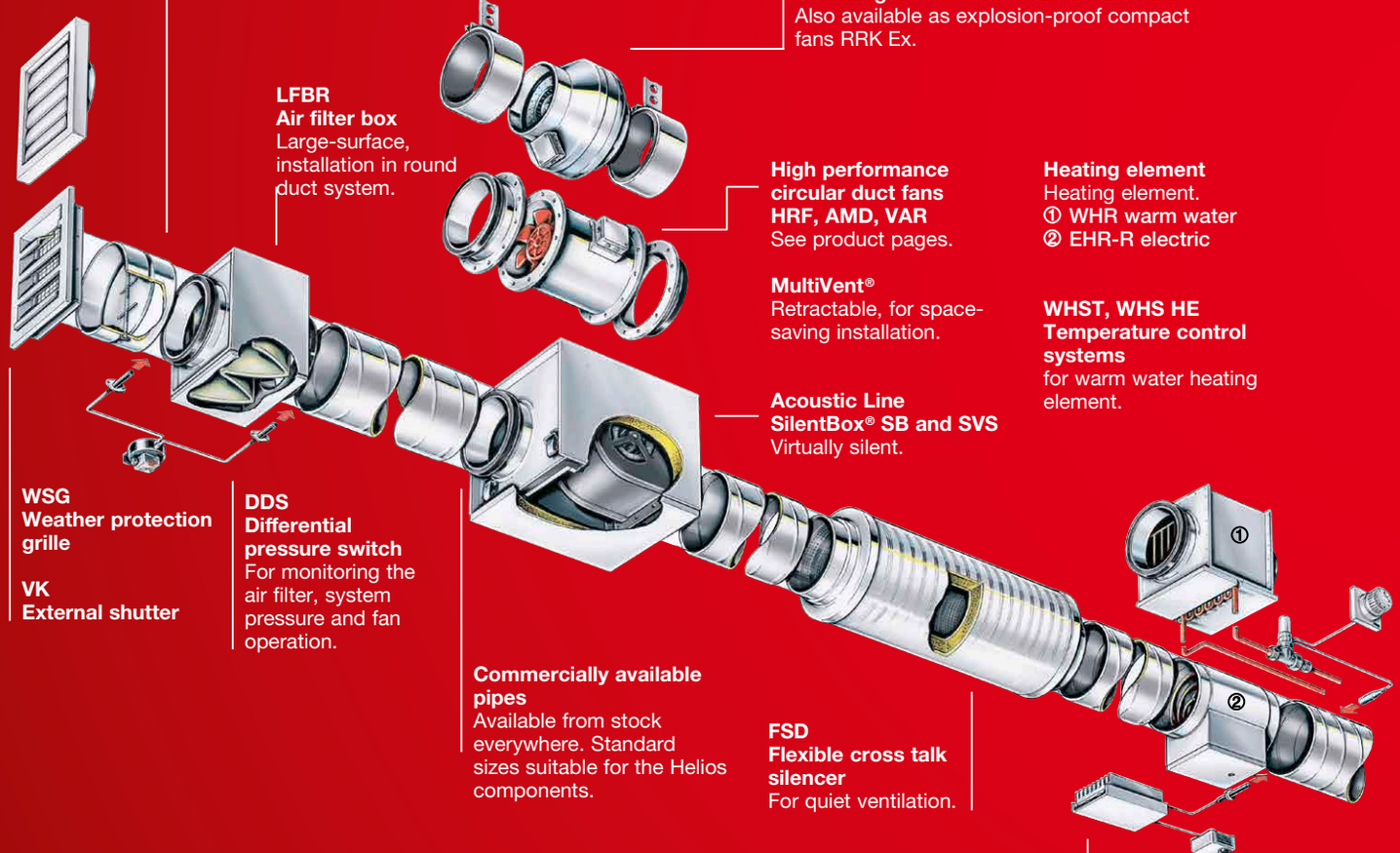
Helios circular duct fans.
System solutions for your next project.



RSK
Duct shutter
Prevents energy loss caused by unwanted draughts.

BM
Pipe clamp connector
For structure-borne noise-free connection of fan and piping and for suspension.

Flat centrifugal round duct fan SV
Also available in Acoustic Line version (Type SVS) for lowest noise levels.

Centrifugal round duct fan RR and RRK
Also available as explosion-proof compact fans RRK Ex.

LFBR
Air filter box
Large-surface, installation in round duct system.

High performance circular duct fans HRF, AMD, VAR
See product pages.

MultiVent®
Retractable, for space-saving installation.

Heating element
Heating element.
① WHR warm water
② EHR-R electric

WHST, WHS HE
Temperature control systems
for warm water heating element.

Acoustic Line
SilentBox® SB and SVS
Virtually silent.

WSG
Weather protection grille

VK
External shutter

DDS
Differential pressure switch
For monitoring the air filter, system pressure and fan operation.

Commercially available pipes
Available from stock everywhere. Standard sizes suitable for the Helios components.

FSD
Flexible cross talk silencer
For quiet ventilation.

EHS Electronic temperature control system
for electric heating element.

Explosion-proof compact fans RRK Ex, 230 V~

380f

Centrifugal circular duct fans

Product-specific information, selection table.

360f

Fresh air boxes

Efficient EC version. With electric or warm water heating and air filter.

ALB EC EH
Ø 125 – 250 mm
▭ 30 x 20 cm

ALB EC WW
▭ 40 x 20 cm, 50 x 30 cm, 60 x 35 cm, 80 x 50 cm

340ff

MultiVent® MV circular duct fans

Compact circular duct fans for space-saving installation in the pipeline.

7 types available from Ø 100 – 315 with highly efficient EC motors for the lowest operating costs.

362ff

InlineVent® RR, RRK and SVR circular duct fans

RR, RRK: Optionally made of galvanised steel sheet or in corrosion-resistant plastic casing.

SlimVent: Slimline, with retractable motor-impeller unit.

18 types available from Ø 100 – 315 with highly efficient EC motors for the lowest operating costs.

382ff

Acoustic Line SilentBox® SB and SlimVent SVS, sound-insulated

Virtually silent with high volume output and pressure performance. SlimVent models for limited installation spaces.

20 types available from Ø 125 – 400 with highly efficient EC motors for the lowest operating costs.

408ff

Properties

InlineVent and MultiVent circular duct fans have the advantages of axial design, such as linear flow pattern and easy, cost-effective installation, as well as the performance characteristics of high performance centrifugal fans.
Highlights:
- ☐ Low space requirement.
- ☐ Unrestricted controllability.
- ☐ Low installation costs.
- ☐ Cost-effective installation.
- ☐ Low sound power level.
- ☐ High pressure reserve.

Designs – Overview

MultiVent® MV

High pressure performance and volume output with space-saving dimensions.
With 190 – 1860 m^3/h and above 800 Pa, universally suitable for the ventilation of small to medium-sized rooms of any kind.
19 types from standard diameter 100 – 250 mm in single and two level as well as parallel design.

- **MV EC**
  7 types available from Ø 100 – 315 mm with highly efficient EC motors for the lowest operating costs.

RR

Market-leading solution with favourable price/performance ratio. Centrifugal circular duct fans with small to medium output in standard diameters from 100 – 315 mm. Robust casing made of galvanised steel sheet.

- **RR EC**
  9 types available from Ø 100 – 315 mm with highly efficient EC motors for the lowest operating costs.

RRK

Alternative in corrosion-resistant and impact-resistant plastic casing in standard diameters from 100 – 315 mm.

SVV, SVR

Compact flat circular duct fans from Ø 80 – 200 mm. With energy-efficient centrifugal impellers for the delivery of small to large volume flows.

- **SVR EC**
  9 types available from Ø 100 – 315 mm with highly efficient EC motors for the lowest operating costs.

RRK Ex

Explosion-proof compact fans for 230 V, 1~ alternating current. Especially suitable for the ventilation of chemical and pharmaceutical laboratories, workshops, etc. For installation in the pipeline, approved for operation in zones 1 and 2 according to DIN EN 60079 / VDE 0165.

Acoustic Line SB

Helios SilentBox – the virtually silent solution for powerful centrifugal fans with duct connection to standard diameters 125 – 400 mm.

- **SB EC**
  12 types available from Ø 125 – 400 mm with highly efficient EC motors for the lowest operating costs.

Acoustic Line SVS

Fully lined with sound-insulating mineral wool.
In an extremely compact design. Ideal for suspended ceilings, with duct connection to standard diameters 125 – 200 mm.

- **SVS EC**
  8 types available from Ø 125 – 315 mm with highly efficient EC motors for the lowest operating costs.

This information supplements the "General technical information" and the information on the product pages.

- **Installation position, installation, condensate outlets**
  All series (except for SVR, SVS) can be installed in any position. With regard to series SV, the swivelling range must be kept clear and access for inspection and cleaning must be unhindered. In case of condensation (e.g. in case of intermittent operation, air flow with high moisture and varying temperatures), the unit must be installed so that condensate can drain downwards without restriction. Corresponding holes must be made in the fan casing, if necessary. With regard to RR types, there are condensate outlets in the impeller disc and the motor casing. If necessary, the pipeline must be insulated so that condensation is prevented.

- **Structure-borne noise transmission**
  to buildings and duct systems must be prevented. The fan must not be rigidly connected to the pipeline. Suitable connecting sleeves are offered as accessories.

- **Explosion-proof types**
  With regard to the operating conditions and standards, reference is made to the information in "Planning information Explosion protection". The explosion proof types RRK Ex correspond to unit group II, category 2G for operation in zones 1 and 2 in accordance with Directive 2014/34/EU (ATEX).

- **Drive, impeller**
  External rotor motors which are located in the air flow are used for all types. They correspond to DIN EN 60034/VDE 0530 and DIN EN 60335-1/VDE 0700 and they are in ISO class F with additional humidity protection.
  The EC types are equipped with especially energy-saving, speed-controllable EC external rotor motors. They are maintenance-free and radio interference-free and they are suitable for continuous operation (S1). The ball bearings have a sufficient lubricant supply for their service life.
  The centrifugal impellers are pressed on the motor body, i.e. fixed to it, and dynamically balanced as a unit according to DIN ISO 21940-11 – quality grade 6.3.

- **Power control**
  All InlineVent- , MultiVent and Acoustic Line AC standard types can be controlled from 0 – 100% through voltage reduction. As a result, the output can be set to the desired volume. One or more AC fans (until the max. rated current is reached) can be operated with the offered speed controls.
  The dimensioning must be based on a 10% reserve.
  Type SVV 80 can also be controlled using a three level switch and types SVR, SVS and RR can be controlled using a two level switch.
  Control via two level switch or a five-step transformer is possible for all MultiVent AC types. Continuously variable control is also possible via electronic speed controller.
  All EC types have continuously variable speed control via internal or external speed potentiometer. Control is also possible via three level switch or continuously variable via universal control system or electronic differential pressure/temperature controller. The performance levels are shown on the performance curve as examples.

- **Air flow direction**
  The air flow direction cannot be changed for centrifugal fans; but it can be set by the corresponding positioning. The correct motor rotation direction and air flow direction is marked by arrows and must be checked during commissioning.

- **Incorrect direction of rotation**
  Operation in the incorrect direction of rotation overloads the AC motor and causes the thermal contacts to respond. Typical concomitant features include virtually non-existent flow rate, vibration and abnormal noise.

- **Air flow temperature**
  The units can be used in the range from –40 °C to at least +40 °C (type-dependent).

Reference

The integration of air filters in class ISO ePM_1 50 % (F7) and differential pressure switches DDS (Ref. no. 00445) in intake air systems meets the requirements of VDI 6022.

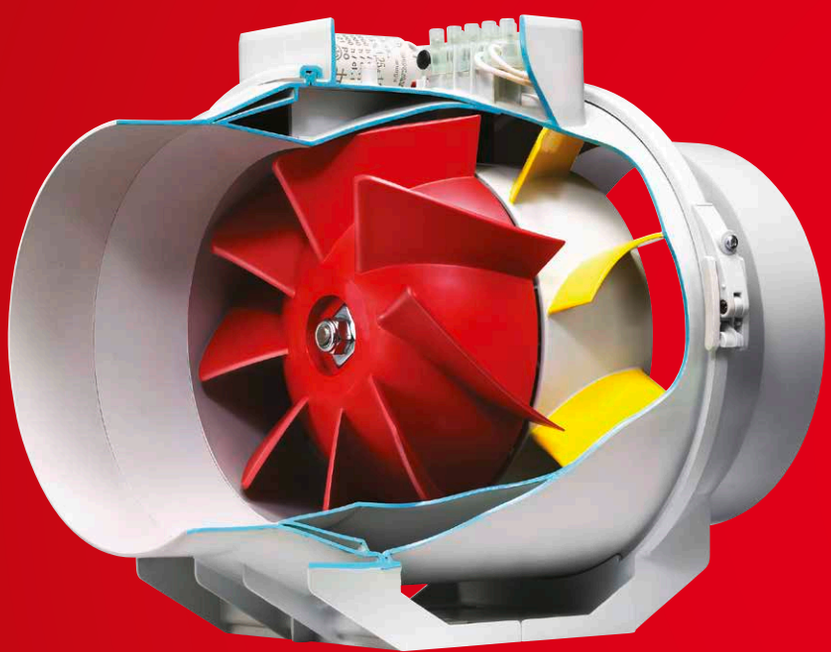
Reference	Page
Planning information, acoustics, expl. protection	14 ff.
General techn. information, power control	19 ff.

By combining the parameters of static pressure increase Δp_{fa}, case-radiated noise and inlet side air noise as sound pressure at 1 m (free field conditions), the following table facilitates the selection of circular duct fans.

EC	Sound pre. Radiation	Sound pre. inlet side	Flow rate $\dot{V}$ m³/h depending on static pressure												
	L_{PA} dB(A)	L_{PA} dB(A)	(ΔP_{fa}) in Pa												
Type	at 1m dist.	at 1m dist.	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**500**	**600**	**700**	**800**
MV EC 100	44	57	280	150	100	60	30	10							
MV EC 125	44	57	360	290	210	140	90	40							
MV EC 150	48	61	600	540	460	390	320	250	190	130	80				
MV EC 160	49	61	620	560	520	470	390	290	210	150	100				
MV EC 200	51	62	1100	1030	950	840	670	410	170						
MV EC 250	53	66	1470	1380	1270	1160	1010	850	470	160	30				
MV EC 315	57	72	2620	2490	2370	2240	2100	1880	1660	280	110				
RR EC 100	46	70	370	350	330	300	280	250	230	200	170	100			
RR EC 125	45	71	570	530	490	450	410	370	330	290	240	140			
RR EC 160	44	67	650	620	590	550	510	470	430	370	330	200			
RR EC 200 A	44	67	980	930	880	820	750	670	590	470	340				
RR EC 200 B	47	69	1130	1070	1010	950	890	830	770	700	620	450	180		
RR EC 250 A	44	66	1050	1000	940	870	800	720	610	500	390				
RR EC 250 B	45	68	1200	1130	1060	1000	930	860	800	730	650	490	190		
RR EC 315 A	47	66	1910	1830	1730	1580	1370	1210	1050	930	820	620	450	160	
RR EC 315 B	48	71	2140	2030	1920	1800	1690	1580	1480	1380	1260	1060	820	560	230
SB EC 125 A	41	54	520	500	480	460	440	420	390	370	350	280	140		
SB EC 125 B	45	54	530	500	480	460	430	410	380	360	330	280	210	220	130
SB EC 160 A	41	57	590	570	550	530	510	480	450	420	380	280	60		
SB EC 160 B	46	57	590	560	530	500	470	440	410	380	350	280	200	240	150
SB EC 200 A	39	55	900	850	800	740	670	600	540	450	360				
SB EC 200 B	43	57	1020	960	910	860	790	740	660	590	520	360	110		
SB EC 250	43	56	1190	1130	1060	990	910	830	730	660	560	380	130		
SB EC 315 A	49	62	2490	2380	2270	2160	2040	1910	1770	1600	1380	130		80	
SB EC 315 B	53	65	3280	3210	3140	3060	2980	2900	2820	2720	2630	2440	2190		
SB EC 355	53	64	2710	2530	2390	2250	2110	1960	1780	1610	1380				
SB EC 400 A	51	60	2980	2850	2700	2540	2390	2200	2000	1780	1520				
SB EC 400 B	58	68	4570	4370	4190	4020	3850	3680	3490	3290	3080	2590	1810		
SVR EC 100	52	67	400	380	360	340	320	300	280	260	230	170	90		
SVR EC 125	50	70	520	490	470	450	420	400	370	340	310	240	150		
SVR EC 160 A	52	68	580	550	530	510	480	450	420	380	350	260	150	220	20
SVR EC 160 B	54	68	740	700	660	620	580	530	490	440	400	290	180		
SVR EC 200 A	50	68	850	800	760	700	650	590	520	450	360	40			
SVR EC 200 B	53	68	980	930	880	820	770	720	670	620	570	450	320		
SVR EC 250	48	65	1180	1120	1050	980	920	830	770	700	630	480	310		
SVR EC 315 A	52	67	1700	1590	1460	1350	1230	1120	1010	900	810	610	400	220	20
SVR EC 315 B	54	71	1950	1830	1730	1630	1540	1440	1350	1270	1180	1010	840	650	450
SVS EC 125	53	62	540	510	490	460	430	410	380	350	310	240	150		
SVS EC 160 A	51	62	570	550	520	500	470	430	410	370	330	250	140		
SVS EC 160 B	52	61	780	740	690	640	580	540	490	440	390	300	180		
SVS EC 200 A	49	60	900	850	800	740	680	620	560	490	410				
SVS EC 200 B	52	61	1010	950	900	840	780	730	680	610	560	420	270	0	
SVS EC 250	46	58	1210	1150	1070	1010	930	860	790	720	650	510	340		
SVS EC 315 A	50	60	1700	1580	1450	1340	1230	1110	1000	890	780	580	390	200	0
SVS EC 315 B	52	64	1950	1830	1720	1620	1520	1420	1330	1250	1160	970	800	620	410

	Sound pre. Radiation	Sound pre. inlet side	Flow rate $\dot{V}$ m³/h depending on static pressure												
	L_{PA} dB(A)	L_{PA} dB(A)	(ΔP_{fa}) in Pa												
Type	at 1m dist.	at 1m dist.	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**500**	**600**	**700**	**800**
MV 100 A	34/38	45/50	190												
MV 100 B	32/38	46/52	230	120	40										
MV 125	35/42	49/56	350	300	100										
MV 150	40/48	56/64	520	480	420	350	80								
MV 160	41/49	57/65	550	470	410	350	120								
MV 200	36/44	50/58	930	860	770	630	160								
MV 250	40/52	53/66	910	830	700	600	500	390	270	180	110				
RR 100 A	36	59	250	200	160	120	90	60	30						
RR 100 C	42	63	330	290	240	190	150	100	70	20					
RR 125 C	42	63	480	420	350	250	170	120	70	30					
RR 160 B	42	62	530	470	380	300	240	160	100						
RR 160 C	49	66	870	800	730	600	500	400	320	180					
RR 200 A	47	65	960	900	830	760	670	590	480	350	230				
RR 200 B	44	66	980	940	890	830	760	690	610	520	410	120			
RR 250 A	47	67	950	880	800	730	650	550	450	320	100				
RR 250 C	45	67	970	930	870	810	760	690	630	560	470	160			
RR 315	46	68	1260	1190	1140	1080	1010	940	870	790	700	390			
RRK 100	44	55	290	230	170	110	70	20							
RRK 125	36	52	390	350	300	250	190	120	40						
RRK 160	36	53	520	470	410	340	260	170	70						
RRK 200	40	57	930	870	790	660	570	440	340	250	150				
RRK 250	40	56	1000	910	820	700	580	450	350	240	130				
RRK 315	48	65	1080	1040	980	920	850	780	710	630	530	320	30		
SB 125 A	28	46	230	220	200	180	150	120							
SB 125 C	37	55	440	420	400	370	340	310	270	10					
SB 160 B	36	54		360	340	330	310	290	240						
SB 160 D	43	60	580	540	510	470	440	400	360	20					
SB 200 C	44	55	810	730	650	570	470	350	240	120					
SB 200 D	48	58	1030	940	880	830	770	710	650	560	450	150			
SB 250 C	43	56				940	890	820	740	590	330				
SB 250 E	45	55	1080	990	910	840	770	700	630	550	460	200			
SB 315	51	59	2420	2250	2080	1830	1530	1020	130						
SBD 315 A	50	61	2200	2020	1830	1640	1420	1120	710	240					
SBD 315 B	47	57	2250	2150	2030	1830	1620	1430	1200						
SB 355	52	63	2960	2730	2490	2230	1950	1560	310						
SBD 355	51	65	3330	3210	3070	2920	2770	2600	2420	2200	1930				
SB 400	51	62	3930	3670	3410	3100	2750	2380	1860	1030					
SBD 400	50	65	3450	3320	3190	3060	2900	2730	2530	2280	1950				
SVR 100 C	40/45	54/59	310	290	270	240	210	160	110	50					
SVR 125 B	38/46	53/61	400	360	320	290	240	190	120	50					
SVR 160 K	37/45	51/60	450	400	360	320	270	220	160	80					
SVR 200 K	57	70	980	930	870	820	760	710	650	580	510	320	80		
SVS 125 B	35/44	45/55	400	360	330	280	240	180	130	60					
SVS 160 K	35/44	45/55	440	400	360	310	260	210	150	70					
SVS 160 L	39/50	48/58	670	620	570	510	440	370	290	210	90				
SVS 200 K	55	63	940	900	850	800	750	690	620	540	460	300	90		
SVV 80	24/26/37	25/32/43	110	100	90	80	70	60	20						

MultiVent® circular duct fans.
As slimline as the duct system itself.



- **Energy-efficient EC version**

– Ø 100 – 315 mm
V̇ = 280 – 2620 m³/h

364ff

- **Standard AC types available in two level or parallel design**

– Ø 100 – 250 mm
V̇ = 190 – 1820 m³/h

368ff

Space-saving

With a volume output of 190 to 2620 m³/h and a pressure rate above 800 Pa (with two level configuration), Helios MultiVent units are suitable for the ventilation of small to medium-sized rooms of any kind. Their special advantage lies in their especially small dimensions. The casing diameter is only slightly larger than the ventilation duct. Horizontal, vertical or diagonal installation possible in any position.

Rotates as required

The installation of Helios MultiVent directly in the pipeline is space-saving and easy. Ideal in narrow spaces, e.g. below suspended ceilings.
The casing with integrated bracket can be installed in any position. The fan unit with terminal box can also be rotated to any position. It can be easily removed by loosening the clamp.

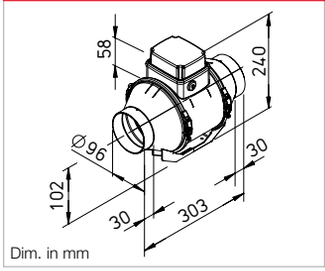
Freely accessible

This unit concept guarantees the easiest installation in the pipeline as well as problem-free inspection. The concept meets the requirements of VDI 6022. The energy-saving capacitor motors are fully enclosed and equipped with ball bearings for 30000 operating hours. This means that it can also be used for contaminated and dusty air.

MV EC 100

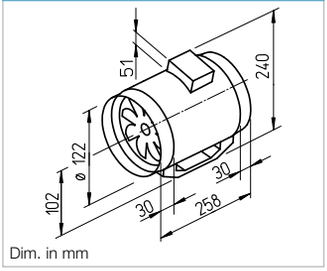
MV EC 125

Dimensions MV EC 100



Dim. in mm

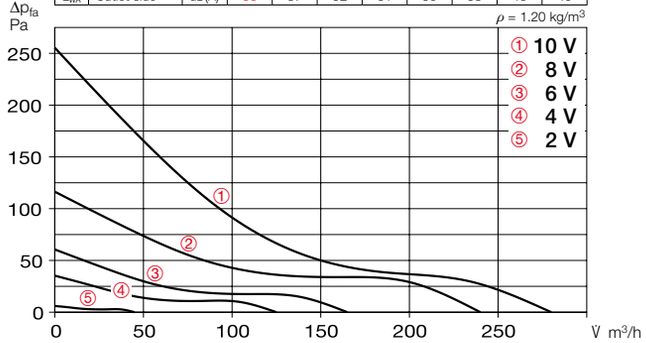
Dimensions MV EC 125



Dim. in mm

Performance curves MV EC 100

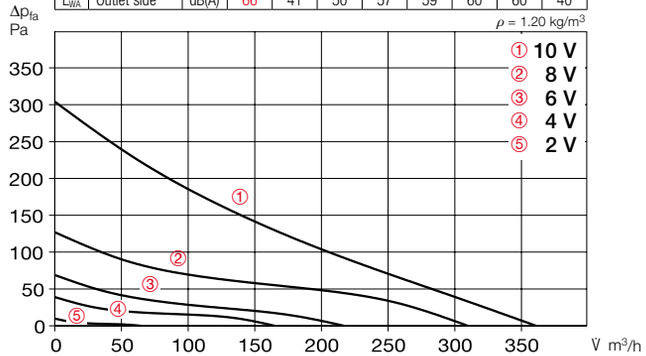
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	27	47	46	44	41	36	28
L_{WA}	Inlet side	dB(A)	65	34	59	61	57	52	45	36
L_{WA}	Outlet side	dB(A)	66	37	62	61	59	53	48	40



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2280	280	23	0.26	44	0.30
8	1950	240	16	0.18	41	0.24
6	1390	160	8	0.12	34	0.18
4	1080	120	6	0.08	29	0.18

Performance curves MV EC 125

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	29	37	44	46	47	47	28
L_{WA}	Inlet side	dB(A)	65	40	50	57	60	57	59	33
L_{WA}	Outlet side	dB(A)	66	41	50	57	59	60	60	40



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2250	360	30	0.30	44	0.30
8	2000	310	20	0.18	40	0.23
6	1400	220	10	0.15	36	0.17
4	1115	170	8	0.10	32	0.16

Energy-saving EC round duct fan with high pressure performance, high volume output and space-saving dimensions.

Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Description

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic. Dynamically balanced for low-noise operation.

Drive
Energy-saving, speed-controllable EC external rotor motor with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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

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

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.

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	481 ff.
Temperature control systems for heating elements	487, 491 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	561 ff.
Disc valves	582 ff.
Universal control system, electronic controllers, speed potentiometer	613 ff.

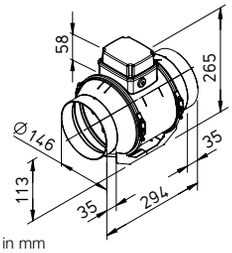
Type	Ref. no.	Connection Ø	Flow rate Free blowing	Rated speed	Sound press. case radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system		Speed potentiometer flush-mount.		surf-mount.	
		mm	V̇ m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.
Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP45																
MV EC 100	09513	100	280	3250	44	0.029	0.31	1194	60	1.8	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
MV EC 125	06032	125	360	3600	44	0.039	0.39	1194	60	1.8	**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.

MV EC 150

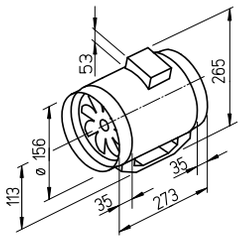
MV EC 160

Dimensions MV EC 150



Dim. in mm

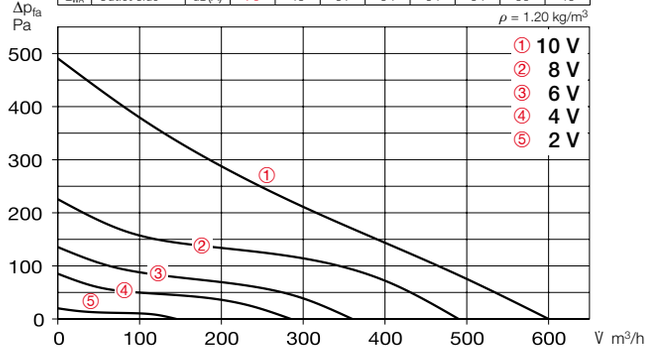
Dimensions MV EC 160



Dim. in mm

Performance curves MV EC 150

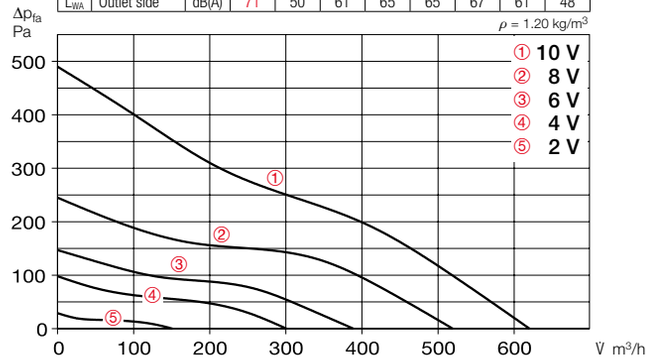
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA} Radiation	dB(A)	56	31	47	50	50	50	46	33
L_{WA} Inlet side	dB(A)	69	42	60	63	63	67	56	46
L_{WA} Outlet side	dB(A)	70	45	61	64	64	64	59	46



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2520	600	55	0.54	48	0.33
8	2120	490	34	0.34	44	0.24
6	1590	360	17	0.17	38	0.17
4	1270	280	10	0.12	33	0.12

Performance curves MV EC 160

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA} Radiation	dB(A)	57	37	49	51	51	53	47	34
L_{WA} Inlet side	dB(A)	69	48	61	66	61	61	58	43
L_{WA} Outlet side	dB(A)	71	50	61	65	65	67	61	48



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2600	620	60	0.57	49	0.35
8	2200	520	40	0.35	45	0.28
6	1680	390	20	0.20	40	0.19
4	1350	300	15	0.15	33	0.18

Energy-saving EC round duct fan with high pressure performance, high volume output and space-saving dimensions.

Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Description

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic. Dynamically balanced for low-noise operation.

Drive
Energy-saving, speed-controllable EC external rotor motor with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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

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

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.

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.

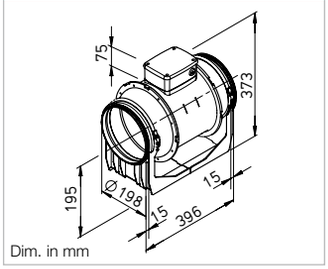
Accessory details	**Page**
Filters, heating elements and silencers	481 ff.
Temperature control systems for heating elements	487, 491 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	561 ff.
Disc valves	582 ff.
Universal control system, electronic controllers, speed potentiometer	613 ff.

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.
Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP45																
MV EC 150	09307	150	600	3580	48	0.068	0.62	1194	60	2.1	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
MV EC 160	06033	160	620	3530	49	0.068	0.62	1194	60	2.1	**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.

MV EC 200

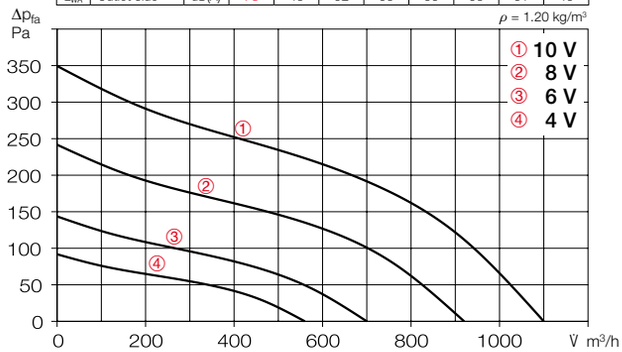
Dimensions MV EC 200



Dim. in mm

Performance curves MV EC 200

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	59	35	49	54	53	54	45	32
L_{WA}	Inlet side	dB(A)	70	45	59	66	62	63	55	40
L_{WA}	Outlet side	dB(A)	73	48	62	68	66	68	61	46



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2680	1100	89	0.8	51	0.29
8	2220	920	52	0.53	47	0.20
6	1700	700	26	0.28	41	0.13
4	1380	560	16	0.19	37	0.10

Energy-saving EC round duct fan with high pressure performance, high volume output and space-saving dimensions.

Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Special features

- ☐ Highly efficieny EC motor for lowest operating costs.
- ☐ Low space requirement and minimal 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.
- ☐ Long-life ball bearings, designed for 30 000 operating hours.
- ☐ Problem-free maintenance and cleaning without dismantling the duct system due to the removable fan unit.
- ☐ Fan unit with terminal box can be rotated into any position.
- ☐ Integrated mounting bracket for easy installation to walls and ceilings.

Description

Casing

The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Impeller

Optimised for high pressure performance and volume output, made of high-quality plastic. Dynamically balanced for low-noise operation.

Drive

Energy-saving, speed-controllable EC external rotor motor with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted.

Electrical connection

Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

Power control

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

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.

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	481 ff.
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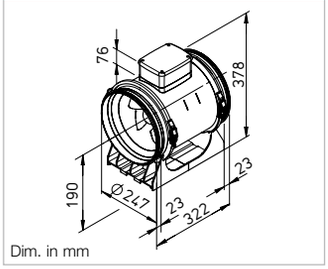
Type	Ref. no.	Connection Ø	Flow rate Free blowing	Rated speed	Sound press. case radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system		Speed potentiometer flush-mount.		surf-mount.	
		mm	V̇ m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.
Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP45																
MV EC 200	06034	200	1100	3000	51	0.090	0.80	1194	50	2.5	**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.

MV EC 250

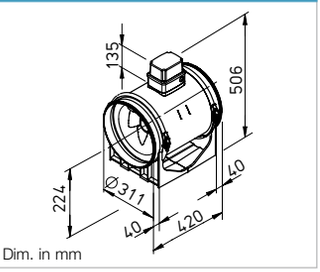
MV EC 315

Dimensions MV EC 250



Dim. in mm

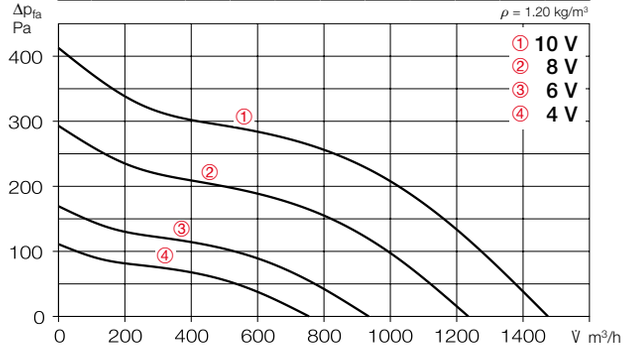
Dimensions MV EC 315



Dim. in mm

Performance curves MV EC 250

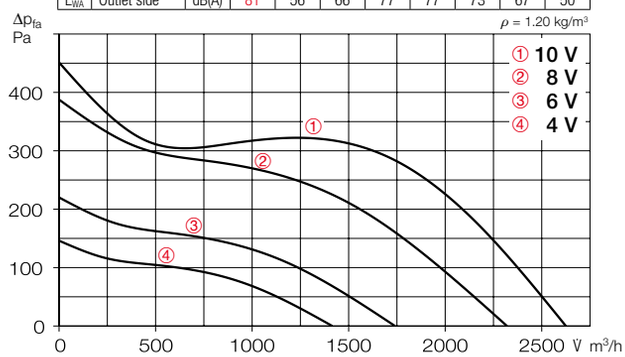
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	61	38	49	55	55	56	44	33
L_{WA}	Inlet side	dB(A)	74	50	63	68	69	70	58	47
L_{WA}	Outlet side	dB(A)	76	52	65	70	69	73	60	45



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2690	1470	124	1.00	53	0.30
8	2250	1230	73	0.61	49	0.21
6	1720	930	34	0.28	43	0.13
4	1390	750	20	0.17	39	0.10

Performance curves MV EC 315

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	65	39	50	60	61	55	55	36
L_{WA}	Inlet side	dB(A)	78	52	63	73	75	69	69	50
L_{WA}	Outlet side	dB(A)	81	56	66	77	77	73	67	50



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2370	2620	234	1.75	57	0.32
8	2130	2320	166	1.32	55	0.26
6	1600	1740	76	0.63	48	0.16
4	1300	1410	45	0.37	44	0.11

Energy-saving EC round duct fan with high pressure performance, high volume output and space-saving dimensions.

Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Description

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic. Dynamically balanced for low-noise operation.

Drive
Energy-saving, speed-controllable EC external rotor motor with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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

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

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.

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**
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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.
Single-phase alternating current, 230 V, 50/60 Hz, EC motor, IP45																
MV EC 250	06035	250	1470	2740	53	0.126	1.00	1194	50	5.3	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
MV EC 315	06036	315	2620	2350	57	0.268	1.86	1195	50	9.5	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735

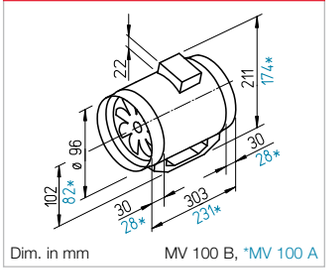
[1)] Multiple EC fans can normally be connected. [2)] alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see accessories.

MV 100 – Single level

MVZ 100 – Two level

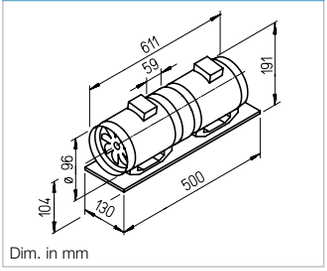
MVP 100 – Parallel

Dimensions MV 100



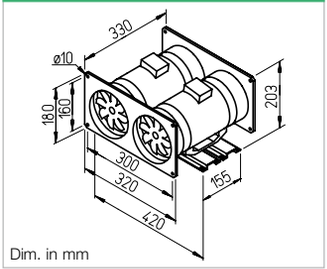
Dim. in mm MV 100 B, *MV 100 A

Dimensions MVZ 100



Dim. in mm

Dimensions MVP 100



Dim. in mm

High pressure performance and high volume output with space-saving dimensions.
Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Special features

- Low space requirement and minimal installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Comes with two performance levels; 100% speed-controllable as standard.
- Can be used in any position.
- Long-life ball bearings, designed for 30000 operating hours.
- Problem-free maintenance and cleaning without dismantling the duct system due to the removable fan unit.
- Fan unit with terminal box can be rotated into any position.
- Integrated mounting bracket for easy installation to walls and ceilings.

Common features

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Power control
With two performance levels as standard using an external operating switch MVB (accessories). Also with continuously variable control through electronic controller or five-step transformer.

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

Motor protection
Through thermal overload protection in the winding.

Noise
See information on page 371.

Description MV

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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 MVZ

Two MV fans arranged in series, connected by a sleeve and mounted on a shared base plate. Delivered as a ready-to-install kit.
The pressure performance is approximately doubled through series operation.

Impeller
As described on the left.

Electrical connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.

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 MVP

Two MV fans arranged in parallel are connected together by inlet and outlet side-mounted rectangular duct connection plates and screwed to mounting rails. Delivered as a ready-to-install kit.
The volume output doubles during parallel operation (joint control).

Impeller
As described on the left.

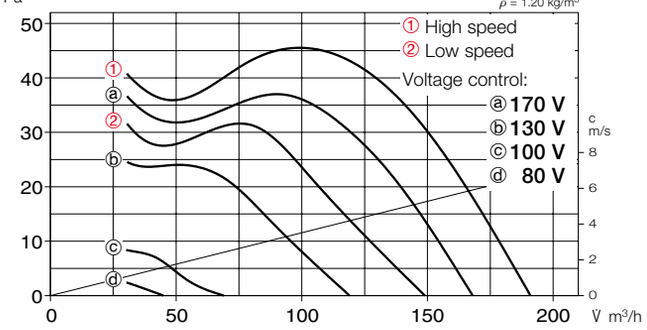
Power control/Connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.
Each fan can also be individually controlled and connected to the second fan if necessary. In order to prevent backflow in this case, two duct shutters (type RSK, accessories) must be provided on the outlet side.

Type	Ref. no.	Connection Ø	Flow rate min./max.	Speed min./max.	Sound pres. lev at 1m: Case radiation	Sound pres. lev at 1m: Air noise min./max.	Power consum. min/max.	Current consum. min/max.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Transformer speed controller 5-step: Type	Transformer speed controller 5-step: Ref. no.	Electronic* speed controller, cont. variable flush/ surf-mount.: Type	Electronic* speed controller, cont. variable flush/ surf-mount.: Ref. no.
		mm	V̇ m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg				
Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
MV 100 A	06050	100	150/190	2070/2620	34/38	45/50	12/15	0.05/0.07	844.1	60	1.2	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238
MV 100 B	06051	100	170/240	1590/2170	32/38	46/52	20/23	0.09/0.11	844.1	60	1.7	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238
Double pressure **Two level fan unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVZ 100 B	06058	100	170/240	1590/2170	37/43	49/55	40/46	0.18/0.22	845.1	60	4.5	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238
Double volume **Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVP 100	06065	–	340/480	1590/2170	35/41	49/55	40/46	0.18/0.22	845.1	60	5.7	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238

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

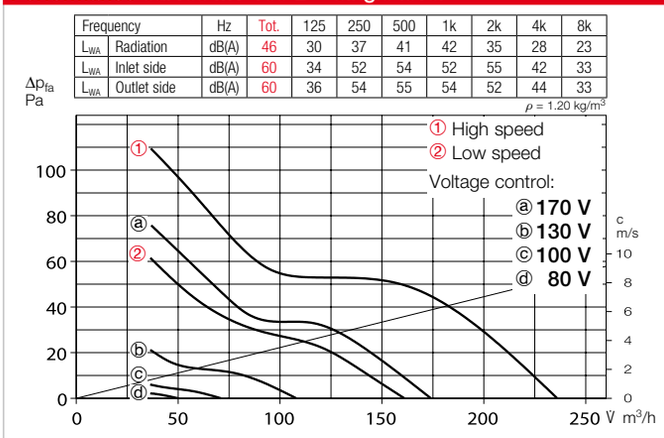
Performance curves MV 100 A – Single level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	46	24	31	38	44	32	30	23
L_{WA}	Inlet side	dB(A)	58	27	46	51	54	52	44	33
L_{WA}	Outlet side	dB(A)	58	30	48	52	56	49	45	33



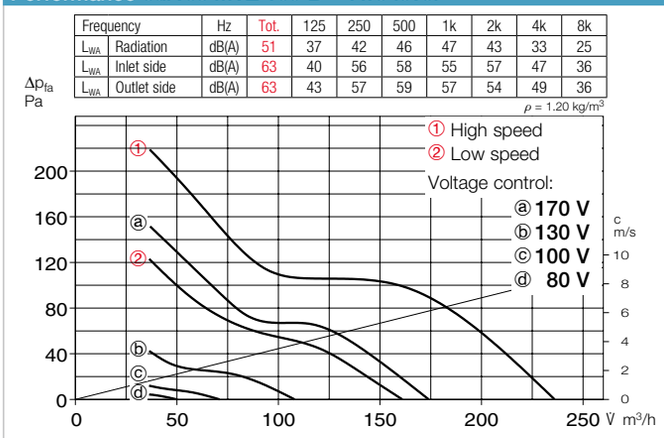
Performance curves MV 100 B – Single level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	46	30	37	41	42	35	28	23
L_{WA}	Inlet side	dB(A)	60	34	52	54	52	55	42	33
L_{WA}	Outlet side	dB(A)	60	36	54	55	54	52	44	33



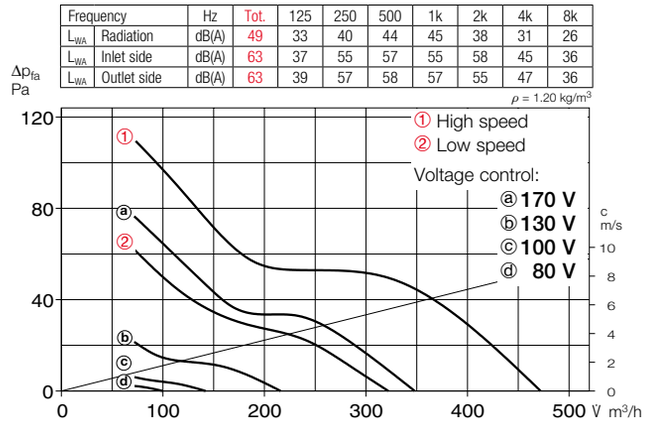
Performance curves MVZ 100 B – Two level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	51	37	42	46	47	43	33	25
L_{WA}	Inlet side	dB(A)	63	40	56	58	55	57	47	36
L_{WA}	Outlet side	dB(A)	63	43	57	59	57	54	49	36



Performance curves MVP 100 B – Parallel

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	49	33	40	44	45	38	31	26
L_{WA}	Inlet side	dB(A)	63	37	55	57	55	58	45	36
L_{WA}	Outlet side	dB(A)	63	39	57	58	57	55	47	36



Accessories for MV and MVZ

Flexible connecting sleeve
FM 100 Ref. no. 01681
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 100 Ref. no. 00757
Automatic overpressure shutter for external wall connection of air outlet opening. Made of white plastic.

External wall cover grille
G 100 Ref. no. 00796
For covering and insertion in round ventilation openings. Made of break-resistant, white plastic.

Protection grille
MVS 100 Ref. no. 06071
For inlet and outlet side installation on fan.

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
Large-surface, installation in round duct system.

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

Warm water heating element
WHR 100 Ref. no. 09479
For installation in duct system.

Accessories for all types

Duct shutter
RSKK 100 Ref. no. 05106
Automatic, made of plastic.
For installation in pipeline.

Operating switch 0-1-2
MVB Ref. no. 06091
With functions On/Off, Low and high speed.

Transformer speed controller
TSW See type table
Five-step, for surface installation.

Electronic speed controller
ESU/ESA See type table
For flush/surface installation.

Electronic turn-off delay switch
ZNE Ref. no. 00342
With continuously variable turn-off delay periods.

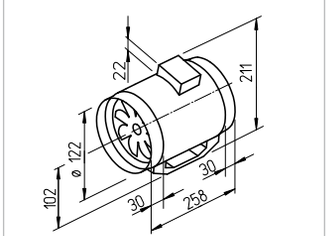
* See product page for detailed description

MV 125 – Single level

MVZ 125 – Two level

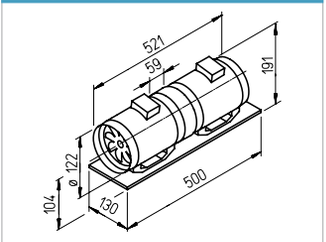
MVP 125 – Parallel

Dimensions MV 125



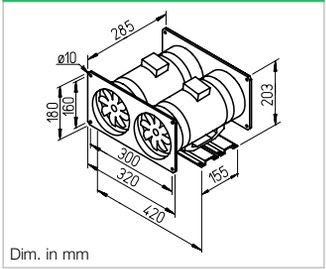
Dim. in mm

Dimensions MVZ 125



Dim. in mm

Dimensions MVP 125



Dim. in mm

High pressure performance and high volume output with space-saving dimensions.
Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Special features

- Low space requirement and minimal installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Comes with two performance levels; 100% speed-controllable as standard.
- Can be used in any position.
- Long-life ball bearings, designed for 30000 operating hours.
- Problem-free maintenance and cleaning without dismantling the duct system due to the removable fan unit.
- Fan unit with terminal box can be rotated into any position.
- Integrated mounting bracket for easy installation to walls and ceilings.

Common features

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Power control
With two performance levels as standard using an external operating switch MVB (accessories). Also with continuously variable control through electronic controller or five-step transformer.

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

Motor protection
Through thermal overload protection in the winding.

Noise
See right page.

Description MV

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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 MVZ

Two MV fans arranged in series, connected by a sleeve and mounted on a shared base plate. Delivered as a ready-to-install kit.
The pressure performance is approximately doubled through series operation.

Impeller
As described on the left.

Electrical connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.

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 MVP

Two MV fans arranged in parallel are connected together by inlet and outlet side-mounted rectangular duct connection plates and screwed to mounting rails. Delivered as a ready-to-install kit.
The volume output doubles during parallel operation (joint control).

Impeller
As described on the left.

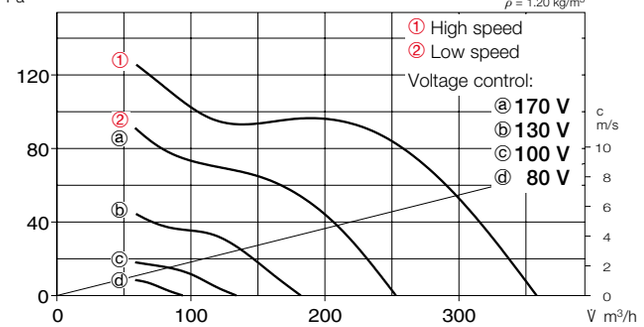
Power control/Connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.
Each fan can also be individually controlled and connected to the second fan if necessary. In order to prevent backflow in this case, two duct shutters (type RSK, accessories) must be provided on the outlet side.

Type	Ref. no.	Connection Ø	Flow rate min./max.	Speed min./max.	Sound pres. lev at 1m: Case radiation	Sound pres. lev at 1m: Air noise min./max.	Power consum. min/max.	Current consum. min/max.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Transformer speed controller 5-step: Type	Transformer speed controller 5-step: Ref. no.	Electronic* speed controller, cont. variable flush/ surf-mount.: Type	Electronic* speed controller, cont. variable flush/ surf-mount.: Ref. no.
		mm	V̇ m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg				
Single level round duct fan, 230 V, 50 Hz, Capacitor motor, IP44															
MV 125	06052	125	250/360	1670/2300	35/42	49/56	25/33	0.11/0.15	844.1	60	1.7	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238
Double pressure **Two level fan unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVZ 125	06059	125	250/360	1670/2300	40/47	52/59	50/66	0.22/0.30	845.1	60	4.6	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238
Double volume **Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVP 125	06066	–	500/720	1670/2300	38/45	52/59	50/66	0.22/0.30	845.1	60	5.8	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238

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

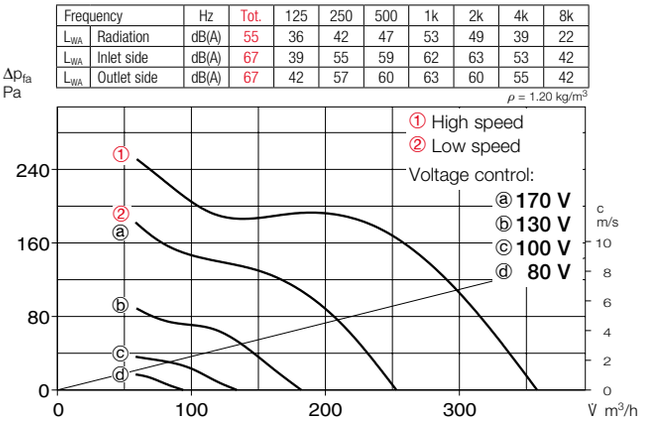
Performance curves MV 125 – Single level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	50	30	36	42	48	41	34	27
L_{WA}	Inlet side	dB(A)	64	33	51	55	58	61	48	40
L_{WA}	Outlet side	dB(A)	64	35	53	56	60	58	50	39



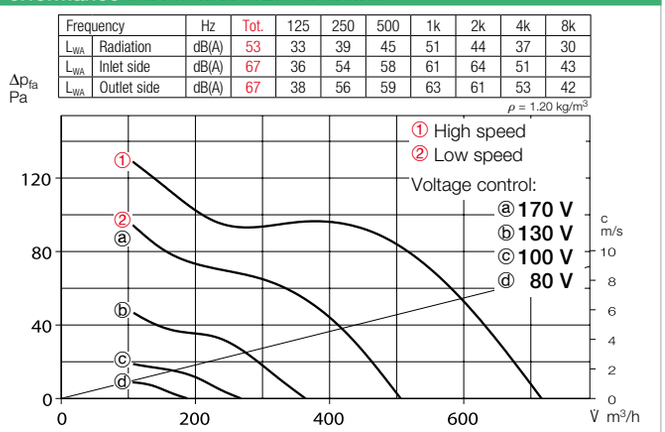
Performance curves MVZ 125 – Two level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	55	36	42	47	53	49	39	22
L_{WA}	Inlet side	dB(A)	67	39	55	59	62	63	53	42
L_{WA}	Outlet side	dB(A)	67	42	57	60	63	60	55	42



Performance curves MVP 125 – Parallel

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	53	33	39	45	51	44	37	30
L_{WA}	Inlet side	dB(A)	67	36	54	58	61	64	51	43
L_{WA}	Outlet side	dB(A)	67	38	56	59	63	61	53	42



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 and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

Accessory details — Page

Accessories for MV and MVZ

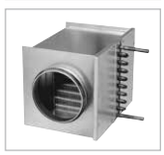
Flexible connecting sleeve
FM 125 Ref. no. 01682
Includes 2 hose clamps; for installation between fan and duct system. Prevents structure-borne noise transmission and bridges installation tolerances.
2 pcs required for inlet and outlet side application.

External wall shutter
VK 125 Ref. no. 00857
Automatic overpressure shutter for external wall connection of air outlet opening. Made of white plastic.

External wall cover grille
G 160 Ref. no. 00893
For covering and insertion in round ventilation openings. Made of break-resistant, white plastic.

Protection grille
MVS 125 Ref. no. 06072
For inlet and outlet side installation on fan.

Flexible cross talk silencer
FSD 125 Ref. no. 00677
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box
LFBR 125 Coarse 70%* 08577
Large-surface, installation in round duct system.

Electric heating element
EHR-R 0.8/125 0.8 kW No. 08709
In duct casing made of galvanised steel sheet.

Warm water heating element
WHR 125 Ref. no. 09480
For installation in duct system.

Accessories for all types

Duct shutter
RSKK 125 Ref. no. 05107
Automatic, made of plastic.
For installation in pipeline.

Operating switch 0-1-2
MVB Ref. no. 06091
With functions On/Off, Low and high speed.

Transformer speed controller
TSW See type table
Five-step, for surface installation.

Electronic speed controller
ESU/ESA See type table
For flush/surface installation.

Electronic turn-off delay switch
ZNE Ref. no. 00342
With continuously variable turn-off delay periods.

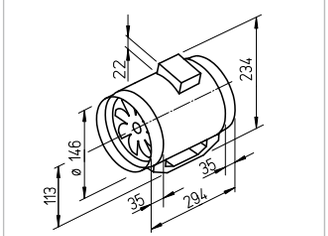
* See product page for detailed description

MV 150 – Single level

MVZ 150 – Two level

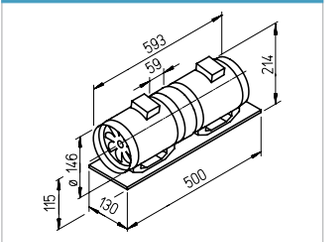
MVP 150 – Parallel

Dimensions MV 150



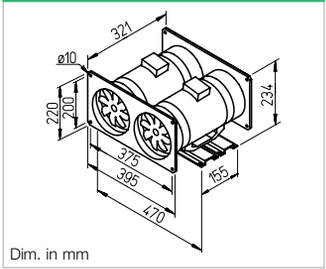
Dim. in mm

Dimensions MVZ 150



Dim. in mm

Dimensions MVP 150



Dim. in mm

High pressure performance and high volume output with space-saving dimensions.
Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Special features

- Low space requirement and minimal installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Comes with two performance levels; 100% speed-controllable as standard.
- Can be used in any position.
- Long-life ball bearings, designed for 30000 operating hours.
- Problem-free maintenance and cleaning without dismantling the duct system due to the removable fan unit.
- Fan unit with terminal box can be rotated into any position.
- Integrated mounting bracket for easy installation to walls and ceilings.

Common features

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Power control
With two performance levels as standard using an external operating switch MVB (accessories). Also with continuously variable control through electronic controller or five-step transformer.

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

Motor protection
Through thermal overload protection in the winding.

Noise
See right page.

Description MV

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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 MVZ

Two MV fans arranged in series, connected by a sleeve and mounted on a shared base plate. Delivered as a ready-to-install kit.
The pressure performance is approximately doubled through series operation.

Impeller
As described on the left.

Electrical connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.

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 MVP

Two MV fans arranged in parallel are connected together by inlet and outlet side-mounted rectangular duct connection plates and screwed to mounting rails. Delivered as a ready-to-install kit.
The volume output doubles during parallel operation (joint control).

Impeller
As described on the left.

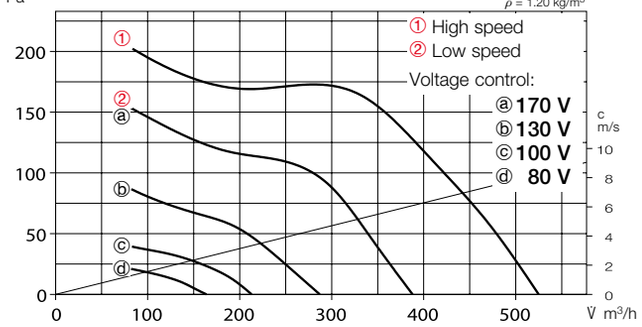
Power control/Connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.
Each fan can also be individually controlled and connected to the second fan if necessary. In order to prevent backflow in this case, two duct shutters (type RSK, accessories) must be provided on the outlet side.

