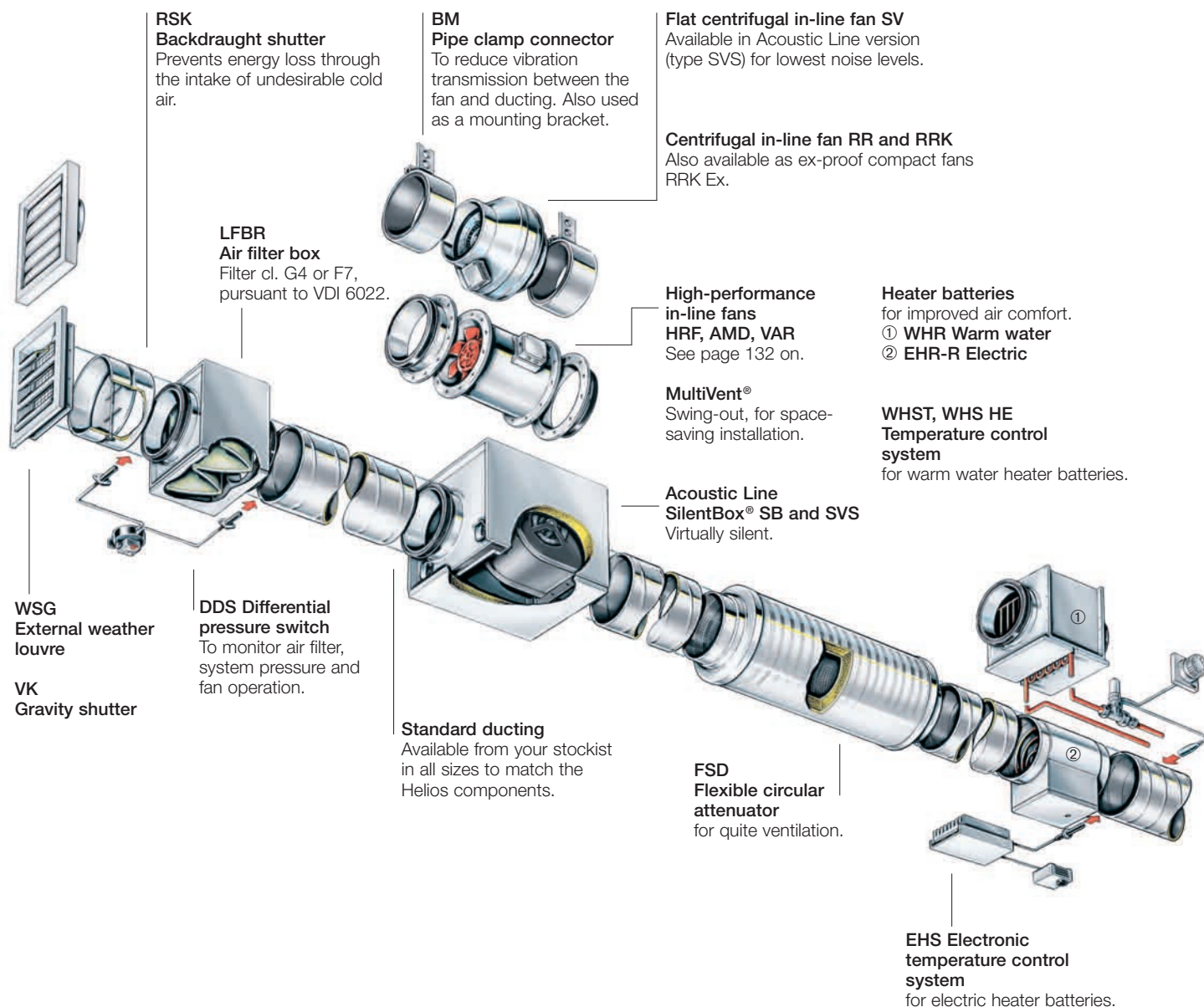


## Perfectly coordinated system solutions from the leading supplier.

- The components are available in every size and every performance level.
- All the components are compatible with each other and fit exactly together.
- Short installation time, simple system planning and rational procurement.



EX-PROOF  
COMPACT FANS  
RRK Ex e II 2G, 230 V~



316

CENTRIFUGAL  
IN-LINE FANS  
Product-specific information  
Selection chart

296

MULTIVENT® MV  
in-line fans



Compact in-line fans for space-saving installation in the ducting system.

Optional 5 types from ND 125 – 315 with highly-efficient EC motors for lowest operating costs.

298<sup>on</sup>

INLINEVENT®  
RR, RRK, SVR  
in-line fans



**RR, RRK:** Available in galvansied sheet steel or corrosion-resistant polymer casing.  
**SlimVent:** Ultra-flat, with swing-out motor-impeller unit.

Optional 14 types from ND 100 – 315 with highly-efficient EC motors for lowest operating costs.

318<sup>on</sup>

ACOUSTIC LINE SB, SVS,  
SilentBox® and SlimVent®  
Sound-insulated  
in-line fans



Virtually silent with high volume and pressure performance. SlimVent models for spatially restricted installation situations.

Optional 18 types from ND 125 – 400 with highly-efficient EC motors for lowest operating costs.

342<sup>on</sup>

## ■ Features

InlineVent® and MultiVent® in-line fans have the benefits of the axial construction design and straight-line flow pattern, simple and easy installation and have the performance characteristics of high-performance centrifugal fans. There are strong reasons to choose these devices:

- Low space requirements.
- Unlimited adjustability.
- Low installation effort.
- Cost-effective installation.
- Low noise.
- High pressure reserves.

## ■ Structural form – Overview

### ■ MultiVent® MV

High-pressures and volumes with the space-saving dimensions. Universally suited to all types of rooms at 190 to 1820 m³/h and over 800 Pa. 19 types of standard diameter from 100 to 250 mm in single-level and two-level and parallel design.

#### □ MV EC

Optional 5 types of standard diameter 125 – 315 with highly efficient EC motors for minimum operating costs.

### ■ RR

Market-leading solution with excellent price/performance ratio. Centrifugal in-line fans with low to medium power with standard diameters from 100 to 315 mm. Robust galvanised sheet steel casing.

#### □ RR EC

Optional 9 types of standard diameter 100 – 315 with highly efficient EC motors for minimum operating costs.

### ■ RRK

Alternative with corrosion-resistant and impact-resistant polymer casing in standard diameters from 100 to 315 mm.

### ■ SVV, SVR

Compact flat in-line fans from 80 to 200 mm. With energy-efficient centrifugal impellers to convey small to larger air flow volumes.

#### □ SVR EC

Optional 5 types of standard diameter 100 – 200 with highly efficient EC motors for minimum operating costs.

### ■ RRK Ex

Explosion-protected small fans for 230 V, 1 ph. alternating current. Particularly suited to ventilation of chemical and pharmaceutical laboratories, workshops, etc. To be fitted in the ducting, licensed for operation in zones 1, 2 and 11 according to DIN EN 60079/VDE 0165.

### ■ Acoustic Line SB

Helios SilentBox®, the almost silent solution for high-performance centrifugal fans with duct connection in standard diameters 125 to 400 mm.

#### □ SB EC

Optional 12 types of standard diameter 125 to 400 mm with highly efficient EC motors for minimum operating costs.

### ■ Acoustic Line SVS

Completely lined with sound-absorbing mineral wool. Extremely compact design. Ideal for suspended ceilings, with duct connection in standard diameters 125 to 200 mm.

#### □ SVS EC

Optional 6 types of standard diameter 125 – 315 with highly efficient EC motors for minimum operating costs.

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

### □ Installation position, mounting and condensation outlets

All ranges (excluding SVR, SVS) can be fitted in any location. In the SV range, the pivoting range is to be kept free and unobstructed access for inspection and cleaning must be ensured. Where there is condensate water (e.g. intermittent operation, medium conveyed volume with high moisture content and changing temperatures), the system must be fitted such that condensate can run off downwards unobstructed. Corresponding drill holes may need to be made in the fan casing. In the RR types, condensate drain openings are fitted in the impeller disc and the motor casing. If necessary, the ducting is to be insulated such that no condensation forms.

### □ Transfer of structure-born sound

to the ducting and building must be prevented. To this end, the fan must not be rigidly connected to the ducting. Suitable support brackets are available as accessories.

### □ Explosion-protected types

Reference is made to the statements within the "Instructions for project planning regarding explosion protection" section with regard to the conditions of use and standard. Type RRK Ex models with explosion protection are in line with equipment group II, category 2G for operation in zone 1 and 2 in accordance with Directive 2014/34/EU (ATEX).

### □ Motor, impeller

External rotor motors with degree of protection IP 44 located in the air flow are used in all construction designs. They are compliant with DIN EN 60034/VDE 0530 and DIN EN 60335-1/VDE 0700 and are equipped with additional moisture and damp protection in ISO class F. The EC types are equipped with particularly energy-saving EC external rotor motors with controllable speed. They are low-maintenance, interference-free and suitable for continuous operation (S1). The ball bearings have a sufficient supply of grease for their lifetime. The centrifugal impellers are pressed on the motor body, i.e. they are firmly connected to the motor and are

dynamically balanced as a single unit in accordance with DIN ISO 1940 T.1 – grade 6.3.

### □ Speed control

All InlineVent®, MultiVent® and Acoustic Line AC standard types can be regulated in terms of power from 0 to 100% by reducing the voltage. This means that the power can be set to the desired volume. The speed controllers on offer can operate one or more AC fans (until the maximum nominal current is reached). A 10% reserve is to be included in the sizing. Type SVV 80 can also be controlled using three-level switching and types SVR, SVS and RR using two-level switching. In all MultiVent® types (excluding MV EC 315), it is possible to regulate the system through two-level switching, while the AC standard types also have five-level transformer regulation. All EC types (excluding EC 125 to 250) can be steplessly controlled using a speed potentiometer. Furthermore, regulation with three-level switches or stepless regulation is possible using a universal control system or electronic differential pressure/temperature controller. Sample power levels are shown in the characteristic curve.

### □ Airflow direction

The airflow direction cannot be changed for centrifugal fans, however, it can be defined in all devices according to the how the device is installed. The correct direction of motor rotation and airflow is marked by arrows and is to be checked upon commissioning.

### □ Incorrect direction of rotation

Operating the device in an incorrect direction of rotation overloads the AC motor and trips the thermal contacts. Typical concomitant features for this are the practical lack of air flow capacity, vibration and abnormal noise.

### □ Air flow temperature

All devices can be used in the range of –40 °C to at least +40 °C. The upper limit is type-specific and is shown in the table on the product page.

## ■ Note

The integration of F7 air filters and differential pressure switches DDS (Ref. no. 0445) in outside air systems fulfils the requirements of VDI 6022.

## ■ Information

## Page

Information for planning, Acoustics, explos. protect. 10 on General techn. information, speed control 15 on

This chart enables the easy selection of in-line fans by combining the parameters of static pressure increase  $\Delta p_{\text{ta}}$ , case breakout and intake air

noise as sound pressure in 1 m (free field conditions).

