



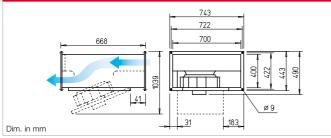
SKR EC 450 – sound-insulated



Designed for the delivery of contaminated air.

Dimensions KR EC 450

KR EC 450



Features KR EC and SKR EC

- Highly efficient EC motor for the lowest operating costs.
- High-pressure and high-volume centrifugal fan with high efficiency. Particularly easy to service (clean-
- ing) due to retractable motorimpeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Special features SKR EC

Lowest 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 made of aluminium. Aerodynamically optimised, inlet via nozzle.

Drive

Dim. in mm

Energy-saving, speed-controllable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.

specific noise level requirements.

Dimensions SKR EC 450 – sound-insulated

928

825

Swivelling range

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.

ρg Swivelling range Electrical connection

Terminal box (IP54) mounted to external cable.

- Installation Installation possible in any position. Note accessibility/swivel angle.
- Noise

804

722

700

747

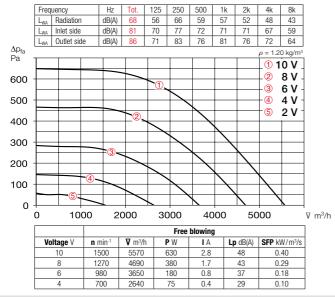
- The total level and range are specified above the performance diagram for:
- Case-radiated sound power □ Inlet side sound power
- Outlet side sound power.
- The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

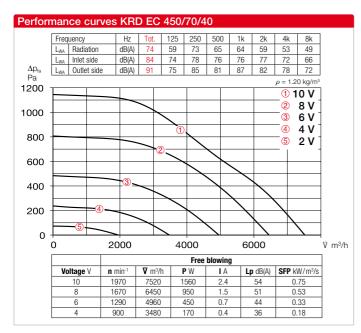
| Туре | Ref. no. | Flow rate Free blowing | Rated speed | Sound press. case- radiation | Power consum. | Current consum. | Wiring diagram | Max. air flow temp. | Wgt net aprx. | Universal control system | | Speed pote flush-mount. | | entiometer surface-mount. | |
|---|----------|------------------------------|----------------|---------------------------------------|---------------|-----------------|-------------------|---------------------------|------------------|-----------------------------|-----------------------|----------------------------|----------|------------------------------|----------|
| | | V m³∕h | min -1 | dB(A) in 4 m | kW | А | No. | + °C | kg | Туре | Ref. no. | Туре | Ref. no. | Туре | Ref. no. |
| Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44 | | | | | | | | | | | | | | | |
| KRW EC 450/70/40 | 06127 | 5570 | 1500 | 48 | 0.86 | 3.80 | 979 | 60 | 37.0 | EUR EC ¹ |) ²⁾ 01347 | PU 10 ¹⁾ | 01734 | PA 10 ¹⁾ | 01735 |
| Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44 | | | | | | | | | | | | | | | |
| KRD EC 450/70/40 | 08173 | 7520 | 1920 | 54 | 1.82 | 2.81 | 1479 | 60 | 38.2 | 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 450/70/40 ³⁾ | 06129 | 5390 | 1510 | 46 | 0.84 | 3.70 | 979 | 60 | 56.0 | EUR EC ¹ |) ²⁾ 01347 | PU 10 ¹⁾ | 01734 | PA 10 ¹⁾ | 01735 |
| Sound-insulated SKR EC – Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44 | | | | | | | | | | | | | | | |
| SKRD EC 450/70/40 A | 08178 | 7460 | 1940 | 49 | 1.81 | 2.81 | 1479 | 60 | 57.2 | EUR EC ¹ | ⁾²⁾ 01347 | PU 10 ¹⁾ | 01734 | PA 10 ¹⁾ | 01735 |

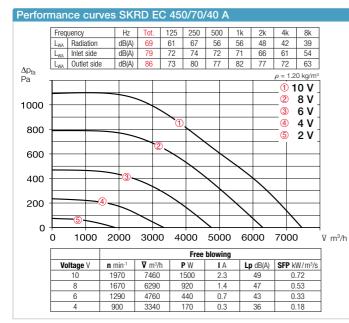
1) Multiple EC fans can normally be connected. 2) alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories. 3) Performance diagram at www.HeliosSelect.de



Performance curves KRW EC 450/70/40







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 elementWHR 2/70/40Ref. no. 08788WHR 4/70/40Ref. no. 08789For installation in rectangular ductsystem.

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 | 480, 561 ff. | | | | | | |
| Filters, heating elements | | | | | | | |
| and silencers | 481 ff. | | | | | | |
| Temperature control systems | | | | | | | |
| for heating elements | | | | | | | |
| Universal control syst | | | | | | | |
| electronic controllers | | | | | | | |
| speed potentiometer | 613 ff. | | | | | | |

* See product page 477 for detailed description.