Type	Ref. no.	Connection Ø	Flow rate min./max.	Speed min./max.	Sound pres. lev at 1m: Case radiation	Sound pres. lev at 1m: Air noise min./max.	Power consum. min./max.	Current consum. min./max.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Transformer speed controller 5-step: Type	Transformer speed controller 5-step: Ref. no.	Electronic* speed controller, cont. variable flush/ surf-mount.: Type	Electronic* speed controller, cont. variable flush/ surf-mount.: Ref. no.
		mm	V̇ m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg				
Single level round duct fan, 230 V, 50 Hz, Capacitor motor, IP44															
MV 150	06053	150	380/520	1520/2290	40/48	56/64	40/58	0.18/0.26	844.1	60	2.3	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238
Double pressure **Two level fan unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVZ 150	06060	150	380/520	1520/2290	46/54	59/67	80/116	0.36/0.52	845.1	60	5.8	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238
Double volume **Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVP 150	06067	–	760/1040	1520/2290	43/51	59/67	80/116	0.36/0.52	845.1	60	8.0	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238

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

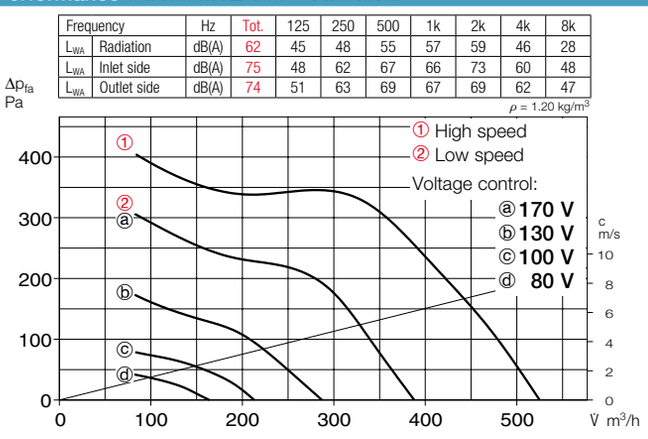
Performance curves MV 150 – Single level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	56	39	43	50	52	51	41	25
L_{WA}	Inlet side	dB(A)	72	42	58	63	62	71	55	45
L_{WA}	Outlet side	dB(A)	71	44	60	65	64	68	57	45



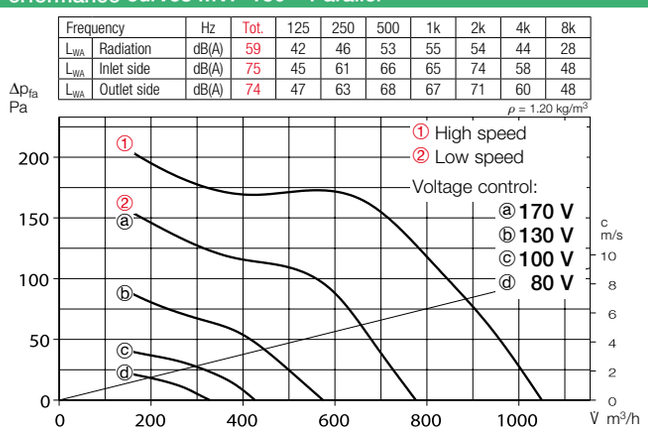
Performance curves MVZ 150 – Two level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	62	45	48	55	57	59	46	28
L_{WA}	Inlet side	dB(A)	75	48	62	67	66	73	60	48
L_{WA}	Outlet side	dB(A)	74	51	63	69	67	69	62	47



Performance curves MVP 150 – Parallel

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	59	42	46	53	55	54	44	28
L_{WA}	Inlet side	dB(A)	75	45	61	66	65	74	58	48
L_{WA}	Outlet side	dB(A)	74	47	63	68	67	71	60	48



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 and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

Accessory details — Page

Accessories for MV and MVZ

Flexible connecting sleeve
FM 150 Ref. no. 01683
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 160 Ref. no. 00892
Automatic overpressure shutter for external wall connection of air outlet opening. Made of white plastic.

External wall cover grille
G 160 Ref. no. 00893
For covering and insertion in round ventilation openings. Made of break-resistant, white plastic.

Protection grille
MVS 150 Ref. no. 06073
For inlet and outlet side installation on fan.

Flexible cross talk silencer
FSD 160 [1] 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% [1] [2] 08578
Large-surface, installation in round duct system.

Electric heating element
EHR-R 1.2/160 [1] 1.2 kW No. 09434
In duct casing made of galvanised steel sheet.

Warm water heating element
WHR 160 [1] Ref. no. 09481
For installation in duct system.

Accessories for all types

Duct shutter
RSK 150 Ref. no. 05073
Automatic, made of metal.
For installation in pipeline.

Operating switch 0-1-2
MVB Ref. no. 06091
With functions On/Off, Low and high speed.

Transformer speed controller
TSW See type table
Five-step, for surface installation.

Electronic speed controller
ESU/ESA See type table
For flush/surface installation.

Electronic turn-off delay switch
ZNE Ref. no. 00342
With continuously variable turn-off delay periods.

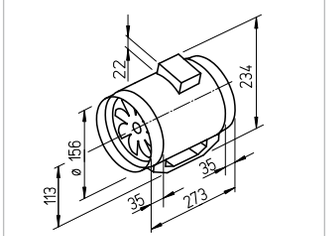
[1] This accessory with ND 160 mm can be used for ducts with Ø 150 mm through on-site fillng with foam rubber.
[2] See product page for detailed description

MV 160 – Single level

MVZ 160 – Two level

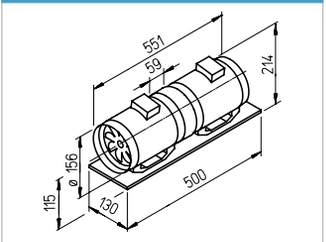
MVP 160 – Parallel

Dimensions MV 160



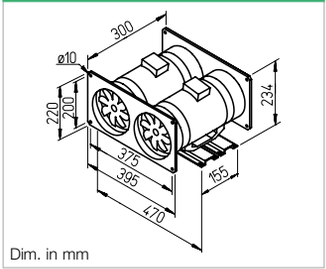
Dim. in mm

Dimensions MVZ 160



Dim. in mm

Dimensions MVP 160



Dim. in mm

High pressure performance and high volume output with space-saving dimensions.
Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Special features

- Low space requirement and minimal installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Comes with two performance levels; 100% speed-controllable as standard.
- Can be used in any position.
- Long-life ball bearings, designed for 30000 operating hours.
- Problem-free maintenance and cleaning without dismantling the duct system due to the removable fan unit.
- Fan unit with terminal box can be rotated into any position.
- Integrated mounting bracket for easy installation to walls and ceilings.

Common features

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Power control
With two performance levels as standard using an external operating switch MVB (accessories). Also with continuously variable control through electronic controller or five-step transformer.

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

Motor protection
Through thermal overload protection in the winding.

Noise
See right page.

Description MV

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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 MVZ

Two MV fans arranged in series, connected by a sleeve and mounted on a shared base plate. Delivered as a ready-to-install kit.
The pressure performance is approximately doubled through series operation.

Impeller
As described on the left.

Electrical connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.

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 MVP

Two MV fans arranged in parallel are connected together by inlet and outlet side-mounted rectangular duct connection plates and screwed to mounting rails. Delivered as a ready-to-install kit.
The volume output doubles during parallel operation (joint control).

Impeller
As described on the left.

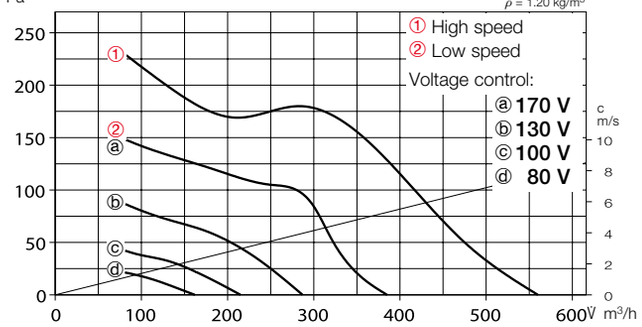
Power control/Connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.
Each fan can also be individually controlled and connected to the second fan if necessary. In order to prevent backflow in this case, two duct shutters (type RSK, accessories) must be provided on the outlet side.

Type	Ref. no.	Connection Ø	Flow rate min./max.	Speed min./max.	Sound pres. lev at 1m: Case radiation	Sound pres. lev at 1m: Air noise min./max.	Power consum. min./max.	Current consum. min./max.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Transformer speed controller 5-step: Type	Transformer speed controller 5-step: Ref. no.	Electronic* speed controller, cont. variable flush/ surf-mount.: Type	Electronic* speed controller, cont. variable flush/ surf-mount.: Ref. no.
		mm	V̇ m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg				
Single level round duct fan, 230 V, 50 Hz, Capacitor motor, IP44															
MV 160	06054	160	390/550	1520/2290	41/49	57/65	40/58	0.18/0.26	844.1	60	2.3	**TSW 0.3**	03608	**ESU1/ESA1**	00236/00238
Double pressure **Two level fan unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVZ 160	06061	160	390/550	1520/2290	47/55	59/67	80/116	0.36/0.52	845.1	60	5.8	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238
Double volume **Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVP 160	06068	–	780/110	1520/2290	44/52	60/68	80/116	0.36/0.52	845.1	60	7.7	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238

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

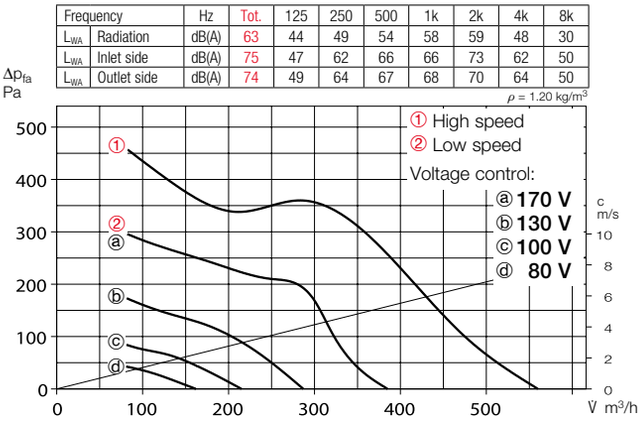
Performance curves MV 160 – Single level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	57	37	43	49	53	51	44	28
L_{WA}	Inlet side	dB(A)	73	41	58	62	63	71	58	48
L_{WA}	Outlet side	dB(A)	71	43	60	64	64	68	59	47



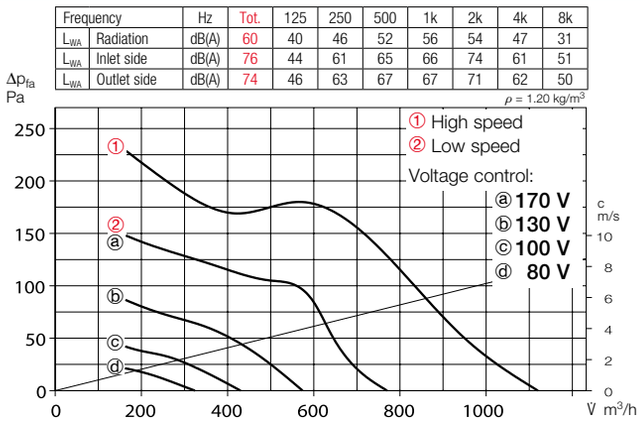
Performance curves MVZ 160 – Two level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	63	44	49	54	58	59	48	30
L_{WA}	Inlet side	dB(A)	75	47	62	66	66	73	62	50
L_{WA}	Outlet side	dB(A)	74	49	64	67	68	70	64	50



Performance curves MVP 160 – Parallel

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	40	46	52	56	54	47	31
L_{WA}	Inlet side	dB(A)	76	44	61	65	66	74	61	51
L_{WA}	Outlet side	dB(A)	74	46	63	67	67	71	62	50



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 and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

Accessory details — Page

Accessories for MV and MVZ

Flexible connecting sleeve
FM 160 Ref. no. 01684
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 160 Ref. no. 00892
Automatic overpressure shutter for external wall connection of air outlet opening. Made of white plastic.

External wall cover grille
G 160 Ref. no. 00893
For covering and insertion in round ventilation openings. Made of break-resistant, white plastic.

Protection grille
MVS 160 Ref. no. 06074
For inlet and outlet side installation on fan.

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
Large-surface, installation in round duct system.

Electric heating element
EHR-R 1.2/160 1.2 kW No. 09434
In duct casing made of galvanised steel sheet.

Warm water heating element
WHR 160 Ref. no. 09481
For installation in duct system.

Accessories for all types

Duct shutter
RSK 160 Ref. no. 05669
Automatic, made of metal.
For installation in pipeline.

Operating switch 0-1-2
MVB Ref. no. 06091
With functions On/Off, Low and high speed.

Transformer speed controller
TSW See type table
Five-step, for surface installation.

Electronic speed controller
ESU/ESA See type table
For flush/surface installation.

Electronic turn-off delay switch
ZNE Ref. no. 00342
With continuously variable turn-off delay periods.

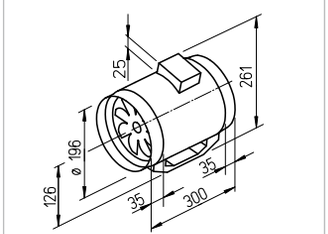
* See product page for detailed description

MV 200 – Single level

MVZ 200 – Two level

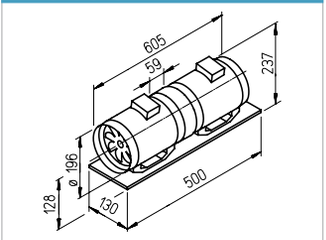
MVP 200 – Parallel

Dimensions MV 200



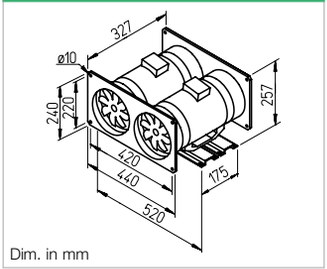
Dim. in mm

Dimensions MVZ 200



Dim. in mm

Dimensions MVP 200



Dim. in mm

High pressure performance and high volume output with space-saving dimensions.
Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Special features

- Low space requirement and minimal installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Comes with two performance levels; 100% speed-controllable as standard.
- Can be used in any position.
- Long-life ball bearings, designed for 30000 operating hours.
- Problem-free maintenance and cleaning without dismantling the duct system due to the removable fan unit.
- Fan unit with terminal box can be rotated into any position.
- Integrated mounting bracket for easy installation to walls and ceilings.

Common features

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Power control
With two performance levels as standard using an external operating switch MVB (accessories). Also with continuously variable control through electronic controller or five-step transformer.

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

Motor protection
Through thermal overload protection in the winding.

Noise
See right page.

Description MV

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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 MVZ

Two MV fans arranged in series, connected by a sleeve and mounted on a shared base plate. Delivered as a ready-to-install kit.
The pressure performance is approximately doubled through series operation.

Impeller
As described on the left.

Electrical connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.

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 MVP

Two MV fans arranged in parallel are connected together by inlet and outlet side-mounted rectangular duct connection plates and screwed to mounting rails. Delivered as a ready-to-install kit.
The volume output doubles during parallel operation (joint control).

Impeller
As described on the left.

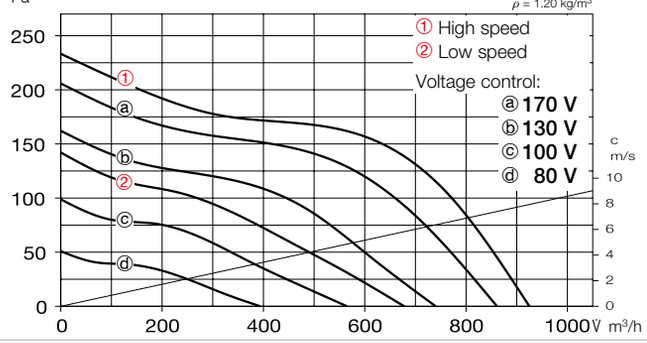
Power control/Connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.
Each fan can also be individually controlled and connected to the second fan if necessary. In order to prevent backflow in this case, two duct shutters (type RSK, accessories) must be provided on the outlet side.

Type	Ref. no.	Connection Ø	Flow rate min./max.	Speed min./max.	Sound pres. lev at 1m: Case radiation	Sound pres. lev at 1m: Air noise min./max.	Power consum. min./max.	Current consum. min./max.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Transformer speed controller 5-step: Type	Transformer speed controller 5-step: Ref. no.	Electronic* speed controller, cont. variable flush/ surf-mount.: Type	Electronic* speed controller, cont. variable flush/ surf-mount.: Ref. no.
		mm	V̇ m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single level round duct fan, 230 V, 50 Hz, Capacitor motor, IP44															
MV 200	06055	200	680/930	1780/2740	36/44	50/58	45/75	0.22/0.37	844.1	60	3.7	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238
Double pressure **Two level fan unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVZ 200	06062	200	755/900	1780/2740	44/51	55/62	90/150	0.44/0.74	845.1	60	8.5	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238
Double volume **Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVP 200	06069	–	1360/1860	1780/2740	39/47	53/61	90/150	0.44/0.74	845.1	60	11.2	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238

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

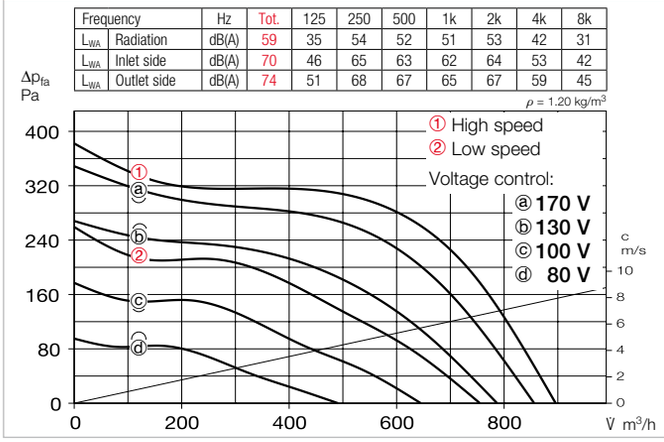
Performance curves MV 200 – Single level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	25	42	45	45	49	38	26
L_{WA}	Inlet side	dB(A)	66	39	56	59	59	63	52	40
L_{WA}	Outlet side	dB(A)	69	42	62	61	61	64	53	41



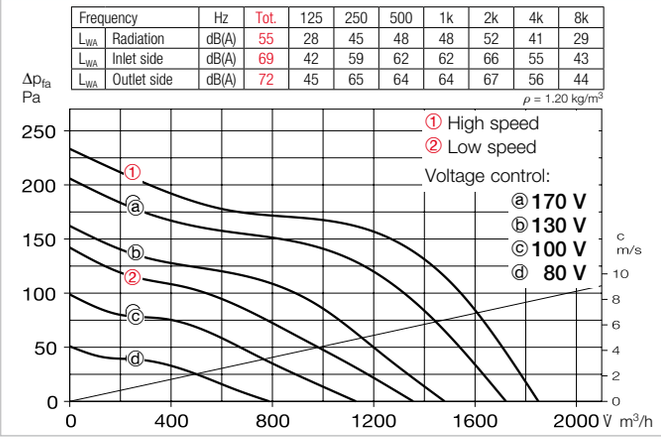
Performance curves MVZ 200 – Two level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	59	35	54	52	51	53	42	31
L_{WA}	Inlet side	dB(A)	70	46	65	63	62	64	53	42
L_{WA}	Outlet side	dB(A)	74	51	68	67	65	67	59	45



Performance curves MVP 200 – Parallel

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	55	28	45	48	48	52	41	29
L_{WA}	Inlet side	dB(A)	69	42	59	62	62	66	55	43
L_{WA}	Outlet side	dB(A)	72	45	65	64	64	67	56	44



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 and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

Accessory details — Page

Accessories for MV and MVZ

Flexible connecting sleeve
FM 200 Ref. no. 01670
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 200 Ref. no. 00758
Automatic overpressure shutter for external wall connection of air outlet opening. Made of plastic; colour: light grey.

External wall cover grille
RAG 200 Ref. no. 00750
For placement in front of air inlet and outlet openings in facades. Made of plastic; colour: light grey.

Protection grille
MVS 200 Ref. no. 06075
For inlet and outlet side installation on fan.

Flexible cross talk silencer
FSD 200 Ref. no. 00679
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 200 Coarse 70%* 08579
Large-surface, installation in round duct system.

Electric heating element
EHR-R 1.2/200 1.2 kW No. 09436
In duct casing made of galvanised steel sheet.

Warm water heating element
WHR 200 Ref. no. 09482
For installation in duct system.

Accessories for all types

Duct shutter
RSK 200 Ref. no. 05074
Automatic, made of metal.
For installation in pipeline.

Operating switch 0-1-2
MVB Ref. no. 06091
With functions On/Off, Low and high speed.

Transformer speed controller
TSW See type table
Five-step, for surface installation.

Electronic speed controller
ESU/ESA See type table

Electronic turn-off delay switch – für MV
ZNE Ref. no. 00342

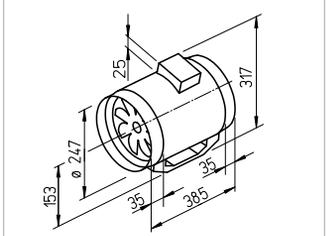
* See product page for detailed description

MV 250 – Single level

MVZ 250 – Two level

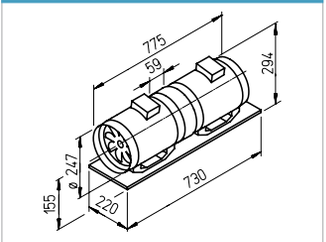
MVP 250 – Parallel

Dimensions MV 250



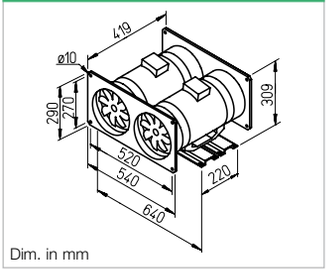
Dim. in mm

Dimensions MVZ 250



Dim. in mm

Dimensions MVP 250



Dim. in mm

High pressure performance and high volume output with space-saving dimensions.
Specifically designed for direct insertion in duct systems. Various applications in commercial, industrial and residential areas.

Special features

- ☐ Low space requirement and minimal installation costs due to linear throughflow.
- ☐ No need for elaborate deflectors.
- ☐ Connectors on inlet and outlet side correspond to standard duct Ø.
- ☐ Comes with two performance levels; 100% speed-controllable as standard.
- ☐ Can be used in any position.
- ☐ Long-life ball bearings, designed for 30000 operating hours.
- ☐ Problem-free maintenance and cleaning without dismantling the duct system due to the removable fan unit.
- ☐ Fan unit with terminal box can be rotated into any position.
- ☐ Integrated mounting bracket for easy installation to walls and ceilings.

Common features

Casing
The fan unit can be removed from the duct casing with integrated mounting bracket by loosening the clamp. All components are made of impact-resistant and corrosion-resistant plastic. Colour: Light grey.

Power control
With two performance levels as standard using an external operating switch MVB (accessories). Also with continuously variable control through electronic controller or five-step transformer.

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

Motor protection
Through thermal contact connected to the winding in series, which responds if the temperature is too high. Recommissioning only after disconnection from the mains and motor cooling.

Noise
See right page.

Description MV

Impeller
Optimised for high pressure performance and volume output, made of high-quality plastic.

Electrical connection
Spacious terminal box (IP44) on outside of casing; can be rotated into any position.

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 MVZ

Two MV fans arranged in series, connected by a sleeve and mounted on a shared base plate. Delivered as a ready-to-install kit.
The pressure performance is approximately doubled through series operation.

Impeller
As described on the left.

Electrical connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.

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 MVP

Two MV fans arranged in parallel are connected together by inlet and outlet side-mounted rectangular duct connection plates and screwed to mounting rails. Delivered as a ready-to-install kit.
The volume output doubles during parallel operation (joint control).

Impeller
As described on the left.

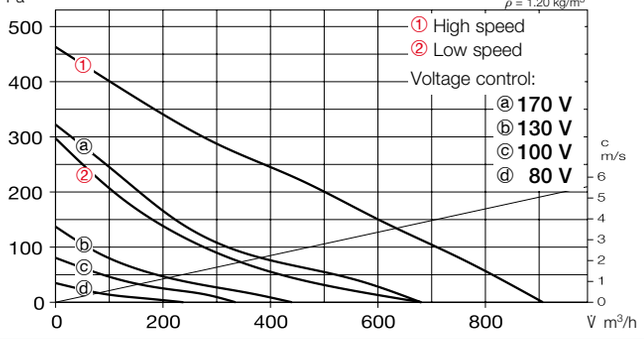
Power control/Connection
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.
Each fan can also be individually controlled and connected to the second fan if necessary. In order to prevent backflow in this case, two duct shutters (type RSK, accessories) must be provided on the outlet side.

Type	Ref. no.	Connection Ø	Flow rate min./max.	Speed min./max.	Sound pres. lev at 1m: Case radiation	Sound pres. lev at 1m: Air noise min./max.	Power consum. min/max.	Current consum. min/max.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Transformer speed controller 5-step: Type	Transformer speed controller 5-step: Ref. no.	Electronic* speed controller, cont. variable flush/ surf-mount.: Type	Electronic* speed controller, cont. variable flush/ surf-mount.: Ref. no.
		mm	V̇ m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg				
Single level round duct fan, 230 V, 50 Hz, Capacitor motor, IP44															
MV 250	06056	250	680/910	1850/2550	40/52	53/66	85/110	0.40/0.50	844.1	60	7.0	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238
Double pressure **Two level fan unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVZ 250	06063	250	710/900	1850/2550	46/56	57/67	170/220	0.80/1.00	845.1	60	17.6	**TSW 1.5**	01495	**ESU3/ESA3**	00237/00239
Double volume **Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MVP 250	06070	–	1280/1820	1850/2550	43/55	56/69	170/220	0.80/1.00	845.1	60	18.7	**TSW 1.5**	01495	**ESU3/ESA3**	00237/00239

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

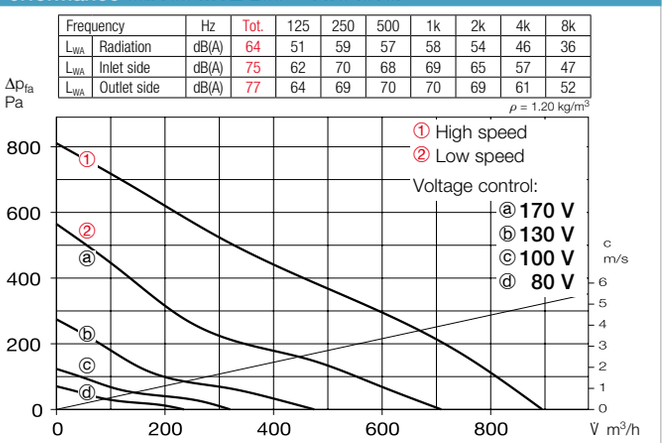
Performance curves MV 250 – Single level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	52	54	53	54	50	40	29
L_{WA}	Inlet side	dB(A)	74	66	68	67	68	64	54	43
L_{WA}	Outlet side	dB(A)	76	63	71	70	70	69	60	48



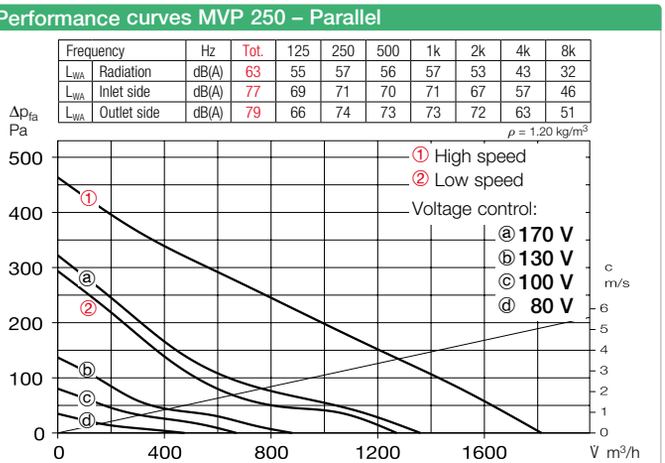
Performance curves MVZ 250 – Two level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	64	51	59	57	58	54	46	36
L_{WA}	Inlet side	dB(A)	75	62	70	68	69	65	57	47
L_{WA}	Outlet side	dB(A)	77	64	69	70	70	69	61	52



Performance curves MVP 250 – Parallel

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	63	55	57	56	57	53	43	32
L_{WA}	Inlet side	dB(A)	77	69	71	70	71	67	57	46
L_{WA}	Outlet side	dB(A)	79	66	74	73	73	72	63	51



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 and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

Accessory details — Page

Accessories for MV and MVZ

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 overpressure shutter for external wall connection of air outlet opening. Made of plastic; colour: 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; colour: light grey.

Protection grille
MVS 250 Ref. no. 06076
For inlet and outlet side installation on fan.

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
Large-surface, installation in round duct system.

Electric heating element
EHR-R 6/250 6.0 kW No. 08712
In duct casing made of galvanised steel sheet.

Warm water heating element
WHR 250 Ref. no. 09483
For installation in duct system.

Accessories for all types

Duct shutter
RSK 250 Ref. no. 05673
Automatic, made of metal.
For installation in pipeline.

Operating switch 0-1-2
MVB Ref. no. 06091
With functions On/Off, Low and high speed.

Transformer speed controller
TSW See type table
Five-step, for surface installation.

Electronic speed controller
ESU/ESA See type table
For flush/surface installation.

* See product page for detailed description

Explosion-proof circular duct fans **according to Directive 2014/34/EU (ATEX).**

■ Explosion protection

The requirements for facilities and equipment, which may present an ignition hazard, have been standardised across Europe and listed in the Directive 2014/34/EU (ATEX).

This contains the basic health and safety requirements for explosion-proof products and describes the conformity assessment procedure for units which are used in potentially explosive atmospheres.

■ RRK Ex from Helios

The compact fans RRK Ex are suitable for the transportation of potentially explosive gas, vapour and air mixtures and they meet the requirements of Directive 2014/34/EU (ATEX). They have ignition protection type “e” (= increased safety) and thus they correspond to unit group II, category 2G for operation in zones 1 and 2. Hazardous, potentially explosive atmospheres occur occasionally or rarely and briefly in these zones.