	Sound press. case breakout	Sound press. intake	Air flow volume $\dot{V} \text{ m}^3/\text{h}$ depending on static pressure												
Type	$L_{\text{PA}}$ dB(A)	$L_{\text{PA}}$ dB(A)	$(\Delta p_{\text{ta}})$ in Pa												
	in 1 m	in 1 m	0	50	100	150	200	250	300	350	400	500	600	700	800
MV EC 125	42	54	360	285	200	130	80	35							
MV EC 160	47	61	570	495	430	355	270	210	150	90	28				
MV EC 200	51	62	1000	840	710	575	370	95							
MV EC 250	50	65	1150	960	805	690	550	425	320	220	160				
MV EC 315	54	68	2050	1930	1810	1670	1520	1350	1150	930	710	190			
RR EC 100	45	72	360	340	320	300	280	260	230	200	170	100	20		
RR EC 125	45	71	540	490	460	420	380	340	300	250	220	110			
RR EC 160	39	67	680	650	610	570	520	480	430	380	330	220			
RR EC 200 A	45	67	950	900	840	790	730	650	570	480	350				
RR EC 200 B	46	71	1130	1075	1020	960	900	840	780	720	715	440			
RR EC 250 A	43	67	970	910	840	780	700	630	550	430					
RR EC 250 B	45	73	1160	1100	1030	960	890	835	760	675	600	454			
RR EC 315 A	47	72	1300	1210	1140	1035	940	845	750	660	555	365			
RR EC 315 B	51	70	1850	1690	1540	1420	1290	1190	1070	980	880	660	440	200	
SB EC 125 A	43	58	530	500	480	460	430	410	380	350	310	140			
SB EC 125 B	45	53	600	580	560	540	510	480	440	410	380	330	270	220	130
SB EC 160 A	41	57	540	520	490	470	450	430	400	380	350	90			
SB EC 160 B	45	56	670	650	610	580	540	500	470	440	410	360	300	240	150
SB EC 200 A	45	58	910	860	800	740	680	600	520	430	330	70			
SB EC 200 B	50	61	1160	1100	1030	940	860	780	680	590	490	310	160		
SB EC 250	50	61	1250	1160	1070	970	870	760	670	560	450	250	70		
SB EC 315 A	55	65	2160	2060	1970	1860	1750	1640	1510	1360	1190	790			
SB EC 315 B	51	61	2640	2520	2400	2270	2100	1930	1730	1450	1120				
SB EC 355	51	62	2670	2560	2420	2280	2110	1940	1740	1470	1130				
SB EC 400 A	53	65	3000	2860	2730	2590	2410	2210	2000	1680	1260				
SB EC 400 B	56	65	4760	4540	4330	4090	3870	3630	3340	3060	2750	2000	1000		
SVR EC 100	56	70	420	400	380	370	350	320	310	280	260	220	160	20	
SVR EC 125	57	70	580	560	530	500	470	440	410	380	340	270	190		
SVR EC 160 A	57	70	640	610	570	540	500	470	440	410	380	310	240	60	
SVR EC 160 B	57	71	820	770	730	690	650	610	560	520	470	360	250	110	
SVR EC 200	55	71	1030	970	910	860	800	750	690	630	580	460	330	190	20
SVS EC 125	54	61	590	550	510	480	450	420	390	360	320	260	170		
SVS EC 160 A	55	62	620	600	570	530	490	460	420	380	350	280	200		
SVS EC 160 B	55	64	800	760	720	670	630	580	530	470	420	310	200	70	
SVS EC 200	55	64	1030	970	910	860	800	740	670	600	530	400	280	170	20
SVS EC 250	52	64	1250	1170	1080	1000	900	810	700	590	510	370	250	120	
SVS EC 315	51	65	1630	1520	1390	1290	1180	1070	960	860	750	510	300	100	
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	930	860	790	730	630	520	390	270	140				
RR 200 B	44	66	980	940	890	830	760	690	610	520	410	120			
RR 250 A	47	67	930	850	760	690	600	490	390	260					
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	45	54	230	180	130	100	70	30							
RRK 125	48	54	330	290	260	220	170	110	30						
RRK 160	46	61	440	390	340	300	250	180	70						
RRK 200	56	66	770	700	620	540	440	340	210	80					
RRK 250	53	61	830	760	690	600	510	390	260	100					
RRK 315	48	72	1080	1040	980	920	900	780	720	640	560	340			
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® in-line fans. As thin as the ducting system.

### SPACE-SAVING



With a volume of 190 to 1820 m³/h and pressure of over 800 Pa (given a two-level configuration), Helios MultiVent® is suitable for ventilation of small to medium-sized rooms of all kinds.

Its specific advantage is its small size. The casing diameter is only slightly bigger than the ventilation duct. It can be installed in any location – horizontally, vertically or diagonally.

### ROTATES AS REQUIRED



The installation of Helios MultiVent® is space-saving as it fits directly in the ducting. It is ideal in areas where it gets narrow, e.g. under suspended ceilings.

The casing and integrated bracket can be fitted in any location and the fan unit with the terminal box can be rotated as required. The fan unit is easy to remove by loosening the clamps.

### FREELY ACCESSIBLE



This device design guarantees the simplest possible installation in the ducting and unproblematic maintenance and cleaning where necessary. The concept satisfies the requirements of VDI 6022. The energy-saving capacitor motors (degree of protection IP 44) are equipped with ball bearings for 30.000 operating hours and fully closed. This means that they can even be used when air is contaminated and contains dust.



In-line  
fans

Energy-efficient  
EC version

Ø 125 – 315 mm  
V = 360 – 2050 m³/h

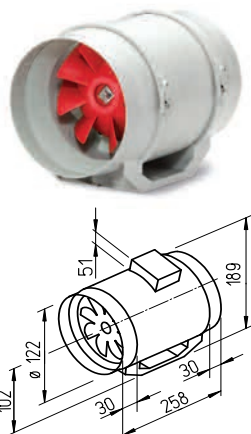
**300<sup>on</sup>**

Standard AC types  
available in two-speed  
or parallel design  
Ø 100 – 250 mm  
V = 190 – 1820 m³/h

**304<sup>on</sup>**

**MV EC**

Swing-out EC in-line fan for space-saving installation in ducting.



Dim. in mm



**Energy-saving EC in-line fan with high pressure and volumetric performance with space-saving dimensions.**

Specifically made for in-duct installation. Diverse applications in commercial, industrial and residential areas.

**■ Special features**

- ☐ Highly efficient EC motor for lowest operating costs.
- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Two speeds as standard; 100% speed-controllable.
- ☐ Installation in any position.
- ☐ Longlife ball bearings, designed for 30.000 operating hours.
- ☐ simple maintenance and cleaning without dismantling the ducting system due to removable fan unit.
- ☐ Fan unit with terminal box can be rotated to any position.
- ☐ Integrated mounting bracket for simple wall and ceiling installation.

**■ Specification****□ Casing**

The fan unit can be removed from the casing with integrated mounting bracket by loosening the clamps. All components made from impact and corrosion resistant polymers. Colour: Light grey.

**□ Impeller**

Optimised for high pressure and volumetric performance, made from high quality polymers. Dynamically balanced for silent operation.

**□ Motor**

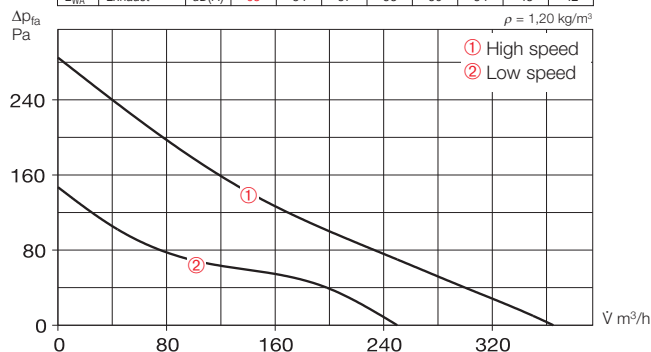
Energy-saving, speed-controllable EC external rotor motor protected to IP 44 with high efficiency level and humidity protection. Maintenance-free and interference-free, ball bearing mounted.

**□ Electrical connection**

Large terminal box (IP 44) on outside of casing; can be rotated to any position.

**MV EC 125**

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	50	27	44	45	46	40	36	32
L <sub>WA</sub> Intake	dB(A)	62	33	56	56	55	53	47	40
L <sub>WA</sub> Exhaust	dB(A)	63	34	57	58	59	54	48	42



Free discharge					
	n min <sup>-1</sup>	$\dot{V} \text{ m}^3/\text{h}$	P W	I A	Lp dB(A)
High speed	2040	365	15	0,13	42
Low speed	1600	250	9	0,09	37
					SFP kW/m²/s
					0,15
					0,13

**□ Motor protection**

Integrated electronic temperature monitoring for EC motor and electronics.

**□ Speed control**

Standard two-speed control with external operating switch MVB (accessory).

**□ Installation**

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

**■ Sound levels**

Sum levels and spectrum figures are indicated above characteristic curves for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

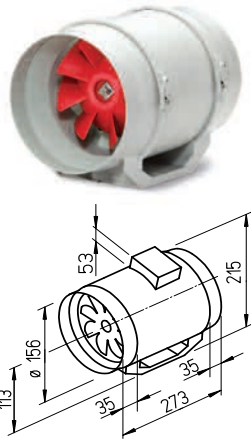
The sound pressure level at 1 m (free field conditions) can be seen in the table below and below the performance curve.

Accessory details	Page
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, Roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Operating switch	Type	Ref. no.
		mm	$\dot{V} \text{ m}^3/\text{h}$	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg			
<b>Single phase motor, 230 V, 50 Hz, EC motor</b>													
<b>MV EC 125</b>	6032	125	250/360	1600/2040	38/42	0.010/0.017	0.10/0.17	951	60	1.8	<b>MVB</b>	6091	

## MV EC

Swing-out EC in-line fan for space-saving installation in ducting.



Dim. in mm



**Energy-saving EC in-line fan with high pressure and volumetric performance with space-saving dimensions.**

Specifically made for in-duct installation. Diverse applications in commercial, industrial and residential areas.

### ■ Special features

- ☐ Highly efficient EC motor for lowest operating costs.
- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Two speeds as standard; 100% speed-controllable.
- ☐ Installation in any position.
- ☐ Longlife ball bearings, designed for 30.000 operating hours.
- ☐ Simple maintenance and cleaning without dismantling the ducting system due to removable fan unit.
- ☐ Fan unit with terminal box can be rotated to any position.
- ☐ Integrated mounting bracket for simple wall and ceiling installation.

### ■ Specification

#### ☐ Casing

The fan unit can be removed from the casing with integrated mounting bracket by loosening the clamps.  
All components made from impact and corrosion resistant polymers. Colour: Light grey.

#### ☐ Impeller

Optimised for high pressure and volumetric performance, made from high quality polymers. Dynamically balanced for silent operation.

#### ☐ Motor

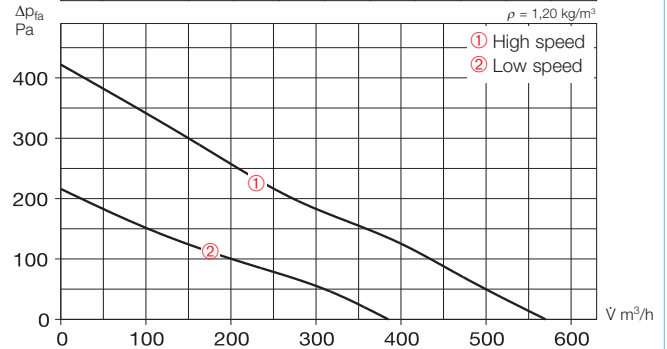
Energy-saving, speed-controllable EC external rotor motor protected to IP 44 with high efficiency level and humidity protection. Maintenance-free and interference-free, ball bearing mounted.

#### ☐ Electrical connection

Large terminal box (IP 44) on outside of casing; can be rotated to any position.

## MV EC 160

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	55	27	44	43	48	53	44	36
L <sub>WA</sub> Intake	dB(A)	69	39	57	62	61	67	58	48
L <sub>WA</sub> Exhaust	dB(A)	68	36	56	61	63	62	59	48



	n min <sup>-1</sup>	V m³/h	P W	I A	Lp dB(A)	SFP kW/m³/s
High speed	2290	570	34	0,30	47	0,21
Low speed	1560	385	14	0,12	39	0,13

### ☐ Motor protection

Integrated electronic temperature monitoring for EC motor and electronics.

