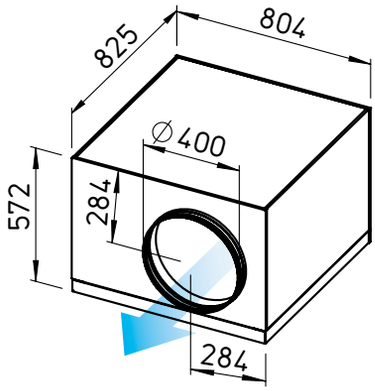
SB EC 400



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

Dimensions SB EC 400



Dim. in mm

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.

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.

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

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) mounted to external cable (aprx. 60 cm long).

Protection category
IP44 with connected duct system.

Installation
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation. Mounting bracket included in delivery.

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.

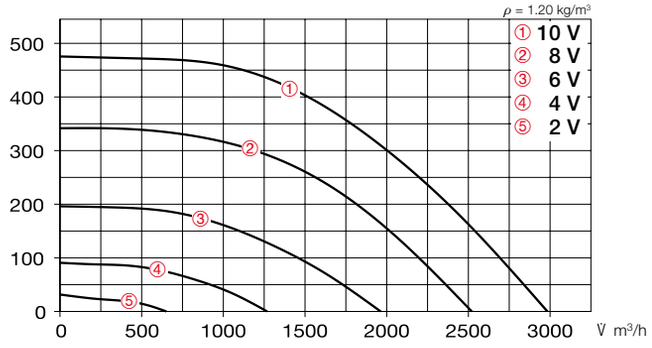
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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 SB EC, Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP54																
SB EC 400 A	06140	400	2980	1640	51	0.36	1.59	979	60	52	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SB EC 400 B	09629	400	4570	1510	58	0.80	3.49	979	60	55	**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 400 A

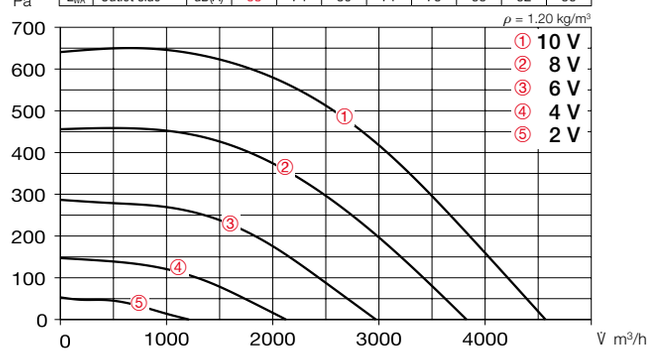
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	59	43	58	41	37	34	28	29
L_{WA}	Inlet side	dB(A)	68	59	67	50	50	51	46	45
L_{WA}	Outlet side	dB(A)	77	63	73	65	71	66	58	58



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1660	2980	310	1.3	51	0.37
8	1410	2520	190	0.8	49	0.27
6	1060	1960	90	0.4	38	0.16
4	720	1270	40	0.2	30	0.11

Performance curves SB EC 400 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	66	57	65	48	44	38	34	31
L_{WA}	Inlet side	dB(A)	76	70	73	64	58	53	49	44
L_{WA}	Outlet side	dB(A)	83	74	80	71	75	68	62	56



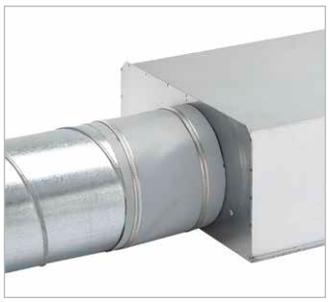
	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1510	4570	710	3.1	58	0.56
8	1270	3830	430	1.9	54	0.40
6	980	2970	210	0.9	46	0.25
4	700	2130	90	0.4	37	0.15

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 400 Ref. no. 01676
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 400 Ref. no. 00762
Automatic made of plastic, light grey.



External wall cover grille
RAG 400 Ref. no. 00754
For placement in front of air inlet and outlet openings in facades. Made of plastic, light grey.



Duct shutter
RSK 400 Ref. no. 05651
Automatic, made of metal.



Flexible cross talk silencer
FSD 400 Ref. no. 00683
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box
LFBR 400 Coarse 70%* 08582
LFBR 400 ePM1 50%* 08537
Air filter with large surface area and absorption capacity for installation in pipeline. Connections with double lip seal, matched to standard.



Electric heating element
EHR-R 9/400 9.0 kW No. 08657
– with integrated temp. control
EHR-R 9/400 TR 9.0 kW No. 05299
Room or duct sensor (TFK/TFR, Accessories) required.



Temperature control system for electric heating element EHR-R
EHSD 16 Ref. no. 05003



Warm water heating element
WHR 400 Ref. no. 09524
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.