■ Ideal for commercial and industrial applications

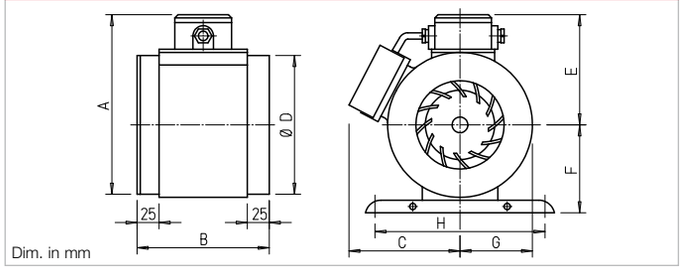
When RRK Ex units are professionally installed, they meet all basic health and safety requirements.

RRK Ex units are suitable for the transportation of small volume flows for the ventilation of commercial and industrial rooms.

Ø 180 – 250 mm
$\dot{V}$ = 290 – 870 m³/h

RRK 180 Ex / RRK 200 Ex / RRK 250 Ex

Dimensions RRK 180 Ex / RRK 200 Ex / RRK 250 Ex



Dim. in mm

Type	RRK 180 Ex	RRK 200 Ex	RRK 250 Ex
A	231	278	304
B	164	267	205
C	160	195	210
D	Ø 178	Ø 198 [1]	Ø 248
E	142	179	180
F	120	140	160
G	92	115	128
H	275	299	311

[1] via reducers connected on the inlet and outlet side.

For the delivery of small volume flows for the ventilation of rooms and workspaces in commercial and industrial buildings where the occasional occurrence of potentially explosive atmospheres can be expected. Suitable for installation in the pipeline.
Approved for operation in zones 1 and 2 according to DIN EN 60079-10. Especially suitable for the ventilation of chemical and pharmaceutical laboratories, storerooms, workshops, dyeing facilities, battery rooms, etc.

Special features

- ☐ EC type-examination certificate provided according to Directive 2014/34/EU (ATEX).
- ☐ Explosion protection, increased safety according to DIN EN 60079-0, 60079-7, 1127-1, 14986.
- ☐ Operating voltage Alternating current ~230 V, 50 Hz.
- ☐ Preferably for direct installation in the pipeline. Cross-section reduction possible. See diagram RRK 180 Ex for perform. loss.
- ☐ Low space requirement and minimal installation costs due to linear throughflow.
- ☐ Installation poss. in any position.

Description

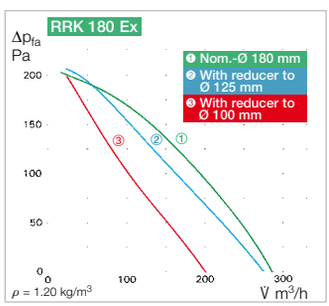
Casing and impeller
Made of high-quality, break-resistant and antistatic plastic. Surface resistance lower than $10^9\Omega$.

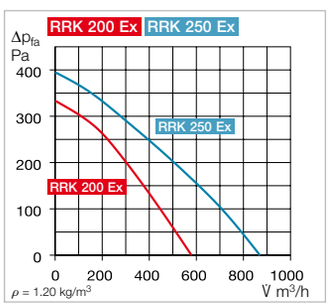
Motor
Closed design (IP54) for continuous operation. Ball bearing mounted, with moisture protection, maintenance-free and radio interference-free.

Electrical connection
Terminal box made of plastic, IP54, explosion-tested, on outside of duct casing.

Installation
In any position. For supply and extract ventilation through corresponding installation.

Installation information
The regulations DIN EN 60079-10 shall apply. According to this, overload protection must be provided for each fan by a motor protection circuit breaker, which must be triggered within the heating time specified in the test certificate in case of a short circuit.
Fans must be protected by a protection grille or shutter against foreign bodies larger than 12 mm getting sucked in or falling in.
Approved operating mode according to DIN EN 60034-1/ VDE 0530 = S1 (continuous operation). Speed control is not permitted.





Accessories for RRK 180 Ex

Reducer

RZ 180/125	Ref. no. 05876
RZ 180/100	Ref. no. 05877

Accessories for all types

Mounting bracket

MK 4	Ref. no. 05824

Flexible connecting sleeve
For installation between fan and duct system.

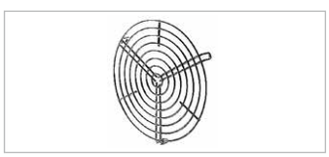
FM 180 Ex	Ref. no. 01685
FM 200 Ex	Ref. no. 01686
FM 250 Ex	Ref. no. 01688

Protection grille

SGR 180 Ex	Ref. no. 05051
SGR 200 Ex	Ref. no. 05049
SGR 250 Ex	Ref. no. 05052

Duct shutter

RSK 180	Ref. no. 05662
RSK 200	Ref. no. 05074
RSK 250	Ref. no. 05673



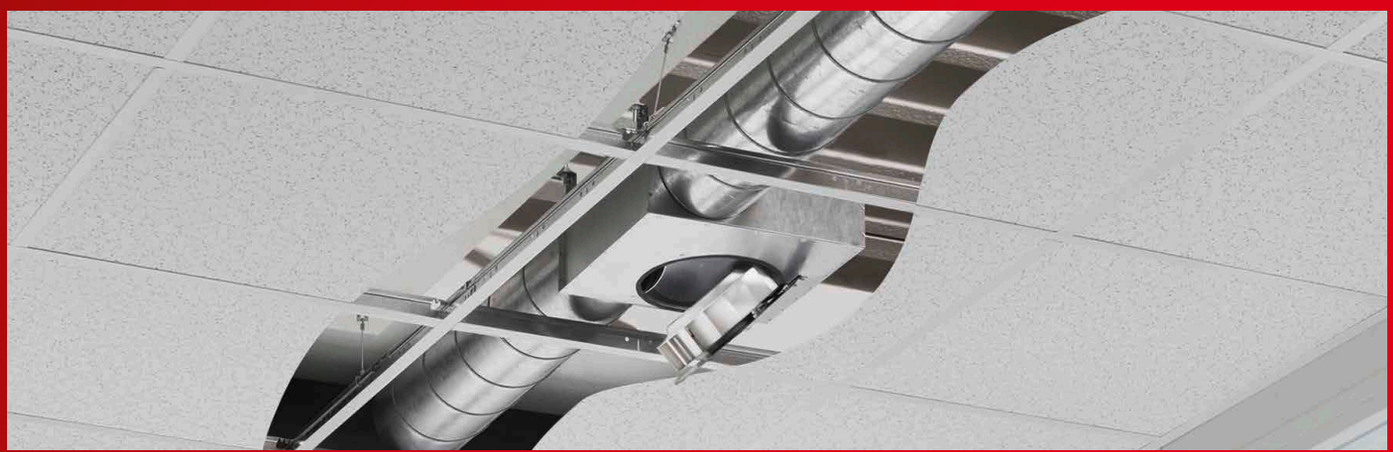
Type	Ref. no.	Impeller Ø	Flow rate free blowing	Rated speed	Sound power L_{WA}	Sound press. at 1 m	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Weight net approx.
		mm	V̇ m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+°C	kg
Explosion-proof, II 2G Ex eb h IIB + H_2 T3 Gb, Alternating current 230 V, 50 Hz, Protection category IP54											
RRK 180 Ex[1]	05889	170	290	2780	66	58	50	0.25	453	50	3.0
RRK 200 Ex	05890	215	560	2860	64	56	200	0.92	453	50	5.5
RRK 250 Ex	05891	240	870	2860	77	69	300	1.40	453	50	7.0

[1] Temperature class T4.

Other accessories

Reference

Helios InlineVent®.
Robust and slimline.



InlineVent® circular duct fans from Helios combine the performance characteristics of centrifugal fans with the advantages of axial design.
The linear flow pattern allows direct insertion in duct systems as well as easy, cost-effective installation.

Helios SlimVent
SlimVent centrifugal fans are ideal for limited installation spaces in residential, commercial and industrial buildings.
Thanks to their compact dimensions, they can be easily installed below suspended ceilings, wall coverings, above and inside built-in cupboards or behind cavities.

Helios RR and RRK
For the delivery of medium and low air volumes against high resistances.
For various applications in residential, commercial and industrial buildings.
Available in galvanised steel sheet or corrosion-resistant plastic.

■ **InlineVent®-circular duct fans RR and SlimVent SVR**

– Energy efficient EC version

Ø 100 – 315 mm
V̇ = 340 – 2050 m³/h

EC **384ff**

■ **InlineVent® round duct fans RR, RRK and SlimVent SVR**

– Standard AC types

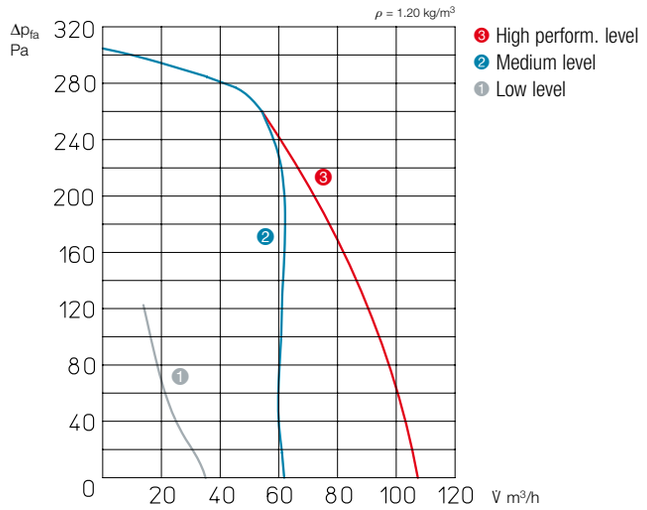
Ø 100 – 315 mm
V̇ = 250 – 1260 m³/h

396ff

EC

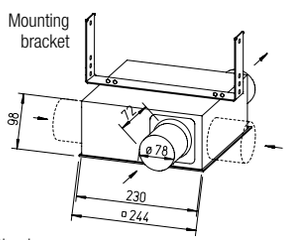
SVV 80

Performance curves SVV 80



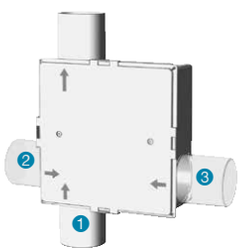
* Char. curve with factory connector position.

Dimensions SVV 80



Dim. in mm

SVV 80 Connector position



Connector position			Total output
No. 1	No. 2	No. 3	
V̇ m³/h	V̇ m³/h	V̇ m³/h	V̇ m³/h
35	45	45	**125**
65	closed	60	**125**
zu	45	75	**120**
50	60	closed	**110**
110*	closed*	closed*	**110***
closed	closed	110	**110**
closed	100	zu	**100**

Volume output depending on number of inlet side connectors and position.

Flat casing in compact design made of high-quality, impact-resistant plastic. Suitable for the ventilation of wet rooms, toilets, etc. in industrial, commercial and residential buildings. Standard delivery with inlet and outlet side connectors for standard duct Ø.
One or two additional inlet connectors (accessories) can be inserted in the casing by removing the blind cover for the ventilation of multiple rooms.

Casing
Plastic cover easily removable for removal of the volute casing.

Impeller
Energy-saving centrifugal impeller with forward curved blades made of high-quality plastic.

Motor
Enclosed, ball bearing mounted energy-saving motor, maintenance-free.

Motor protection
Through thermal overload protection in the winding.

Power control
Manual three level operation using DSEL 3. Medium or low performance level can be connected for continuous operation and switched using DSEL 2.

Electrical connection
Terminal box (IP55) on outside of casing.

Installation
Possible in any position. The removable volute casing allows inspection and cleaning without dismantling the duct system. An inspection opening must be taken into account.

Protection category
IP54 with connected duct system.

Delivery and accessories

Delivery includes mounting bracket as well as inlet and outlet side connectors. One or two additional inlet connectors (accessories, DN 75/80 mm) can be inserted in the casing by removing the blind cover.
ELS-ZAS Ref. no. 08184

Three level speed and operating switch with 0 position.
Convenient flush-mounted speed switch. Room light not switchable in parallel.
Installation in flush-mounted switch box.
Dim. mm (WxHxD) 80 x 80 x 23
DSEL 3 Ref. no. 01611

Type	Ref. no.	Connection Ø	Flow rate free blowing*	Rated speed*	Sound pressure level Case-radiation*	Sound press. level Air noise inlet side*	Power consumption*	Current consumption*	Wiring diagram[1)]	Max. air flow temperature	Weight net aprx.
		mm	V̇ m³/h	min⁻¹	dB(A) in 3 m / 1 m	dB(A) in 3 m / 1 m	kW	A	No.	+ °C	kg
Single phase Alternating current, 230 V, 50 Hz, IP45											
SVV 80	02660	80	110 / 65 / 35	2710 / 1200 / 650	29/37 18/26 16/24	35/43 24/32 17/25	27 / 20 / 11	0.13 / 0.12 / 0.09	913	40	2.0

* Values refer to the three performance levels (see performance diagram).

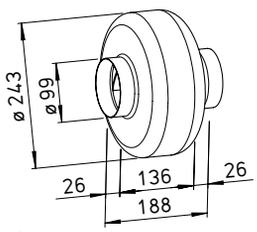
1) With three level speed switch DSEL 3: Wiring diagram no. 914.

RR EC 100

SVR EC 100

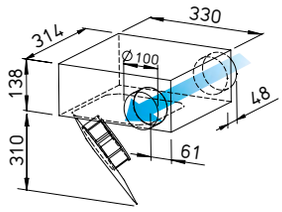
SlimVent – Slimline EC space saver w/ retractable motor-impeller unit.

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 the lowest operating costs.
- ☐ Low space requirement and minimal 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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.

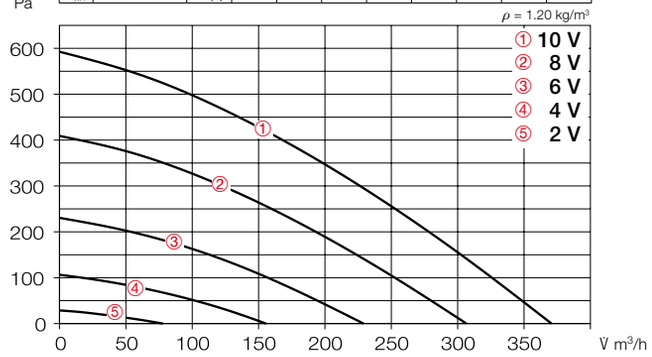
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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

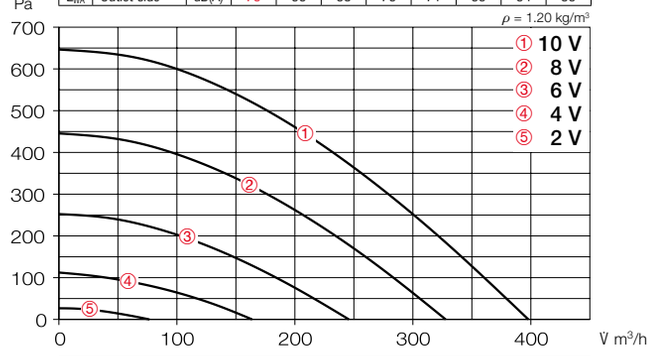
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	54	37	44	44	50	45	46	36
L_{WA}	Inlet side	dB(A)	78	70	72	71	72	67	67	58
L_{WA}	Outlet side	dB(A)	79	69	73	71	72	71	67	59



	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

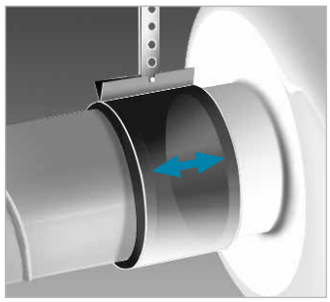
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	43	54	56	51	49	43	34
L_{WA}	Inlet side	dB(A)	75	65	66	72	65	65	60	54
L_{WA}	Outlet side	dB(A)	79	66	68	76	71	69	64	59



	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

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

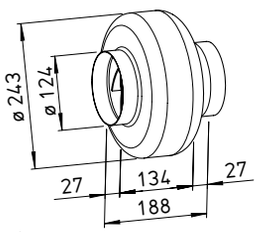
* See product page 484 for detailed description.

RR EC 125

SVR EC 125

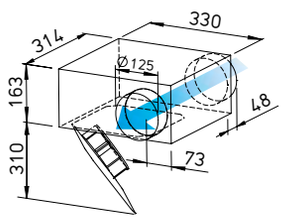
SlimVent – Slimline EC space saver w/ retractable motor-impeller unit.

Dimensions RR EC 125



Dim. in mm

Dimensions SVR EC 125



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 the lowest operating costs.
- ☐ Low space requirement and minimal 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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.

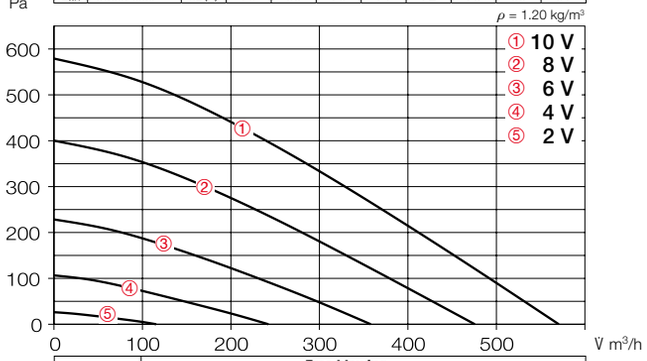
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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 125	05789	125	570	3600	45	0.10	0.83	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 125	02531	125	520	3640	50	0.10	0.81	979	60	6.5	**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 125

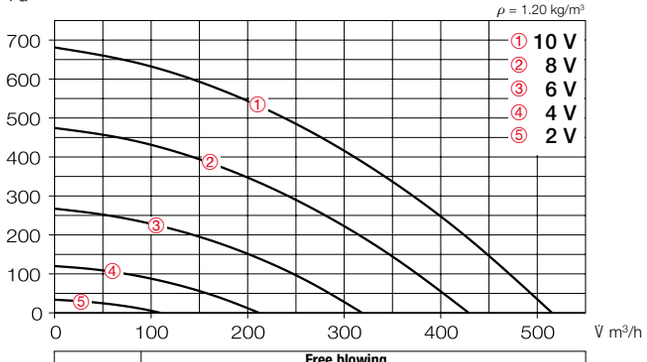
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	53	35	41	44	49	45	46	36
L_{WA}	Inlet side	dB(A)	79	67	72	74	72	70	69	59
L_{WA}	Outlet side	dB(A)	79	68	70	71	72	73	68	61



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3600	570	100	0.82	45	0.63
8	3010	480	60	0.50	40	0.45
6	2270	360	25	0.25	35	0.25
4	1530	240	10	0.10	28	0.15

Performance curves SVR EC 125

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	58	45	53	54	49	48	44	35
L_{WA}	Inlet side	dB(A)	78	68	70	76	65	65	63	55
L_{WA}	Outlet side	dB(A)	81	68	70	78	72	69	66	58

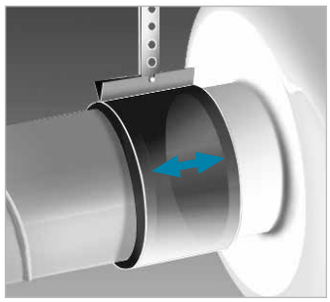


	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3630	520	95	0.78	50	0.65
8	3030	430	55	0.47	46	0.46
6	2270	320	25	0.22	40	0.28
4	1510	210	10	0.10	34	0.17

Other accessories

Accessories

Pipe clamp connectors
BM 125 Ref. no. 05076
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 125 Ref. no. 00857
Automatic made of plastic, white.

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

Protection grille
SGR 125 Ref. no. 05064
For inlet and outlet side installation. Made of powder-coated steel wire.

Duct shutter
RSKK 125 Ref. no. 05107
Automatic, made of plastic

Flexible cross talk silencer
FSD 125 Ref. no. 00677
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 125 Coarse 70%* 08577
LFBR 125 ePM1 50%* 08531
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 0.8/125 0.8 kW No.08709
EHR-R 1.2/125 1.2 kW No.09433
– with integrated temp. control
EHR-R 0.8/125 TR 0.8 kW No.05293
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 125 Ref. no. 09480
Compact heat exchanger for installation in duct system.

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

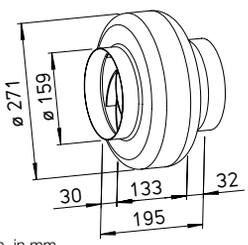
* See product page 484 for detailed description.

RR EC 160

SVR EC 160

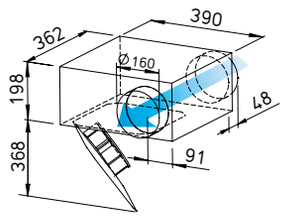
SlimVent – Slimline EC space saver w/ retractable motor-impeller unit.

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 the lowest operating costs.
- ☐ Low space requirement and minimal 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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.

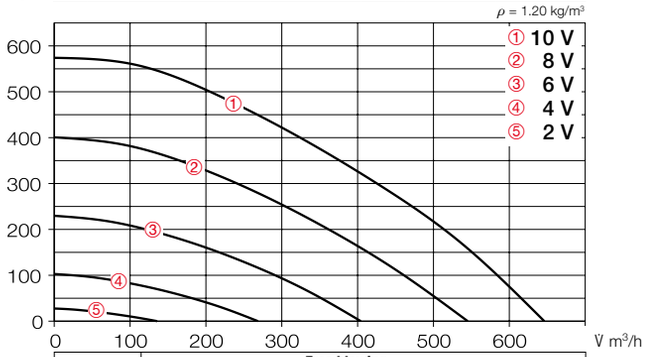
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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

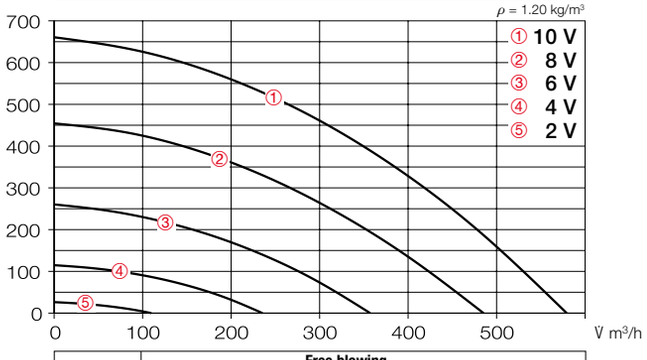
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	34	39	45	46	46	43	35
L_{WA}	Inlet side	dB(A)	75	64	67	71	68	65	65	60
L_{WA}	Outlet side	dB(A)	77	65	68	71	68	70	67	62



	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

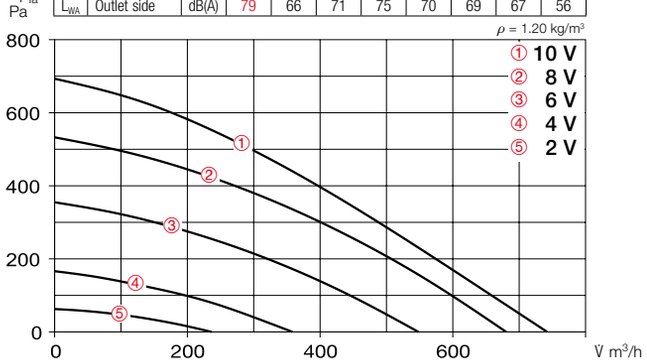
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	43	53	58	51	49	43	35
L_{WA}	Inlet side	dB(A)	76	66	69	71	67	64	63	54
L_{WA}	Outlet side	dB(A)	80	66	70	78	68	70	66	59



	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

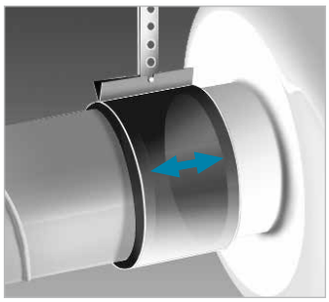
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	62	44	58	58	52	49	43	32
L_{WA}	Inlet side	dB(A)	76	65	70	72	67	62	61	52
L_{WA}	Outlet side	dB(A)	79	66	71	75	70	69	67	56



	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

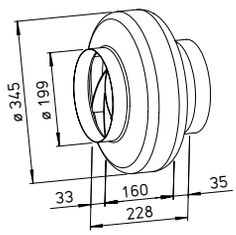
* See product page 484 for detailed description.

RR EC 200

SVR EC 200

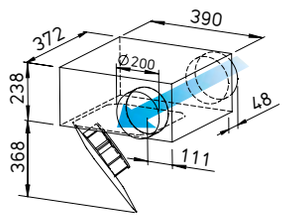
SlimVent – Slimline EC space saver w/ retractable motor-impeller unit.

Dimensions RR EC 200



Dim. in mm

Dimensions SVR EC 200



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 the lowest operating costs.
- ☐ Low space requirement and minimal 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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.

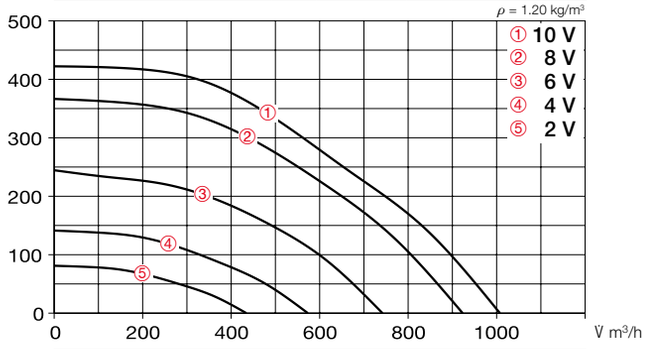
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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 200 A	06121	200	985	2890	44	0.12	1.00	979	60	3.4	**EUR EC**[1)2)]	01347	**PU 10**[1)]	01734	**PA 10**[1)]	01735
RR EC 200 B	05786	200	1130	3200	47	0.17	1.37	979	60	4.0	**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 200 A	03310	200	850	2900	50	0.12	1.02	979	60	7.4	**EUR EC**[1)2)]	01347	**PU 10**[1)]	01734	**PA 10**[1)]	01735
SVR EC 200 B[3)]	02539	200	980	2890	53	0.15	1.19	979	60	7.4	**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.
[3)] Performance diagram at www.HeliosSelect.de

Performance curves RR EC 200 A

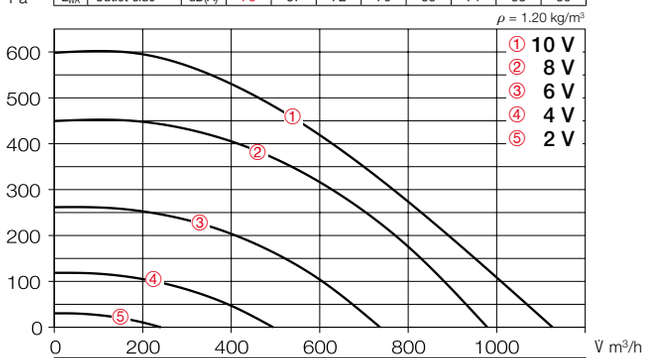
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	30	44	47	43	44	43	31
L_{WA}	Inlet side	dB(A)	75	63	68	70	66	67	63	55
L_{WA}	Outlet side	dB(A)	75	65	67	69	66	70	65	56



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2900	985	85	0.70	44	0.31
8	2550	860	55	0.50	41	0.23
6	1960	670	30	0.25	34	0.16
4	1360	460	15	0.12	28	0.12

Performance curves RR EC 200 B

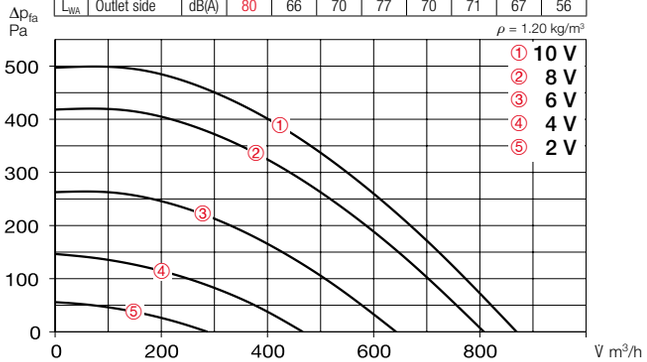
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	55	28	38	51	49	47	45	33
L_{WA}	Inlet side	dB(A)	77	66	69	73	69	68	66	60
L_{WA}	Outlet side	dB(A)	78	67	72	70	69	71	68	60



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3430	1130	130	1.1	47	0.41
8	2990	980	90	0.76	44	0.33
6	2260	740	40	0.37	37	0.19
4	1510	500	20	0.16	30	0.14

Performance curves SVR EC 200 A

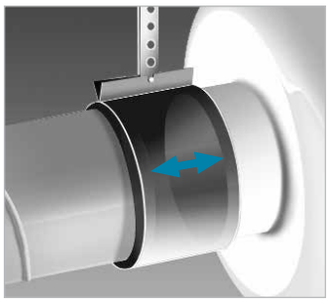
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	58	41	51	56	48	46	40	31
L_{WA}	Inlet side	dB(A)	76	66	68	73	66	63	63	53
L_{WA}	Outlet side	dB(A)	80	66	70	77	70	71	67	56



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2900	850	115	0.92	50	0.48
8	2550	700	75	0.65	49	0.38
6	1960	570	35	0.32	42	0.22
4	1360	390	15	0.14	32	0.14

Accessories

Pipe clamp connectors
BM 200 Ref. no. 05078
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 200 Ref. no. 00758
Made of plastic, light grey.

