RR EC 100

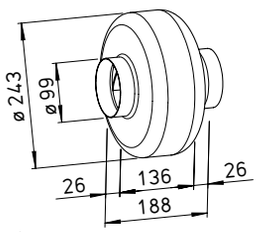


SVR EC 100



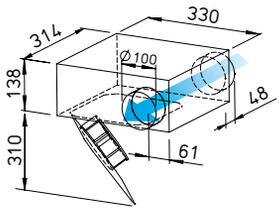
SlimVent – Slimline EC space saver w/ retractable motor-impeller unit.

Dimensions RR EC 100



Dim. in mm

Dimensions SVR EC 100



Dim. in mm

Energy-saving EC circular duct fans for the delivery medium and small air volumes against high resistances.
Specifically designed for direct insertion in duct systems. High pressure performance for overcoming friction losses, deflection losses and aggregate resistances.
For various applications in commercial, industrial and residential areas.

Special features

- ☐ Highly efficient EC motor for low operating costs.
- ☐ Low space requirement and installation costs due to linear throughflow.
- ☐ No need for elaborate deflectors.
- ☐ Connectors on inlet and outlet side correspond to standard duct Ø.
- ☐ Performance adjustment through 100% speed control.
- ☐ Can be used in any position.
- ☐ Wide range of accessories.
- ☐ Aerodynamically optimised casing design.

Common features RR EC and SVR EC

Drive
Energy-saving, speed-controllable EC external rotor motor in protection category IP44 with a high level of efficiency. Maintenance-free and ball bearing mounted.

Motor protection
Integrated electronic temperature monitoring system for EC motor and electronics.

Installation
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation. Installation in duct system, preferably away from the room to be ventilated for less noise.

Description RR EC

Casing
Made of galvanised steel sheet, robust for harsh operating conditions. Inlet and outlet side connection dimensions correspond to standard duct Ø.

Power control
Continuously variable speed control with internal (delivery) or external potentiometer or continuously variable speed control with universal control system (see table). Performance levels are shown in the performance curve as an example.

Electrical connection
Terminal box (IP54) on outside of casing.

Impeller
Centrifugal, with backward curved blades made of plastic. Dynamically balanced together with motor for low-noise operation, high level of efficiency.

Protection category
Protection category IP54 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

Description SVR EC

Casing
Flat casing in compact design made of galvanised steel sheet. Connectors and lip seal on inlet and outlet side for standard duct Ø.
The retractable motor-impeller unit allows inspection and cleaning without dismantling components. The swivelling range must be considered for the inspection opening.

Power control
Continuously variable speed control with internal (delivery) or external potentiometer or continuously variable speed control with universal control system (see table). Performance levels are shown in the performance curve as an example.

Electrical connection
Terminal box (IP54) on external cable.

Impeller
Energy-saving centrifugal impeller with backward curved blades made of high-quality plastic. Dynamically balanced together with motor for low-noise operation.

Protection category
IP44 with connected duct system.

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.

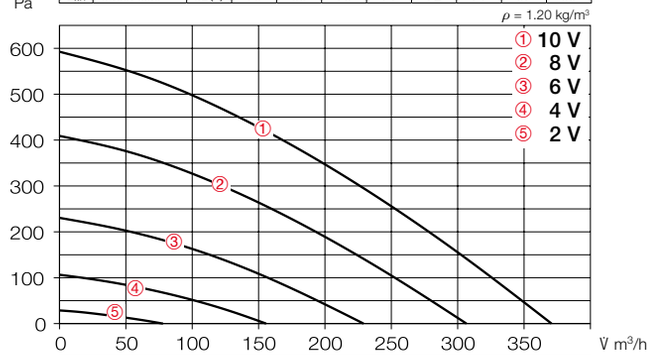
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

Type	Ref. no.	Connection Ø	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 surf-mount.	
		mm	V̇ m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Type RR EC, Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP44																
RR EC 100	05804	100	370	3640	46	0.10	0.80	979	60	2.5	**EUR EC**[1)2)]	01347	**PU 10**[1)]	01734	**PA 10**[1)]	01735
Type SVR EC, Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP44																
SVR EC 100	06124	100	390	3600	52	0.090	0.76	979	60	5.3	**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.

