

KR 500



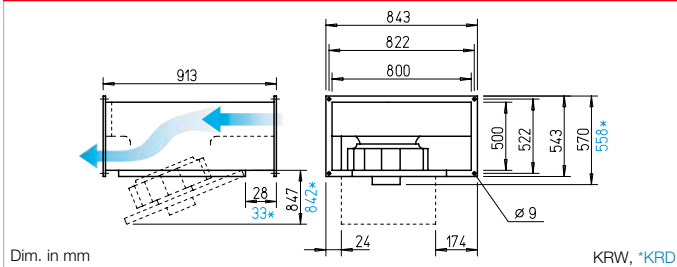
Designed for the delivery of contaminated air.

SKR 500 – sound-insulated

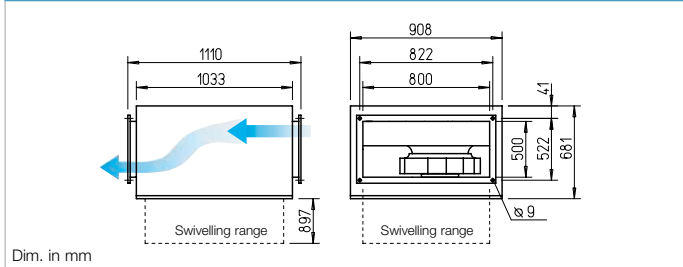


Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

Dimensions KR 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

- Lowest 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, radio interference-free. 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:

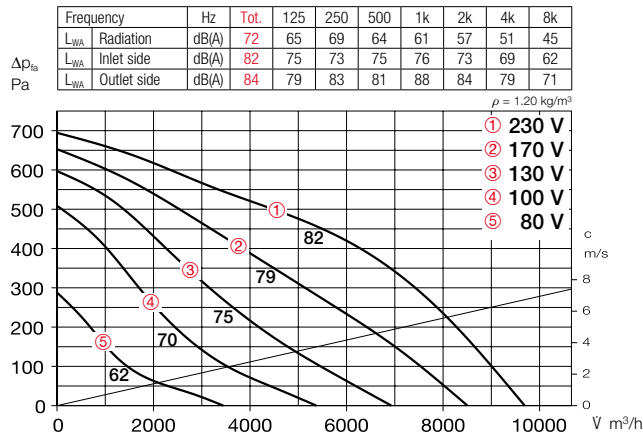
- Case-radiated sound power
- Inlet side sound power
- Outlet side sound power

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

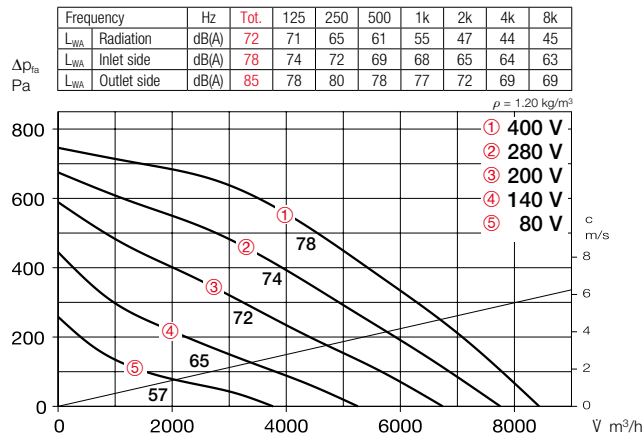
- The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

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

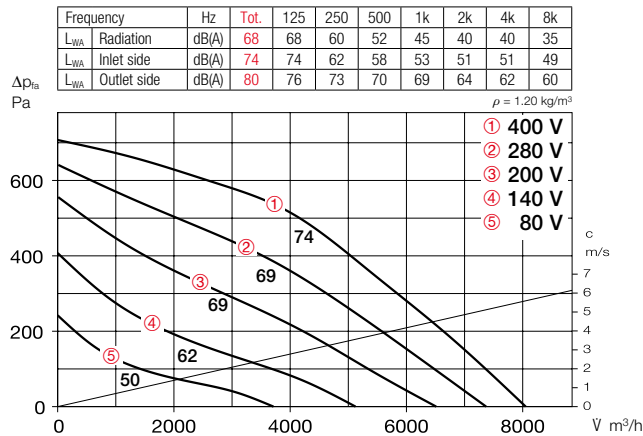
Performance curves KRW 500/4/80/50



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 | 480, 561 ff. |
| Filters, heating elements and silencers | 481 ff. |
| Speed controllers and motor protection circuit breakers | 599 ff. |

* See product page 477 for detailed description.