External wall cover grille
RAG 200 Ref. no. 00750
Made of plastic, light grey.

Protection grille
SGR 200 Ref. no. 05066
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 200 Ref. no. 05074
Automatic, made of metal.

Flexible cross talk silencer
FSD 200 Ref. no. 00679
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 200 Coarse 70%* 08579
LFBR 200 ePM1 50%* 08533
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 1.2/200 1.2 kW No.09436
EHR-R 2/200 2.0 kW No.09437
EHR-R 5/200 5.0 kW No.08711
– with integrated temp. control
EHR-R 5/200 TR 5.0 kW No.05295
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 200 Ref. no. 09482
Compact heat exchanger for installation in duct system.

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

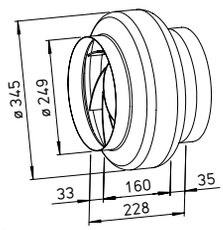
* See product page 484 for detailed description.

RR EC 250

SVR EC 250

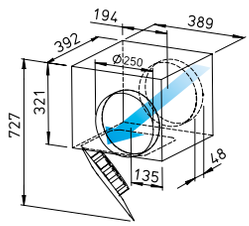
SlimVent – Slimline EC space saver w/ retractable motor-impeller unit.

Dimensions RR EC 250



Dim. in mm

Dimensions SVR EC 250



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 the lowest operating costs.
- ☐ Low space requirement and minimal 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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.

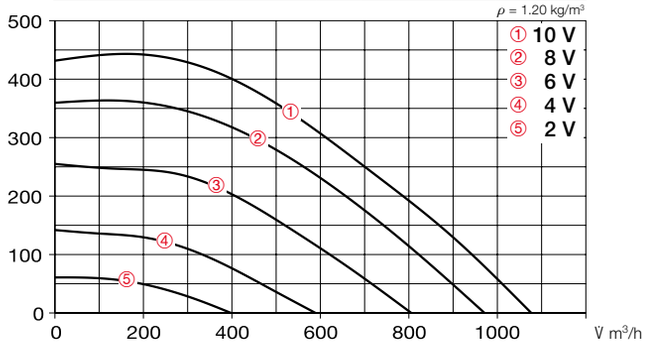
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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 250 A	06122	250	1050	3830	44	0.12	1.04	979	60	3.4	**EUR EC**[1)2)]	01347	**PU 10**[1)]	01734	**PA 10**[1)]	01735
RR EC 250 B	05787	250	1200	3200	45	0.17	1.35	979	60	4.2	**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 250	02294	250	1180	2800	48	0.15	1.22	979	60	7.9	**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 250 A

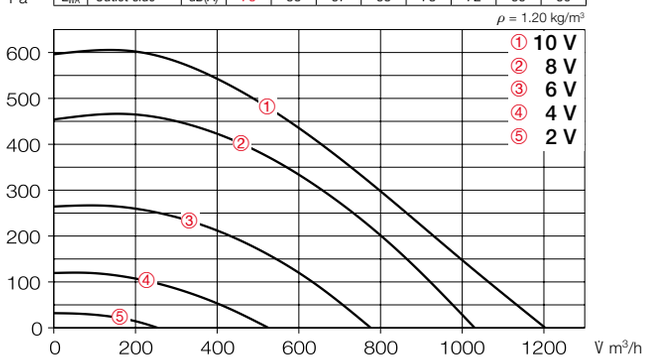
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	27	37	49	43	43	42	29
L_{WA}	Inlet side	dB(A)	74	57	63	67	70	68	65	58
L_{WA}	Outlet side	dB(A)	76	58	64	67	71	70	65	55



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2900	1050	80	0.70	44	0.27
8	2540	930	55	0.48	41	0.21
6	1960	720	30	0.25	33	0.15
4	1360	500	10	0.12	28	0.07

Performance curves RR EC 250 B

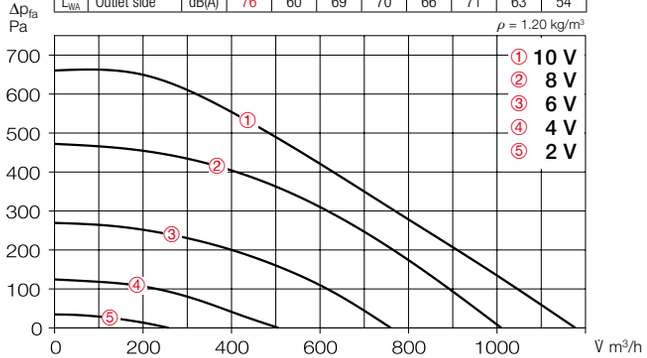
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	53	25	35	48	47	46	44	32
L_{WA}	Inlet side	dB(A)	76	60	66	69	72	69	68	60
L_{WA}	Outlet side	dB(A)	78	58	67	68	73	72	69	60



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3190	1200	130	1.1	45	0.39
8	3010	1030	90	0.74	42	0.31
6	2260	780	40	0.36	35	0.18
4	1510	530	15	0.15	30	0.10

Performance curves SVR EC 250

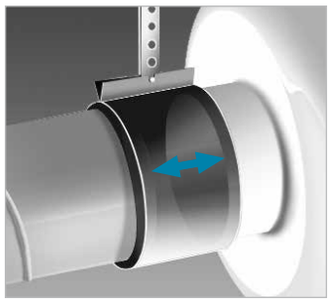
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	56	37	50	53	45	44	36	30
L_{WA}	Inlet side	dB(A)	73	58	70	65	62	65	61	52
L_{WA}	Outlet side	dB(A)	76	60	69	70	66	71	63	54



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2950	1180	150	1.2	48	0.46
8	2520	1010	95	0.82	45	0.34
6	1900	760	40	0.40	40	0.19
4	1270	510	15	0.15	32	0.11

Accessories

Pipe clamp connectors
BM 250 Ref. no. 05079
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
MK 4 Ref. no. 05824
Made of galvanised steel sheet.

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

External wall cover grille
RAG 250 Ref. no. 00751
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

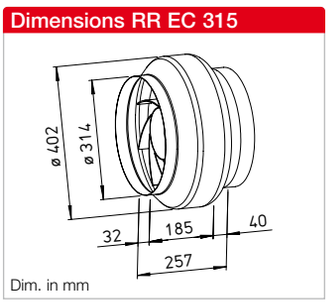
* See product page 484 for detailed description.

RR EC 315

SVR EC 315

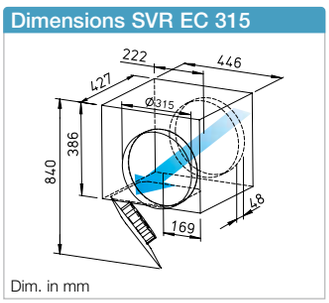
SlimVent – Slimline EC space saver w/ retractable motor-impeller unit.

Dimensions RR EC 315



Dim. in mm

Dimensions SVR EC 315



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 the lowest operating costs.
- ☐ Low space requirement and minimal 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 the highest level of efficiency. Maintenance-free and radio interference-free, 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, made of galvanised steel sheet for RR EC 315 B impeller. 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.

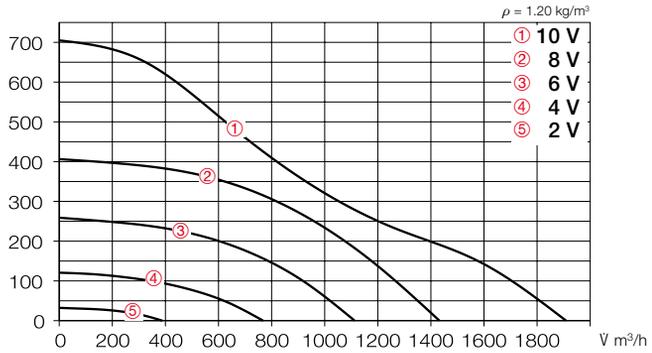
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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 315 A	05788	315	1910	2370	47	0.22	1.69	979	60	4.8	**EUR EC**[1)2)]	01347	**PU 10**[1)]	01734	**PA 10**[1)]	01735
RR EC 315 B	06123	315	2140	2880	48	0.32	2.30	979	60	7.6	**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 315 A	02669	315	1700	2570	52	0.21	1.65	979	60	13.6	**EUR EC**[1)2)]	01347	**PU 10**[1)]	01734	**PA 10**[1)]	01735
SVR EC 315 B[3)]	00668	315	1940	2890	54	0.32	2.29	979	60	14.8	**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.
[3)] Performance diagram at www.HeliosSelect.de

Performance curves RR EC 315 A

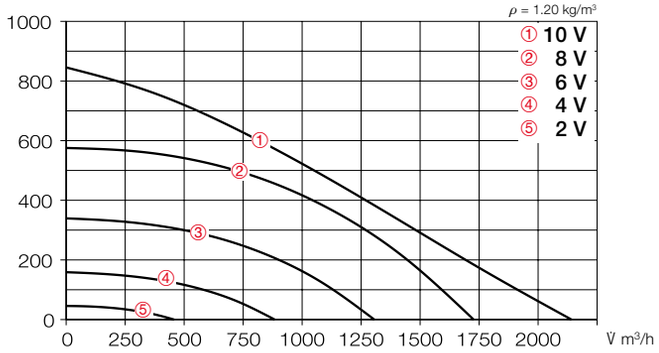
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	55	33	43	50	50	50	42	35
L_{WA}	Inlet side	dB(A)	74	62	66	66	66	68	64	64
L_{WA}	Outlet side	dB(A)	75	59	63	70	68	70	64	61



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2780	1910	190	1.5	47	0.36
8	2110	1430	90	0.72	45	0.23
6	1670	1110	50	0.40	40	0.16
4	1140	770	20	0.20	32	0.09

Performance curves RR EC 315 B

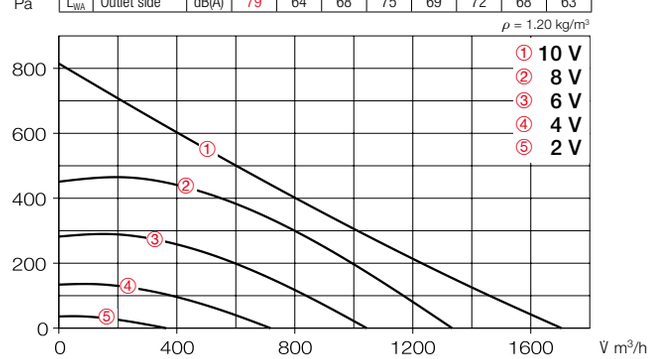
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	56	41	44	49	48	52	45	36
L_{WA}	Inlet side	dB(A)	79	60	67	69	68	74	71	71
L_{WA}	Outlet side	dB(A)	81	61	68	75	73	76	70	69



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3130	2140	240	1.8	48	0.40
8	2560	1730	140	1.1	46	0.29
6	1950	1310	65	0.53	40	0.17
4	1310	880	25	0.23	34	0.10

Performance curves SVR EC 315 A

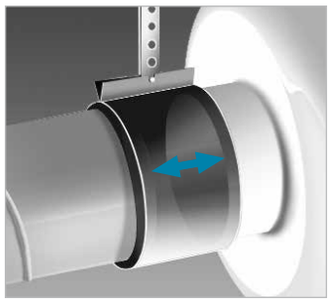
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	43	51	56	52	50	47	38
L_{WA}	Inlet side	dB(A)	75	62	67	70	68	67	66	62
L_{WA}	Outlet side	dB(A)	79	64	68	75	69	72	68	63



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
110	2680	1700	205	1.6	52	0.43
8	2120	1330	105	0.90	50	0.28
6	1670	1040	55	0.46	43	0.19
4	1150	720	25	0.20	36	0.12

Accessories

Pipe clamp connectors
BM 315 Ref. no. 05080
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
MK 4 Ref. no. 05824
Made of galvanised steel sheet.

External wall shutter
VK 315 Ref. no. 00760
Automatic made of plastic, light grey.

External wall cover grille
RAG 315 Ref. no. 00752
Made of plastic, light grey.

Protection grille
SGR 315 Ref. no. 05068
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 315 Ref. no. 05674
Automatic, made of metal.

Flexible cross talk silencer
FSD 315 Ref. no. 00681
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 315 Coarse 70%* 08581
LFBR 315 ePM1 50%* 08535
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 6/315 6.0 kW No.08713
– with integrated temp. control
EHR-R 6/315 TR 6.0 kW No.05301
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 315 Ref. no. 09484
Compact heat exchanger for installation in duct system.

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

* See product page 484 for detailed description.

RR 100

Efficiency class

C RR + accessories*

RRK 100

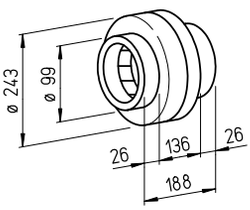
Alternative in corrosion-resistant and impact-resistant plastic casing.

SVR 100

Efficiency class

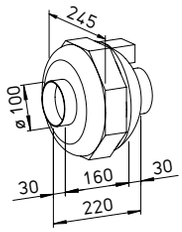
C SVR + accessories*

Dimensions RR 100



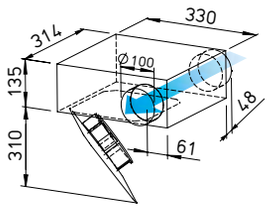
Dim. in mm

Dimensions RRK 100



Dim. in mm

Dimensions SVR 100



Dim. in mm

For the delivery of 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

- ▢ Low space requirement and minimal 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

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

Motor protection
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Installation
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVR must not be installed with the retractable motor-impeller unit upward). Installation in duct system, preferably away from the room to be ventilated for less noise.

Noise
See page 398.

Description RR

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

Power control
For type RR 100 A from 0–100% possible using electronic controller or step transformer (see table). For Type RR 100 C also two level operation using type DS 2/2 (accessories).
DS 2/2 Ref. no. 01267

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

Impeller
Centrifugal, with backward curved blades made of plastic. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
Protection category IP44 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

Description RRK

Casing
All components made of corrosion-resistant and impact-resistant plastic. Six built-in guide blades additionally increase the level of efficiency. Colour: Silver-grey.

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

Electrical connection
Terminal box (IP44) on outside of casing.

Impeller
Centrifugal, with backward curved blades made of plastic. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
IP44

Description SVR

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
From 0 – 100 % possible using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).
DS 2/2 Ref. no. 01267

Electrical connection
Terminal box (IP54) mounted to external cable.

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

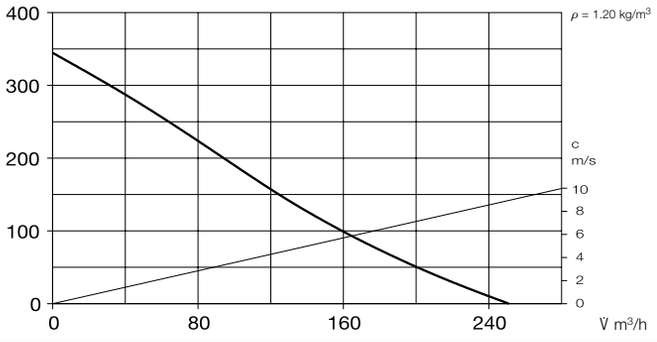
Protection category
IP44 with connected duct system.

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 Type	Ref. no.	Electronic[3] Speed controller, cont. var. flush-mount. / surf-mount. Type	Ref. no.
		V m³/h	min⁻¹	dB(A) in 1 m	W	A	A	No.	+ °C	+ °C	kg				
Type RR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RR 100 A	05653	250	1730	36	41	0.18	0.18	508	60	60	2.9	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
RR 100 C[1]	05654	330[1]/220	2530[1]/1655	42	62[1]/40	0.27[1]/0.18	0.27	934.1	60	60	2.9	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
Type RRK, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RRK 100	05973	290	2125	44	29	0.13	0.13	508	70	60	2.0	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
Type SVR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SVR 100 C[2]	02658	310/245[2]	2600/1940[2]	45/40[2]	58/40[2]	0.25/0.18[2]	0.23	934.1	60	60	4.8	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Type with high speed; with additional energy-saving level as standard (see performance diagram). [2] Values refer to the two performance levels (see performance diagram).
[3] 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.

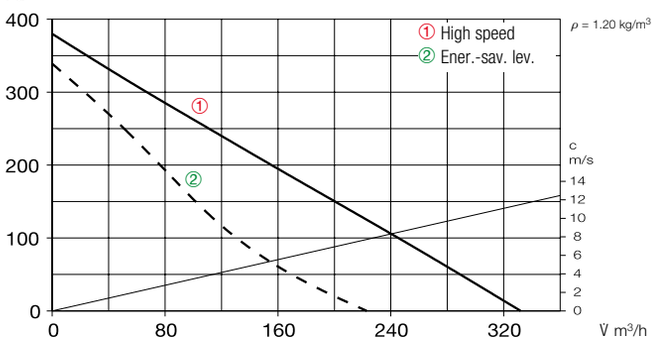
Performance curves RR 100 A

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	43	21	33	35	39	37	37	31
L_{WA}	Inlet side	dB(A)	66	56	64	60	58	52	45	38



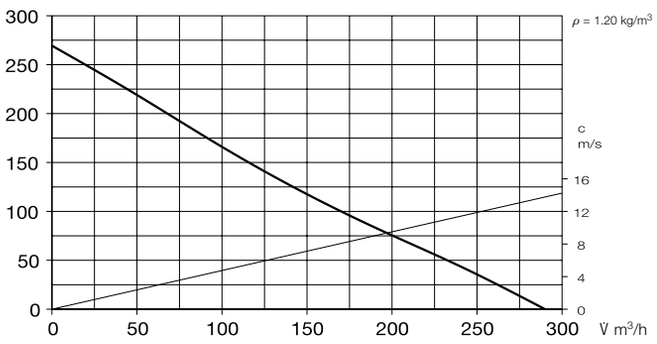
Performance curves RR 100 C

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	49	23	40	40	44	42	44	38
L_{WA}	Inlet side	dB(A)	70	61	66	65	65	59	52	46



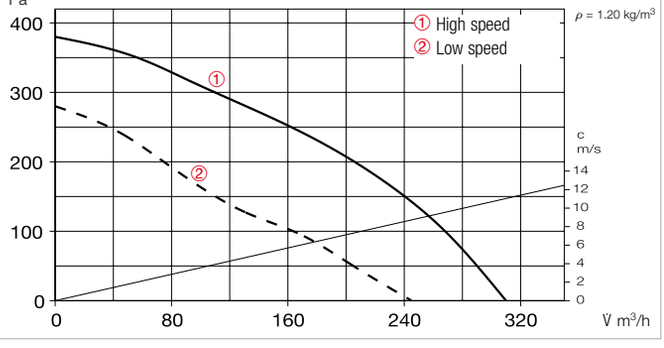
Performance curves RRK 100

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	51	32	42	44	47	44	38	27
L_{WA}	Inlet side	dB(A)	62	43	54	57	56	54	51	41



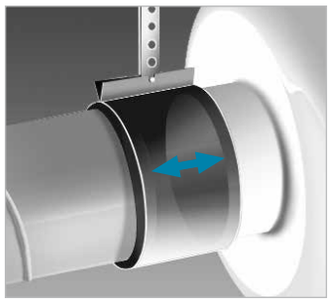
Performance curves SVR 100 C

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	53	37	50	49	44	41	35	31
L_{WA}	Inlet side	dB(A)	67	60	61	64	57	55	49	44
L_{WA}	Outlet side	dB(A)	70	60	63	66	64	60	54	48



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
MK 4 Ref. no. 05824
Mounting bracket for RRK
MK 1 Ref. no. 05821
Made of galvanised steel sheet.

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 484 for detailed description.

RR 125

Efficiency class

C RR + accessories*

RRK 125

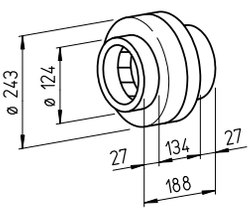
Alternative in corrosion-resistant and impact-resistant plastic casing.

SVR 125

Efficiency class

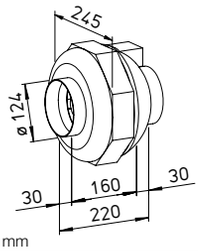
C SVR + accessories*

Dimensions RR 125



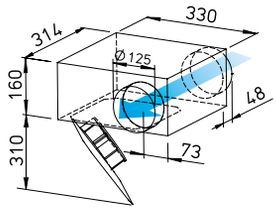
Dim. in mm

Dimensions RRK 125



Dim. in mm

Dimensions SVR 125



Dim. in mm

For the delivery of 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

- ▢ Low space requirement and minimal 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

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

Motor protection
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Installation
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVR must not be installed with the retractable motor-impeller unit upward). Installation in duct system, preferably away from the room to be ventilated for less noise.

Description RR

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

Power control
From 0 – 100 % possible using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).

DS 2/2	Ref. no. 01267

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

Impeller
Centrifugal, with backward curved blades made of plastic. directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
Protection category IP44 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

Description RRK

Casing
All components made of corrosion-resistant and impact-resistant plastic. Six built-in guide blades additionally increase the level of efficiency. Colour: Silver-grey.

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

Electrical connection
Terminal box (IP44) on outside of casing.

Impeller
Centrifugal, with backward curved blades made of plastic. directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
IP44

Description SVR

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
From 0 – 100 % possible using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).

DS 2/2	Ref. no. 01267

Electrical connection
Terminal box (IP54) mounted to external cable.

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

Protection category
IP44 with connected duct system.

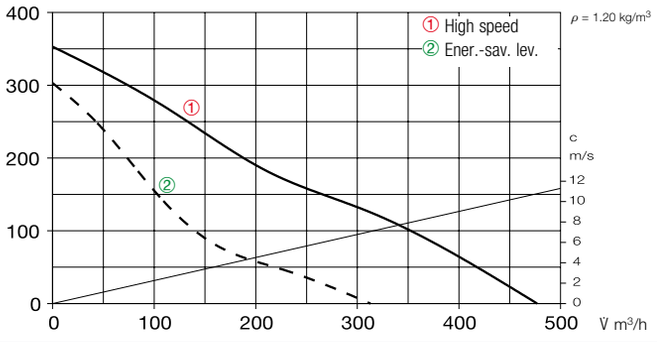
Noise
The total level and range are specified above the performance diagram for
- ▢ Case-radiated sound power
- ▢ Inlet/outlet side sound power in dB(A).
- ▢ The case-radiated noise and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

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 **Type**	Ref. no.	Electronic[3] Speed controller, cont. var. flush-mount. / surf-mount. **Type**	Ref. no.
		V m³/h	min⁻¹	dB(A) in 1 m	W	A	A	No.	+ °C	+ °C	kg				
Type RR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RR 125 C[1]	05655	480[1]/310	2480[1]/1655	42	62[1]/40	0.27[1]/0.18	0.27	934.1	70	70	2.9	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
Type RRK, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RRK 125	05974	390	2635	36	42	0.19	0.19	508	70	60	2.5	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
Type SVR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SVR 125 B[2]	02671	400/290[2]	2570/1810[2]	46/38[2]	59/41[2]	0.26/0.18[2]	0.24	934.1	60	60	5.1	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Type with high speed; with additional energy-saving level as standard (see performance diagram). [2] Values refer to the two performance levels (see performance diagram).
[3] 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.

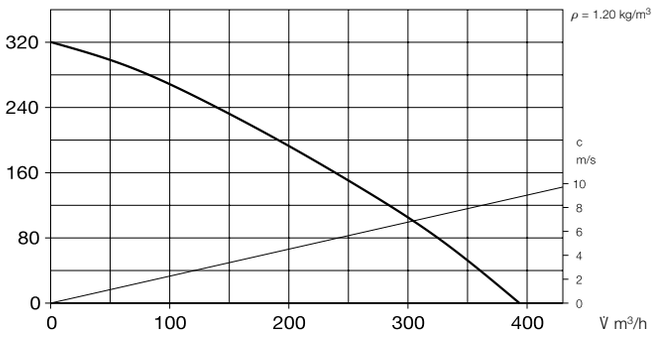
Performance curves RR 125 C

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	49	25	39	39	44	43	45	36
L_{WA}	Inlet side	dB(A)	70	55	64	67	64	60	55	48



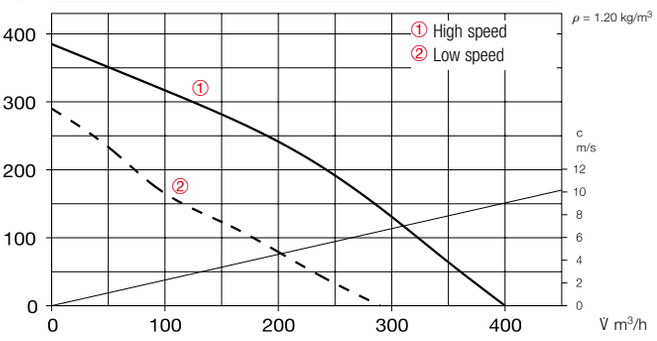
Performance curves RRK 125

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	43	29	30	33	39	38	32	23
L_{WA}	Inlet side	dB(A)	59	36	46	52	53	54	51	43

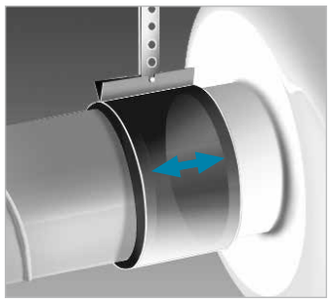


Performance curves SVR 125 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	54	37	50	51	46	41	35	31
L_{WA}	Inlet side	dB(A)	69	60	63	66	57	54	51	46
L_{WA}	Outlet side	dB(A)	71	60	64	67	64	59	56	49



Accessories



Pipe clamp connectors
BM 125 Ref. no. 05076
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
MK 4 Ref. no. 05824
Mounting bracket for RRK
MK 1 Ref. no. 05821
Made of galvanised steel sheet.

External wall shutter
VK 125 Ref. no. 00857
Automatic made of plastic, white.

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

Protection grille
SGR 125 Ref. no. 05064
For inlet and outlet side installation. Made of powder-coated steel wire.

Duct shutter
RSKK 125 Ref. no. 05107
Automatic, made of plastic

Flexible cross talk silencer
FSD 125 Ref. no. 00677
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 125 Coarse 70%* 08577
LFBR 125 ePM1 50%* 08531
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 0.8/125 0.8 kW No.08709
EHR-R 1.2/125 1.2 kW No.09433
– with integrated temp. control
EHR-R 0.8/125 TR 0.8 kW No.05293
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 125 Ref. no. 09480
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 484 for detailed description.

RR 160

Efficiency class

C — RR 160 B + accessories*

B — RR 160 C + accessories*

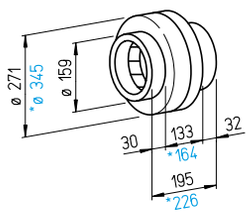
RRK 160

Alternative in corrosion-resistant and impact-resistant plastic casing.

SVR 160

SlimVent – Slimline space saver with retractable motor-impeller unit.

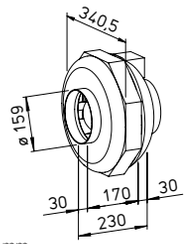
Dimensions RR 160



RR 160 B
*RR 160 C

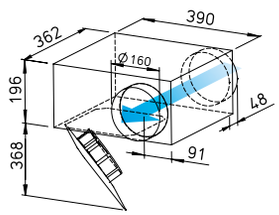
Dim. in mm

Dimensions RRK 160



Dim. in mm

Dimensions SVR 160



Dim. in mm

For the delivery of 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

- Low space requirement and minimal 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

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

Motor protection
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Installation
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVR must not be installed with the retractable motor-impeller unit upward). Installation in duct system, preferably away from the room to be ventilated for less noise.

Noise
See page 398.

Description RR

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

Power control
From 0 – 100 % possible using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).
DS 2/2 Ref. no. 01267

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

Impeller
Centrifugal, with backward curved blades made of plastic. directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
Protection category IP44 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

Description RRK

Casing
All components made of corrosion-resistant and impact-resistant plastic. Six built-in guide blades additionally increase the level of efficiency. Colour: Silver-grey.

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

Electrical connection
Terminal box (IP44) on outside of casing.

Impeller
Centrifugal, with backward curved blades made of plastic. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
IP44

Description SVR

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
From 0 – 100 % possible using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).
DS 2/2 Ref. no. 01267

Electrical connection
Terminal box (IP54) mounted to external cable.

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

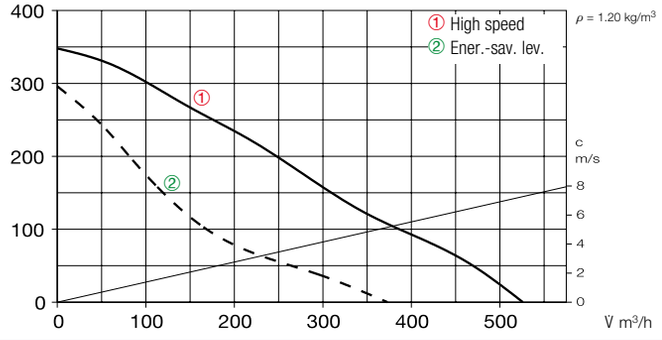
Protection category
IP44 with connected duct system.

