## KR 560



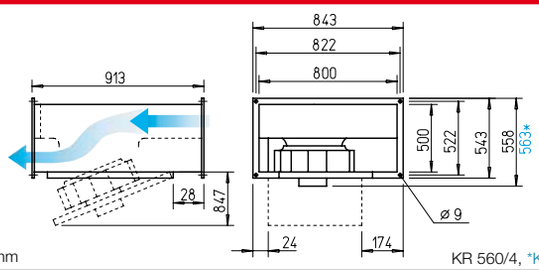
Designed for the delivery of contaminated air.

## SKR 560 – 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.

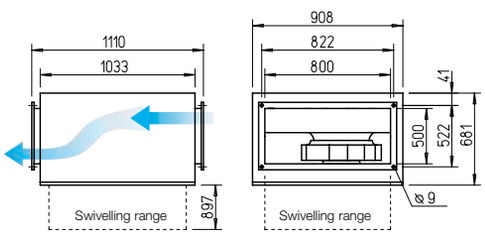
## Dimensions KR 560




Dim. in mm

KR 560/4, *KR 560/6

## Dimensions SKR 560 – 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

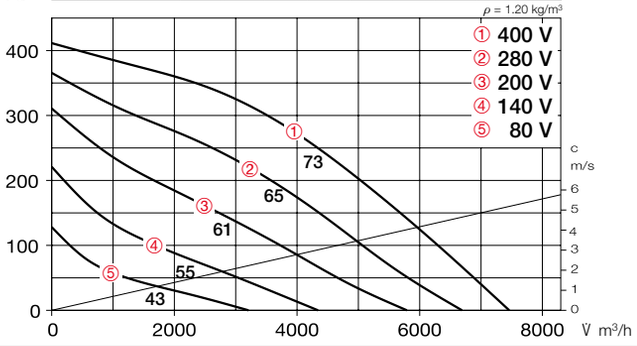
- **Impeller**
  Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.
- **Drive**
  Through maintenance-free external rotor motor on which the impeller is mounted. Closed design. protection category IP54. Winding with moisture proof coating. Ball bearing 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. |
| **Three-phase current motor, 230/400 V, 50 Hz, protection category IP54** | | | | | | | | | | | | | | |
| **KRD 560/6/80/50** | 08842 | 7460 | 880 | 41 | 0.64 | 2.50/1.40 | 860 | 60 | 60 | 61.9 | **RDS 2** | 01315 | **MD** | 05849 |
| **KRD 560/4/80/50** | 06147 | 11970 | 1350 | 55 | 2.33 | 7.80/4.50 | 860 | 45 | 45 | 64.1 | **RDS 7** | 01578 | **MD** | 05849 |
| **Sound-insulated SKR – Three-phase current motor, 230/400 V, 50 Hz, protection category IP54** | | | | | | | | | | | | | | |
| **SKRD 560/6/80/50** | 08199 | 7600 | 880 | 36 | 0.66 | 2.50/1.50 | 860 | 60 | 60 | 86.9 | **RDS 2** | 01315 | **MD** | 05849 |

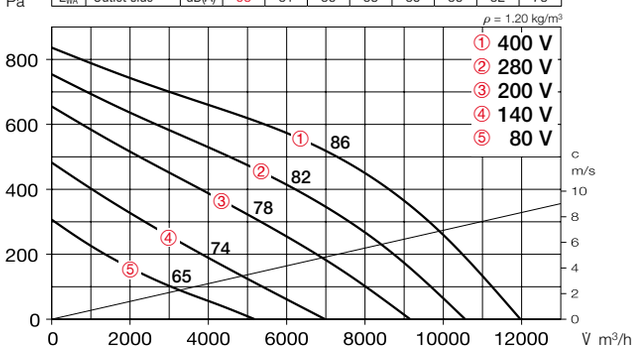
## Performance curves KRD 560/6/80/50

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 61 | 56 | 57 | 52 | 47 | 40 | 36 | 37 |
| $L_{WA}$ | Inlet side | dB(A) | 73 | 70 | 64 | 57 | 60 | 58 | 54 | 53 |
| $L_{WA}$ | Outlet side | dB(A) | 78 | 75 | 70 | 66 | 66 | 61 | 58 | 57 |



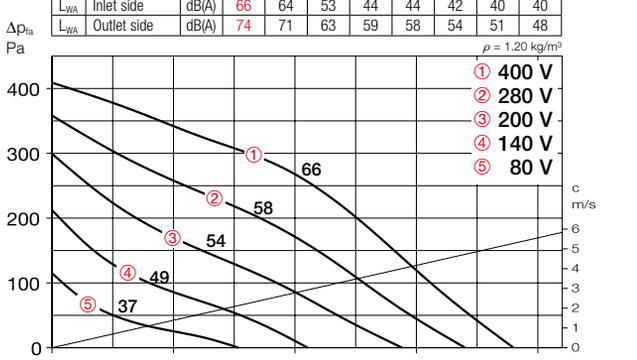

## Performance curves KRD 560/4/80/50

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 75 | 63 | 73 | 68 | 65 | 60 | 54 | 48 |
| $L_{WA}$ | Inlet side | dB(A) | 86 | 76 | 77 | 77 | 81 | 78 | 75 | 67 |
| $L_{WA}$ | Outlet side | dB(A) | 93 | 81 | 86 | 83 | 89 | 86 | 82 | 73 |




## Performance curves SKRD 560/6/80/50

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 56 | 55 | 50 | 41 | 40 | 37 | 36 | 33 |
| $L_{WA}$ | Inlet side | dB(A) | 66 | 64 | 53 | 44 | 44 | 42 | 40 | 40 |
| $L_{WA}$ | Outlet side | dB(A) | 74 | 71 | 63 | 59 | 58 | 54 | 51 | 48 |




## 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. |

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