

KR EC 500



Designed for the delivery of contaminated air.

EC

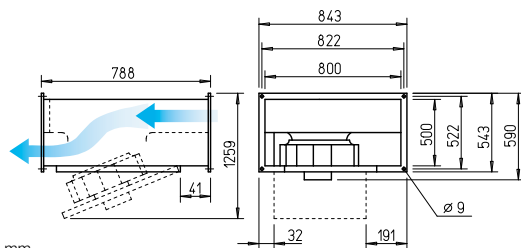
SKR EC 500 – sound-insulated



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.

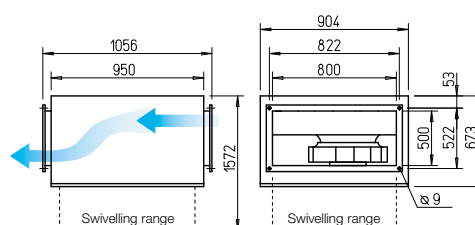
EC

Dimensions KR EC 500



Dim. in mm

Dimensions SKR EC 500 – 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 made of aluminium. 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:

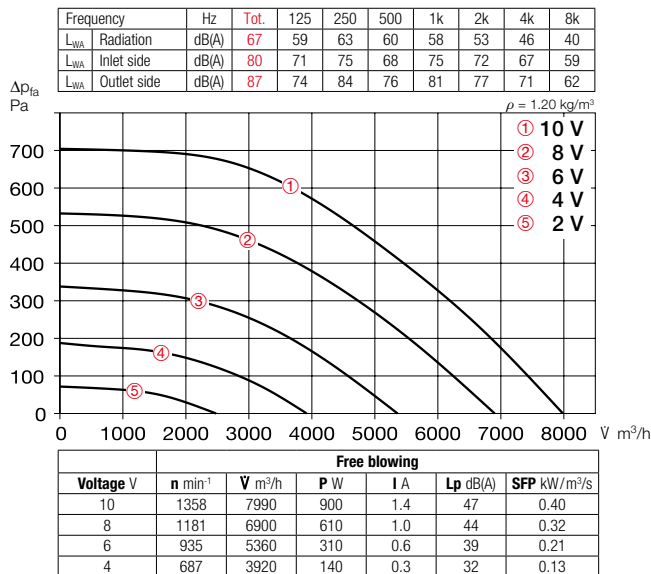
- Case-radiated sound power
- Inlet side sound power
- Outlet side sound power.

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.

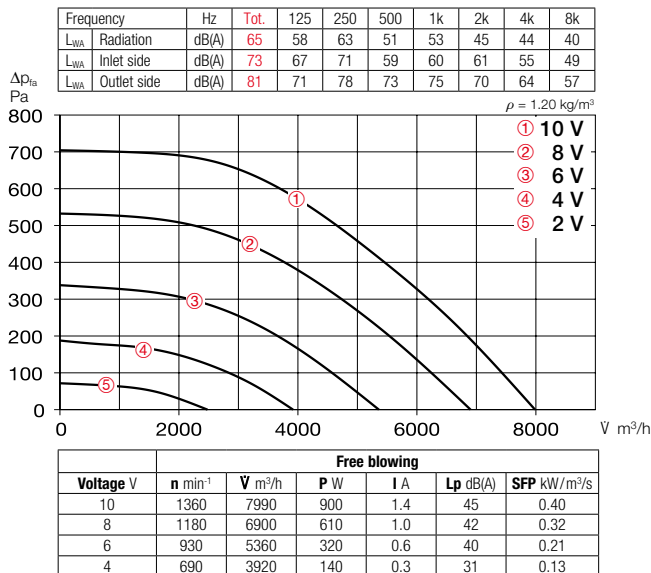
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case-radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system	Speed potentiometer flush-mount.	Speed potentiometer surface-mount.
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44												
KRD EC 500/80/50 A	08174	7990	1350	47	1.24	1.92	1479	60	50.5	EUR EC ¹⁾ 01347	PU 10 ¹⁾ 01734	PA 10 ¹⁾ 01735
KRD EC 500/80/50 B ³⁾	06128	9080	1550	51	1.81	2.79	1479	60	50.5	EUR EC ¹⁾ 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 500/80/50 A	08299	7990	1350	45	1.22	1.88	1479	60	73.5	EUR EC ¹⁾ 01347	PU 10 ¹⁾ 01734	PA 10 ¹⁾ 01735
SKRD EC 500/80/50 B	08179	8760	1540	48	1.82	2.81	1479	60	73.5	EUR EC ¹⁾ 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.

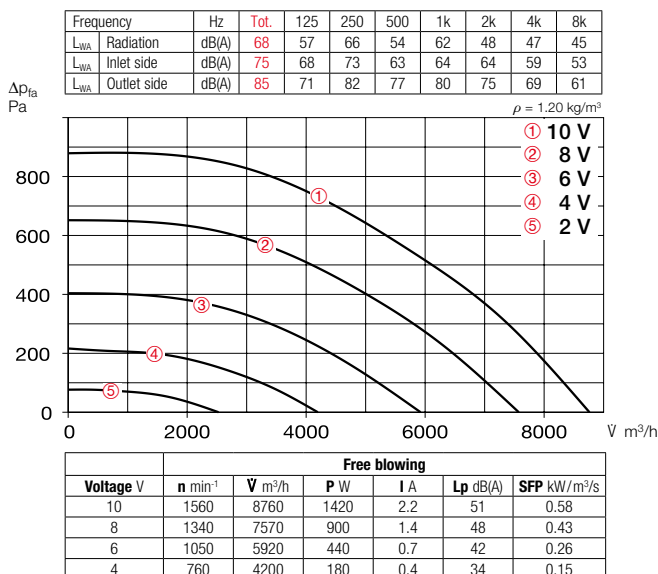
Performance curves KRD EC 500/80/50 A



Performance curves SKRD EC 500/80/50 A



Performance curves SKRD EC 500/80/50 B



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.



Accessory details Page

Shutters and weather prot. grille	482, 563 ff.
Filters, heating elements and silencers	483 ff.
Universal control system, electronic controllers, speed potentiometer	615 ff.

* See product page 477 for detailed description.