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 Type	Ref. no.	Electronic[3] Speed controller, cont. var. flush-mount. / surf-mount. Type	Ref. no.
		V m³/h	min⁻¹	dB(A) in 1 m	W	A	A	No.	+ °C	+ °C	kg				
Type RR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RR 160 B[1]	05656	530[1]/370	2540[1]/1695	42	62[1]/40	0.27[1]/0.18	0.27	934.1	60	60	3.2	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
RR 160 C[1]	05657	870[1]/610	2480[1]/1580	49	101[1]/64	0.44[1]/0.28	0.44	934.1	65	65	4.3	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
Type RRK, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RRK 160	05976	500	2380	32	53	0.24	0.24	508	70	60	2.7	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
Type SVR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SVR 160 K[2]	02672	450/310[2]	2550/1740[2]	45/37[2]	61/42[2]	0.26/0.19[2]	0.25	934.1	60	60	6.7	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Type with high speed; with additional energy-saving level as standard (see performance diagram). [2] Values refer to the two performance levels (see performance diagram).
[3] 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.

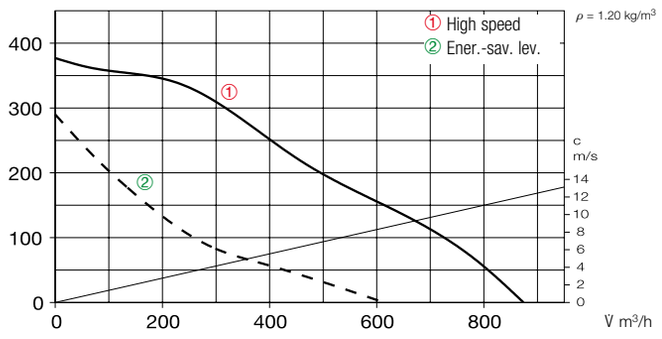
Performance curves RR 160 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	49	24	39	40	45	44	44	32
L_{WA}	Inlet side	dB(A)	69	54	64	65	63	58	53	48



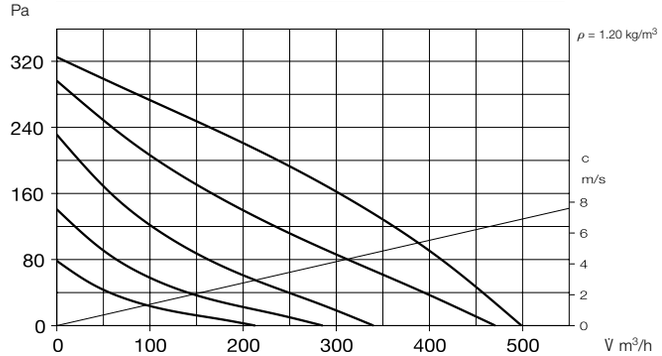
Performance curves RR 160 C

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	56	34	42	49	54	47	48	35
L_{WA}	Inlet side	dB(A)	73	60	64	68	69	64	64	54



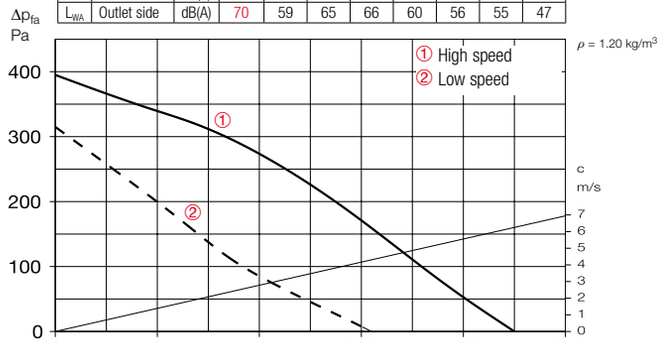
Performance curves RRK 160

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	40	31	33	32	34	33	27	20
L_{WA}	Inlet side	dB(A)	59	35	49	51	53	53	52	45



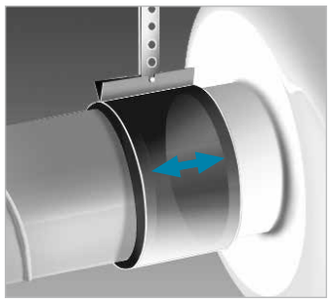
Performance curves SVR 160 K

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	53	39	48	50	41	39	34	31
L_{WA}	Inlet side	dB(A)	68	59	65	62	57	51	52	45
L_{WA}	Outlet side	dB(A)	70	59	65	66	60	56	55	47



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
MK 4 Ref. no. 05824
Mounting bracket for RRK
MK 2 Ref. no. 05822
Made of galvanised steel sheet.

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 484 for detailed description.

RR 200

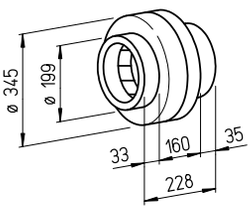
RRK 200

Alternative in corrosion-resistant and impact-resistant plastic casing.

SVR 200

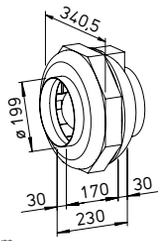
SlimVent – Slimline space saver with retractable motor-impeller unit.

Dimensions RR 200



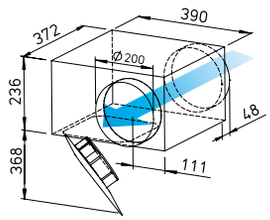
Dim. in mm

Dimensions RRK 200



Dim. in mm

Dimensions SVR 200



Dim. in mm

For the delivery of 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

- ☐ Low space requirement and minimal 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

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

Motor protection
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Installation
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVR must not be installed with the retractable motor-impeller unit upward). Installation in duct system, preferably away from the room to be ventilated for less noise.

Noise
See page 398.

Description RR

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

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

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

Impeller
Centrifugal, with backward curved blades made of plastic. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
Protection category IP44 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

Description RRK

Casing
All components made of corrosion-resistant and impact-resistant plastic. Six built-in guide blades additionally increase the level of efficiency. Colour: Silver-grey.

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

Electrical connection
Terminal box (IP44) on outside of casing.

Impeller
Centrifugal, with backward curved blades made of plastic. directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
IP44

Description SVR

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

Electrical connection
Terminal box (IP54) mounted to external cable.

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

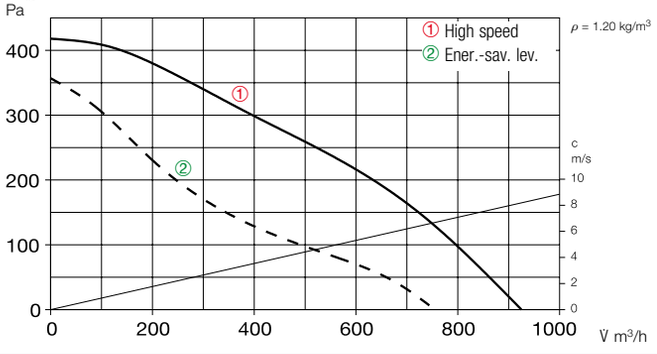
Protection category
IP44 with connected duct system.

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[2] Speed controller, cont. var. flush-mount. / surf-mount.	Ref. no.
		V m³/h	min⁻¹	dB(A) in 1 m	W	A	A	No.	+ °C	+ °C	kg	Type		Type	
Type RR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44 (Type RR 200 B, IP33)															
RR 200 A[1]	05658	960[1]/760	2630[1]/1980	43	129[1]/85	0.57[1]/0.38	0.57	934.1	60	60	4.2	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
RR 200 B	05659	980	2750	44	145	0.63	0.78	508	70	60	5.0	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
Type RRK, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RRK 200	05977	870	2370	38	95	0.41	0.41	508	70	60	3.4	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
Type SVR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SVR 200 K	02673	980	2730	57	154	0.67	0.81	508	70	50	8.4	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Type with high speed; with additional energy-saving level as standard (see performance diagram).
[2] Transformer control units must be provided in noise-relevant cases. Electronic phase angle control can cause disturbing magnetisation humming.

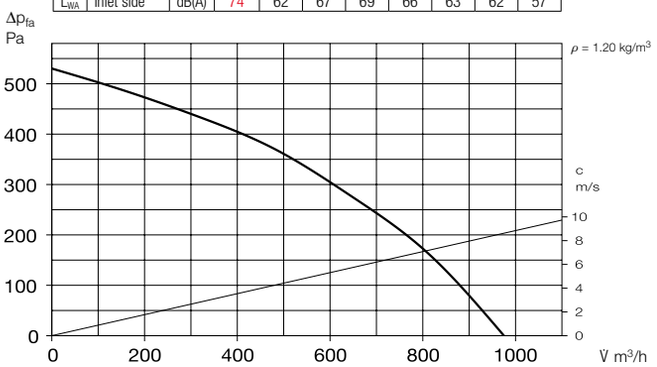
Performance curves RR 200 A

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	50	31	40	46	46	40	38	31
L_{WA}	Inlet side	dB(A)	74	61	68	69	64	66	64	56



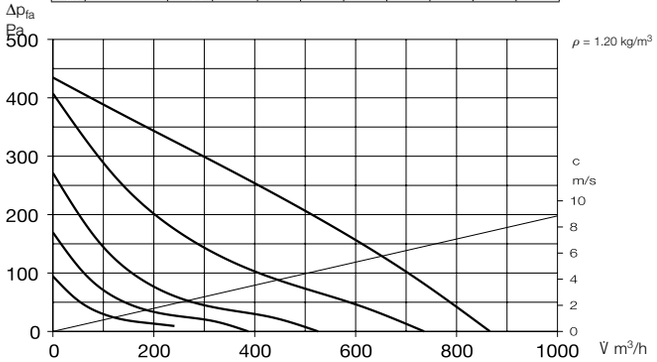
Performance curves RR 200 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	34	41	46	48	44	44	35
L_{WA}	Inlet side	dB(A)	74	62	67	69	66	63	62	57



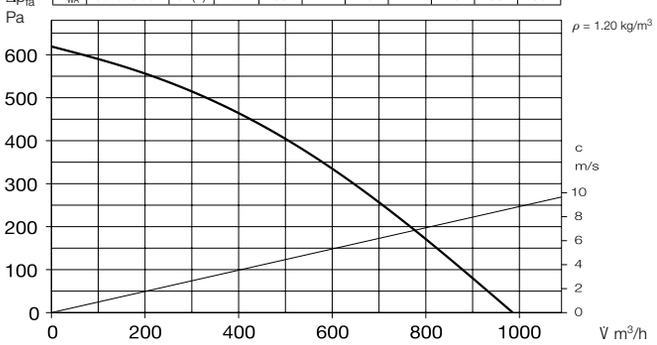
Performance curves RRK 200

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	46	32	35	40	41	40	33	26
L_{WA}	Inlet side	dB(A)	63	40	55	56	56	58	53	46



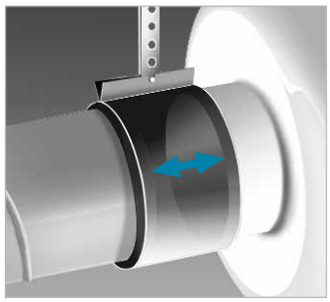
Performance curves SVR 200 K

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	65	47	62	61	53	48	42	36
L_{WA}	Inlet side	dB(A)	78	65	74	73	65	63	60	57
L_{WA}	Outlet side	dB(A)	82	69	77	79	71	70	66	63



Accessories

Pipe clamp connectors
BM 200 Ref. no. 05078
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
MK 4 Ref. no. 05824
Mounting bracket for RRK
MK 2 Ref. no. 05822
Made of galvanised steel sheet.

External wall shutter
VK 200 Ref. no. 00758
Made of plastic, light grey.

External wall cover grille
RAG 200 Ref. no. 00750
Made of plastic, light grey.

Protection grille
SGR 200 Ref. no. 05066
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 200 Ref. no. 05074
Automatic, made of metal.

Flexible cross talk silencer
FSD 200 Ref. no. 00679
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 200 Coarse 70%* 08579
LFBR 200 ePM1 50%* 08533
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 1.2/200 1.2 kW No.09436
EHR-R 2/200 2.0 kW No.09437
EHR-R 5/200 5.0 kW No.08711
– with integrated temp. control
EHR-R 5/200 TR 5.0 kW No.05295
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 200 Ref. no. 09482
Compact heat exchanger for installation in duct system.

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

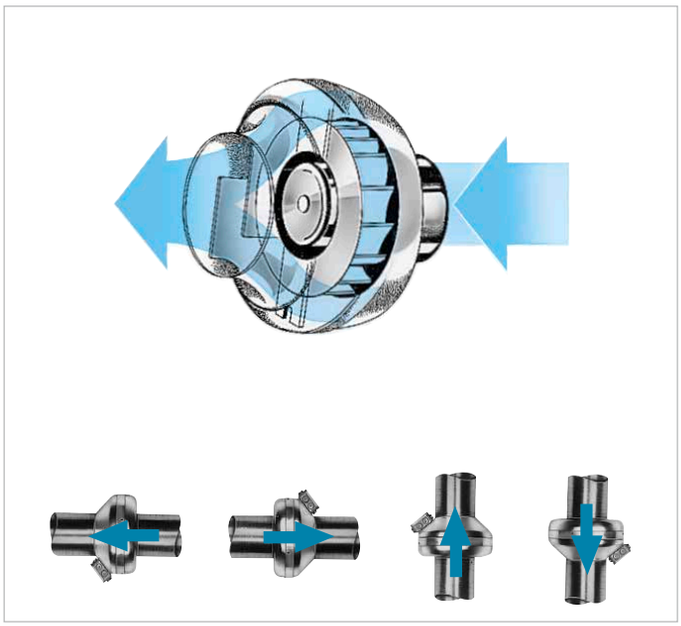
* See product page 484 for detailed description.

RR 250

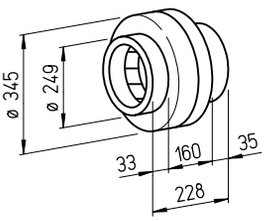
Market-leading unit series with favourable price/performance ratio.
With energy-saving level as standard.

RRK 250

Alternative in corrosion-resistant and impact-resistant plastic casing.

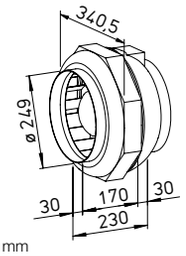


Dimensions RR 250



Dim. in mm

Dimensions RRK 250



Dim. in mm

For the delivery of 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

- ☐ Low space requirement and minimal 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

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

Motor protection
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Description RR

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

Power control
From 0 – 100% using electronic controller or step transformer (see table).
Two level operation for type RR 250 A possible using type DS 2/2 (accessories).

DS 2/2	Ref. no. 01267

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

Impeller
Centrifugal, with backward curved blades made of plastic. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
Protection category IP44 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

Description RRK

Casing
All components made of corrosion-resistant and impact-resistant plastic. Six built-in guide blades additionally increase the level of efficiency. Colour: Silver-grey.

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

Electrical connection
Terminal box (IP44) on outside of casing.

Impeller
Centrifugal, with backward curved blades made of plastic. directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
IP44

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.

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

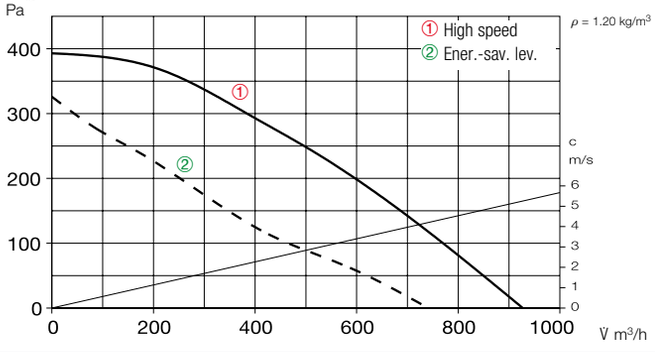
- ☐ Case-radiated sound power
- ☐ Inlet/outlet side sound power in dB(A).
- ☐ The case-radiated noise and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

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 Type	Ref. no.	Electronic[2] Speed controller, cont. var. flush-mount. / surf-mount. Type	Ref. no.
		V m³/h	min⁻¹	dB(A) in 1 m	W	A	A	No.	+ °C	+ °C	kg				
Type RR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44 (Type RR 250 C, IP33)															
RR 250 A[1]	05652	950[1]/740	2650[1]/2030	42	129[1]/85	0.57[1]/0.38	0.57	934.1	60	60	4.2	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
RR 250 C	05660	970	2750	45	145	0.63	0.78	508	70	60	5.0	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
Type RRK, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RRK 250	05978	910	2360	38	98	0.43	0.43	508	70	60	3.4	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Type with high speed; with additional energy-saving level as standard (see performance diagram).
[2] Transformer control units must be provided in noise-relevant cases. Electronic phase angle control can cause disturbing magnetisation humming.

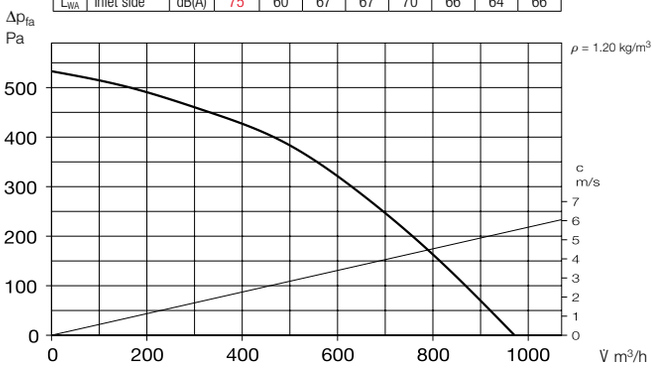
Performance curves RR 250 A

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	49	29	40	45	42	41	38	31
L_{WA}	Inlet side	dB(A)	75	63	68	67	69	68	66	57



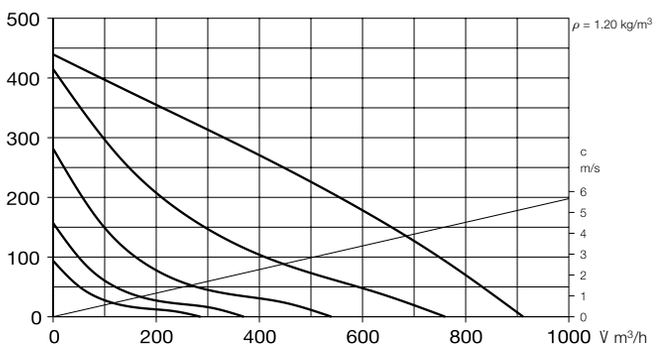
Performance curves RR 250 C

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	53	31	42	46	49	46	43	38
L_{WA}	Inlet side	dB(A)	75	60	67	67	70	66	64	66



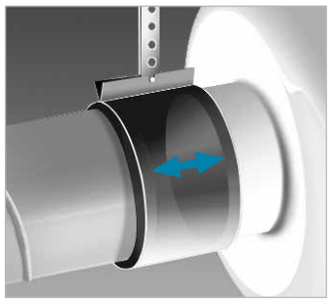
Performance curves RRK 250

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	46	32	35	40	41	40	33	26
L_{WA}	Inlet side	dB(A)	63	40	55	56	56	58	53	46



Accessories

Pipe clamp connectors
BM 250 Ref. no. 05079
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
MK 4 Ref. no. 05824
Mounting bracket for RRK
MK 2 Ref. no. 05822
Made of galvanised steel sheet.

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

External wall cover grille
RAG 250 Ref. no. 00751
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. 0680
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

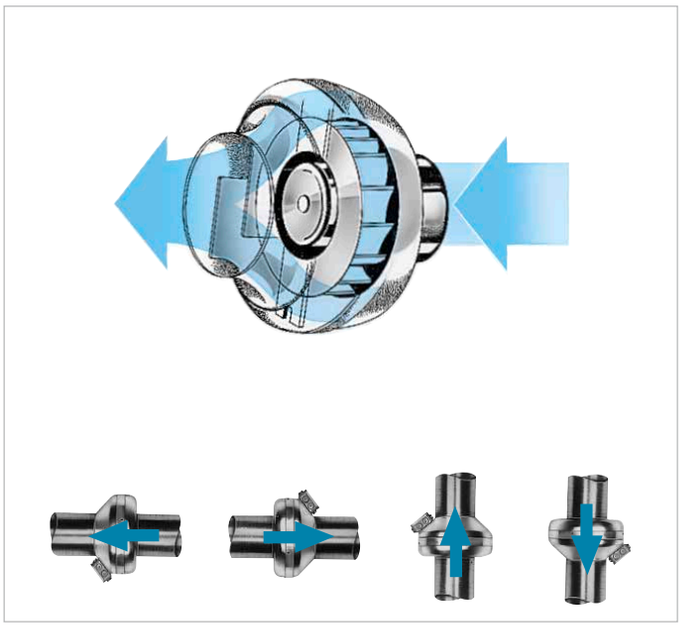
* See product page 484 for detailed description.

RR 315

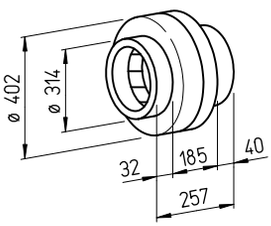
Market-leading unit series with favourable price/performance ratio.

RRK 315

Alternative in corrosion-resistant and impact-resistant plastic casing.

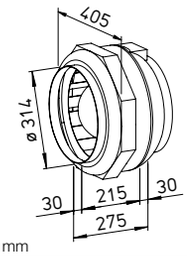


Dimensions RR 315



Dim. in mm

Dimensions RRK 315



Dim. in mm

For the delivery of 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

- ☐ Low space requirement and minimal 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

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

Motor protection
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Description RR

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

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

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

Impeller
Centrifugal, with backward curved blades made of plastic. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
Protection category IP44 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

Description RRK

Casing
All components made of corrosion-resistant and impact-resistant plastic. Six built-in guide blades additionally increase the level of efficiency. Colour: Silver-grey.

Electrical connection
Terminal box (IP44) on outside of casing.

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

Impeller
Centrifugal, with backward curved blades made of steel sheet. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category
IP44

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.

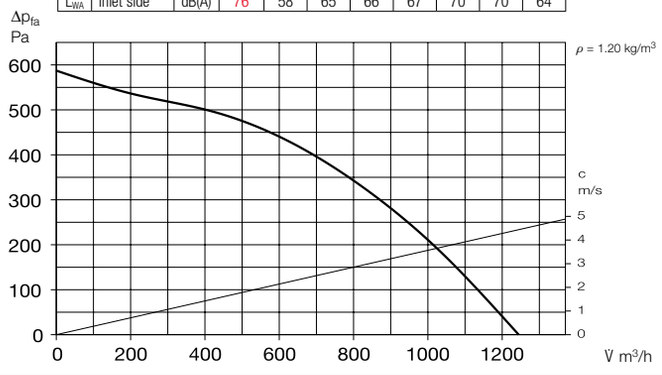
Noise
The total level and range are specified above the performance diagram for
- ☐ Case-radiated sound power
- ☐ Inlet/outlet side sound power in dB(A).
- ☐ The case-radiated noise and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

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 Type	Transformer speed controller 5-step Ref. no.	Electronic * Speed controller, cont. var. flush-mount. / surf-mount. Type	Electronic * Speed controller, cont. var. flush-mount. / surf-mount. Ref. no.
		V̇ m³/h	min⁻¹	dB(A) in 1 m	W	A	A	No.	+ °C	+ °C	kg				
Type RR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RR 315	05920	1260	2660	46	200	0.87	0.97	508	70	60	6.1	**TSW 1.5**	01495	**ESU 3 / ESA 3**	00237 / 00239
Type RRK, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RRK 315	05979	1080	2690	48	170	0.75	0.97	508	70	60	5.7	**TSW 1.5**	01495	**ESU 3 / ESA 3**	00237 / 00239

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

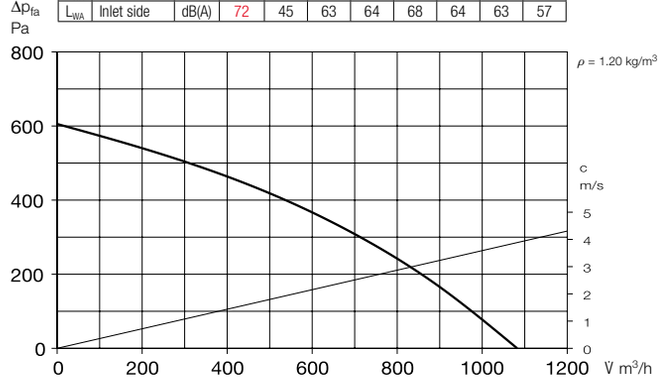
Performance curves RR 315

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	54	40	45	46	48	49	46	37
L_{WA}	Inlet side	dB(A)	76	58	65	66	67	70	70	64



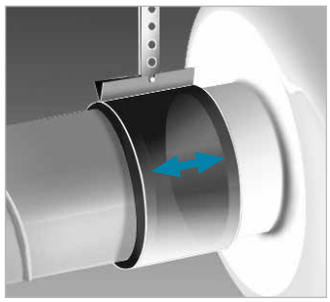
Performance curves RRK 315

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	55	40	45	50	50	47	43	34
L_{WA}	Inlet side	dB(A)	72	45	63	64	68	64	63	57



Accessories

Pipe clamp connectors
BM 315 Ref. no. 05080
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
MK 4 Ref. no. 05824
Mounting bracket for RRK
MK 3 Ref. no. 05823
Made of galvanised steel sheet.

External wall shutter
VK 315 Ref. no. 00760
Automatic made of plastic, light grey.

External wall cover grille
RAG 315 Ref. no. 00752
Made of plastic, light grey.

Protection grille
SGR 315 Ref. no. 05068
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 315 Ref. no. 05674
Automatic, made of metal.

Flexible cross talk silencer
FSD 315 Ref. no. 00681
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 315 Coarse 70%* 08581
LFBR 315 ePM1 50%* 08535
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 6/315 6.0 kW No.08713
– with integrated temp. control
EHR-R 6/315 TR 6.0 kW No.05301
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 315 Ref. no. 09484
Compact heat exchanger for installation in duct system.

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

* See product page 484 for detailed description.

Acoustic Line from Helios.
Ventilation could not be quieter.

Two powerful series: Helios SilentBox® and SlimVent.

Acoustic Line centrifugal circular duct fans are characterised by the lowest noise levels and thus they are also suitable for noise sensitive environments. This is achieved by using particularly low-noise high performance impellers and the casing which was designed as a silencer.

The 50 mm thick mineral wool lining ensures that the casing radiation and ventilation noise are kept to a minimum.
The retractable motor-impeller unit also offers maximum convenience for inspection and cleaning.

Helios SilentBox SB
Ø 125 to 400 mm
$\dot{V}$ = 230 – 4560 m³/h

High volume output and pressure performance with ideal sound values make Helios SilentBox centrifugal circular duct fans the best solution for extract air and intake air systems with particular noise level requirements.

The sound-insulated casing ensures virtually silent operation and it is designed for installation in any position.

Helios SlimVent SVS
Ø 125 to 315 mm
$\dot{V}$ = 400 – 1940 m³/h

Helios SlimVent centrifugal circular duct fans are only slightly higher than the duct diameter and they allow easy and space-saving installation in any position.

System resistances and longer duct sections are not restrictions due to the high pressure rates. The use of energy-saving centrifugal impellers also ensures highly energy-efficient operation.

■ **Acoustic Line**

Energy-efficient
EC version

EC 410ff

■ **Acoustic Line**

Standard AC types

424ff

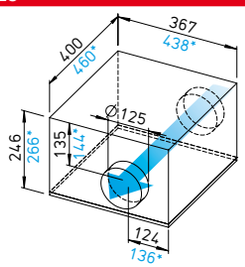
SB EC 125

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

SVS EC 125

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

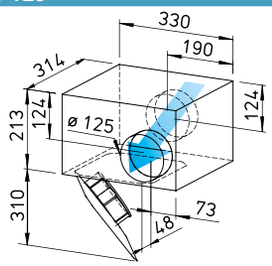
Dimensions SB EC 125



Dim. in mm

SB EC 125 A, *SB EC 125 B

Dimensions SVS EC 125



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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.
- **Noise**
  See page 417

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. SB EC 125 A forward curved impeller in aerodynamically optimised volute casing, galvanised steel sheet.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable.
- **Protection category**
  IP44 (SB EC 125 A IP54) with connected duct system.

