KR EC 560



Note: Fig. similar. Use two safety arms.
Designed for the delivery of contaminated air.

EC

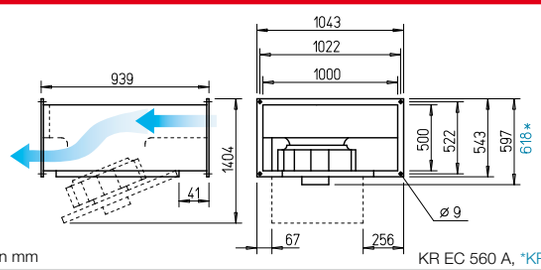
SKR EC 560 – sound-insulated



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

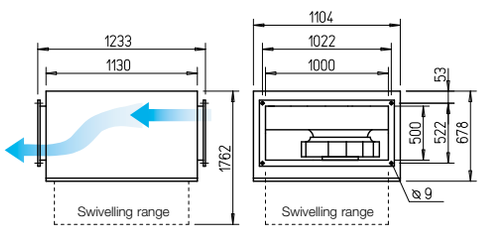
Dimensions KR EC 560



Dim. in mm

KR EC 560 A, *KR EC 560 B

Dimensions SKR EC 560 – 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

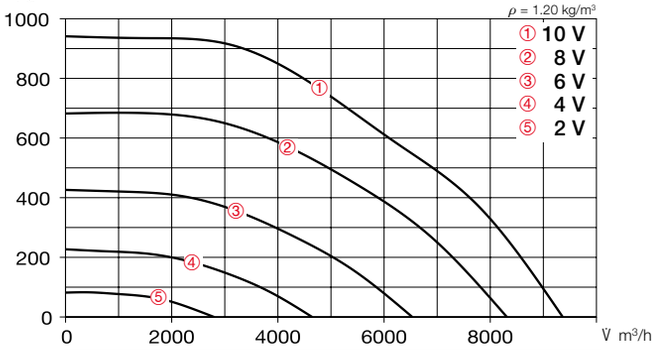
- **Impeller**
  Centrifugal, with backward curved blades (560 A made of aluminium and 560 B made of plastic). Aerodynamically optimised, inlet via nozzle.
- **Drive**
  Energy-efficient, speed-controllable EC external rotor motor with IP44 protection (KRD EC 560/100/50 B and SKRD EC 560/100/50 B IP54) 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.	Prot. cat.	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.
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor																
KRD EC 560/100/50 A	08167	9370	1540	50	1.81	2.80	IP44	1479	60	68.5	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
KRD EC 560/100/50 B	08175	13590	1640	56	4.01	6.10	IP54	1479	60	92.0	**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																
SKRD EC 560/100/50 A [3)]	06130	9370	1540	47	1.81	2.80	IP44	1479	60	92.5	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SKRD EC 560/100/50 B	08180	12900	1640	51	3.88	6.00	IP54	1479	60	117.0	**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 KRD EC 560/100/50 A

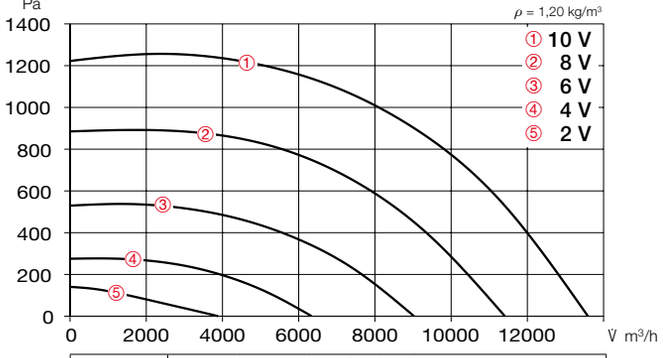
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	70	60	67	64	61	56	48	45
L_{WA}	Inlet side	dB(A)	80	66	70	72	75	74	69	61
L_{WA}	Outlet side	dB(A)	88	71	84	80	83	79	73	64



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1560	9370	1250	1.9	50	0.48
8	1340	8310	810	1.3	48	0.35
6	1050	6530	410	0.7	43	0.23
4	760	4650	170	0.4	34	0.13

Performance curves KRD EC 560/100/50 B

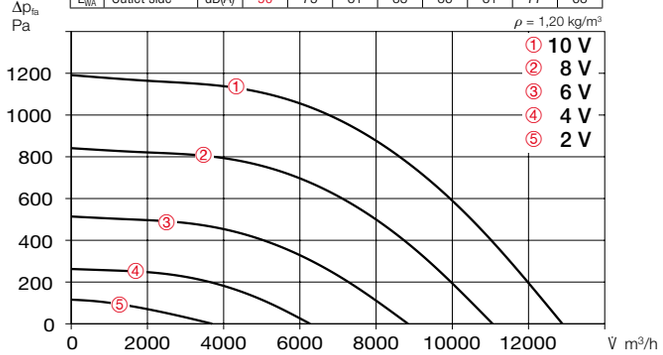
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	76	67	73	68	67	64	59	56
L_{WA}	Inlet side	dB(A)	88	74	77	77	83	82	78	69
L_{WA}	Outlet side	dB(A)	95	78	87	87	91	88	83	75



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1640	13590	3049	4,7	56	0,87
8	1380	11364	1801	2,8	52	0,59
6	1060	9023	870	1,41	46	0,35
4	760	6334	350	0,67	39	0,20

Performance curves SKRD EC 560/100/50 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	71	65	68	59	58	51	47	43
L_{WA}	Inlet side	dB(A)	77	69	72	69	67	65	63	59
L_{WA}	Outlet side	dB(A)	90	75	81	83	86	81	77	68



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1640	12900	3019	4,7	51	0,88
8	1380	11060	1802	2,8	47	0,61
6	1070	8840	889	1,43	42	0,38
4	760	6270	343	0,66	35	0,20

Accessories

External wall shutter
VK 100/50 Ref. no. 00881
Automatic overpressure shutter made of light grey plastic.



Weather protection grille
WSG 100/50 Ref. no. 00116
Stable construction made of extruded aluminium profiles, natural colour anodised.



Multi-leaf damper for rectangular duct installation
JVK 100/50 Ref. no. 06917
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.



Fitting
FSK 100/50 Ref. no. 00843
For cost-effective integration of rectangular duct fans in round duct systems with Ø 500 mm.



Flexible connector
VS 100/50 Ref. no. 05701
Flexible rectangular duct connector with double-sided flange frame.



Counter flange
GF 100/50 Ref. no. 06926
Flange frame made of galvanised steel sheet for connection to the rectangular duct.



Rectangular duct silencer
KSD 100/50 Ref. no. 08733
For outlet and inlet side insertion in the rectangular duct system.



Rectangular duct air filter
KLF 100/50 Coarse 70%* 08671
KLF 100/50 ePM2.5 65%* 08655
With large bag filter. Galvanised steel sheet casing with double-sided flanges.



Warm water heating element
WHR 2/100/50 Ref. no. 08797
WHR 4/100/50 Ref. no. 08798
For installation in rectangular duct system.



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.

* See product page 477 for detailed description.