### ☐ Speed control

Standard two-speed control with external operating switch MVB (accessory).

### ☐ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

### ■ Sound levels

Sum levels and spectrum figures are indicated above characteristic curves for:

- Sound level case breakout
  - Sound level intake
  - Sound level exhaust
- The sound pressure level at 1 m (free field conditions) can be seen in the table below and below the performance curve.

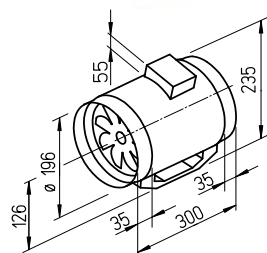
Accessory details	Page
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, Roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Operating switch	Type	Ref. no.
		mm	V m³/h	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg			
<b>Single phase motor, 230 V, 50 Hz, EC motor</b>													
<b>MV EC 160</b>	6033	160	385/570	1560/2290	39/47	0.015/0.038	0.15/0.33	951	60	2.1	<b>MVB</b>	6091	



**MV EC**

Swing-out EC in-line fan for space-saving installation in ducting.



Dim. in mm



**Energy-saving EC in-line fan with high pressure and volumetric performance with space-saving dimensions.**

Specifically made for in-duct installation. Diverse applications in commercial, industrial and residential areas.

**■ Special features**

- ☐ Highly efficient EC motor for lowest operating costs.
- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Two speeds as standard; 100% speed-controllable.
- ☐ Installation in any position.
- ☐ Longlife ball bearings, designed for 30.000 operating hours.
- ☐ simple maintenance and cleaning without dismantling the ducting system due to removable fan unit.
- ☐ Fan unit with terminal box can be rotated to any position.
- ☐ Integrated mounting bracket for simple wall and ceiling installation.

**■ Specification****□ Casing**

The fan unit can be removed from the casing with integrated mounting bracket by loosening the clamps. All components made from impact and corrosion resistant polymers. Colour: Light grey.

**□ Impeller**

Optimised for high pressure and volumetric performance, made from high quality polymers. Dynamically balanced for silent operation.

**□ Motor**

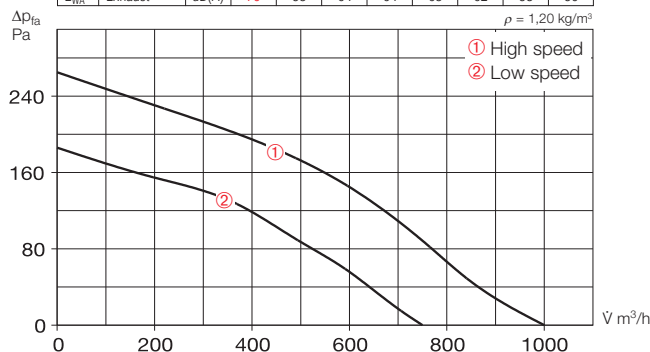
Energy-saving, speed-controllable EC external rotor motor protected to IP 44 with high efficiency level and humidity protection. Maintenance-free and interference-free, ball bearing mounted.

**□ Electrical connection**

Large terminal box (IP 44) on outside of casing; can be rotated to any position.

**MV EC 200**

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	57	40	52	51	50	49	45	40
L <sub>WA</sub> Intake	dB(A)	70	49	66	65	62	61	56	49
L <sub>WA</sub> Exhaust	dB(A)	70	53	64	64	63	62	58	50



	n min <sup>-1</sup>	$\dot{V} \text{ m}^3/\text{h}$	P W	I A	Lp dB(A)	SFP kW/m²/s
High speed	2820	1000	51	0,45	49	0,18
Low speed	2400	750	32	0,28	46	0,16

**□ Motor protection**

Integrated electronic temperature monitoring for EC motor and electronics.

**□ Speed control**

Standard two-speed control with external operating switch MVB (accessory).

**□ Installation**

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

**■ Sound levels**

Sum levels and spectrum figures are indicated above characteristic curves for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

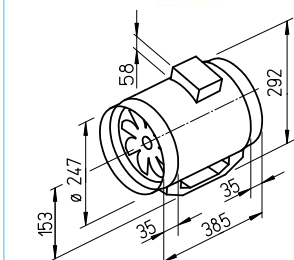
The sound pressure level at 1 m (free field conditions) can be seen in the table below and below the performance curve.

Accessory details	Page
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, Roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Operating switch	
		mm	$\dot{V} \text{ m}^3/\text{h}$	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.
<b>Single phase motor, 230 V, 50 Hz, EC motor</b>												
<b>MV EC 200</b>	6034	200	750/1000	2400/2820	46/49	0.036/0.057	0.33/0.50	951	50	2.5	<b>MVB</b>	6091

### MV EC 250

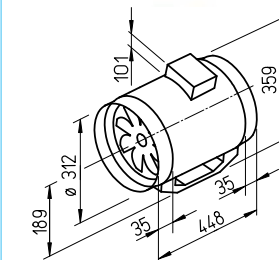
Swing-out EC in-line fan for space-saving installation in ducting.



Dim. in mm

### MV EC 315

Swing-out EC in-line fan for space-saving installation in ducting.



Dim. in mm

**Energy-saving EC in-line fan with high pressure and volumetric performance with space-saving dimensions.**

Specifically made for in-duct installation. Diverse applications in commercial, industrial and residential areas.

#### ■ Specification

##### □ Casing

The fan unit can be removed from the casing with integrated mounting bracket by loosening the clamps.

All components made from impact and corrosion resistant polymers. Colour: Light grey.

##### □ Impeller

Optimised for high pressure and volumetric performance, made from high quality polymers. Dynamically balanced for silent operation.

##### □ Motor

Energy-saving, speed-control-lable EC external rotor motor protected to IP 44 with high efficiency level and humidity protection. Maintenance-free and interference-free, ball bearing mounted.

##### □ Electrical connection

Large terminal box (IP 44) on outside of casing; can be rotated to any position.

##### □ Motor protection

Integrated electronic temperature monitoring for EC motor and electronics.

##### □ Speed control

Standard two speed control for type MV EC 250 by means of external operating switch MVB. Stepless speed control for type MV EC 315 in the range between the min. and max. speed stages with potentiometer PU and commercial on/off switch (light switch), see table.

##### □ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

##### ■ Sound levels

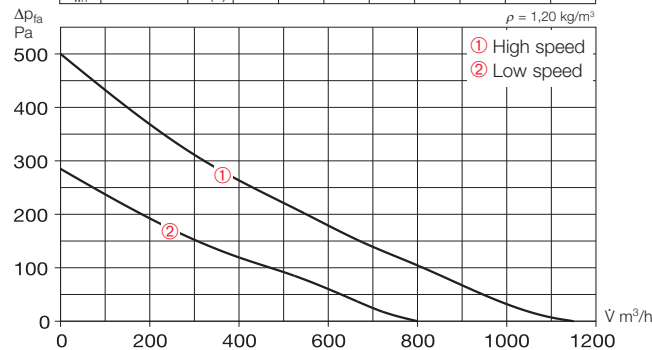
Sum levels and spectrum figures are indicated above characteristic curves for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound pressure level at 1 m (free field conditions) can be seen in the table below and below the performance curve.

### MV EC 250

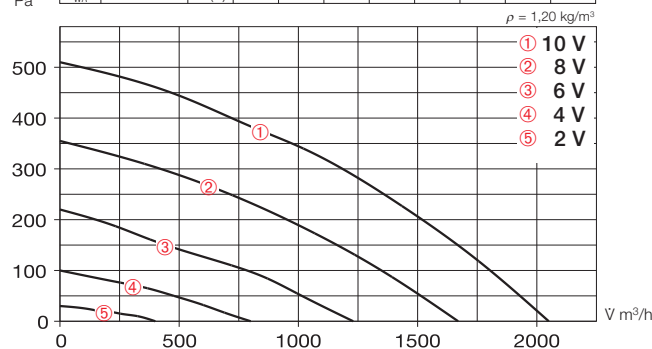
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	58	40	49	52	51	53	47	39
L <sub>WA</sub> Intake	dB(A)	73	55	66	68	68	66	58	49
L <sub>WA</sub> Exhaust	dB(A)	73	54	65	68	67	68	61	51



	n min <sup>-1</sup>	V̇ m³/h	P W	I A	Lp dB(A)	SFP kW/m³/s
High speed	2750	1150	95	0,83	50	0,29
Low speed	2100	800	45	0,42	44	0,20

### MV EC 315

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	62	42	54	55	58	57	50	40
L <sub>WA</sub> Intake	dB(A)	76	56	67	69	71	70	63	53
L <sub>WA</sub> Exhaust	dB(A)	76	55	66	68	70	71	64	54



	n min <sup>-1</sup>	V̇ m³/h	P W	I A	Lp dB(A)	SFP kW/m³/s
10	2350	2050	240	1,70	54	0,42
8	1940	1670	140	1,00	50	0,30
6	1470	1230	70	0,54	44	0,21
4	1000	800	30	0,25	36	0,14



#### ■ Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, Roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Operating switch	Type	Ref. no.
		mm	V̇ m³/h	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg			
<b>Single phase motor, 230 V, 50 Hz, EC motor</b>													
MV EC 250	6035	250	800/1150	2100/2750	44/50	0.045/0.095	0.42/0.83	951	50	5.3	MVB	6091	
MV EC 315	6036	315	2050	2350	54	0.280	1.97	1058	50	9.5	PU 10 <sup>1)</sup>	1734	

<sup>1)</sup> alternative potentiometer for flush mounting (PA 10, No. 1735) or three-step speed switch (SU/SA, No. 4266/4267), see Accessories

## High air flow volume and high pressure characteristic in a space saving design.

Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

### ■ Special features

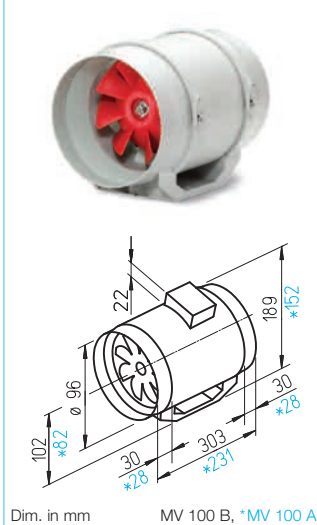
- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Two speeds, as standard; plus fully controllable motor speed
- ☐ Installation in any position.
- ☐ Long life ball bearings, designed for 30.000 operating hours.
- ☐ Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- ☐ Fan unit with terminal box can be rotated to any position.
- ☐ Integral mounting bracket for easy installation on floor, wall and ceiling.

### ■ Common features

- ☐ **Casing**  
By loosening the clips the fan casing can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.
- ☐ **Speed control**  
Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.
- ☐ **Motor**  
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.
- ☐ **Motor protection**  
Thermal overload protection fitted in the winding as standard.
- ☐ **Sound levels**  
See explanations on page 307.

### MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.

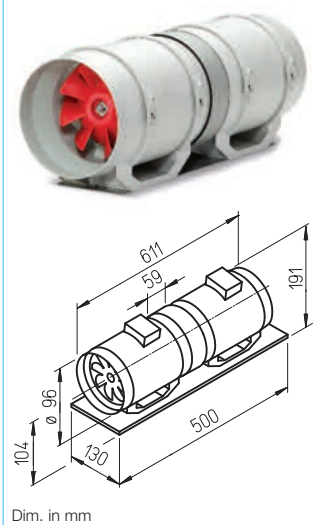


### ■ Specification MV

- ☐ **Impeller**  
Optimised for high pressure and volumetric performance, made from high grade polymer.
- ☐ **Electrical connection**  
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.
- ☐ **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

### MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.

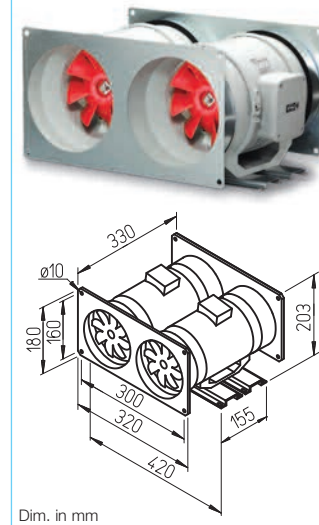


### ■ Specification MVZ

- Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate.
- Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.
- ☐ **Impeller**  
As described on the left.
- ☐ **Electrical connection**  
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- ☐ **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

### MVP – Parallel

For higher volume output in a compact parallel design.



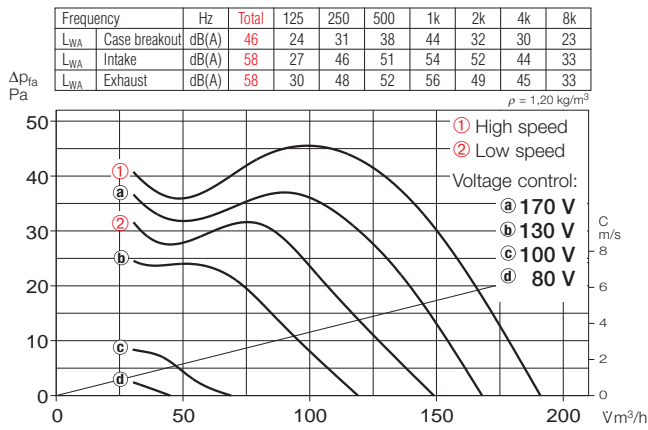
### ■ Specification MVP

- The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust.
- Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.
- ☐ **Impeller**  
As described on the left.
- ☐ **Speed control / Connection**  
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

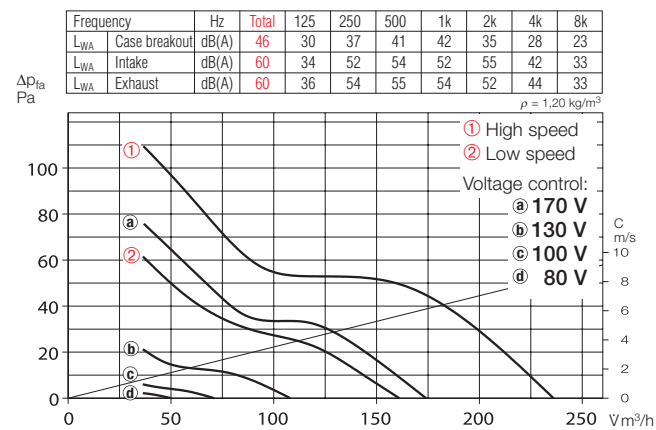
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1 m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface		
		mm	∇ m³/h	min <sup>-1</sup>	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MV 100 A	6050	100	150/190	2070/2620	34/38	45/50	12/15	0.05/0.07	844.1	60	1.2	TSW 0,3	3608	ESU 1/ESA 1	0236/0238
MV 100 B	6051	100	170/240	1590/2170	32/38	46/52	20/23	0.09/0.11	844.1	60	1.7	TSW 0,3	3608	ESU 1/ESA 1	0236/0238
Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MVZ 100 B	6058	100	170/240	1590/2170	37/43	49/55	40/46	0.18/0.22	845.1	60	4.5	TSW 0,3	3608	ESU 1/ESA 1	0236/0238
Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVP 100 B	6065	—	340/480	1590/2170	35/41	49/55	40/46	0.18/0.22	845.1	60	5.7	TSW 0,3	3608	ESU 1/ESA 1	0236/0238

\* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.

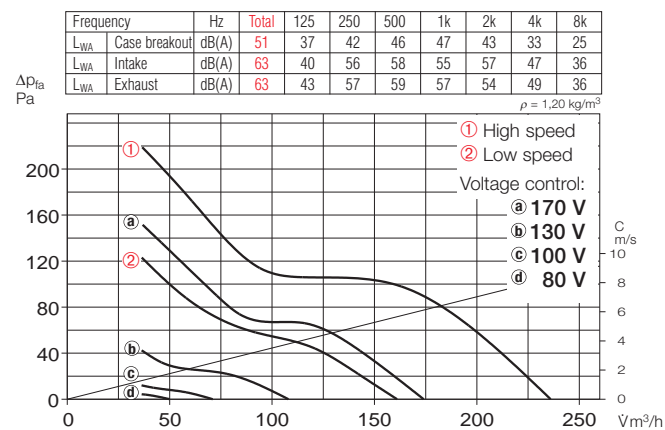
### MV 100 A – Single-stage



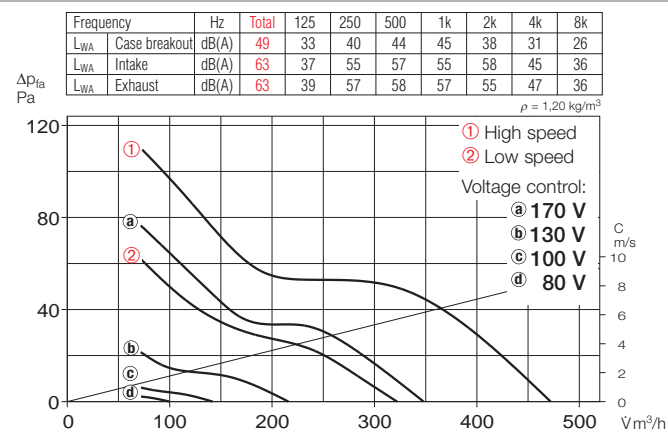
### MV 100 B – Single-stage



### MVZ 100 B – Two-stage



### MVP 100 B – Parallel



### Accessories for MV and MVZ

#### Flexible connector

**Type FM 100** Ref. no. 1681

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



#### Gravity shutter

**Type VK 100** Ref. no. 0757

Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



#### External wall grille

**Type G 100** Ref. no. 0796

To cover or insert into circular ventilation holes. Made of impact resistant, white polymer.



#### Guard

**Type MVS 100** Ref. no. 6071

For intake and exhaust installation on the ventilation unit.



#### Spigotted attenuator

**Type FSD 100** Ref. no. 0676

Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



#### Air filter box

**LFBR 100 G4** Ref. no. 8576

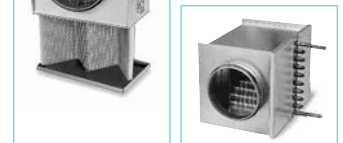
With a large cross section area, for in-duct installation.



#### Electric heater batteries

**EHR-R 0,4/100** 0,4 kW No. 8708

In circular casing, made of galvanised steel.



#### Warm-water heater batteries

**Type WHR 100** Ref. no. 9479

For in-duct installation.



### Accessories for all types

#### Back draught shutter

**Type RSKK 100** Ref. no. 5106

Automatic, made of polymer. For in-duct installation.



#### Operating switch 0-1-2

**Type MVB** Ref. no. 6091

With on/off, low and high speed functions.



#### Transformer speed controller

**Type TSW** see table

Five-step, for surface mounting.



#### Electronic speed controller

**Type ESU/ESA** see table

For flush-/surface mounting.



#### Electronic run-on switch

**Type ZNE** Ref. no. 0342

With continuously adjustable follow-up time.





### High air flow volume and high pressure characteristic in a space saving design.

Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

#### ■ Special features

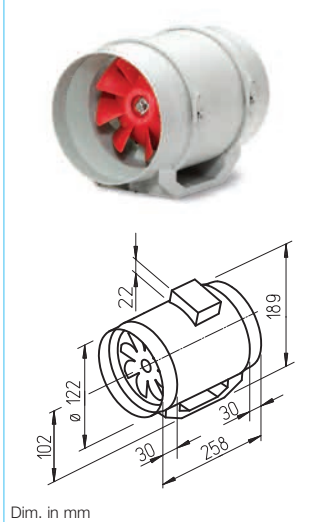
- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Two speeds, as standard; plus fully controllable motor speed
- ☐ Installation in any position.
- ☐ Long life ball bearings, designed for 30.000 operating hours.
- ☐ Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- ☐ Fan unit with terminal box can be rotated to any position.
- ☐ Integral mounting bracket for easy installation on floor, wall and ceiling.

#### ■ Common features

- ☐ **Casing**  
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.
- ☐ **Speed control**  
Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.
- ☐ **Motor**  
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.
- ☐ **Motor protection**  
Thermal overload protection fitted in the winding as standard.

#### MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.

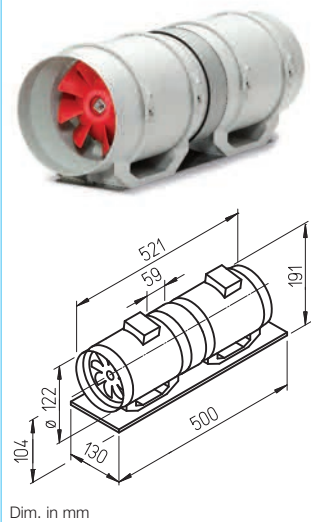


#### ■ Specification MV

- ☐ **Impeller**  
Optimised for high pressure and volumetric performance, made from high grade polymer.
- ☐ **Electrical connection**  
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.
- ☐ **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

#### MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.

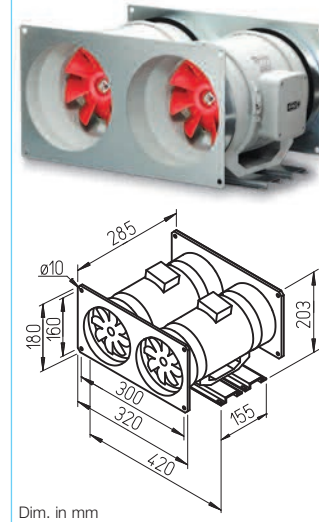


#### ■ Specification MVZ

- Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate.
- Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.
- ☐ **Impeller**  
As described on the left.
- ☐ **Electrical connection**  
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- ☐ **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

#### MVP – Parallel

For higher volume output in a compact parallel design



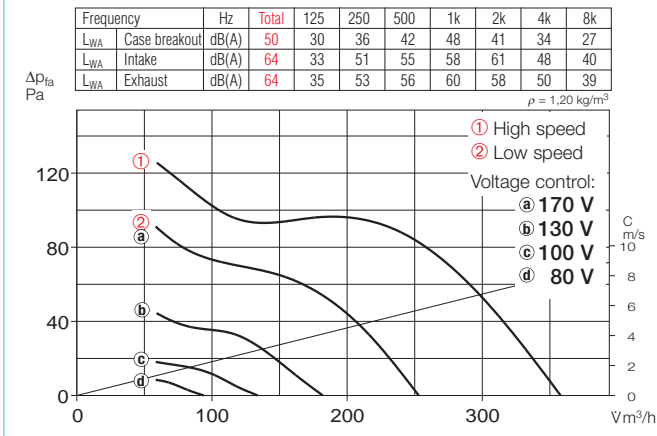
#### ■ Specification MVP

- The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust.
- Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.
- ☐ **Impeller**  
As described on the left.
- ☐ **Speed control / Connection**  
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

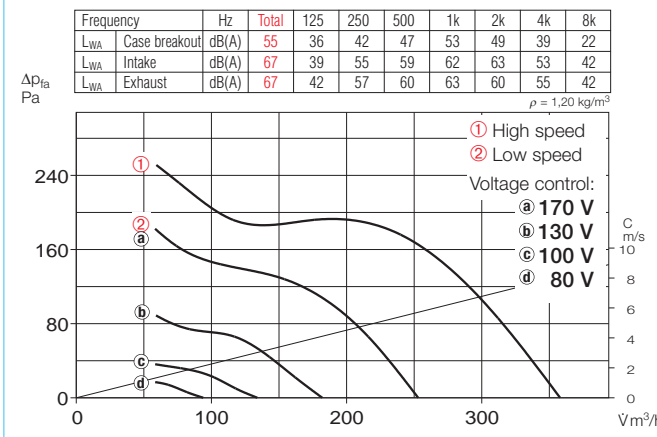
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1 m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface
		mm	m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.
<b>Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MV 125	6052	125	250/360	1670/2300	35/42	49/56	25/33	0.11/0.15	844.1	60	1.7	TSW 0,3	3608 ESU 1/ESA 1 0236/0238
<b>Two-stage ventilation unit, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MVZ 125	6059	125	250/360	1670/2300	40/47	52/59	50/66	0.22/0.30	845.1	60	4.6	TSW 0,3	3608 ESU 1/ESA 1 0236/0238
<b>Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MVP 125	6066	—	500/720	1670/2300	38/45	52/59	50/66	0.22/0.30	845.1	60	5.8	TSW 0,3	3608 ESU 1/ESA 1 0236/0238

\* In noise relevant cases, transformer-control devices shall be provided. Electronic phase angle control may generate disturbing increase in motor noise.

