## KR 400/450/500



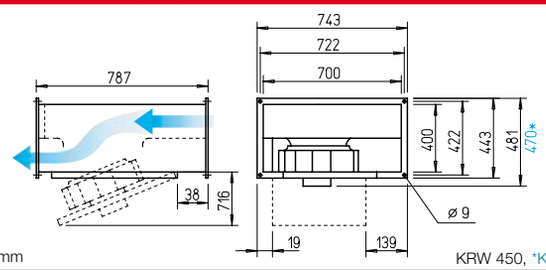
Designed for the delivery of contaminated air.

## 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.

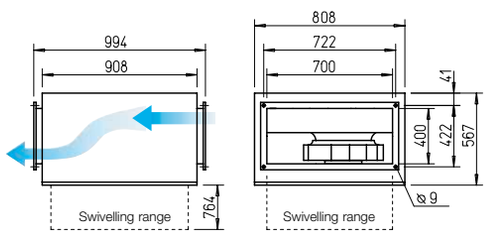
## Dimensions KR 400/450/500




Dim. in mm

KRW 450, *KRW 400

## Dimensions SKR 400/450/500 – 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

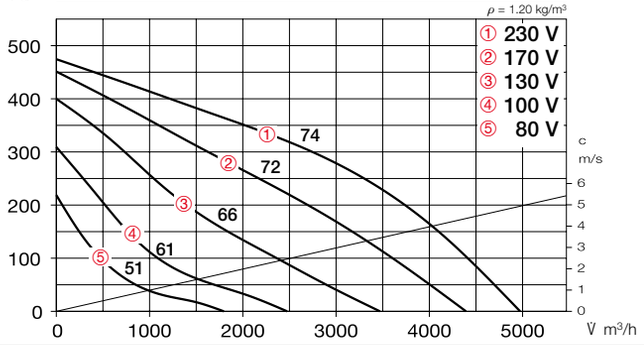
- **Impeller**
  Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.
- **Drive**
  Through maintenance-free external rotor motor on which the impeller is mounted. Closed design. protection category IP54. Winding with moisture proof coating. Ball bearing 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 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)2)] | 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.

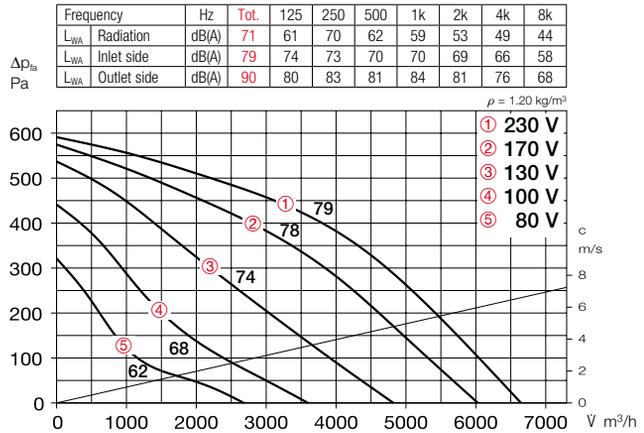
## Performance curves KRW 400/4/70/40

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 64 | 57 | 61 | 54 | 54 | 50 | 45 | 38 |
| $L_{WA}$ | Inlet side | dB(A) | 74 | 71 | 66 | 64 | 66 | 65 | 60 | 53 |
| $L_{WA}$ | Outlet side | dB(A) | 84 | 75 | 77 | 74 | 80 | 76 | 70 | 63 |



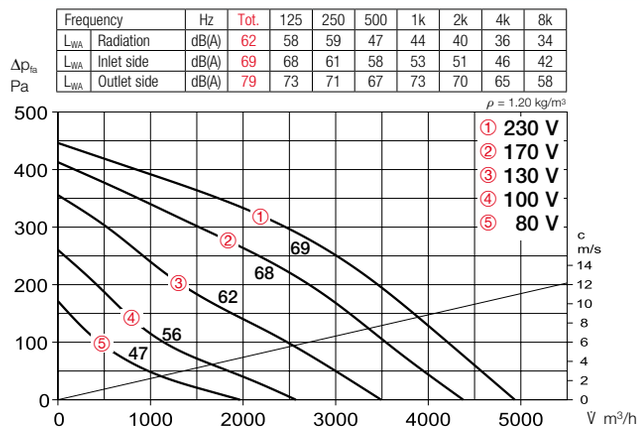

## Performance curves KRW 450/4/70/40

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 71 | 61 | 70 | 62 | 59 | 53 | 49 | 44 |
| $L_{WA}$ | Inlet side | dB(A) | 79 | 74 | 73 | 70 | 70 | 69 | 66 | 58 |
| $L_{WA}$ | Outlet side | dB(A) | 90 | 80 | 83 | 81 | 84 | 81 | 76 | 68 |



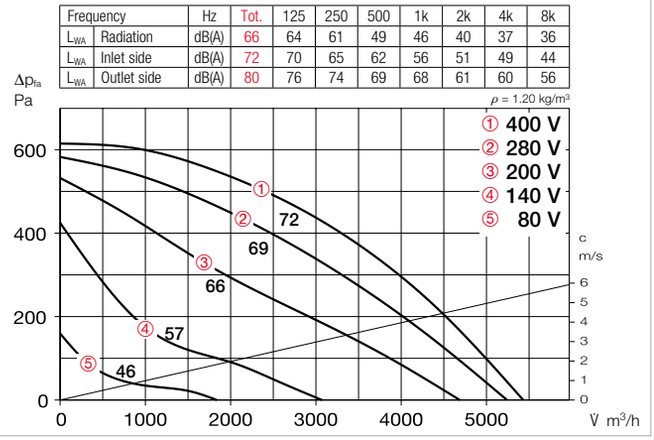

## Performance curves SKRW 400/4/70/40

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 62 | 58 | 59 | 47 | 44 | 40 | 36 | 34 |
| $L_{WA}$ | Inlet side | dB(A) | 69 | 68 | 61 | 58 | 53 | 51 | 46 | 42 |
| $L_{WA}$ | Outlet side | dB(A) | 79 | 73 | 71 | 67 | 73 | 70 | 65 | 58 |




## Performance curves SKRD 450/4/70/40

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 66 | 64 | 61 | 49 | 46 | 40 | 37 | 36 |
| $L_{WA}$ | Inlet side | dB(A) | 72 | 70 | 65 | 62 | 56 | 51 | 49 | 44 |
| $L_{WA}$ | Outlet side | dB(A) | 80 | 76 | 74 | 69 | 68 | 61 | 60 | 56 |




## Accessories

**External wall shutter**
**VK 70/40** Ref. no. 00879
Automatic overpressure shutter made of light grey plastic.



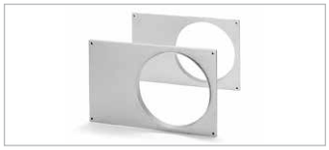
**Weather protection grille**
**WSG 70/40** Ref. no. 00114
Stable construction made of extruded aluminium profiles, natural colour anodised.



**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 HE**[1)] 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.