RR EC 160

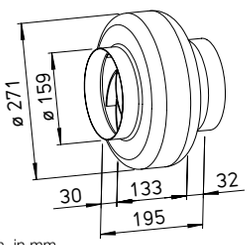


SVR EC 160



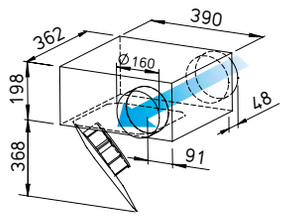
SlimVent – Slimline EC space saver w/ retractable motor-impeller unit.

Dimensions RR EC 160



Dim. in mm

Dimensions SVR EC 160



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 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.

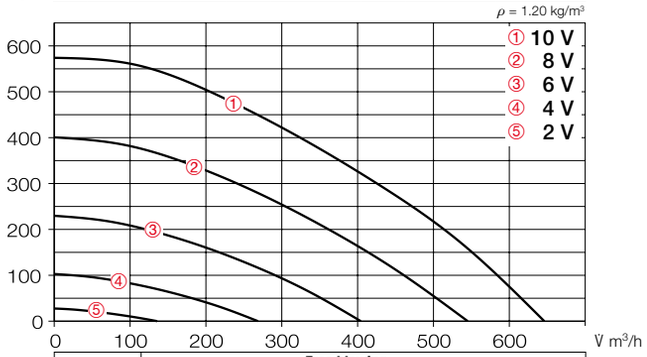
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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 160	05785	160	650	3640	44	0.10	0.82	979	60	2.8	**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 160 A	02535	160	580	3630	52	0.10	0.81	979	60	6.5	**EUR EC**[1)2)]	01347	**PU 10**[1)]	01734	**PA 10**[1)]	01735
SVR EC 160 B	02543	160	740	3110	54	0.12	0.98	979	60	6.9	**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 160

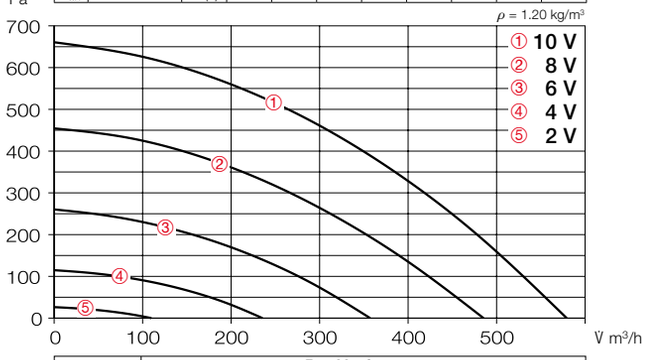
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	34	39	45	46	46	43	35
L_{WA}	Inlet side	dB(A)	75	64	67	71	68	65	65	60
L_{WA}	Outlet side	dB(A)	77	65	68	71	68	70	67	62



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3630	650	80	0.65	44	0.44
8	3030	550	45	0.40	40	0.29
6	2270	400	20	0.20	34	0.18
4	1510	270	10	0.10	28	0.13

Performance curves SVR EC 160 A

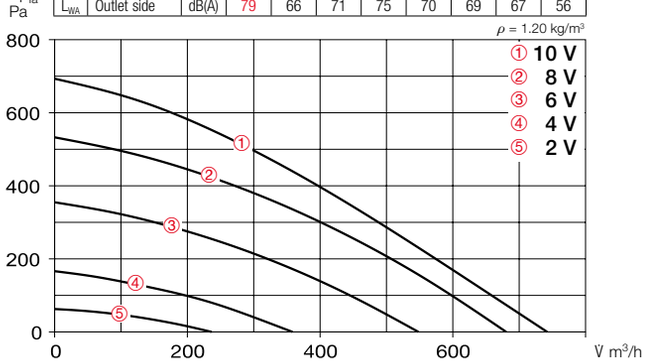
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	43	53	58	51	49	43	35
L_{WA}	Inlet side	dB(A)	76	66	69	71	67	64	63	54
L_{WA}	Outlet side	dB(A)	80	66	70	78	68	70	66	59



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3630	580	90	0.72	52	0.56
8	3020	490	50	0.44	48	0.36
6	2270	360	25	0.22	43	0.25
4	1520	240	10	0.10	35	0.15

Performance curves SVR EC 160 B

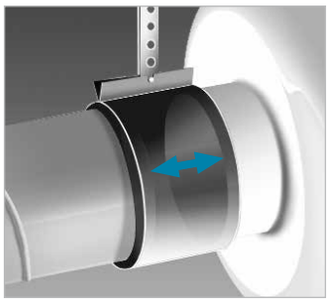
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	62	44	58	58	52	49	43	32
L_{WA}	Inlet side	dB(A)	76	65	70	72	67	62	61	52
L_{WA}	Outlet side	dB(A)	79	66	71	75	70	69	67	56



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3100	740	125	0.99	54	0.61
8	2850	680	90	0.78	52	0.48
6	2300	550	50	0.41	48	0.33
4	1600	360	20	0.15	42	0.20

Accessories

Pipe clamp connectors
BM 160 Ref. no. 05077
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.

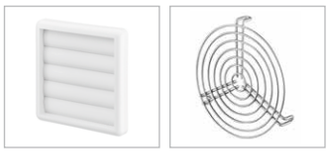


Mounting bracket for RR EC
MK 4 Ref. no. 05824



External wall shutter
VK 160 Ref. no. 00892
Automatic made of plastic, white.

External wall cover grille
G 160 Ref. no. 00893
Made of plastic, white.



Protection grille
SGR 160 Ref. no. 05069
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 160 Ref. no. 05669
Automatic, made of metal.



Flexible cross talk silencer
FSD 160 Ref. no. 00678
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box
LFBR 160 Coarse 70%* 08578
LFBR 160 ePM1 50%* 08532
Air filter with large surface area, for installation in pipeline.



Electric heating element
EHR-R 1.2/160 1.2 kW No.09434
EHR-R 2.4/160 2.4 kW No.09435
EHR-R 5/160 5.0 kW No.08710
– with integrated temp. control
EHR-R 2.4/160 TR 2.4 kW No.05294
Room or duct sensor (TFK/TFR, Accessories) required.



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



Warm water heating element
WHR 160 Ref. no. 09481
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.