KR 500



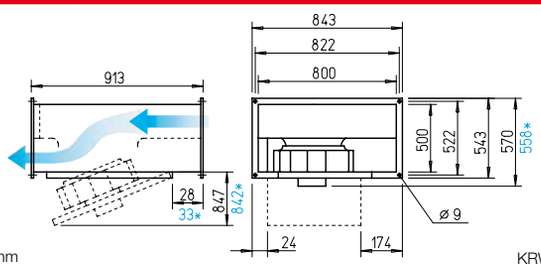
Designed for the delivery of contaminated air.

SKR 500 – 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.

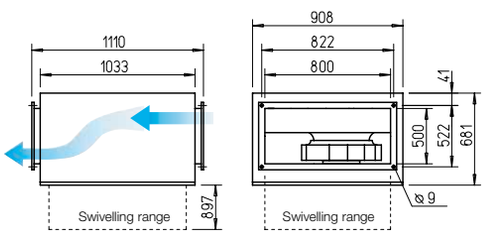
Dimensions KR 500



Dim. in mm

KRW, *KRD

Dimensions SKR 500 – sound-insulated



Dim. in mm

Features KR and SKR

- 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

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

Description

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

Casing SKR
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 and SKR

Impeller
Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.

Drive
Through maintenance-free external rotor motor on which the impeller is mounted. Closed design. protection category IP54. Winding with moisture proof coating. Ball bearing mounted. Motor and impeller dynamically balanced.

Motor protection
Through built-in thermal contacts via triggering device (Accessories).

Power control
Through voltage reduction using 5-step transformer or electronically (continuously variable). The performances at corresponding voltages are shown in the performance diagram.

Electrical connection
Terminal box (IP54) mounted to external cable.

Installation
Installation possible in any position. Note accessibility/swivelling range.

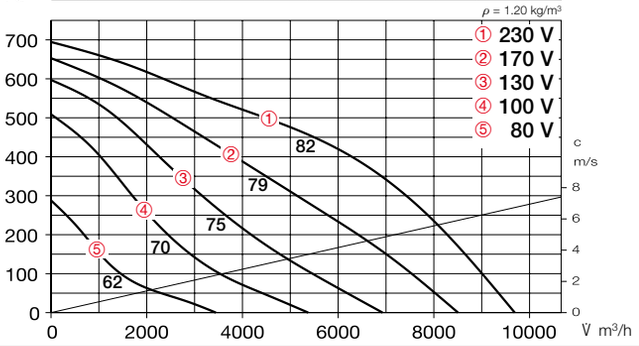
Noise
The total level and range are specified above the performance diagram for:
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power

The inlet side sound power level is also specified above the control voltages in the performance diagram.
- ☐ The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temp. at Rat. vol.	Max. air flow temp. at Control	Wgt net aprx.	Speed controller 5-step with motor protection circuit breaker		Motor protection circuit breaker for connection of built-in thermal contacts	
		V̇ m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, protection category IP54														
KRW 500/4/80/50	06152	9700	1370	52	1.55	6.80	536.1	60	60	66.9	**MWS 10**	01946	**MW**	01579
Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
KRD 500/4/80/50 A	08643	8430	1360	52	1.21	4.70/2.70	860	60	60	64.2	**RDS 7**	01578	**MD**	05849
Sound-insulated SKR – Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
SKRD 500/4/80/50	08198	8050	1360	48	1.19	4.60/2.70	860	60	60	89.2	**RDS 7**	01578	**MD**	05849

