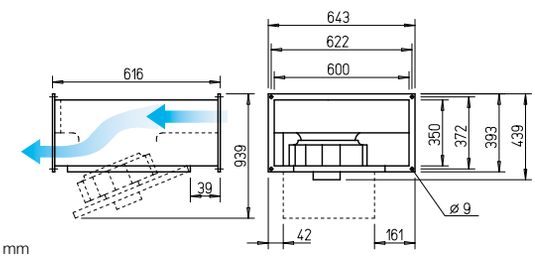
SKR EC 400 – sound-insulated



Low noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

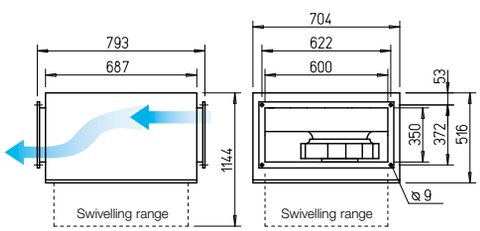
EC

Dimensions KR EC 400



Dim. in mm

Dimensions SKR EC 400 – sound-insulated



Dim. in mm

Features KR EC and SKR EC

- Highly efficient EC motor for low operating costs.
- 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.
- Linear throughflow.
- Compact design, convenient installation.

Special features SKR EC

- Low noise levels for inlet side and case radiation with high performance density.

Description

Casing KR EC
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.

Casing SKR EC
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Common features KR EC and SKR EC

Impeller
Centrifugal, with backward curved blades made of aluminium. 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/swivel angle.

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.

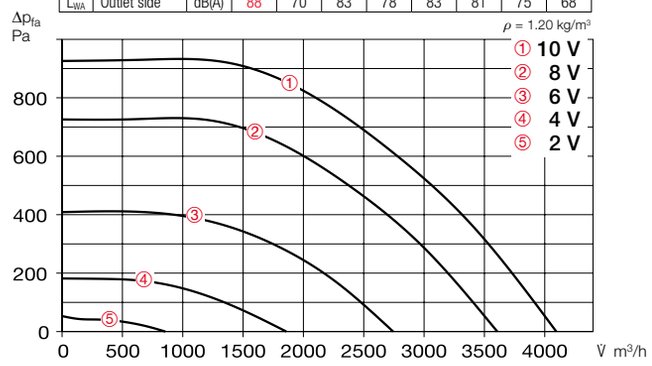
The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

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 400/60/35	08172	4100	2210	49	0.92	4.03	979	60	24.5	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
KRD EC 400/60/35	07591	4580	2510	53	1.30	2.01	1479	60	24.4	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
Sound-insulated SKR EC – Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44															
SKRW EC 400/60/35 [3)]	08177	3960	2210	42	0.91	3.96	979	60	42.0	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
Sound-insulated SKR EC – Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
SKRD EC 400/60/35	08297	4580	2510	46	1.27	1.98	1479	60	42.0	**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. [3)] Performance diagram at www.HeliosSelect.de.

Performance curves KRW EC 400/60/35

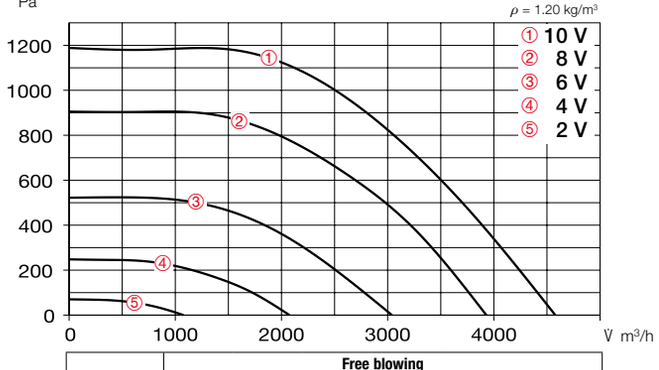
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	69	54	67	61	62	57	51	47
L_{WA}	Inlet side	dB(A)	82	69	76	73	75	75	71	64
L_{WA}	Outlet side	dB(A)	88	70	83	78	83	81	75	68



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2210	4100	680	3.0	49	0.60
8	1960	3610	480	2.1	46	0.48
6	1470	2740	220	1.0	40	0.29
4	980	1860	80	0.5	31	0.15

Performance curves KRD EC 400/60/35

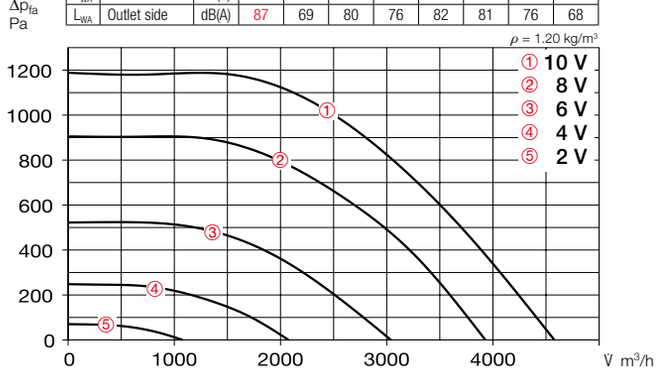
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	73	57	68	66	68	63	56	56
L_{WA}	Inlet side	dB(A)	85	71	77	78	79	79	75	68
L_{WA}	Outlet side	dB(A)	92	71	86	84	87	86	80	73



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2510	4580	925	1.4	53	0.73
8	2170	3930	620	1.0	51	0.57
6	1660	3040	290	0.5	44	0.34
4	1130	2080	110	0.3	35	0.19

Performance curves SKRD EC 400/60/35

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	66	57	64	57	57	51	45	41
L_{WA}	Inlet side	dB(A)	77	68	71	68	67	69	67	60
L_{WA}	Outlet side	dB(A)	87	69	80	76	82	81	76	68



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2510	4580	930	1.4	46	0.73
8	2170	3930	620	1.0	43	0.57
6	1660	3040	290	0.5	40	0.34
4	1130	2080	110	0.3	31	0.19

Accessories

External wall shutter
VK 60/35 Ref. no. 00878
Automatic overpressure shutter made of light grey plastic.



Weather protection grille
WSG 60/35 Ref. no. 00113
Stable construction made of extruded aluminium profiles, natural colour anodised.



Multi-leaf damper for rectangular duct installation
JVK 60/35 Ref. no. 06914
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.



Fitting
FSK 60/35 Ref. no. 00835
For cost-effective integration of rectangular duct fans in round duct systems with Ø 355 mm.



Flexible connector
VS 60/35 Ref. no. 05698
Flexible rectangular duct connector with double-sided flange frame.



Counter flange
GF 60/35 Ref. no. 06923
Flange frame made of galvanised steel sheet for connection to the rectangular duct.



Rectangular duct silencer
KSD 60/30-35 Ref. no. 08730
For outlet and inlet side insertion in the rectangular duct system.



Rectangular duct air filter
KLF 60/30-35 Coarse 70%* 08722
KLF 60/30-35 ePM2.5 65%* 08646
With large bag filter. Galvanised steel sheet casing with double-sided flanges.



Electric heating element
EHR-K 15/60/30-35 No. 08706
EHR-K 30/60/30-35 No. 08707
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 2/60/30-35 No. 08786
WHR 4/60/30-35 No. 08787
For installation in rectangular duct system.



Temperature control system for warm water heating element
WHS HE[1)] Ref. no. 08319

[1)] With heat output reduced to 2200 l/h for Type WHR 4/60/30-35.



* See product page 477 for detailed description.