Description SlimVent SVS EC

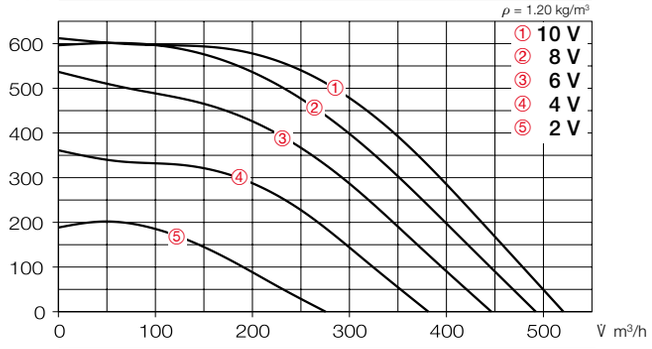
- **Casing**
  Extremely flat casing with sound-insulating, over 50 mm thick mineral wool lining and glass fibre surface. The acoustic box placed in front of the fan wheel significantly reduces the inlet-side noises. The radiated noises are reduced to a lesser extent (see noise data above the performance 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, IP54 (A), IP44 (B)																
SB EC 125 A	06132	125	520	2890	41	0.12	1.03	979	60	10.0	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SB EC 125 B	09624	125	530	3600	45	0.10	0.81	979	60	12.0	**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 125	00016	125	540	3530	53	0.10	0.82	979	60	6.2	**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 125 A

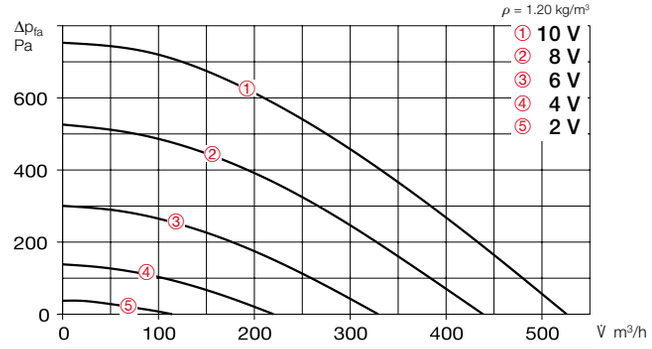
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	49	46	41	39	37	36	36	31
L_{WA}	Inlet side	dB(A)	62	60	54	46	43	45	44	43
L_{WA}	Outlet side	dB(A)	79	69	69	72	71	72	68	68



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2360	520	120	1.0	41	0.83
8	2280	490	100	0.83	40	0.73
6	2120	450	80	0.65	38	0.64
4	1830	380	50	0.43	35	0.47

Performance curves SB EC 125 B

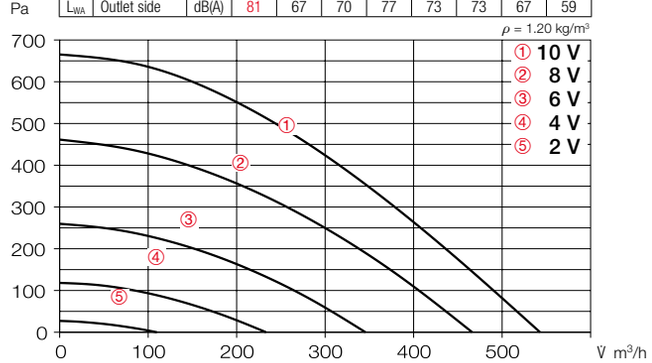
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	53	41	45	51	40	38	35	31
L_{WA}	Inlet side	dB(A)	62	57	53	58	46	47	44	38
L_{WA}	Outlet side	dB(A)	82	65	68	80	75	73	67	62



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3630	530	95	0.77	45	0.64
8	3020	440	55	0.47	42	0.45
6	2270	330	25	0.23	38	0.27
4	1510	220	10	0.10	32	0.16

Performance curves SVS EC 125

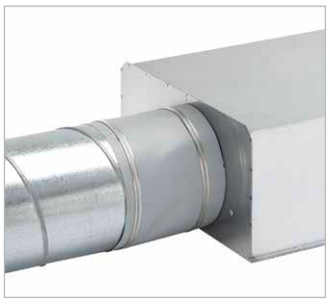
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	61	40	52	60	51	47	41	33
L_{WA}	Inlet side	dB(A)	70	65	66	61	56	57	53	45
L_{WA}	Outlet side	dB(A)	81	67	70	77	73	73	67	59



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3530	540	100	0.80	53	0.66
8	3020	470	60	0.55	49	0.45
6	2270	350	30	0.25	43	0.31
4	1530	230	15	0.15	34	0.23

Accessories

Flexible connecting sleeve
FM 125 Ref. no. 01682
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 125 Ref. no. 00857
Automatic made of plastic, white.

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

Protection grille
SGR 125 Ref. no. 05064
For inlet and outlet side installation.
Made of powder-coated steel wire.

Duct shutter
RSKK 125 Ref. no. 05107
Automatic, made of plastic.

Flexible cross talk silencer
FSD 125 Ref. no. 00677
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 125 Coarse 70%* 08577
LFBR 125 ePM1 50%* 08531
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 0.8/125 0.8 kW No. 08709
EHR-R 1.2/125 1.2 kW No. 09433
– with integrated temp. control
EHR-R 0.8/125 TR 0.8 kW No.05293
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 125 Ref. no. 09480
Compact heat exchanger for installation in duct system.

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

* See product page 484 for detailed description.

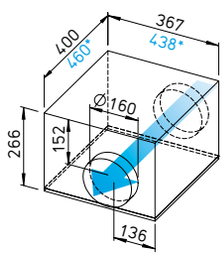
SB EC 160

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

SVS EC 160

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

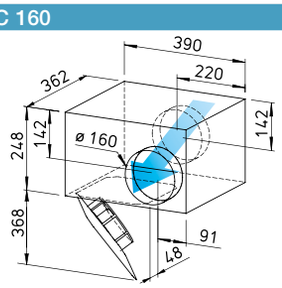
Dimensions SB EC 160



Dim. in mm

SB EC 160 A, *SB EC 160 B

Dimensions SVS EC 160



Dim. in mm

Common features SilentBox SB EC and SlimVent SVS EC

- **Installation**
  See page 410.
- **Drive**
  Energy-saving, speed-controllable EC external rotor motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, 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.
- **Noise**
  See page 417.

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. SB EC 125 A forward curved impeller in aerodynamically optimised volute casing, galvanised steel sheet.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable.
- **Protection category**
  IP44 (SB EC 160 A IP54) with connected duct system.

Description SlimVent SVS EC

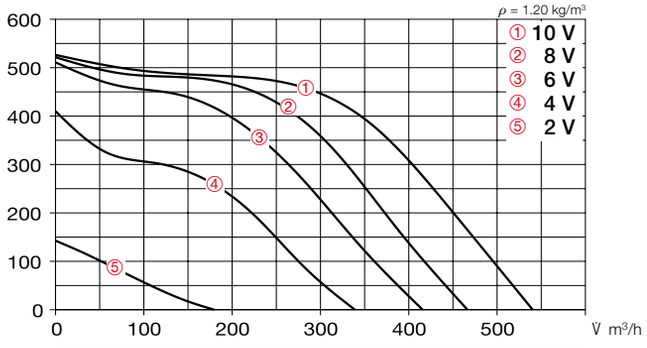
- **Casing**
  Extremely flat casing with sound-insulating, over 50 mm thick mineral wool lining and glass fibre surface. The acoustic box placed in front of the fan wheel significantly reduces the inlet-side noises. The radiated noises are reduced to a lesser extent (see noise data above the performance 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, IP54 (A), IP44 (B)																
SB EC 160 A	06136	160	580	2630	41	0.12	1.02	979	60	10.0	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SB EC 160 B	09625	160	590	3610	46	0.10	0.81	979	60	12.0	**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 160 A [3)]	00017	160	570	3610	51	0.10	0.80	979	60	8.0	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SVS EC 160 B	00018	160	780	2920	52	0.12	0.97	979	60	7.5	**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.
[3)] Performance diagram at www.HeliosSelect.de.

Performance curves SB EC 160 A

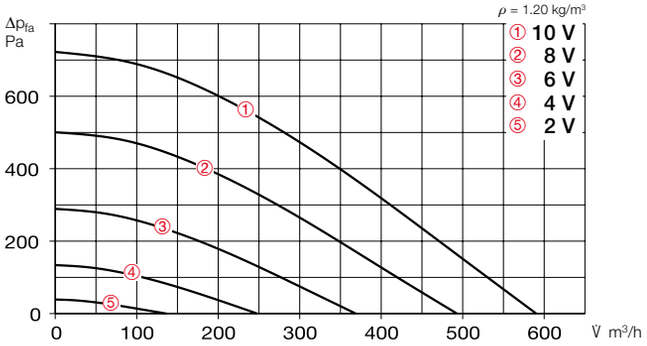
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	49	45	40	42	37	38	36	31
L_{WA}	Inlet side	dB(A)	65	63	58	50	44	49	47	45
L_{WA}	Outlet side	dB(A)	78	68	68	71	68	71	69	68



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2190	590	120	1.0	41	0.73
8	2070	550	100	0.85	40	0.65
6	1910	500	75	0.65	39	0.54
4	1650	430	50	0.43	35	0.42

Performance curves SB EC 160 B

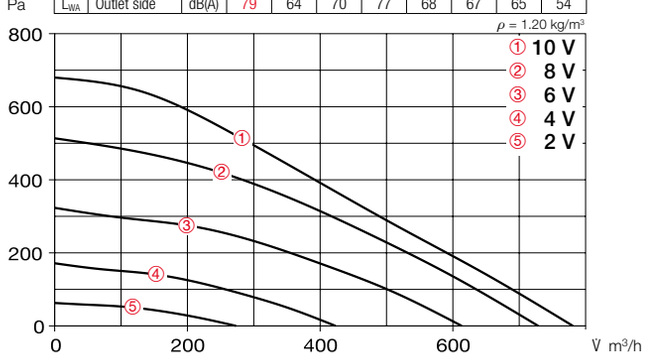
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	54	41	46	52	40	36	33	30
L_{WA}	Inlet side	dB(A)	65	60	57	61	49	51	45	40
L_{WA}	Outlet side	dB(A)	82	65	69	80	74	72	67	61



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3630	590	90	0.73	46	0.55
8	3020	490	50	0.44	41	0.36
6	2270	370	25	0.20	38	0.24
4	1510	250	10	0.10	31	0.14

Performance curves SVS EC 160 B

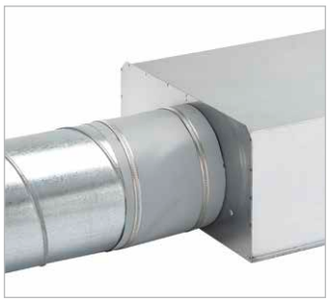
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	45	54	57	48	48	41	32
L_{WA}	Inlet side	dB(A)	69	63	66	61	56	52	51	43
L_{WA}	Outlet side	dB(A)	79	64	70	77	68	67	65	54



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2900	780	125	0.99	52	0.58
8	2700	730	100	0.87	50	0.49
6	2270	610	60	0.51	46	0.35
4	1550	420	20	0.20	40	0.17

Accessories

Flexible connecting sleeve
FM 160 Ref. no. 01684
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 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 No. 08817

* See product page 484 for detailed description.

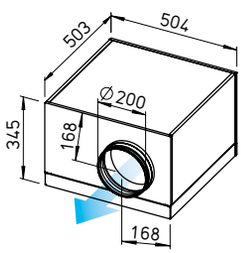
SB EC 200

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

SVS EC 200

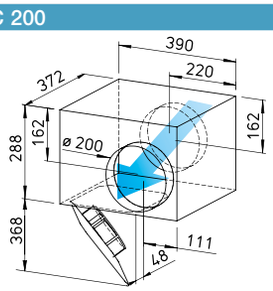
Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

Dimensions SB EC 200



Dim. in mm

Dimensions SVS EC 200



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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.
- **Noise**
  See page 417.

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

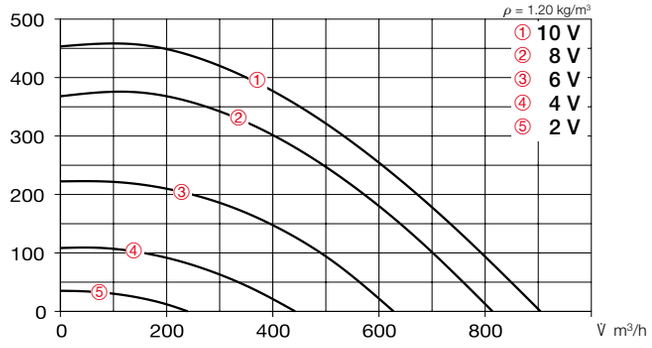
- **Casing**
  Extremely flat casing with sound-insulating, over 50 mm thick mineral wool lining and glass fibre surface. The acoustic box placed in front of the fan wheel significantly reduces the inlet-side noises. The radiated noises are reduced to a lesser extent (see noise data above the performance 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, IP54 (A), IP44 (B)																
SB EC 200 A	06138	200	900	2830	39	0.12	1.00	979	60	17	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SB EC 200 B	09626	200	970	2890	42	0.15	1.20	979	60	17	**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 200 A [3)]	03390	200	910	2780	49	0.12	1.02	979	60	8.1	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SVS EC 200 B	00019	200	1010	2880	52	0.15	1.22	979	60	8.3	**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.
[3)] Performance diagram at www.HeliosSelect.de.

Performance curves SB EC 200 A

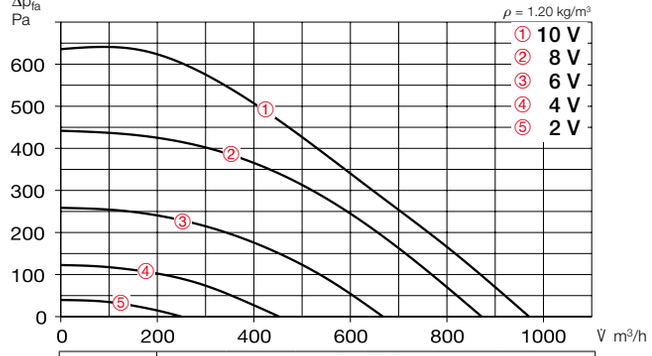
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	47	40	43	42	36	32	29	29
L_{WA}	Inlet side	dB(A)	63	60	58	54	46	45	44	42
L_{WA}	Outlet side	dB(A)	72	64	62	67	60	65	61	52



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2900	900	110	0.9	39	0.44
8	2620	810	80	0.7	38	0.35
6	2010	630	40	0.3	34	0.23
4	1390	440	20	0.2	30	0.16

Performance curves SB EC 200 B

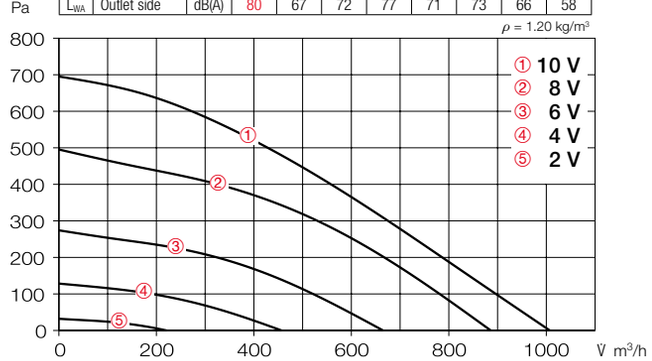
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	50	42	48	42	38	33	30	30
L_{WA}	Inlet side	dB(A)	66	62	62	55	46	45	42	38
L_{WA}	Outlet side	dB(A)	73	65	70	66	61	63	58	50



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2920	970	150	1.2	42	0.55
8	2550	870	100	0.8	40	0.41
6	1920	670	40	0.4	38	0.21
4	1280	450	20	0.2	29	0.16

Performance curves SVS EC 200 B

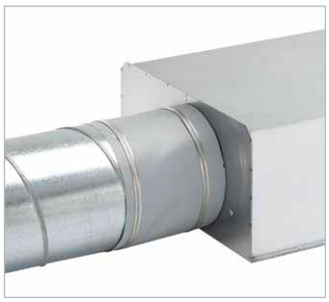
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	40	52	58	48	48	39	31
L_{WA}	Inlet side	dB(A)	69	63	65	61	55	54	53	45
L_{WA}	Outlet side	dB(A)	80	67	72	77	71	73	66	58



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2890	1010	150	1.18	52	0.53
8	2540	890	100	0.83	49	0.40
6	1900	665	45	0.39	42	0.24
4	1300	460	20	0.17	34	0.16

Accessories

Flexible connecting sleeve
FM 200 Ref. no. 01670
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 200 Ref. no. 00758
Made of plastic, light grey.

External wall cover grille
RAG 200 Ref. no. 00750
For placement in front of air inlet and outlet openings in facades.
Made of plastic, light grey.

Protection grille
SGR 200 Ref. no. 05066
For inlet and outlet side installation.
Made of galvanised steel.

Duct shutter
RSK 200 Ref. no. 05074
Automatic, made of metal.

Flexible cross talk silencer
FSD 200 Ref. no. 00679
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 200 Coarse 70%* 08579
LFBR 200 ePM1 50%* 08533
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 1.2/200 1.2 kW No. 09436
EHR-R 2/200 2.0 kW No. 09437
EHR-R 5/200 5.0 kW No. 08711
– with integrated temp. control
EHR-R 5/200 TR 5.0 kW No. 05295
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 200 Ref. no. 09482
Compact heat exchanger for installation in duct system.

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

* See product page 484 for detailed description.

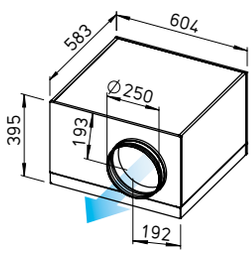
SB EC 250

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

SVS EC 250

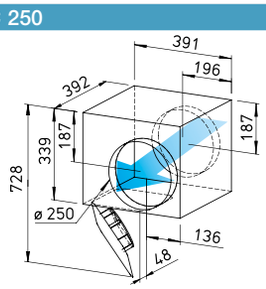
Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

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 the highest level of efficiency. Maintenance-free and radio interference-free, 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

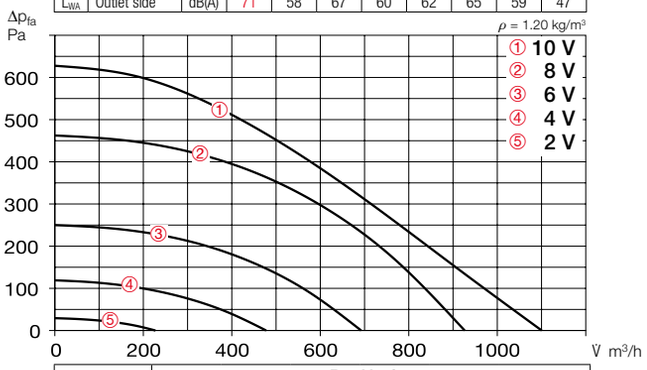
- **Casing**
  Extremely flat casing with sound-insulating, over 50 mm thick mineral wool lining and glass fibre surface. The acoustic box placed in front of the fan wheel significantly reduces the inlet-side noises. The radiated noises are reduced to a lesser extent (see noise data above the performance 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

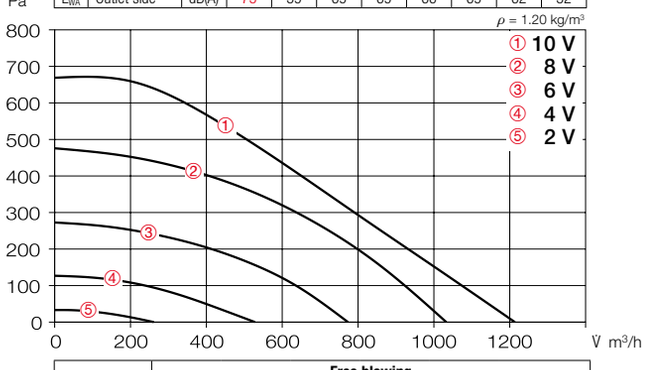
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	50	38	48	42	37	34	32	27
L_{WA}	Inlet side	dB(A)	62	54	56	46	50	49	47	38
L_{WA}	Outlet side	dB(A)	71	58	67	60	62	65	59	47



	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:

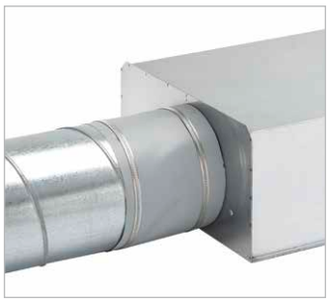
- ☐ Case-radiated sound power.
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

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	481 ff.
Temperature control systems for heating elements	487, 491 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	561 ff.
Disc valves	582 ff.
Universal control system, electronic controllers, speed potentiometer	613 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 484 for detailed description.

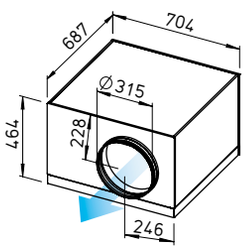
SB EC 315

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

SVS EC 315

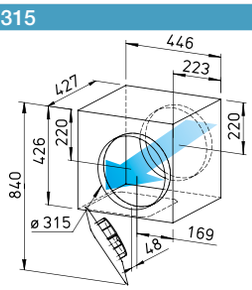
Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

Dimensions SB EC 315



Dim. in mm

Dimensions SVS EC 315



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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.
- **Noise**
  See page 417.

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 (aprx. 60 cm long).
- **Protection category**
  IP54 with connected duct system.

Description SlimVent SVS EC

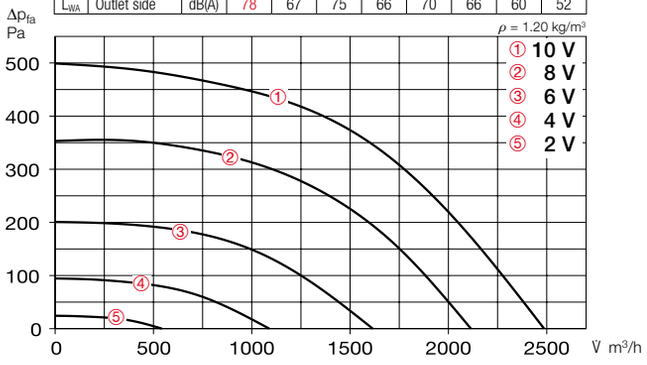
- **Casing**
  Extremely flat casing with sound-insulating, over 50 mm thick mineral wool lining and glass fibre surface. The acoustic box placed in front of the fan wheel significantly reduces the inlet-side noises. The radiated noises are reduced to a lesser extent (see noise data above the performance 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, IP54																
SB EC 315 A	06157	315	2490	1660	49	0.36	1.56	979	60	35	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SB EC 315 B	09628	315	3280	2210	53	0.85	3.73	979	60	38	**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 315 A	06126	315	1690	2330	50	0.21	1.66	979	60	16.5	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735
SVS EC 315 B [3)]	00667	315	1940	2880	52	0.32	2.29	979	60	16.1	**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.
[3)] Performance diagram at www.HeliosSelect.de.

Performance curves SB EC 315 A

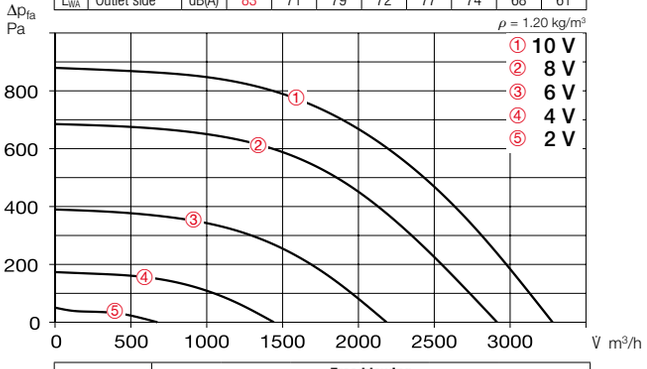
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	57	46	56	43	39	34	32	28
L_{WA}	Inlet side	dB(A)	70	62	68	49	45	49	45	39
L_{WA}	Outlet side	dB(A)	78	67	75	66	70	66	60	52



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1660	2490	310	1.4	49	0.45
8	1420	2120	200	0.9	46	0.34
6	1070	1620	100	0.5	39	0.22
4	730	1090	40	0.2	31	0.13

Performance curves SB EC 315 B

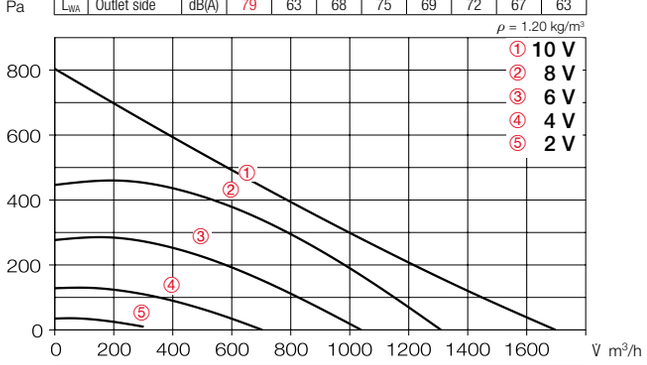
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	61	52	59	52	49	42	38	34
L_{WA}	Inlet side	dB(A)	73	67	70	58	53	58	53	47
L_{WA}	Outlet side	dB(A)	83	71	79	72	77	74	68	61



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2210	3280	740	3.3	53	0.81
8	1960	2910	520	2.3	51	0.64
6	1470	2190	230	1.0	47	0.38
4	980	1440	80	0.5	37	0.20

Performance curves SVS EC 315 A

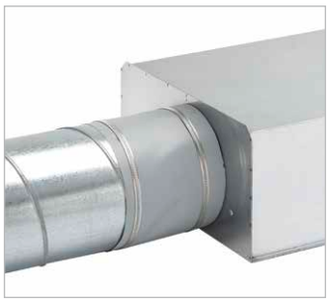
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	58	39	50	55	49	46	41	37
L_{WA}	Inlet side	dB(A)	68	60	63	55	58	60	58	52
L_{WA}	Outlet side	dB(A)	79	63	68	75	69	72	67	63



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2690	1700	210	1.7	50	0.44
8	2130	1310	110	0.88	48	0.30
6	1670	1040	55	0.47	42	0.19
4	1130	700	20	0.20	36	0.10

Accessories

Flexible connecting sleeve
FM 315 Ref. no. 01674
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 315 Ref. no. 00760
Automatic made of plastic, light grey.

External wall cover grille
RAG 315 Ref. no. 00752
For placement in front of air inlet and outlet openings in facades. Made of plastic, light grey.

Protection grille
SGR 315 Ref. no. 05068
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 315 Ref. no. 05674
Automatic, made of metal.

Flexible cross talk silencer
FSD 315 Ref. no. 00681
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 315 Coarse 70%* 08581
LFBR 315 ePM1 50%* 08535
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 6/315 6.0 kW No. 08713
– with integrated temp. control
EHR-R 6/315 TR 6.0 kW No. 05301
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 315 Ref. no. 09484
Compact heat exchanger for installation in duct system.

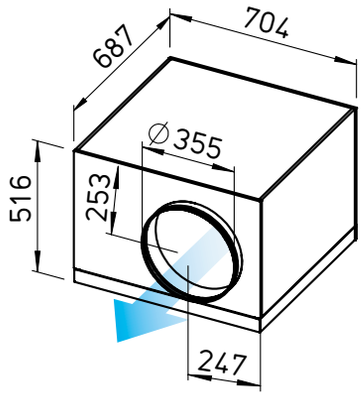
Temperature control system for warm water heating element
WHS HE Ref. no. 08319

* See product page 484 for detailed description.

SB EC 355

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

Dimensions SB EC 355



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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.

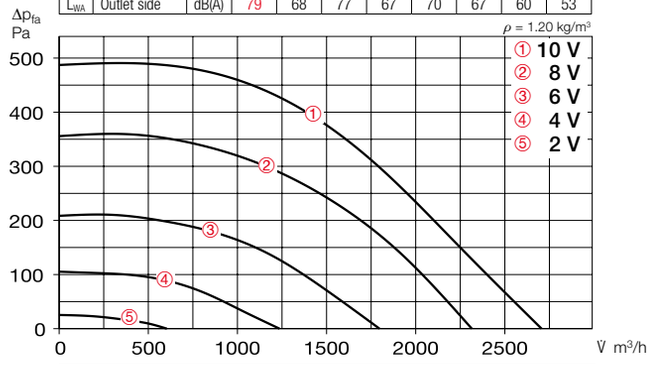
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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.		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 355	06139	355	2710	1630	53	0.36	1.56	979	60	38	**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 355

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	61	48	61	44	42	35	28	26
L_{WA}	Inlet side	dB(A)	72	65	70	50	48	49	45	41
L_{WA}	Outlet side	dB(A)	79	68	77	67	70	67	60	53

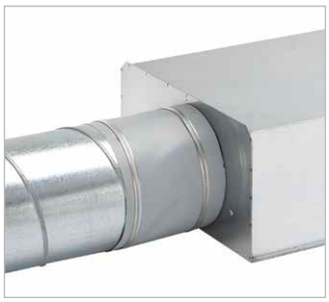


	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1650	2710	350	1.5	53	0.46
8	1410	2320	220	1.0	51	0.34
6	1060	1800	110	0.5	40	0.22
4	720	1240	40	0.2	30	0.12

Accessory details — Page

Accessories

Flexible connecting sleeve
FM 355 Ref. no. 01675
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 355 Ref. no. 00761
Automatic made of plastic, light grey.

External wall cover grille
RAG 355 Ref. no. 00753
For placement in front of air inlet and outlet openings in facades. Made of plastic, light grey.

Duct shutter
RSK 355 Ref. no. 05650
Automatic, made of metal.

Flexible cross talk silencer
FSD 355 Ref. no. 00682
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 355 Coarse 70%* 08583
LFBR 355 ePM1 50%* 08536
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 355 9.0 kW No. 08656
– with integrated temp. control
EHR-R 9/355 TR 9.0 kW No. 05297
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 355 Ref. no. 08790
Compact heat exchanger for installation in duct system.

