KR EC 315

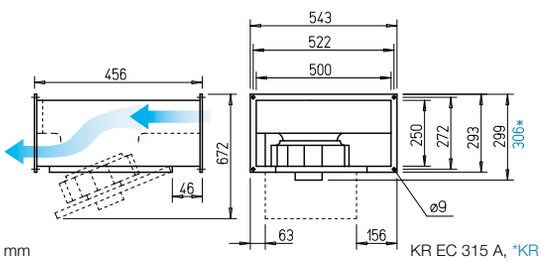
(Fig. similar)

Designed for the delivery of contaminated air.

SKR EC 315 – sound-insulated

Lowest 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.

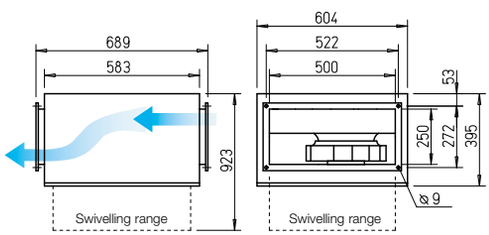
Dimensions KR EC 315



Dim. in mm

KR EC 315 A, *KR EC 315 B

Dimensions SKR EC 315 – sound-insulated



Dim. in mm

Features KR EC and SKR EC

- Highly efficient EC motor for the lowest 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

- Lowest 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

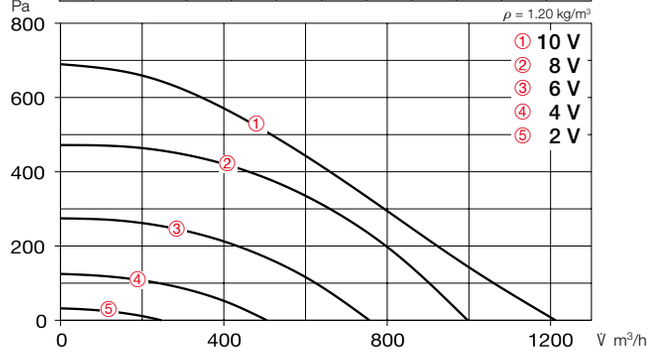
- **Impeller**
  Centrifugal, with backward curved blades (315 A made of plastic and 315 B made of galvanised steel sheet). Aerodynamically optimised, inlet via nozzle.
- **Drive**
  Energy-saving, speed-controllable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. 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 315/50/25 A	08170	1210	2740	35	0.15	1.17	979	60	11.0	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
KRW EC 315/50/25 B	07589	2250	2830	44	0.35	2.67	979	60	12.0	**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 315/50/25 A	07588	1270	2750	29	0.15	1.23	979	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 315/50/25 B [3)]	08182	2170	2850	36	0.35	2.71	979	60	25.3	**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 315/50/25 A

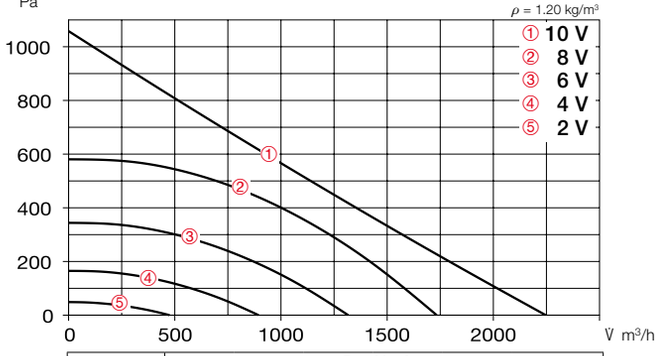
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	55	46	52	48	45	45	38	31
L_{WA}	Inlet side	dB(A)	69	53	65	55	63	64	60	51
L_{WA}	Outlet side	dB(A)	74	53	69	63	66	70	65	55



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3030	1210	140	1.1	35	0.42
8	2510	1000	85	0.7	33	0.31
6	1900	760	40	0.4	29	0.19
4	1280	510	20	0.2	22	0.14

Performance curves KRW EC 315/50/25 B

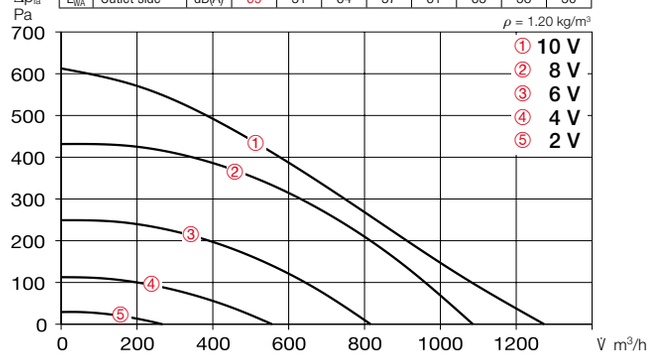
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	64	54	57	59	55	54	49	44
L_{WA}	Inlet side	dB(A)	77	62	70	68	70	72	69	64
L_{WA}	Outlet side	dB(A)	84	62	72	78	76	79	73	70



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3030	2250	330	2.5	44	0.53
8	2340	1730	150	1.3	42	0.31
6	1800	1320	70	0.7	36	0.19
4	1240	900	30	0.3	28	0.12

Performance curves SKRW EC 315/50/25 A

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	49	39	46	40	40	38	33	29
L_{WA}	Inlet side	dB(A)	60	49	57	46	51	50	49	41
L_{WA}	Outlet side	dB(A)	69	51	64	57	61	65	58	50



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2990	1270	150	1.2	30	0.43
8	2560	1090	100	0.8	29	0.33
6	1940	820	40	0.4	25	0.18
4	1300	560	20	0.2	17	0.13

Accessories

External wall shutter
VK 50/25 Ref. no. 00875
Automatic overpressure shutter made of light grey plastic.

Weather protection grille
WSG 50/25 Ref. no. 00110
Stable construction made of extruded aluminium profiles, natural colour anodised.

Multi-leaf damper for rectangular duct installation
JVK 50/25 Ref. no. 06911
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.

Fitting
FSK 50/25 Ref. no. 00833
For cost-effective integration of rectangular duct fans in round duct systems with Ø 250 mm.

Flexible connector
VS 50/25 Ref. no. 05695
Flexible rectangular duct connector with double-sided flange frame.

Counter flange
GF 50/25 Ref. no. 06920
Flange frame made of galvanised steel sheet for connection to the rectangular duct.

Rectangular duct silencer
KSD 50/25-30 Ref. no. 08729
For outlet and inlet side insertion in the rectangular duct system.

Rectangular duct air filter
KLF 50/25-30 Coarse 70%* 08721
KLF 50/25-30 ePM1 50%* 08645
With large bag filter. Galvanised steel sheet casing with double-sided flanges.

Electric heating element
EHR-K 8/50/25-30 No. 08704
EHR-K 24/50/25-30 No. 08705
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 2/50/25-30 No. 08784
WHR 4/50/25-30 No. 08785
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.