

KR 400/450/500



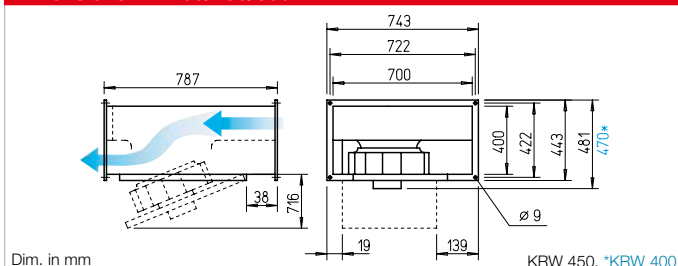
Designed for the delivery of contaminated air.

SKR 400/450/500 – sound-insulated

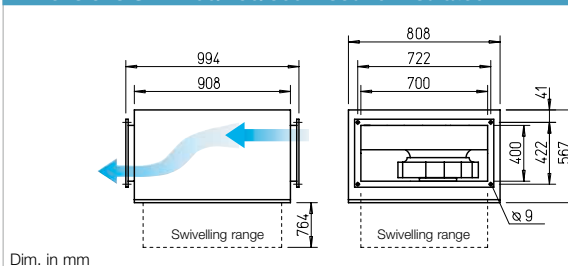


Low noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

Dimensions KR 400/450/500



Dimensions SKR 400/450/500 – 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.

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.

Special features SKR

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

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

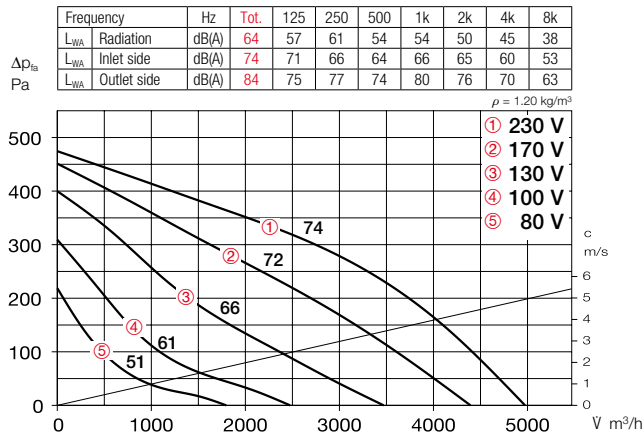
The total level and range are specified above the performance diagram for:

- ☐ 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.

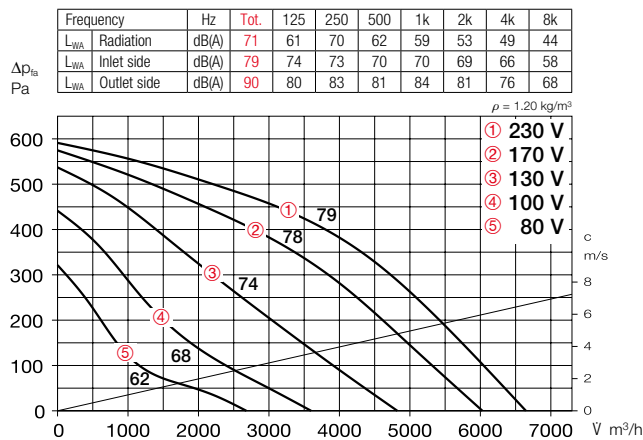
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temp. at		Wgt net aprx.	Speed controller 5-step with motor protection circuit breaker		Motor protection circuit breaker for connection of built-in thermal contacts	
		m³/h	min⁻¹	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 400/4/70/40	06150	4970	1320	44	0.57	2.60	536.1	60	60	39.0	MWS 5	01949	MW	01579
KRW 450/4/70/40	06151	6650	1390	51	1.04	4.80	536.1	60	60	38.7	MWS 7.5	01950	MW	01579
Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
KRD 450/4/70/40 ¹⁾	08694	5830	1430	47	0.82	2.80/1.60	860	60	40	48.5	RDS 4	01316	MD	05849
Sound-insulated SKR – Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, protection category IP54														
SKRW 400/4/70/40	06143	4940	1330	42	0.53	2.40	536.1	60	60	62.0	MWS 5	01949	MW	01579
Sound-insulated SKR – Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
SKRD 450/4/70/40	08196	5430	1430	46	0.82	2.70/1.60	860	60	40	69.3	RDS 4	01316	MD	05849
SKRD 500/6/70/40 ¹⁾	08197	4620	920	36	0.40	1.40/0.82	860	60	60	64.1	RDS 2	01315	MD	05849

¹⁾ Performance diagram at www.HeliosSelect.de. ²⁾ Dimensional drawing at www.HeliosSelect.de.

