SB EC 250



Virtually silent with high volume output and pressure performance. Ideal for cleaning and inspection.

EC

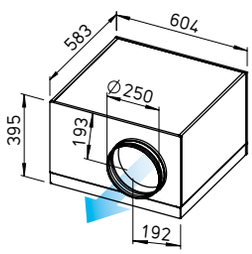
SVS EC 250



Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

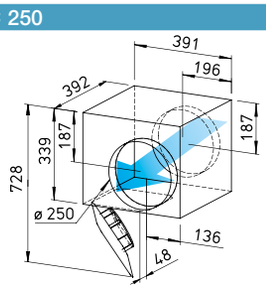
EC

Dimensions SB EC 250



Dim. in mm

Dimensions SVS EC 250



Dim. in mm

Common features SilentBox SB EC and SlimVent SVS EC

- **Installation**
  No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation. Mounting bracket included in delivery.
- **Drive**
  Energy-saving, speed-controllable EC external rotor motor in protection category IP44 with high efficiency. Maintenance-free and ball bearing mounted. Motor and impeller dynamically balanced for low-noise operation.
- **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.
- **Motor protection**
  Integrated electronic temperature monitoring system for EC motor and electronics.

Description SilentBox EC

- **Casing**
  Designed as a silencer. Equipped with abrasion-resistant, sound-absorbing mineral fibre boards (50 mm). Removable cover with locking clamp. Freely accessible fan. Removable motor-impeller unit, the removal area must be considered. Inlet and outlet side connectors with rubber lip seal corresponds to standard duct Ø. All parts made of galvanised steel sheet.
- **Impeller**
  With backward curved blades. Inlet via nozzle.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable.
- **Protection category**
  IP44 with connected duct system.

Description SlimVent SVS EC

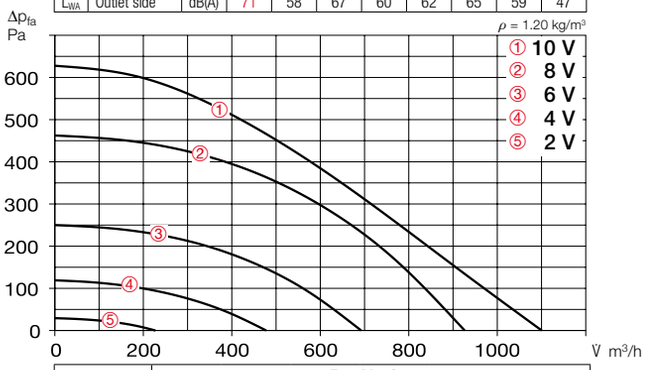
- **Casing**
  Extremely flat casing with sound-insulating, over 50 mm thick mineral wool lining and glass fibre surface. The acoustic box placed in front of the fan wheel significantly reduces the inlet-side noises. The radiated noises are reduced to a lesser extent (see noise data above the performance diagrams).
- The retractable motor-impeller unit allows inspection and cleaning without dismantling the system components. The removal area of the motor-impeller unit must be considered.
- **Impeller**
  Energy-saving centrifugal impeller with backward curved blades made of high-quality plastic.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable.
- **Protection category**
  IP44 with connected duct system.

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.		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 SB EC, Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP44																
SB EC 250	09627	250	1190	2790	42	0.15	1.18	979	60	23	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
Type SVS EC, Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP44																
SVS EC 250	06125	250	1210	2920	46	0.15	1.21	979	60	9.6	**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 SB EC 250

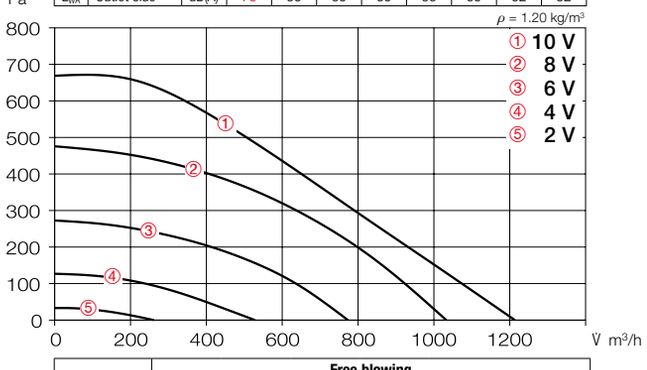
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	50	38	48	42	37	34	32	27
L_{WA}	Inlet side	dB(A)	62	54	56	46	50	49	47	38
L_{WA}	Outlet side	dB(A)	71	58	67	60	62	65	59	47



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3030	1100	140	1.1	42	0.46
8	2560	930	90	0.8	40	0.35
6	1920	690	40	0.3	38	0.21
4	1290	480	20	0.2	28	0.15

Performance curves SVS EC 250

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	54	37	50	49	43	42	35	29
L_{WA}	Inlet side	dB(A)	66	55	63	52	53	57	52	43
L_{WA}	Outlet side	dB(A)	75	59	69	69	66	69	62	52



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3010	1210	150	1.2	46	0.45
8	2520	1030	95	0.80	43	0.33
6	1900	770	45	0.38	40	0.21
4	1300	530	15	0.16	31	0.10

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.

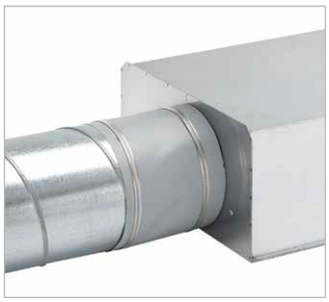
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

Accessory details

	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

Flexible connecting sleeve
FM 250 Ref. no. 01672
Includes 2 hose clamps; for installation between fan and duct system. Prevents structure-borne noise transmission and bridges installation tolerances.
2 pcs required for inlet and outlet side application.



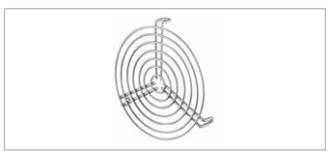
External wall shutter
VK 250 Ref. no. 00759
Automatic made of plastic, light grey.



External wall cover grille
RAG 250 Ref. no. 00751
For placement in front of air inlet and outlet openings in facades. Made of plastic, light grey.



Protection grille
SGR 250 Ref. no. 05067
For inlet and outlet side installation. Made of galvanised steel.



Duct shutter
RSK 250 Ref. no. 05673
Automatic, made of metal.



Flexible cross talk silencer
FSD 250 Ref. no. 00680
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box
LFBR 250 Coarse 70%* 08580
LFBR 250 ePM1 50%* 08534
Air filter with large surface area, for installation in pipeline.



Electric heating element
EHR-R 6/250 6.0 kW No. 08712
– with integrated temp. control
EHR-R 6/250 TR 6.0 kW No. 05296
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 250 Ref. no. 09483
Compact heat exchanger for installation in duct system.



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



* See product page 486 for detailed description.