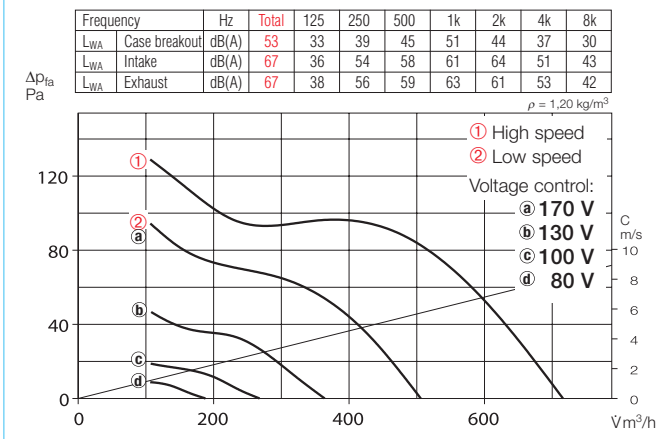
### MV 125 – Single-stage



### MVZ 125 – Two-stage



### MVP 125 – Parallel



### Sound levels

The total values and the spectrum figures are given above the performance curves for

- Sound level case breakout
- Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

**The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.**

### Accessory details

Accessory details	Page
Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

### Accessories for MV and MVZ

#### Flexible connector

**Type FM 125** Ref. no. 1682

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



#### Gravity shutter

**Type VK 125** Ref. no. 0857

Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



#### External wall grille

**Type G 160** Ref. no. 0893

To cover or insert into circular ventilation holes. Made of impact resistant, white polymer.



#### Guard

**Type MVS 125** Ref. no. 6072

For intake and exhaust installation on the ventilation unit.



#### Spigotted attenuator

**Type FSD 125** Ref. no. 0677

Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



#### Air filter box

**LFBR 125 G4** Ref. no. 8577

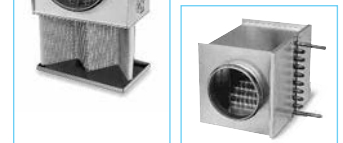
With a large cross section area, for in-duct installation.



#### Electric heater batteries

**EHR-R 0,8/125** 0,8 kW No. 8709

In circular casing, made of galvanised steel.



#### Warm-water heater batteries

**Type WHR 125** Ref. no. 9480

For in-duct installation.



### Accessories for all types

#### Back draught shutter

**Type RSKK 125** Ref. no. 5107

Automatic, made of polymer. For in-duct installation.



#### Operating switch 0-1-2

**Type MVB** Ref. no. 6091

With on/off, low and high speed functions.



#### Transformer speed controller

**Type TSW** see table

Five-step, for surface mounting.



#### Electronic speed controller

**Type ESU/ESA** see table

For flush-/surface mounting.



#### Electronic run-on switch

**Type ZNE** Ref. no. 0342

With continuously adjustable follow-up time.



### High air flow volume and high pressure characteristic in a space saving design.

Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

#### ■ Special features

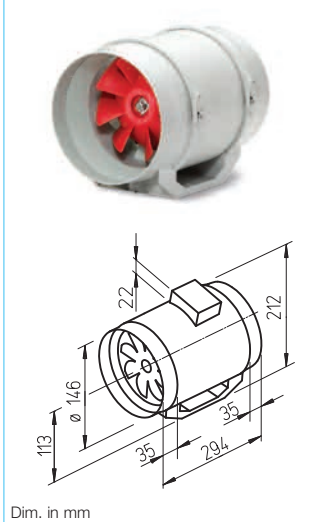
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Two speeds, as standard; plus fully controllable motor speed
- Installation in any position.
- Long life ball bearings, designed for 30.000 operating hours.
- Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- Fan unit with terminal box can be rotated to any position.
- Integral mounting bracket for easy installation on floor, wall and ceiling.

#### ■ Common features

- **Casing**  
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.
- **Speed control**  
Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.
- **Motor**  
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.
- **Motor protection**  
Thermal overload protection fitted in the winding as standard.

#### MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.



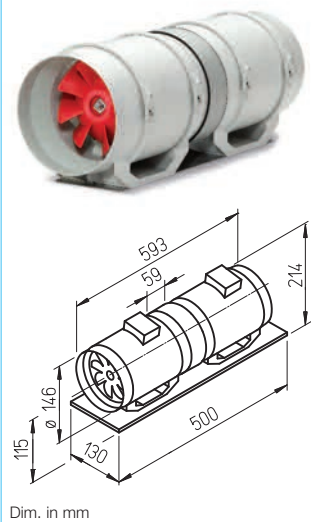
Dim. in mm

#### ■ Specification MV

- **Impeller**  
Optimised for high pressure and volumetric performance, made from high grade polymer.
- **Electrical connection**  
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

#### MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.



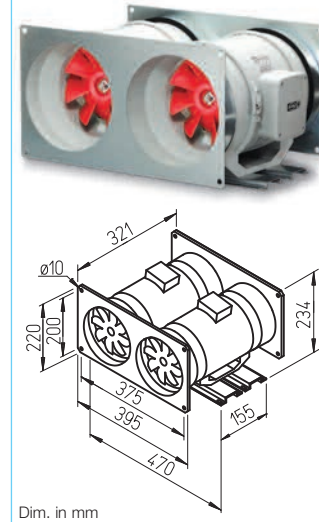
Dim. in mm

#### ■ Specification MVZ

- Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate. Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.
- **Impeller**  
As described on the left.
- **Electrical connection**  
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

#### MVP – Parallel

For higher volume output in a compact parallel design.



Dim. in mm

#### ■ Specification MVP

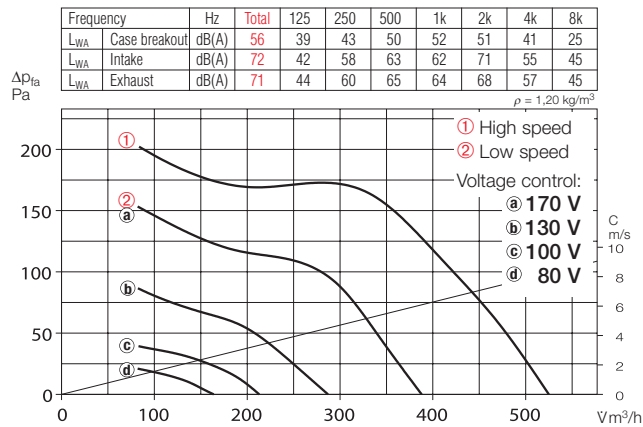
- The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust. Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.
- **Impeller**  
As described on the left.
- **Speed control / Connection**  
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for. Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1 m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface
		mm	m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.
<b>Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MV 150	6053	150	380/520	1520/2290	40/48	56/64	40/58	0.18/0.26	844.1	60	2.3	TSW 0,3	3608
<b>Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MVZ 150	6060	150	380/520	1520/2290	46/54	59/67	80/116	0.36/0.52	845.1	60	5.8	TSW 1,5	1495
<b>Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MVP 150	6067	—	760/1040	1520/2290	43/51	59/67	80/116	0.36/0.52	845.1	60	8.0	TSW 1,5	1495

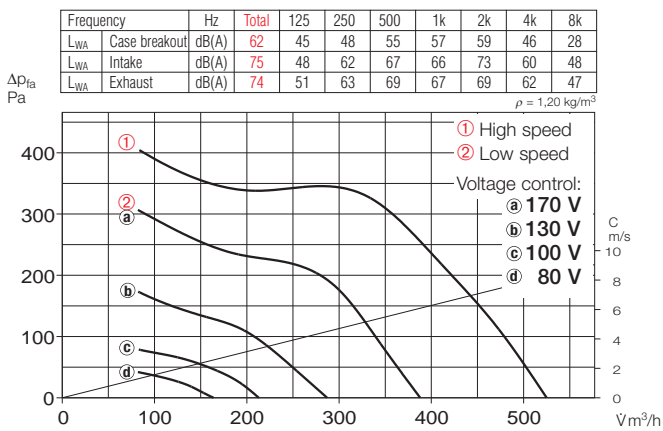
\* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.



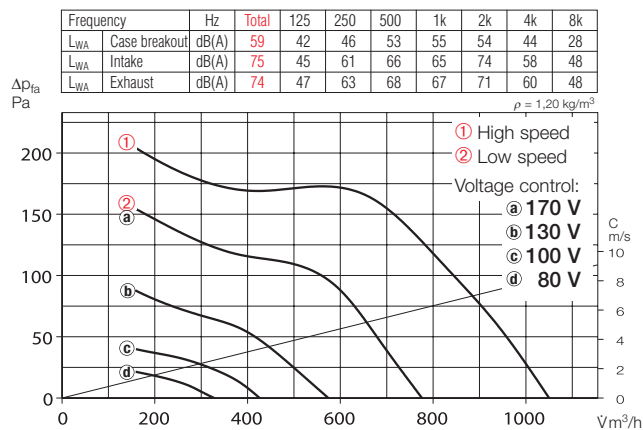
### MV 150 – Single-stage



### MVZ 150 – Two-stage



### MVP 150 – Parallel



### Sound levels

The total values and the spectrum figures are given above the performance curves for

- Sound level case breakout
- Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

**The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.**

### Accessory details

Accessory details	Page
Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

### Accessories for MV and MVZ

#### Flexible connector

**Type FM 150** Ref. no. 1683

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



#### Gravity shutter

**Type VK 160** Ref. no. 0892

Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



#### External wall grille

**Type G 160** Ref. no. 0893

To cover or insert into circular ventilation holes. Made of impact resistant, white polymer.



#### Guard

**Type MVS 150** Ref. no. 6073

For intake and exhaust installation on the ventilation unit.



#### Spigotted attenuator

**Type FSD 160<sup>1)</sup>** Ref. no. 0678

Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



#### Air filter box

**LFBR 160 G4<sup>1)</sup>** Ref. no. 8578

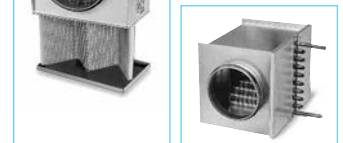
With a large cross section area, for in-duct installation.



#### Electric heater batteries

**EHR-R 1,2/160<sup>1)</sup>** 1,2 kW No. 9434

In circular casing, made of galvanised steel.



