SB 250 C



Efficiency class

C SB + accessories*

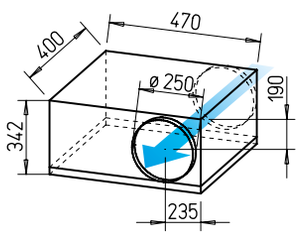
Virtually silent with high volume output and pressure performance. Ideal for cleaning and inspection.

SB 250 E



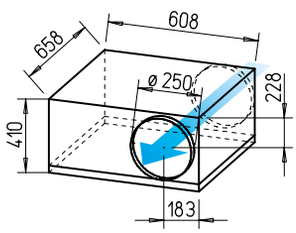
Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

Dimensions SB 250 C



Dim. in mm

Dimensions SB 250 E



Dim. in mm

Common features SB 250 C and E

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

Motor
Enclosed, ball bearing mounted external rotor motor with humidity protection, insulation class F, for continuous operation and maintenance-free.

Motor protection
Through built-in thermal contacts wired in series to the winding, which automatically activated and deactivate again after cooling.

Power control
From 0 – 100 % possible using electronic controller or step transformer (see table).

Electrical connection
Terminal box (IP54) mounted to external cable (aprx. 60 cm long).

Protection category
IP44.

Description SB 250 C

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
Forward curved impeller in aerodynamically optimised volute casing, made of galvanised steel sheet. Inlet via nozzle.

Description SB 250 E

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.
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 made of high-quality plastic. Dynamically balanced for low-noise operation. Inlet via nozzle.

Reference	Page
Techn. description	362
Selection table	363
Planning information	14 ff.
Modular system	360

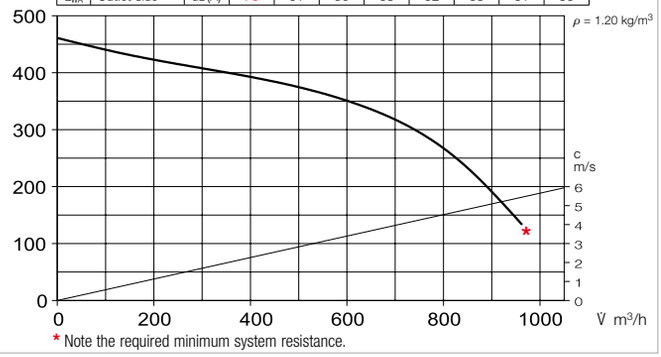
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case radiation	Power consum.	Power consump. at rated voltage	Power consump. with control	Wiring diagram	Max air flow temp. at rated voltage	Max air flow temp. with control	Wgt net aprx.	Transformer speed controller 5-step	Ref. no.	Electronic[1] Speed controll., cont. var. flush-mount. / surf-mount.	Ref. no.
		V̇ m³/h	min⁻¹	db(A) in 1m	W	A	A	No.	+ °C	+ °C	kg	Type		Type	
Type SB, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44 (C), IP33 (E)															
SB 250 C	09512	960	2120	43	255	1.13	1.13	508	50	50	18.0	**TSW 1.5**	01495	**ESU 3 / ESA 3**	00237 / 00239
SB 250 E	09565	1080	2690	45	165	0.71	0.86	508	70	50	33.4	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Transformer control units must be provided in noise-relevant cases. Electronic phase angle control can cause disturbing magnetisation humming.

* See ErP product data sheet at www.HeliosSelect.de.

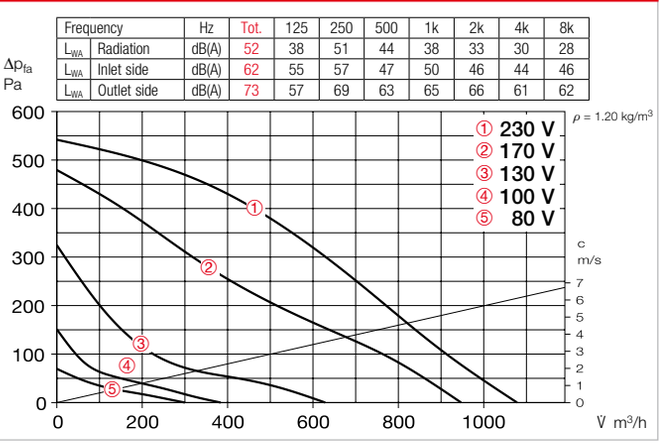
Performance curves SB 250 C

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	47	38	45	39	34	36	35	36
L_{WA}	Inlet side	dB(A)	63	59	58	55	50	47	46	44
L_{WA}	Outlet side	dB(A)	70	61	60	63	62	63	61	58



Performance curves SB 250 E

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	38	51	44	38	33	30	28
L_{WA}	Inlet side	dB(A)	62	55	57	47	50	46	44	46
L_{WA}	Outlet side	dB(A)	73	57	69	63	65	66	61	62



Noise

The total level and range are specified above the performance diagram for

- ☐ Case-radiated sound power.
- ☐ Inlet/outlet side sound power in dB(A).
- ☐ The case-radiated noise as sound pressure at **1 m** (free field conditions) are also specified in the type table.

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.



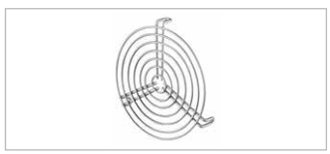
External wall shutter
VK 250 Ref. no. 00759
Automatic made of plastic, light grey.



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.