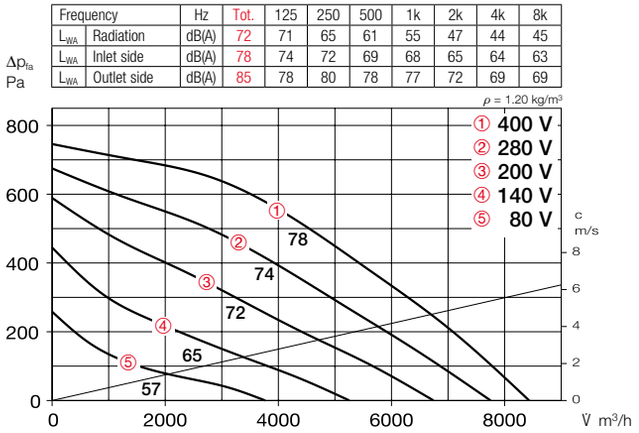
Performance curves KRW 500/4/80/50

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	72	65	69	64	61	57	51	45
L_{WA}	Inlet side	dB(A)	82	75	73	75	76	73	69	62
L_{WA}	Outlet side	dB(A)	84	79	83	81	88	84	79	71



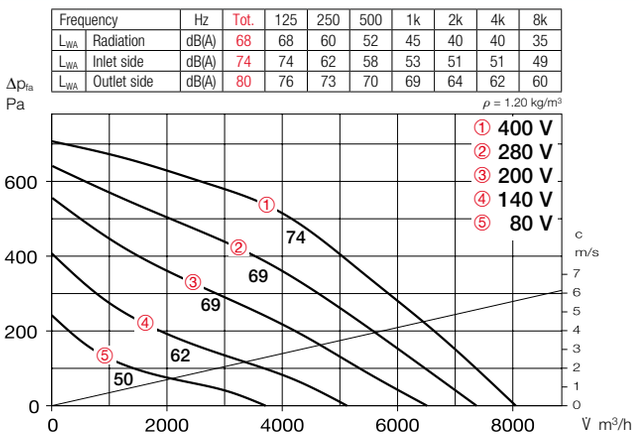
Performance curves KRD 500/4/80/50 A

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	72	71	65	61	55	47	44	45
L_{WA}	Inlet side	dB(A)	78	74	72	69	68	65	64	63
L_{WA}	Outlet side	dB(A)	85	78	80	78	77	72	69	69



Performance curves SKRD 500/4/80/50

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	68	68	60	52	45	40	40	35
L_{WA}	Inlet side	dB(A)	74	74	62	58	53	51	51	49
L_{WA}	Outlet side	dB(A)	80	76	73	70	69	64	62	60



Accessories

External wall shutter
VK 80/50 Ref. no. 00880
Automatic overpressure shutter made of light grey plastic.



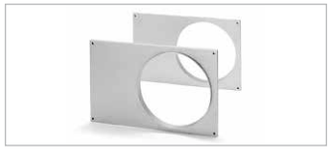
Weather protection grille
WSG 80/50 Ref. no. 00115
Stable construction made of extruded aluminium profiles, natural colour anodised.



Multi-leaf damper for rectangular duct installation
JVK 80/50 Ref. no. 06916
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.



Fitting
FSK 80/50 Ref. no. 00842
For cost-effective integration of rectangular duct fans in round duct systems with Ø 500 mm.



Flexible connector
VS 80/50 Ref. no. 05700
Flexible rectangular duct connector with double-sided flange frame.



Counter flange
GF 80/50 Ref. no. 06925
Flange frame made of galvanised steel sheet for connection to the rectangular duct.



Rectangular duct silencer
KSD 80/50 Ref. no. 08732
For outlet and inlet side insertion in the rectangular duct system.



Rectangular duct air filter
KLF 80/50 Coarse 70%* 08670
KLF 80/50 ePM1 50%* 08654
With large bag filter. Galvanised steel sheet casing with double-sided flanges.



Warm water heating element
WHR 2/80/50 Ref. no. 08795
WHR 4/80/50 Ref. no. 08796
For installation in rectangular duct system.



* See product page 477 for detailed description.

Accessory details **Page**

Shutters and weather prot. grille 482, 563 ff.
Filters, heating elements and silencers 483 ff.
Speed controllers and motor protection circuit breakers 601 ff.