#### Warm-water heater batteries

**Type WHR 160<sup>1)</sup>** Ref. no. 9481

For in-duct installation.



### Accessories for all types

#### Back draught shutter

**Type RSK 150** Ref. no. 5073

Automatic, made of metal. For in-duct installation.



#### Operating switch 0-1-2

**Type MVB** Ref. no. 6091

With on/off, low and high speed functions.



#### Transformer speed controller

**Type TSW** see table

Five-step, for surface mounting.



#### Electronic speed controller

**Type ESU/ESA** see table

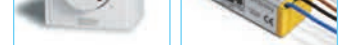
For flush-/surface mounting.



#### Electronic run-on switch

**Type ZNE** Ref. no. 0342

With continuously adjustable follow-up time.



<sup>1)</sup> This accessory with ND 160 mm is applicable for ø 150 mm ducting by use of foam rubber.



### High air flow volume and high pressure characteristic in a space saving design.

Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

#### ■ Special features

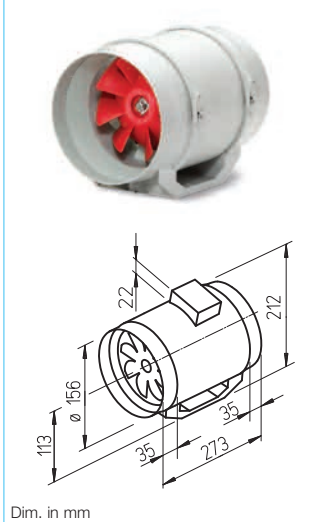
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Two speeds, as standard; plus fully controllable motor speed
- Installation in any position.
- Long life ball bearings, designed for 30.000 operating hours.
- Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- Fan unit with terminal box can be rotated to any position.
- Integral mounting bracket for easy installation on floor, wall and ceiling.

#### ■ Common features

- **Casing**  
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.
- **Speed control**  
Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.
- **Motor**  
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.
- **Motor protection**  
Thermal overload protection fitted in the winding as standard.

#### MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.



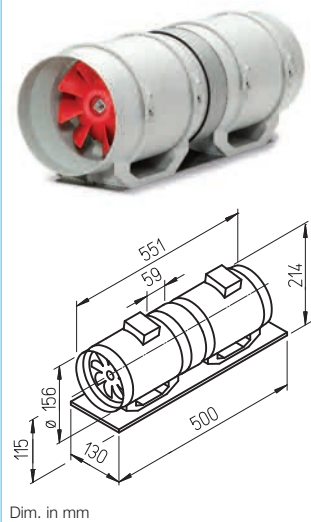
Dim. in mm

#### ■ Specification MV

- **Impeller**  
Optimised for high pressure and volumetric performance, made from high grade polymer.
- **Electrical connection**  
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

#### MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.



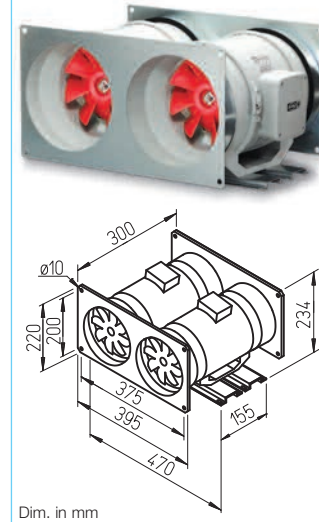
Dim. in mm

#### ■ Specification MVZ

- Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate.
- Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.
- **Impeller**  
As described on the left.
- **Electrical connection**  
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

#### MVP – Parallel

For higher volume output in a compact parallel design.



Dim. in mm

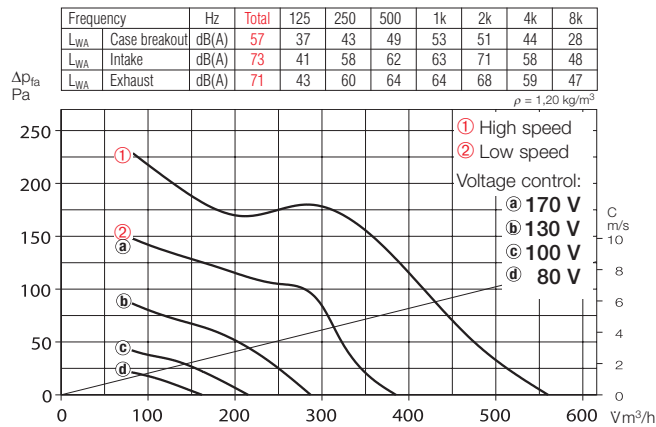
#### ■ Specification MVP

- The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust.
- Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.
- **Impeller**  
As described on the left.
- **Speed control / Connection**  
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

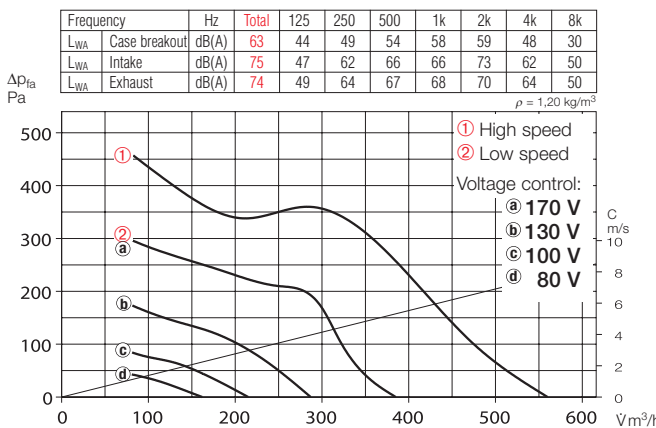
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1m case breakout		Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless. flush/surface		
		mm	m³/h	min <sup>-1</sup>	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MV 160	6054	160	390/550	1520/2290	41/49	57/65	40/58	0.18/0.26	844.1	60	2.3	TSW 0,3	3608	ESU 1/ESA 1	0236/0238
Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MVZ 160	6061	160	390/550	1520/2290	47/55	59/67	80/116	0.36/0.52	845.1	60	5.8	TSW 1,5	1495	ESU 1/ESA 1	0236/0238
Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVP 160	6068	—	780/1100	1520/2290	44/52	60/68	80/116	0.36/0.52	845.1	60	7.7	TSW 1.5	1495	ESU 1/ESA 1	0236/0238

\* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.

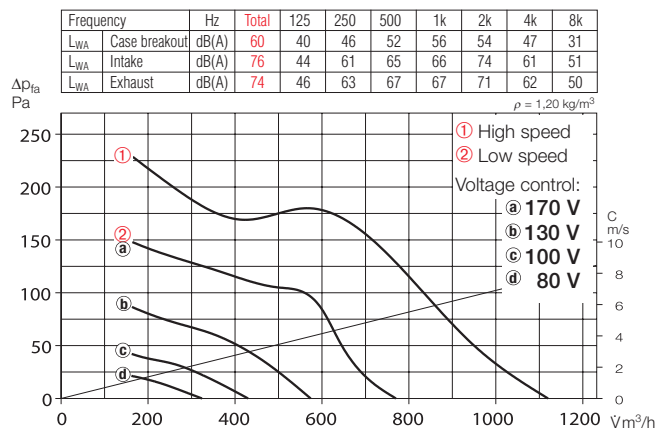
### MV 160 – Single-stage



### MVZ 160 – Two-stage



### MVP 160 – Parallel



### Sound levels

The total values and the spectrum figures are given above the performance curves for

- Sound level case breakout
- Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

**The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.**

### Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

### Accessories for MV and MVZ

#### Flexible connector

**Type FM 160** Ref. no. 1684

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



#### Gravity shutter

**Type VK 160** Ref. no. 0892

Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



#### External wall grille

**Type G 160** Ref. no. 0893

To cover or insert into circular ventilation holes. Made of impact resistant, white polymer.



#### Guard

**Type MVS 160** Ref. no. 6074

For intake and exhaust installation on the ventilation unit.



#### Spigotted attenuator

**Type FSD 160** Ref. no. 0678

Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



#### Air filter box

**LFBR 160 G4** Ref. no. 8578

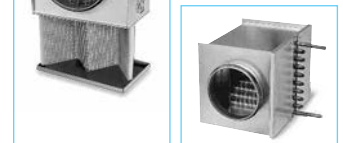
With a large cross section area, for in-duct installation.



#### Electric heater batteries

**EHR-R 1,2/160** 1,2 kW No. 9434

In circular casing, made of galvanised steel.



#### Warm-water heater batteries

**Type WHR 160** Ref. no. 9481

For in-duct installation.



### Accessories for all types

#### Back draught shutter

**Type RSK 160** Ref. no. 5669

Automatic, made of metal. For in-duct installation.



#### Operating switch 0-1-2

**Type MVB** Ref. no. 6091

With on/off, low and high speed functions.



#### Transformer speed controller

**Type TSW** see table

Five-step, for surface mounting.



#### Electronic speed controller

**Type ESU/ESA** see table

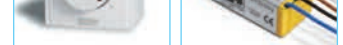
For flush-/surface mounting.



#### Electronic run-on switch

**Type ZNE** Ref. no. 0342

With continuously adjustable follow-up time.



## High air flow volume and high pressure characteristic in a space saving design.

Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

### ■ Special features

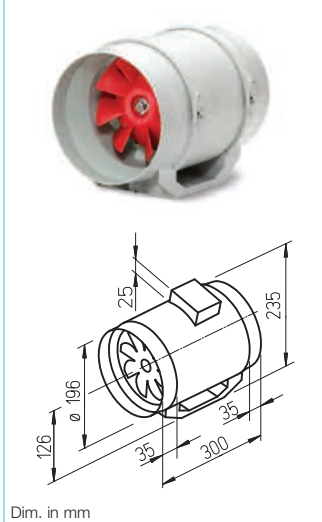
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Two speeds, as standard; plus fully controllable motor speed
- Installation in any position.
- Long life ball bearings, designed for 30.000 operating hours.
- Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- Fan unit with terminal box can be rotated to any position.
- Integral mounting bracket for easy installation on floor, wall and ceiling.

### ■ Common features

- **Casing**  
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.
- **Speed control**  
Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.
- **Motor**  
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.
- **Motor protection**  
Thermal overload protection fitted in the winding as standard.

### MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.

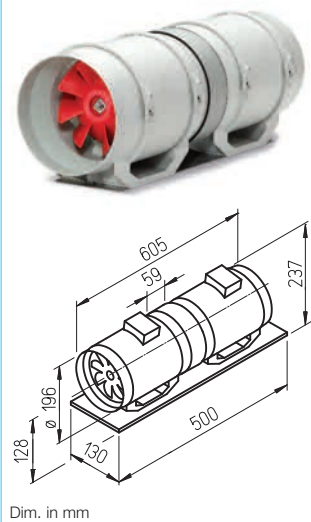


### ■ Specification MV

- **Impeller**  
Optimised for high pressure and volumetric performance, made from high grade polymer.
- **Electrical connection**  
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

### MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.

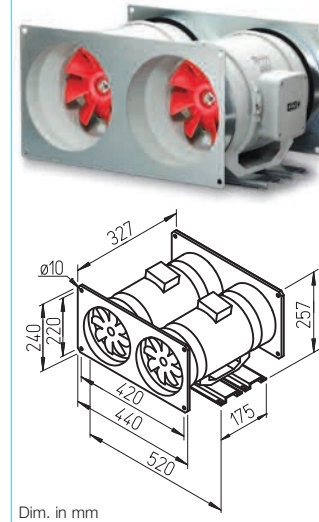


### ■ Specification MVZ

- Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate. Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.
- **Impeller**  
As described on the left.
- **Electrical connection**  
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

### MVP – Parallel

For higher volume output in a compact parallel design.



