## KR EC 315



(Fig. similar)

Designed for the delivery of contaminated air.

EC

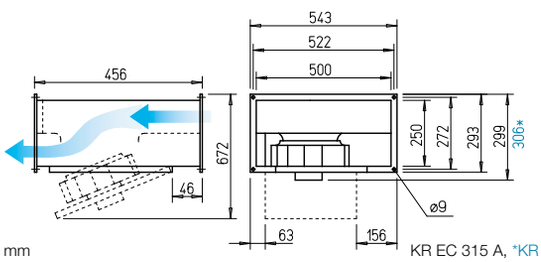
## SKR EC 315 – sound-insulated



**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.

EC

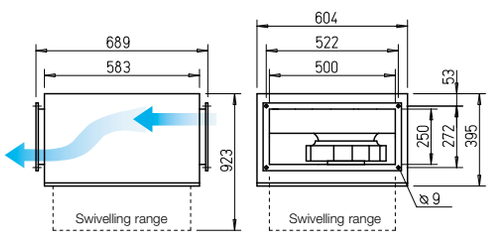
## Dimensions KR EC 315




Dim. in mm

KR EC 315 A, *KR EC 315 B

## Dimensions SKR EC 315 – sound-insulated




Dim. in mm

### Features KR EC and SKR EC

- Highly efficient EC motor for low operating costs.
- 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 EC

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

### Description

- **Casing KR EC**
  Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- **Casing SKR EC**
  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 EC and SKR EC

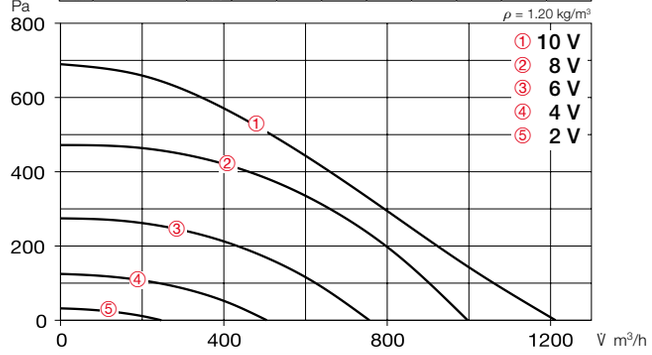
- **Impeller**
  Centrifugal, with backward curved blades (315 A made of plastic and 315 B made of galvanised steel sheet). Aerodynamically optimised, inlet via nozzle.
- **Drive**
  Energy-efficient, speed-controllable EC external rotor motor with IP44 protection and high efficiency. Maintenance-free and equipped with ball bearings. Motor and impeller dynamically balanced.
- **Motor protection**
  Integrated electronic temperature monitoring system for EC motor and electronics.
- **Power control**
  Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable.
- **Installation**
  Installation possible in any position. Note accessibility/swivel angle.
- **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 case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

| Type | Ref. no. | Flow rate Free blowing | Rated speed | Sound press. case-radiation | Power consum. | Current consum. | Wiring diagram | Max. air flow temp. | Wgt net aprx. | Universal control system | | Speed potentiometer flush-mount. | | Speed potentiometer surface-mount. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | V̇ m³/h | min⁻¹ | dB(A) in 4 m | kW | A | No. | + °C | kg | Type | Ref. no. | Type | Ref. no. | Type | Ref. no. |
| **Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44** | | | | | | | | | | | | | | | |
| **KRW EC 315/50/25 A** | 08170 | 1210 | 2740 | 35 | 0.15 | 1.17 | 979 | 60 | 11.0 | **EUR EC** [1)2)] | 01347 | **PU 10** [1)] | 01734 | **PA 10** [1)] | 01735 |
| **KRW EC 315/50/25 B** | 07589 | 2250 | 2830 | 44 | 0.35 | 2.67 | 979 | 60 | 12.0 | **EUR EC** [1)2)] | 01347 | **PU 10** [1)] | 01734 | **PA 10** [1)] | 01735 |
| **Sound-insulated SKR EC – Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44** | | | | | | | | | | | | | | | |
| **SKRW EC 315/50/25 A** | 07588 | 1270 | 2750 | 29 | 0.15 | 1.23 | 979 | 60 | 24.4 | **EUR EC** [1)2)] | 01347 | **PU 10** [1)] | 01734 | **PA 10** [1)] | 01735 |
| **Sound-insulated SKR EC – Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44** | | | | | | | | | | | | | | | |
| **SKRW EC 315/50/25 B** [3)] | 08182 | 2170 | 2850 | 36 | 0.35 | 2.71 | 979 | 60 | 25.3 | **EUR EC** [1)2)] | 01347 | **PU 10** [1)] | 01734 | **PA 10** [1)] | 01735 |

[1)] Multiple EC fans can normally be connected. [2)] alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories. [3)] Performance diagram at www.HeliosSelect.de.