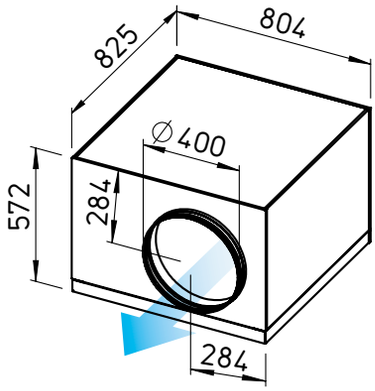
Temperature control system for warm water heating element
WHS HE Ref. no. 08319

* See product page 484 for detailed description.

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 the highest level of efficiency. Maintenance-free and radio interference-free, 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.

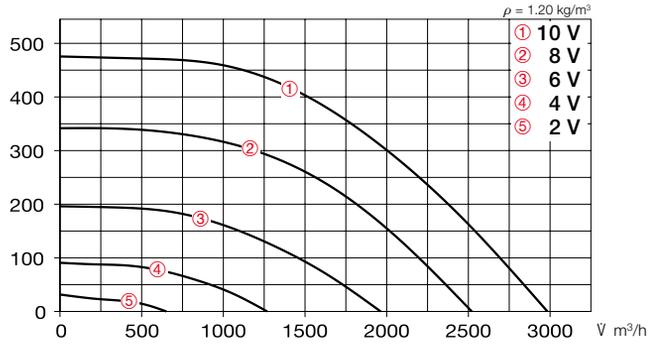
The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

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

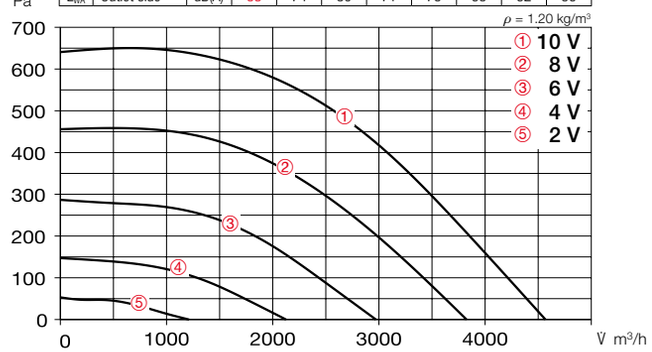
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	59	43	58	41	37	34	28	29
L_{WA}	Inlet side	dB(A)	68	59	67	50	50	51	46	45
L_{WA}	Outlet side	dB(A)	77	63	73	65	71	66	58	58



	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

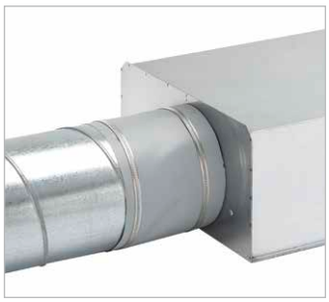


	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1510	4570	710	3.1	58	0.56
8	1270	3830	430	1.9	54	0.40
6	980	2970	210	0.9	46	0.25
4	700	2130	90	0.4	37	0.15

Accessory details

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 484 for detailed description.

SB 125

Efficiency class

D SB + accessories*

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

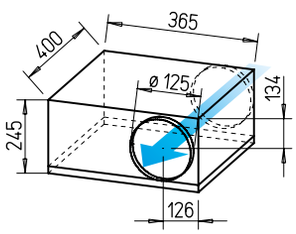
SVS 125

Efficiency class

C SVS + accessories*

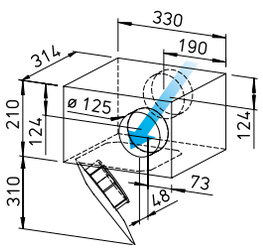
Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

Dimensions SB 125



Dim. in mm

Dimensions SVS 125



Dim. in mm

Common features SB and SVS

Installation
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVS must not be installed with the retractable motor-impeller unit upward).

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

Description SilentBox

Casing
Designed as a silencer. Equipped with abrasion-resistant, sound-absorbing mineral fibre boards (50 mm). Removable cover with locking clamp. Freely accessible fan and casing spiral. Retractable motor and impeller. Inlet and outlet side connectors with rubber lip seal corresponds to standard duct Ø. All parts made of galvanised steel sheet.

Impeller
Low-noise forward curved impeller in aerodynamically optimised volute casing, made of galvanised steel sheet. Inlet via nozzle.

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

Motor protection
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

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

Protection category
IP44

Description SlimVent SVS

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. Dynamically balanced for low-noise operation.

Electrical connection
Terminal box (IP54) mounted to external cable.

Motor protection
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Power control
From 0 – 100 % possible using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).

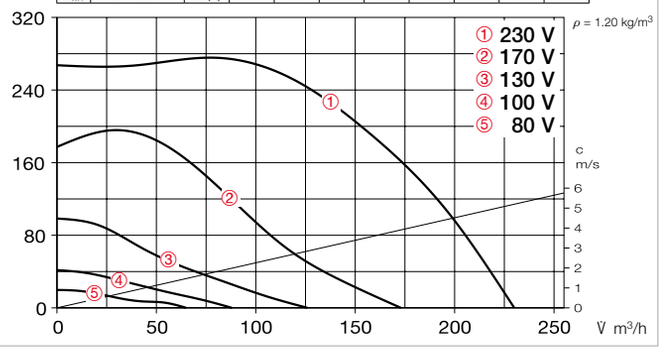
DS 2/2 Ref. no. 01267

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 Type	Ref. no.	Electronic[2] Speed control., cont. var. flush-mount. / surf-mount. Type	Ref. no.
		V̇ m³/h	min⁻¹	db(A) in 1m	W	A	A	No.	+ °C	+ °C	kg				
Type SB, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
SB 125 A	09506	230	1130	28	61	0.27	0.27	508	80	80	12.0	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
SB 125 C	09562	440	1850	37	122	0.53	0.53	508	65	65	12.0	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
Type SVS, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SVS 125 B	00130	400/270 [1]	2570/1710 [1]	45/36 [1]	61/45 [1]	0.27/0.20 [1]	0.26 [1]	934.1	60	60	5.9	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Values refer to the two performance levels (see performance diagram). [2] 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.

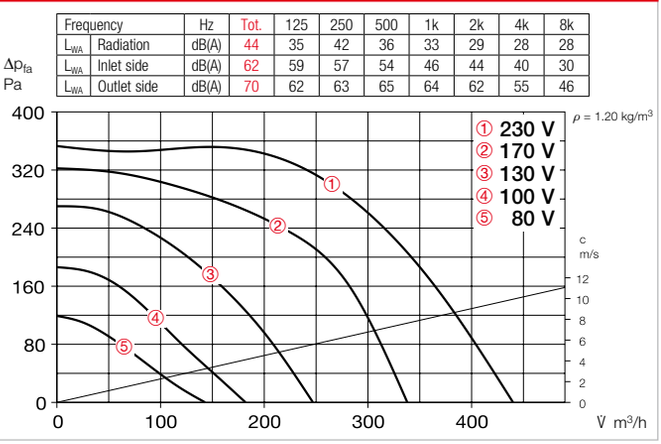
Performance curves SB 125 A

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	35	28	28	27	27	25	26	27
L_{WA}	Inlet side	dB(A)	53	51	48	43	38	33	29	17
L_{WA}	Outlet side	dB(A)	61	53	54	55	56	50	43	30



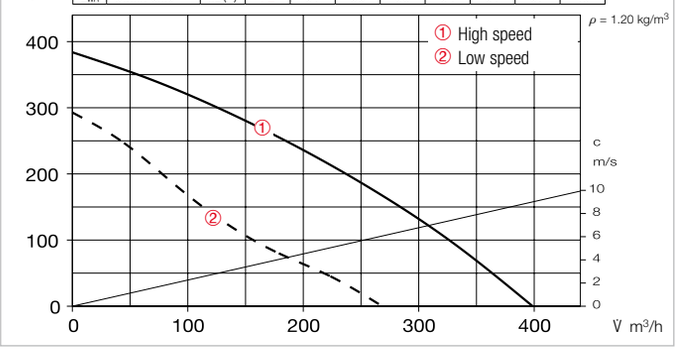
Performance curves SB 125 C

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	44	35	42	36	33	29	28	28
L_{WA}	Inlet side	dB(A)	62	59	57	54	46	44	40	30
L_{WA}	Outlet side	dB(A)	70	62	63	65	64	62	55	46



Performance curves SVS 125 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	54	38	48	51	43	39	33	30
L_{WA}	Inlet side	dB(A)	63	58	60	53	44	44	43	36
L_{WA}	Outlet side	dB(A)	72	61	65	68	64	61	57	49



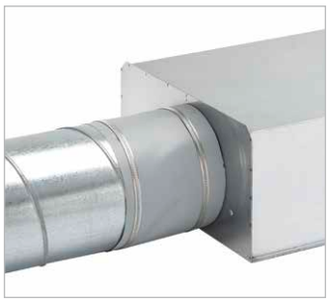
Protection category
IP44 with connected duct system.

Noise
The total level and range are specified above the performance diagram for
- ☐ Case-radiated sound power.
- ☐ Inlet/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

Accessories

Flexible connecting sleeve
FM 125 Ref. no. 01682
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 125 Ref. no. 00857
Automatic made of plastic, white.

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

Protection grille
SGR 125 Ref. no. 05064
For inlet and outlet side installation. Made of powder-coated steel wire.

Duct shutter
RSKK 125 Ref. no. 05107
Automatic, made of plastic.

Flexible cross talk silencer
FSD 125 Ref. no. 00677
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 125 Coarse 70%* 08577
LFBR 125 ePM1 50%* 08531
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 0.8/125 0.8 kW No. 08709
EHR-R 1.2/125 1.2 kW No. 09433
– with integrated temp. control
EHR-R 0.8/125 TR 0.8 kW No. 05293
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 125 Ref. no. 09480
Compact heat exchanger for installation in duct system.

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

* See product page 484 for detailed description.

SB 160

Efficiency class

D SB + accessories*

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

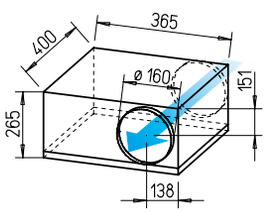
SVS 160

Efficiency class

C SVS 160 L + accessories*

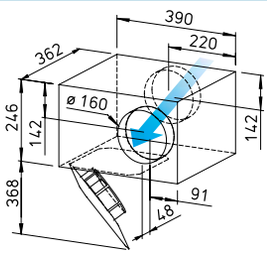
Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

Dimensions SB 160



Dim. in mm

Dimensions SVS 160



Dim. in mm

Common features SB and SVS

- **Installation see page** 424.
- **Motor see page** 424.
- **Noise see page** 425.

Description SilentBox

- **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**
  Low-noise forward curved impeller in aerodynamically optimised volute casing, made of galvanised steel sheet. Inlet via nozzle.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable (aprx. 60 cm long).
- **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).
- **Protection category**
  IP44

Description SlimVent SVS

- **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. Dynamically balanced for low-noise operation.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable.
- **Motor protection**
  Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.
- **Power control**
  From 0 – 100 % possible using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).

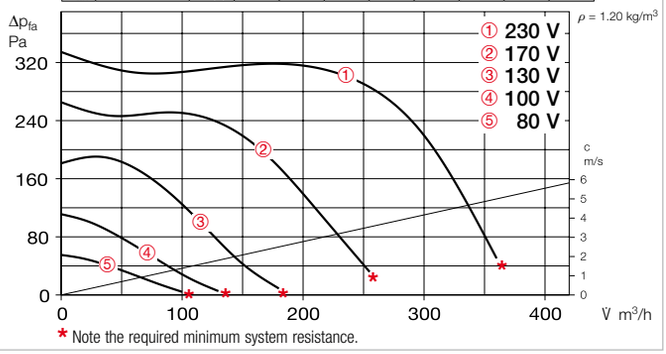
  DS 2/2 Ref. no. 01267
- **Protection category**
  IP44 with connected duct system.

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 Type	Ref. no.	Electronic[2] Speed controll., cont. var. flush-mount. / surf-mount. Type	Ref. no.
		V̇ m³/h	min⁻¹	db(A) in 1m	W	A	A	No.	+ °C	+ °C	kg				
Type SB, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44 (B), IP33 (D)															
SB 160 B	09508	360	1650	36	105	0.46	0.46	508	65	65	13.0	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
SB 160 D	09563	580	2220	43	164	0.72	0.72	508	60	60	10.3	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
Type SVS, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SVS 160 K	00131	440/300 [1]	2560/1730 [1]	44/35 [1]	61/45 [1]	0.26/0.20 [1]	0.26 [1]	934.1	60	60	7.6	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
SVS 160 L	02653	670/390 [1]	2520/1530 [1]	50/39 [1]	108/69 [1]	0.47/0.30 [1]	0.45 [1]	934.1	60	60	7.8	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Values refer to the two performance levels (see performance diagram). [2] 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 160 B

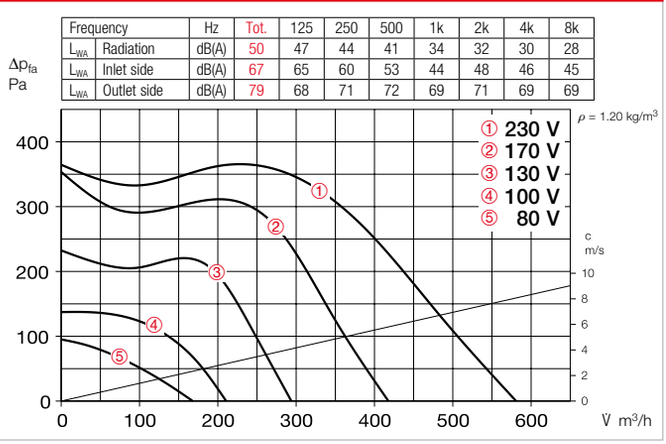
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	43	40	39	34	32	28	27	27
L_{WA}	Inlet side	dB(A)	61	59	56	50	44	39	35	26
L_{WA}	Outlet side	dB(A)	68	61	61	62	61	58	53	44



* Note the required minimum system resistance.

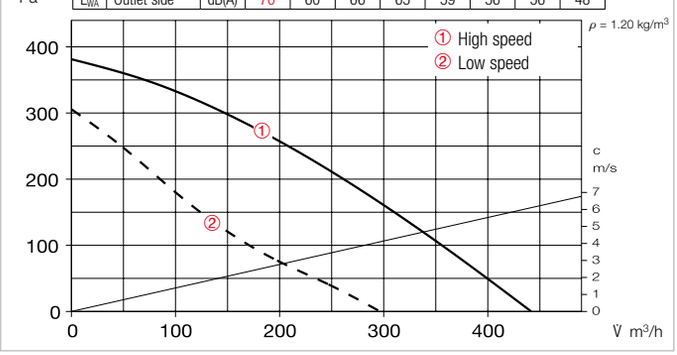
Performance curves SB 160 D

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	50	47	44	41	34	32	30	28
L_{WA}	Inlet side	dB(A)	67	65	60	53	44	48	46	45
L_{WA}	Outlet side	dB(A)	79	68	71	72	69	71	69	69



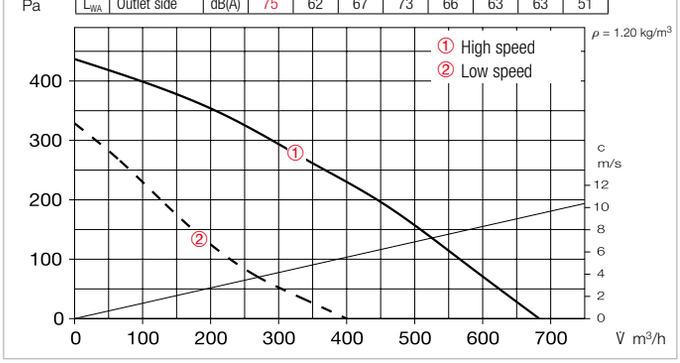
Performance curves SVS 160 K

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	52	38	47	50	40	37	32	31
L_{WA}	Inlet side	dB(A)	63	58	61	50	40	45	44	38
L_{WA}	Outlet side	dB(A)	70	60	66	65	59	56	56	48



Performance curves SVS 160 L

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	58	40	53	55	46	44	38	31
L_{WA}	Inlet side	dB(A)	66	60	64	58	50	47	48	35
L_{WA}	Outlet side	dB(A)	75	62	67	73	66	63	63	51



Accessories

Flexible connecting sleeve
FM 160 Ref. no. 01684
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 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 No. 08817

* See product page 484 for detailed description.

SB 200

Efficiency class

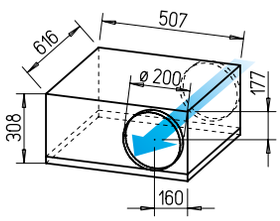
B SB 200 C + accessories*

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

SVS 200

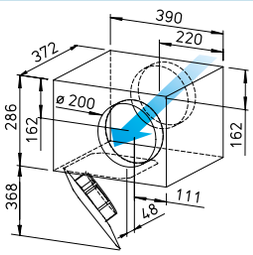
Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

Dimensions SB 200



Dim. in mm

Dimensions SVS 200



Dim. in mm

Common features SB and SVS

- **Installation**
  No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVS must not be installed with the retractable motor-impeller unit upward).
- **Motor**
  Enclosed, ball bearing mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance-free and radio interference-free.

Description SilentBox

- **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 made of high-quality plastic. Inlet via nozzle.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable (aprx. 60 cm long).
- **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).
- **Protection category**
  IP44.

Description SlimVent SVS

- **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. Dynamically balanced for low-noise operation.
- **Electrical connection**
  Terminal box (IP54) mounted to external cable.
- **Motor protection**
  Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.
- **Power control**
  From 0 – 100 % using electronic controller or step transformer (see table).
- **Protection category**
  IP44 with connected duct system.

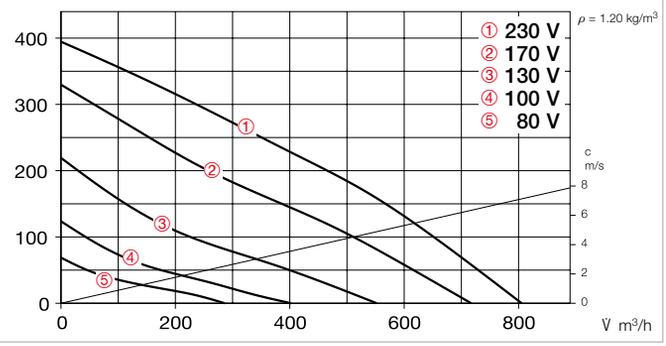
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case radiation	Power consum.	Power consump. at rated voltage	Power consump. with control	Wiring diagram	Max air flow temp. at rated voltage	Max air flow temp. with control	Wgt net aprx.	Transformer speed controller 5-step	Ref. no.	Electronic[1] 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, SB, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SB 200 C	09510	810	2520	44	105	0.46	0.46	508	70	70	19.0	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
SB 200 D	09564	1030	2700	48	160	0.69	0.83	508	70	50	19.7	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
Type SVS, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SVS 200 K	00132	940	2710	55	163	0.71	0.83	508	70	50	9.2	**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.

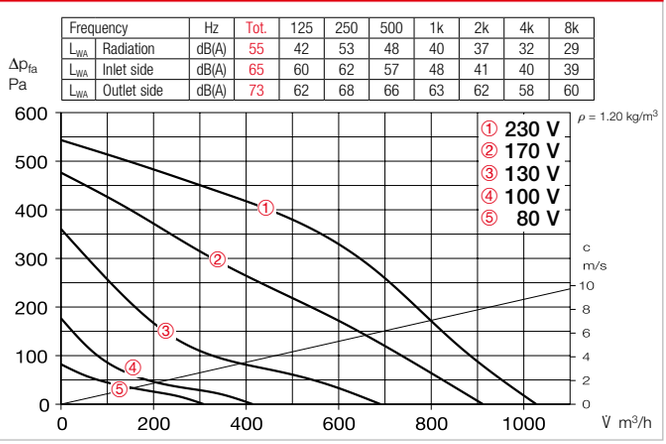
Performance curves SB 200 C

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	51	37	51	40	36	36	29	28
L_{WA}	Inlet side	dB(A)	62	58	58	49	42	41	38	33
L_{WA}	Outlet side	dB(A)	69	59	65	61	57	60	56	49



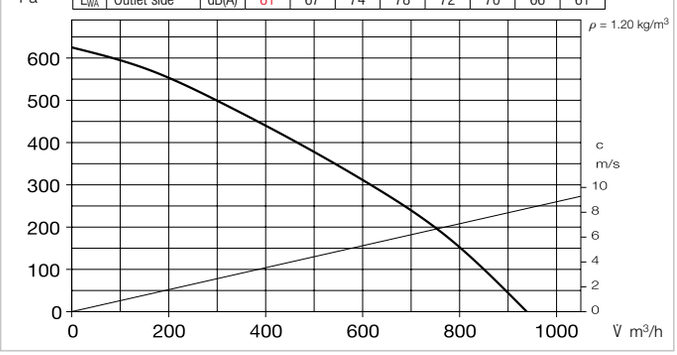
Performance curves SB 200 D

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	55	42	53	48	40	37	32	29
L_{WA}	Inlet side	dB(A)	65	60	62	57	48	41	40	39
L_{WA}	Outlet side	dB(A)	73	62	68	66	63	62	58	60



Performance curves SVS 200 K

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	63	45	55	61	50	45	38	35
L_{WA}	Inlet side	dB(A)	71	65	67	61	54	49	49	46
L_{WA}	Outlet side	dB(A)	81	67	74	78	72	70	66	61



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	481 ff.
Temperature control systems for heating elements	487, 491 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	561 ff.
Disc valves	582 ff.
Universal control system, electronic controllers, speed potentiometer	613 ff.

References	Page
Techn. description	360
Selection table	361
Planning information	14 ff.
Modular system	358

Accessories

Flexible connecting sleeve
FM 200 Ref. no. 01670
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 200 Ref. no. 00758
Automatic made of plastic, light grey.

External wall cover grille
RAG 200 Ref. no. 00750
For placement in front of air inlet and outlet openings in facades. Made of plastic, light grey.

Protection grille
SGR 200 Ref. no. 05066
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 200 Ref. no. 05074
Automatic, made of metal.

Flexible cross talk silencer
FSD 200 Ref. no. 00679
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 200 Coarse 70%* 08579
LFBR 200 ePM1 50%* 08533
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 1.2/200 1.2 kW No. 09436
EHR-R 2/200 2.0 kW No. 09437
EHR-R 5/200 5.0 kW No. 08711
– with integrated temp. control
EHR-R 5/200 TR 5.0 kW No. 05295
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 200 Ref. no. 09482
Compact heat exchanger for installation in duct system.

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

* See product page 484 for detailed description.

SB 250 C

Efficiency class

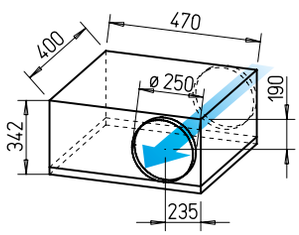
C SB + accessories*

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

SB 250 E

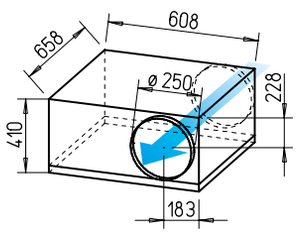
Lowest installation height. Ideal for limited installation spaces. With sound-insulating mineral wool lining for particularly low-noise operation.

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, maintenance-free and radio interference-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	360
Selection table	361
Planning information	14 ff.
Modular system	358

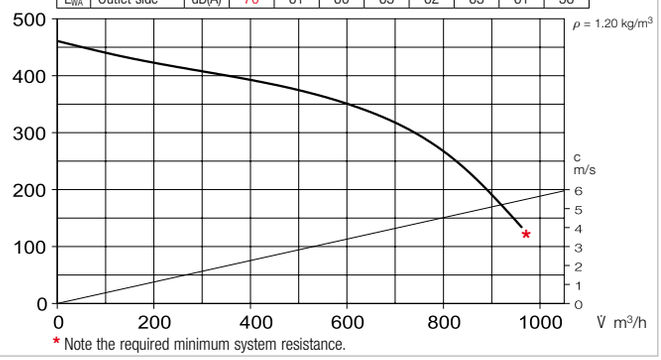
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case radiation	Power consum.	Power consump. at rated voltage	Power consump. with control	Wiring diagram	Max air flow temp. at rated voltage	Max air flow temp. with control	Wgt net aprx.	Transformer speed controller 5-step Type	Ref. no.	Electronic[1] Speed controll., cont. var. flush-mount. / surf-mount. Type	Ref. no.
		V̇ m³/h	min⁻¹	db(A) in 1m	W	A	A	No.	+ °C	+ °C	kg				
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

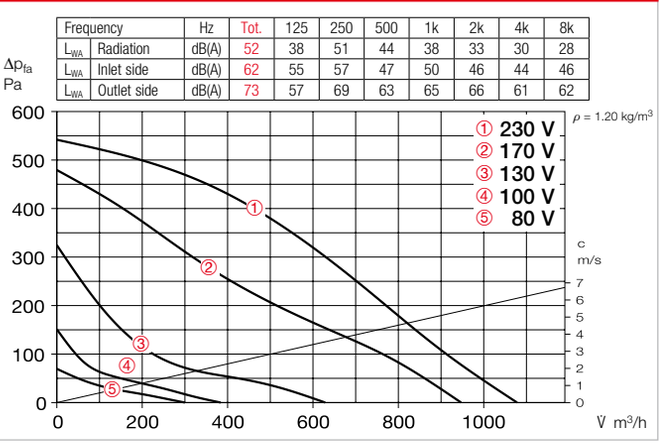
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	47	38	45	39	34	36	35	36
L_{WA}	Inlet side	dB(A)	63	59	58	55	50	47	46	44
L_{WA}	Outlet side	dB(A)	70	61	60	63	62	63	61	58



* Note the required minimum system resistance.

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

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.

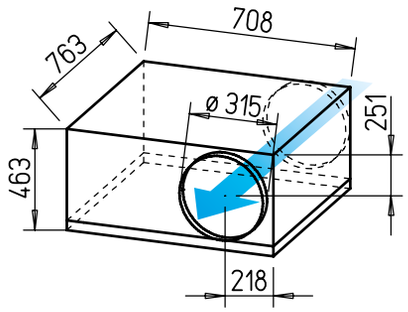
Temperature control system for warm water heating element
WHS HE Ref. no. 08319

* See product page 484 for detailed description.

SBD 315

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

Dimensions SBD 315



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.
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.

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

Motor protection
With external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker (see type table).

Power control
Possible through voltage reduction using 5-step transformer or electronic (continuously variable).

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

Protection category
IP54.

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

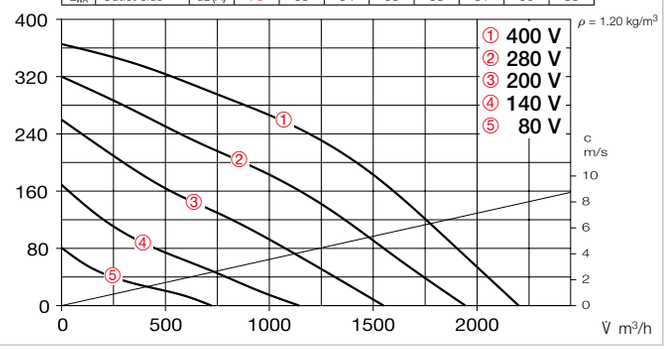
Noise
The total level and range are specified above the performance diagram for
- ☐ Case-radiated sound power
- ☐ Inlet/outlet side sound power in dB(A).
- ☐ The case-radiated noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

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	Weight net approx.	Speed controller 5-step without motor prot. circ. breaker	Ref. no.	Speed controller 5-step with motor prot. circ. breaker	Ref. no.
		V̇ m³/h	min⁻¹	db(A) in 1m	W	A	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Type SBD, Three-phase current motor, 230/400 V, 50 Hz, IP54															
SBD 315 A	09718	2200	1350	47	215	0.73/0.42	0.44	860	60	60	46.0	**TSD 0.8**[1]	01500	**RDS 1**	01314

1) Motor protection circuit breaker required, Type MD, No. 05849, see accessories.

Performance curves SBD 315 A

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	54	51	51	37	36	31	29	28
L_{WA}	Inlet side	dB(A)	64	62	57	41	35	35	32	29
L_{WA}	Outlet side	dB(A)	70	68	64	53	53	51	50	38



Accessory details	Page
Filters, heating elements and silencers	481 ff.
Temperature control systems for heating elements	487, 491 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	561 ff.
Disc valves	582 ff.
Universal control system, electronic controllers, speed potentiometer	613 ff.

Accessories

Flexible connecting sleeve
FM 315 Ref. no. 01674
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 315 Ref. no. 00760
Automatic made of plastic, light grey.

External wall cover grille
RAG 315 Ref. no. 00752
For placement in front of air inlet and outlet openings in facades. Made of plastic, light grey.

Protection grille
SGR 315 Ref. no. 05068
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 315 Ref. no. 05674
Automatic, made of metal.

Flexible cross talk silencer
FSD 315 Ref. no. 00681
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Air filter box
LFBR 315 Coarse 70%* 08581
LFBR 315 ePM1 50%* 08535
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 6/315 6.0 kW No. 08713
– with integrated temp. control
EHR-R 6/315 TR 6.0 kW No. 05301
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 315 Ref. no. 09484
Compact heat exchanger for installation in duct system.

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

* See product page 484 for detailed description.