### ■ Specification MVP

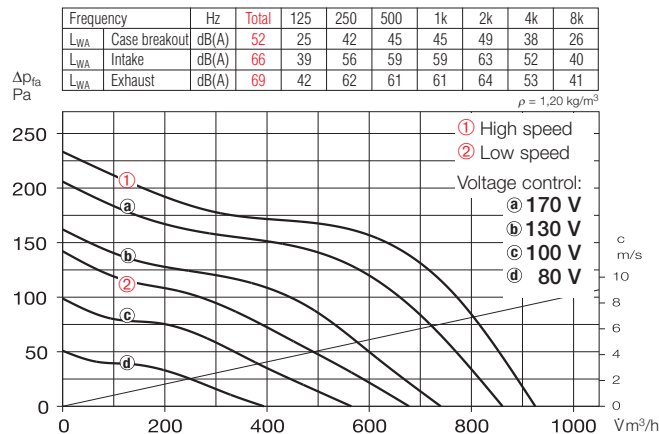
- The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust. Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.
- **Impeller**  
As described on the left.
- **Speed control / Connection**  
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for. Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1 m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface
		mm	m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.
<b>Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MV 200	6055	200	680/930	1780/2740	36/44	50/58	45/75	0.22/0.37	844.1	60	3.7	TSW 1,5	1495 ESU 1/ESA 1 0236/0238
<b>Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MVZ 200	6062	200	755/900	1780/2740	44/51	55/62	90/150	0.44/0.74	845.1	60	8.5	TSW 1,5	1495 ESU 1/ESA 1 0236/0238
<b>Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44</b>													
MVP 200	6069	—	1360/1860	1780/2740	39/47	53/61	90/150	0.44/0.74	845.1	60	11.2	TSW 1,5	1495 ESU 1/ESA 1 0236/0238

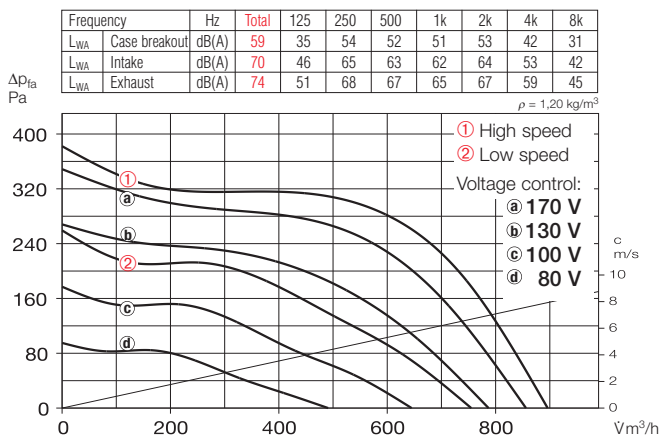
\* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.



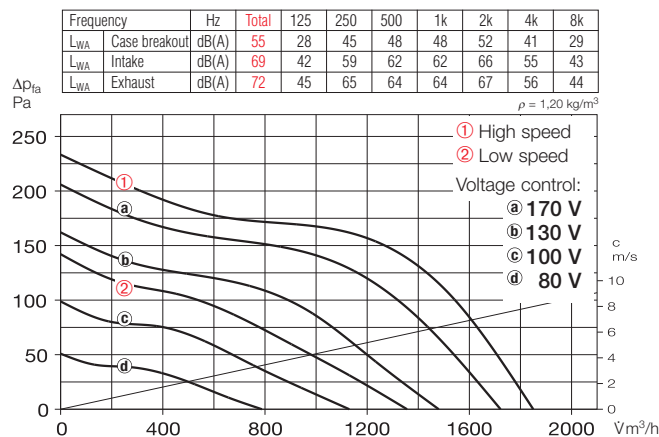
### MV 200 – Single-stage



### MVZ 200 – Two-stage



### MVP 200 – Parallel



### Sound levels

The total values and the spectrum figures are given above the performance curves for

- Sound level case breakout
- Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.

### Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

### Accessories for MV and MVZ

#### Flexible connector

Type FM 200 Ref. no. 1670

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



#### Gravity shutter

Type VK 200 Ref. no. 0758

Wall mounted, automatic pressure control shutter for the air outlet. Made of polymer. Colour: Light grey.



#### External wall grille

Type RAG 200 Ref. no. 0750

To position in front of air inlets and outlets in facades. Made of polymer; colour: Light grey.



#### Guard

Type MVS 200 Ref. no. 6075

For intake and exhaust installation on the ventilation unit.



#### Spigotted attenuator

Type FSD 200 Ref. no. 0679

Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



#### Air filter box

LFBR 200 G4 Ref. no. 8579

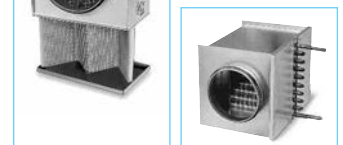
With a large cross section area, for in-duct installation.



#### Electric heater batteries

EHR-R 1,2/200 1,2 kW No. 9436

In circular casing, made of galvanised steel.



#### Warm-water heater batteries

Type WHR 200 Ref. no. 9482

For in-duct installation.



### Accessories for all types

#### Back draught shutter

Type RSK 200 Ref. no. 5074

Automatic, made of metal. For in-duct installation.



#### Operating switch 0-1-2

Type MVB Ref. no. 6091

With on/off, low and high speed functions.



#### Transformer speed controller

Type TSW see table

Five-step, for surface mounting.



#### Electronic speed controller

Type ESU/ESA see table



#### Electronic run-on switch – for MV

Type ZNE Ref. no. 0342

– for MVZ and MVP

Type ZT Ref. no. 1277





## High air flow volume and high pressure characteristic in a space saving design.

Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

### ■ Special features

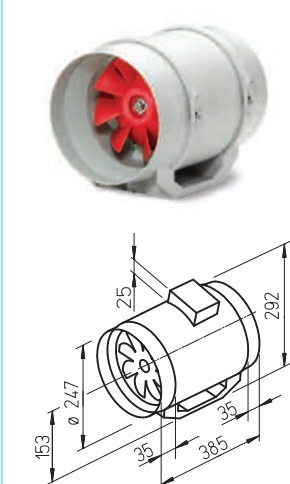
- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Two speeds, as standard; plus fully controllable motor speed
- ☐ Installation in any position.
- ☐ Long life ball bearings, designed for 30.000 operating hours.
- ☐ Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- ☐ Fan unit with terminal box can be rotated to any position.
- ☐ Integral mounting bracket for easy installation on floor, wall and ceiling.

### ■ Common features

- ☐ **Casing**  
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.
- ☐ **Speed control**  
Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.
- ☐ **Motor**  
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.
- ☐ **Motor protection**  
Through a thermal contact that is connected in series with the winding and Turns the motor off at elevated temperatures to prevent motor damage. Resets after cooling and motor restart.

### MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.



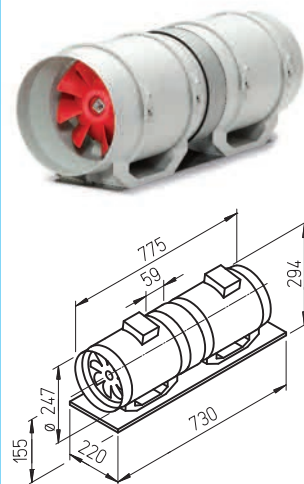
Dim. in mm

### ■ Specification MV

- ☐ **Impeller**  
Optimised for high pressure and volumetric performance, made from high grade polymer.
- ☐ **Electrical connection**  
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.
- ☐ **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

### MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.



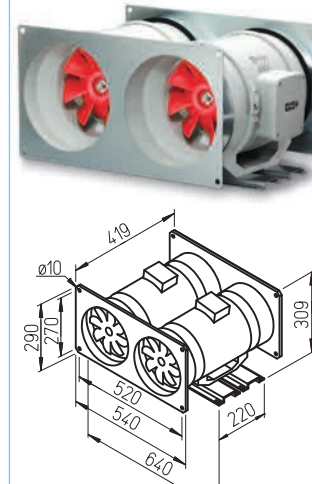
Dim. in mm

### ■ Specification MVZ

- Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate.
- Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.
- ☐ **Impeller**  
As described on the left.
- ☐ **Electrical connection**  
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- ☐ **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

### MVP – Parallel

For higher volume output in a compact parallel design.



Dim. in mm

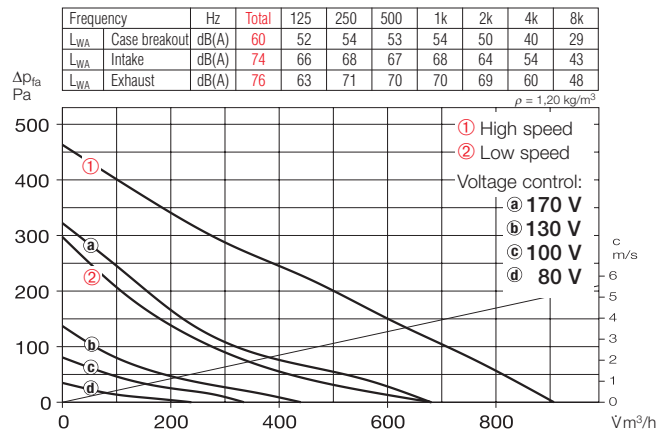
### ■ Specification MVP

- The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust.
- Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.
- ☐ **Impeller**  
As described on the left.
- ☐ **Speed control / Connection**  
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

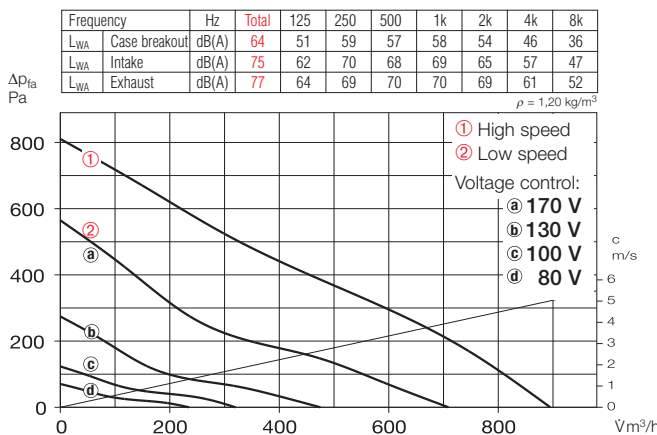
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1 m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless. flush/surface		
		mm	∇ m³/h	min <sup>-1</sup>	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MV 250	6056	250	680/910	1850/2550	40/52	53/66	85/110	0.40/0.50	844.1	60	7.0	TSW 1,5	1495	ESU 1/ESA 1	0236/0238
Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MVZ 250	6063	250	710/900	1850/2550	46/56	57/67	170/220	0.80/1.00	845.1	60	17.6	TSW 1,5	1495	ESU 3/ESA 3	0237/0239
Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVP 250	6070	—	1280/1820	1850/2550	43/55	56/69	170/220	0.80/1.00	845.1	60	18.7	TSW 1.5	1495	ESU 3/ESA 3	0237/0239

\* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.

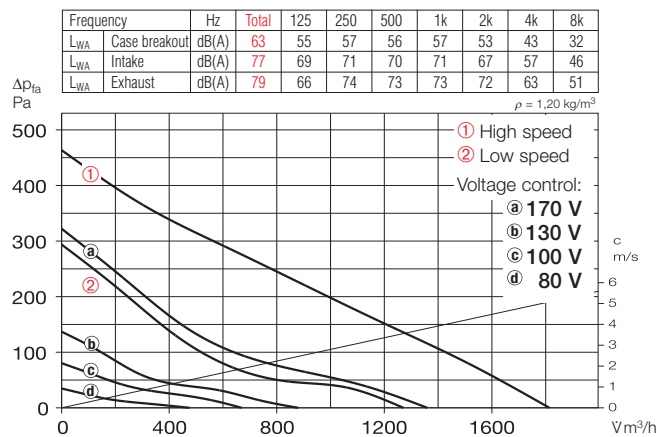
### MV 250 – Single-stage



### MVZ 250 – Two-stage



### MVP 250 – Parallel



### Sound levels

The total values and the spectrum figures are given above the performance curves for

- Sound level case breakout
- Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

**The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.**

### Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

### Accessories for MV and MVZ

#### Flexible connector

**Type FM 250** Ref. no. 1672

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



#### Gravity shutter

**Type VK 250** Ref. no. 0759

Wall mounted, automatic pressure control shutter for the air outlet. Made of polymer. Colour: Light grey.