Performance curves RR EC 100

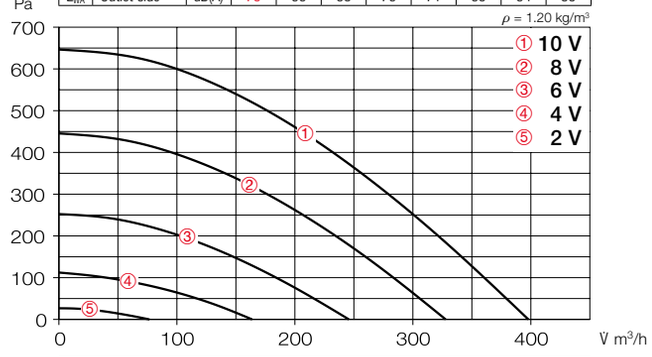
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	54	37	44	44	50	45	46	36
L_{WA}	Inlet side	dB(A)	78	70	72	71	72	67	67	58
L_{WA}	Outlet side	dB(A)	79	69	73	71	72	71	67	59



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3630	370	100	0.81	46	0.97
8	3020	310	60	0.50	41	0.69
6	2260	230	25	0.23	36	0.39
4	1520	160	10	0.10	30	0.22

Performance curves SVR EC 100

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	43	54	56	51	49	43	34
L_{WA}	Inlet side	dB(A)	75	65	66	72	65	65	60	54
L_{WA}	Outlet side	dB(A)	79	66	68	76	71	69	64	59

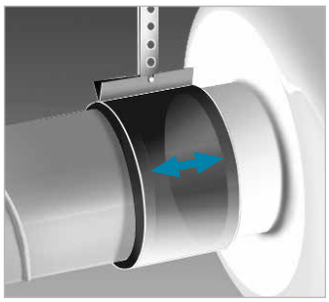


	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3610	400	90	0.75	52	0.81
8	2020	330	50	0.45	48	0.54
6	2270	250	25	0.21	42	0.36
4	1510	160	10	0.10	33	0.22

Other accessories

	Page
Filters, heating elements and silencers	483 ff.
Temperature control systems for heating elements	489, 493 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	563 ff.
Disc valves	584 ff.
Universal control system, electronic controllers, speed potentiometer	615 ff.

Accessories



Pipe clamp connectors
BM 100 Ref. no. 05075
For structure-borne noise-free connection of fan and piping and for suspension (1 set = 2 pcs). Mount ventilation duct and fan connector at a distance and fold sleeve over during installation.



Mounting bracket for RR EC
MK 4 Ref. no. 05824

External wall shutter
VK 100 Ref. no. 00757
Automatic made of plastic, white.



External wall cover grille
G 100 Ref. no. 00796
Made of plastic, white.



Protection grille
SGR 100 Ref. no. 05063
For inlet and outlet side installation. Made of powder-coated steel wire.



Duct shutter
RSKK 100 Ref. no. 05106
Automatic, made of plastic



Flexible cross talk silencer
FSD 100 Ref. no. 00676
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box
LFBR 100 Coarse 70%* 08576
LFBR 100 ePM1 50%* 08530
Air filter with large surface area, for installation in pipeline.



Electric heating element
EHR-R 0.4/100 0.4 kW No. 08708
In duct casing made of galvanised steel sheet.



Temperature control system for electric heating element EHR-R
EHS Ref. no. 05002



Warm water heating element
WHR 100 Ref. no. 09479
Compact heat exchanger for installation in duct system.



Temperature control system for warm water heating element
WHST 300 T38 Ref. no. 08817

* See product page 486 for detailed description.