## Performance curves KRW EC 315/50/25 A

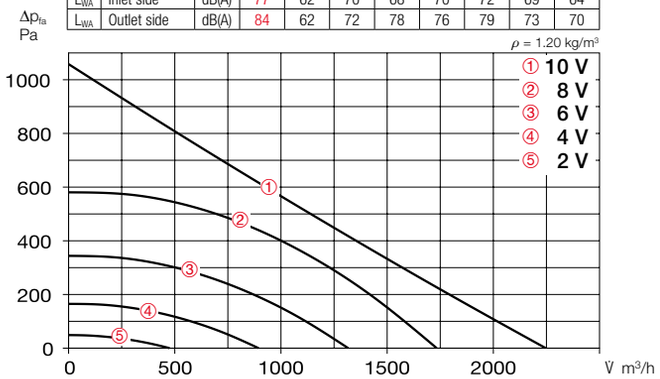
| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 55 | 46 | 52 | 48 | 45 | 45 | 38 | 31 |
| $L_{WA}$ | Inlet side | dB(A) | 69 | 53 | 65 | 55 | 63 | 64 | 60 | 51 |
| $L_{WA}$ | Outlet side | dB(A) | 74 | 53 | 69 | 63 | 66 | 70 | 65 | 55 |




| | Free blowing | | | | | |
|---|---|---|---|---|---|---|
| **Voltage** V | **n** min⁻¹ | **V̇** m³/h | **P** W | **I** A | **Lp** dB(A) | **SFP** kW/m³/s |
| 10 | 3030 | 1210 | 140 | 1.1 | 35 | 0.42 |
| 8 | 2510 | 1000 | 85 | 0.7 | 33 | 0.31 |
| 6 | 1900 | 760 | 40 | 0.4 | 29 | 0.19 |
| 4 | 1280 | 510 | 20 | 0.2 | 22 | 0.14 |

## Performance curves KRW EC 315/50/25 B

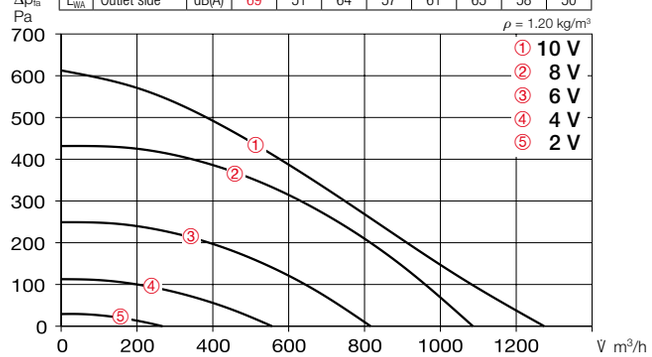
| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 64 | 54 | 57 | 59 | 55 | 54 | 49 | 44 |
| $L_{WA}$ | Inlet side | dB(A) | 77 | 62 | 70 | 68 | 70 | 72 | 69 | 64 |
| $L_{WA}$ | Outlet side | dB(A) | 84 | 62 | 72 | 78 | 76 | 79 | 73 | 70 |




| | Free blowing | | | | | |
|---|---|---|---|---|---|---|
| **Voltage** V | **n** min⁻¹ | **V̇** m³/h | **P** W | **I** A | **Lp** dB(A) | **SFP** kW/m³/s |
| 10 | 3030 | 2250 | 330 | 2.5 | 44 | 0.53 |
| 8 | 2340 | 1730 | 150 | 1.3 | 42 | 0.31 |
| 6 | 1800 | 1320 | 70 | 0.7 | 36 | 0.19 |
| 4 | 1240 | 900 | 30 | 0.3 | 28 | 0.12 |

## Performance curves SKRW EC 315/50/25 A

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 49 | 39 | 46 | 40 | 40 | 38 | 33 | 29 |
| $L_{WA}$ | Inlet side | dB(A) | 60 | 49 | 57 | 46 | 51 | 50 | 49 | 41 |
| $L_{WA}$ | Outlet side | dB(A) | 69 | 51 | 64 | 57 | 61 | 65 | 58 | 50 |




| | Free blowing | | | | | |
|---|---|---|---|---|---|---|
| **Voltage** V | **n** min⁻¹ | **V̇** m³/h | **P** W | **I** A | **Lp** dB(A) | **SFP** kW/m³/s |
| 10 | 2990 | 1270 | 150 | 1.2 | 30 | 0.43 |
| 8 | 2560 | 1090 | 100 | 0.8 | 29 | 0.33 |
| 6 | 1940 | 820 | 40 | 0.4 | 25 | 0.18 |
| 4 | 1300 | 560 | 20 | 0.2 | 17 | 0.13 |

## Accessories

**External wall shutter**
**VK 50/25** Ref. no. 00875
Automatic overpressure shutter made of light grey plastic.



**Weather protection grille**
**WSG 50/25** Ref. no. 00110
Stable construction made of extruded aluminium profiles, natural colour anodised.



**Multi-leaf damper for rectangular duct installation**
**JVK 50/25** Ref. no. 06911
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.



**Fitting**
**FSK 50/25** Ref. no. 00833
For cost-effective integration of rectangular duct fans in round duct systems with Ø 250 mm.



**Flexible connector**
**VS 50/25** Ref. no. 05695
Flexible rectangular duct connector with double-sided flange frame.



**Counter flange**
**GF 50/25** Ref. no. 06920
Flange frame made of galvanised steel sheet for connection to the rectangular duct.



**Rectangular duct silencer**
**KSD 50/25-30** Ref. no. 08729
For outlet and inlet side insertion in the rectangular duct system.



**Rectangular duct air filter**
**KLF 50/25-30 Coarse 70%*** 08721
**KLF 50/25-30 ePM1 50%*** 08645
With large bag filter. Galvanised steel sheet casing with double-sided flanges.



**Electric heating element**
**EHR-K 8/50/25-30** No. 08704
**EHR-K 24/50/25-30** No. 08705
Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.



**Temperature control system for electric heating element**
**EHSD 16** Ref. no. 05003



**Warm water heating element**
**WHR 2/50/25-30** No. 08784
**WHR 4/50/25-30** No. 08785
For installation in rectangular duct system.



**Temperature control system for warm water heating element**
**WHS HE** Ref. no. 08319



* See product page 477 for detailed description.