

KR 500



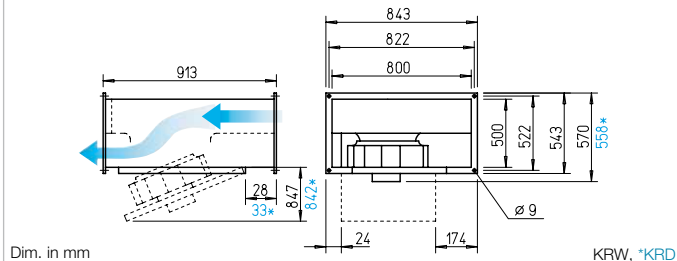
Designed for the delivery of contaminated air.

SKR 500 – sound-insulated

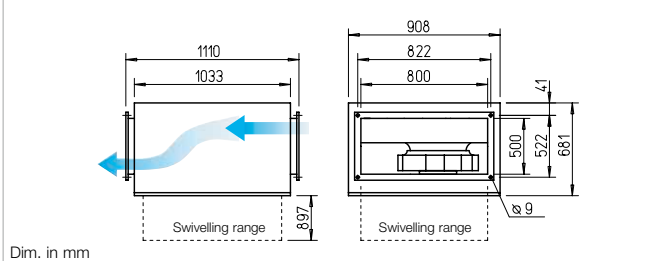


Low noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

Dimensions KR 500



Dimensions SKR 500 – sound-insulated



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:

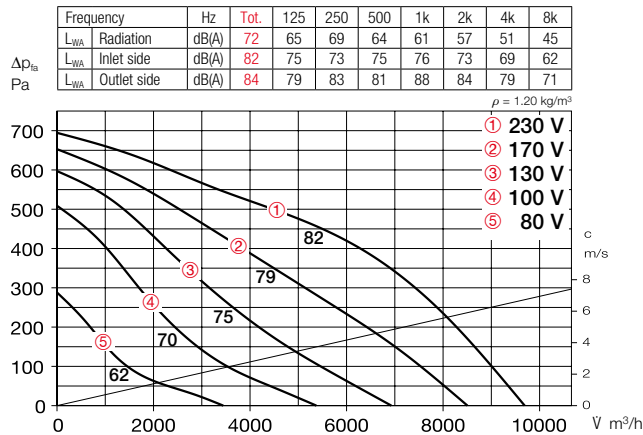
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power

The inlet side sound power level is also specified above the control voltages in the performance diagram.

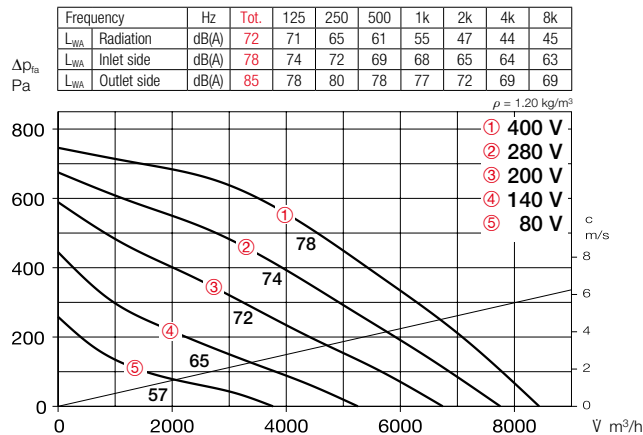
- ☐ The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

Type	Ref. no.	Flow rate	Rated speed	Sound press.	Power consumption		Wiring diagram	Max. air flow temp. at		Wgt net	Speed controller 5-step with motor protection circuit breaker		Motor protection circuit breaker for connection of built-in thermal contacts	
		Free blowing		case-radiation	kW	A	No.	Rat. vol.	Control	aprx.	Type	Ref. no.	Type	Ref. no.
		V m³/h	min⁻¹	dB(A) in 4 m				+ °C	+ °C	kg				
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

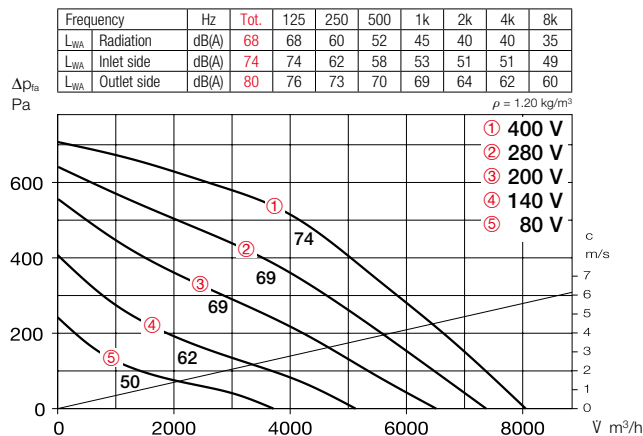
Performance curves KRW 500/4/80/50



Performance curves KRD 500/4/80/50 A



Performance curves SKRD 500/4/80/50



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.



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.

* See product page 477 for detailed description.