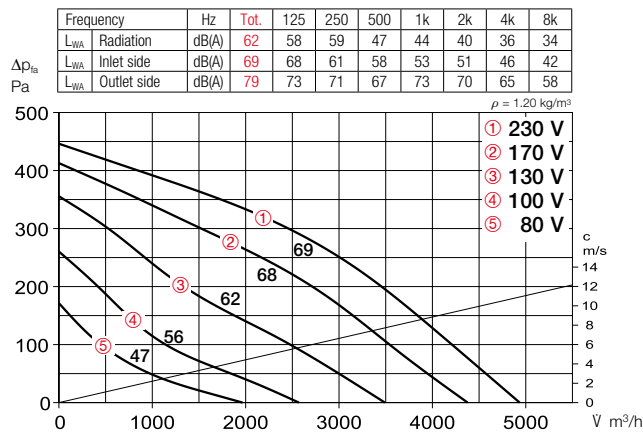
Performance curves KRW 400/4/70/40



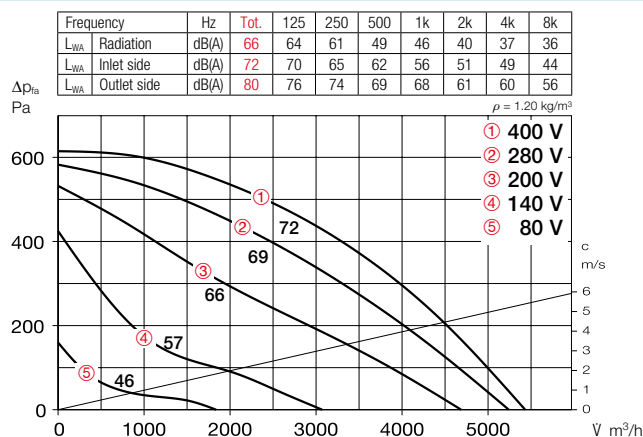
Performance curves KRW 450/4/70/40



Performance curves SKRW 400/4/70/40



Performance curves SKRD 450/4/70/40



Accessories

External wall shutter

VK 70/40 Ref. no. 00879

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 70/40 Ref. no. 00114

Stable construction made of extruded aluminium profiles, natural colour anodised.

Multi-leaf damper for rectangular duct installation

JVK 70/40 Ref. no. 06915

Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.

Fitting

FSK 70/40 Ref. no. 00840

For cost-effective integration of rectangular duct fans in round duct systems with Ø 400 mm.

Flexible connector

VS 70/40 Ref. no. 05699

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 70/40 Ref. no. 06924

Flange frame made of galvanised steel sheet for connection to the rectangular duct.

Rectangular duct silencer

KSD 70/40 Ref. no. 08731

For outlet and inlet side insertion in the rectangular duct system.

Rectangular duct air filter

KLF 70/40 Coarse 70%* 08723

KLF 70/40 ePM1 50%* 08647

With large bag filter. Galvanised steel sheet casing with double-sided flanges.

Warm water heating element

WHR 2/70/40 Ref. no. 08788

WHR 4/70/40 Ref. no. 08789

For installation in rectangular duct system.

Temperature control system

for warm water heating element

WHS HE¹⁾ Ref. no. 08319

¹⁾ With heat output reduced to 2200 l/h for Type WHR 4/70/40.



Accessory details Page

Shutters and weather prot. grille	482, 563 ff.
Filters, heating elements and silencers	483 ff.
Temperature control systems for heating elements	489, 494 f.
Speed controllers and motor protection circuit breakers	601 ff.

* See product page 477 for detailed description.