#### External wall grille

**Type RAG 250** Ref. no. 0751

To position in front of air inlets and outlets in facades. Made of polymer; colour: Light grey.



#### Guard

**Type MVS 250** Ref. no. 6076

For intake and exhaust installation on the ventilation unit.



#### Spigotted attenuator

**Type FSD 250** Ref. no. 0680

Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



#### Air filter box

**LFBR 250 G4** Ref. no. 8580

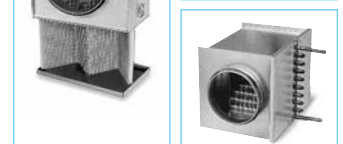
With a large cross section area, for in-duct installation.



#### Electric heater batteries

**EHR-R 6/250** 6,0 kW No. 8712

In circular casing, made of galvanised steel.



#### Warm-water heater batteries

**Type WHR 250** Ref. no. 9483

For in-duct installation.



### Accessories for all types

#### Back draught shutter

**Type RSK 250** Ref. no. 5673

Automatic, made of metal. For in-duct installation.



#### Operating switch 0-1-2

**Type MVB** Ref. no. 6091

With on/off, low and high speed functions.



#### Transformer speed controller

**Type TSW** see table

Five-step, for surface mounting.



#### Electronic speed controller

**Type ESU/ESA** see table

For flush-/surface mounting.



#### Thermoelectr. run-on switch

**Type ZT** Ref. no. 1277

With variable run-on time.



## In-line fans with explosion protection according to Directive 2014/34/EU (ATEX).



The requirements for equipment and operating materials which may pose a risk of ignition are standardised across Europe and stated in the Directive 2014/34/EU (ATEX). These contain the fundamental health and safety requirements for products with explosion protection and describe the conformity evaluation process for appliances used in potentially explosive atmospheres.

The small RRK Ex fans from Helios are suitable for operation in potentially explosive atmospheres and for conveying potentially explosive mixtures of gas, steam and air and satisfy the requirements of Directive 2014/34/EU (ATEX). They are in ignition protection category "e" (= increased safety) and therefore comply with equipment group II, category 2G for operation in zone 1 and 2. In these areas, hazardous, potentially explosive atmospheres arise occasionally or rarely and briefly.

When installed properly, RRK Ex appliances fulfill all fundamental health and safety requirements.

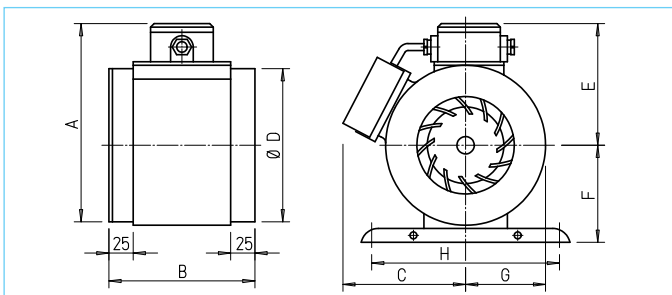
RRK Ex appliances are suitable for carrying small air flow volumes for ventilating areas in commercial and industrial applications.  
Ø 180 – 250 mm  
 $\dot{V} = 290 - 970 \text{ m}^3/\text{h}$





**RRK 180 Ex**

**RRK 200 Ex**

**RRK 250 Ex**


Type	RRK 180 Ex	200 Ex	250 Ex
A	231	278	304
B	164	267	205
C	160	195	210
D	Ø 178	Ø 198 <sup>1)</sup>	Ø 248
E	142	166	180
F	120	140	160
G	92	115	128
H	275	299	311

All dimensions in mm  
<sup>1)</sup> with reducers mounted on intake and exhaust

Designed to ventilate rooms and working places in commercial and industrial applications where a hazardous atmosphere can occur. Suitable for in-line duct installation.

Approved for installation in zones 1 and 2 to DIN EN 60079-10. Specially designed for ventilating chemical and pharmaceutical laboratories, warehouses, dye works, battery rooms etc.



### ■ Special features

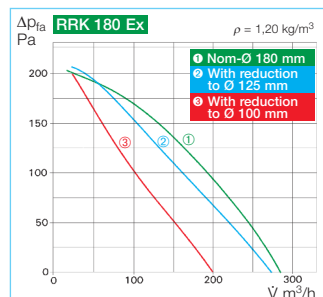
- EC-Type Examination Certificate according to Directive 2014/34/EU (ATEX) .
- Explosion proof E Exe II 2G, increased safety to DIN EN 60079-0, 60079-7, 1127-1, 14986.
- Single phase 230 V, 50 Hz.
- Ideally to be installed in-line with ducting. Three performances for model RRK 180 Ex by use of reducers (see perf. curve).
- Very compact in design and low installation cost through straight air flow.
- Installation in any position.

### ■ Specification

- **Casing and impeller**  
Made from impact resistant, anti-static polymers offering an electrical resistance of less than  $10^9 \Omega$ .
- **Motor** Totally enclosed, IP 54, suitable for continuous operation. Maintenance free ball bearing motor with tropical protection of windings and interference-free.
- **Electrical connection** terminal box made from polymer, IP 54, ex-proofed, mounted on the fan casing.
- **Installation** in any position. Suitable for intake and extract.

### ■ Installation notes

The regulations of DIN EN 60079-10 apply. The motor must be protected by a circuit breaker which isolates the equipment in case of a short circuit within the time shown on the explosion proof certificate. The inlet and exhaust must be protected by guards or other devices to prevent items bigger than 12 mm from entering the fan.  
 Admitted operation mode according to VDE 0530 / DIN EN 60034-1 = S1 (continuous operation). Speed control is not allowed.



### ■ Accessories for RRK 180 Ex Reducers

Type RZ 180/125	Ref. no. 5876
Type RZ 180/100	Ref. no. 5877

### ■ Accessory for all models Mounting feet

Type MK 4	Ref. no. 5824
-----------	---------------

### Flexible sleeve

For installation between fan and ducting.

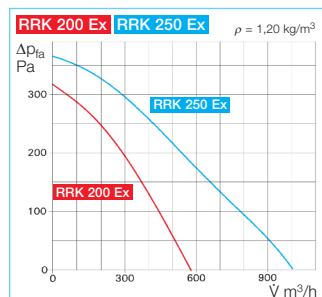
Type FM 180 Ex	Ref. no. 1685
Type FM 200 Ex	Ref. no. 1686
Type FM 250 Ex	Ref. no. 1688

### Guard

Type SGR 180 Ex	Ref. no. 5051
Type SGR 200 Ex	Ref. no. 5049
Type SGR 250 Ex	Ref. no. 5052

### Backdraught shutter

Type RSK 180	Ref. no. 5662
Type RSK 200	Ref. no. 5074
Type RSK 250	Ref. no. 5673



Other accessories	Page
Filters and attenuators	421 on
Flexible ventilation ducts, grilles, adaptors and roof terminations	487 on
Poppet valves	508 on

Note	Page
Explosion protection	
– Zone allocation	14
– Danger areas	16

Type	Ref. no.	Impeller Ø	Air flow volume (FID)	Nominal R.P.M.	Sound power level L <sub>WA</sub>	Sound press. level 1 m	Power consumption	Current	Wiring diagram	Maximum air flow temperature	Weight net approx.
		mm	V m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg
<b>Explosion proof Ex e II, 1 phase motor, 230 V, 50 Hz, capacitor motor, protection to IP 54</b>											
RRK 180 Ex <sup>1)</sup>	5889	170	290	2780	66	58	50	0.25	453	50	3.0
RRK 200 Ex <sup>2)</sup>	5890	215	560	2860	64	65	200	0.92	453	50	5.5
RRK 250 Ex <sup>2)</sup>	5891	240	970	2860	77	69	300	1.40	453	50	7.0

<sup>1)</sup> Temperature class T1-T4

<sup>2)</sup> Temperature class T1-T3



## Robust, ultra-flat centrifugal in-line fans.

### HELIOS INLINEVENT®



InlineVent® in-line fans from Helios combine the performance characteristics of centrifugal fans with the benefits of the axial design. The straight-line flow progression enables direct placement in the middle of the ducting systems and simple, cost-effective installation.

### HELIOS SLIMVENT



SlimVent centrifugal fans are ideal when there is little installation space in residential, commercial and industrial buildings. They are only a little greater than the duct diameter and are easy to install under suspended ceilings, wall panelling, above and in fitted wardrobes or behind bulkheads.

### HELIOS RR AND RRK



Used to carry medium to small air volumes against high resistance. For a number of applications in the residential, commercial and industrial sectors. Available in galvanised sheet steel or corrosion-resistant polymer.

### HELIOS ACOUSTIC LINE



SlimVent centrifugal in-line fans with noise insulation and Helios SilentBox® for particularly quiet operation.

#### Energy-efficient EC version

Ø 100 to 315 mm,  $\dot{V}$  = 360 to 1850 m³/h.

**320<sup>on</sup>**

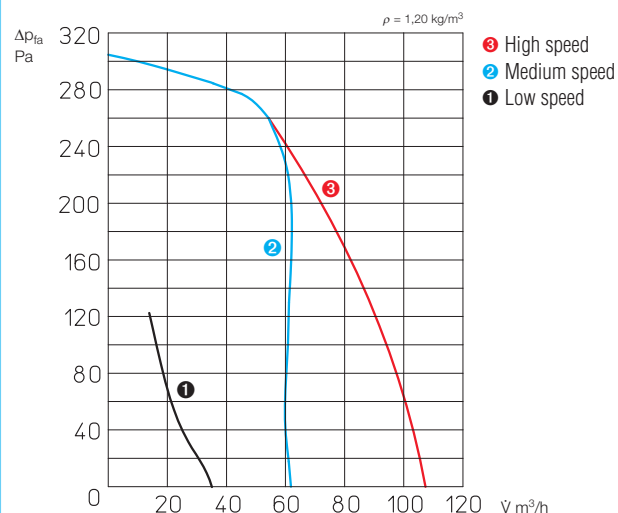
#### Standard AC types

Ø 100 to 315 mm,  $\dot{V}$  = 250 to 1260 m³/h.

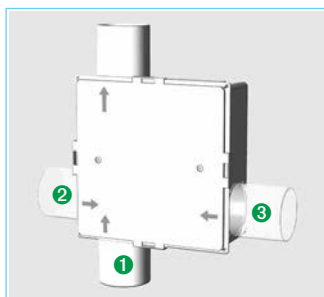
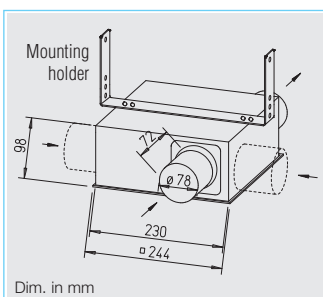
**330<sup>on</sup>**

**342<sup>on</sup>**

### SVV 80



\* Performance curve with factory-provided spigot position



Spigot position			Total power
No. 1	No. 2	No. 3	V m³/h
35	45	45	125
65	closed	60	125
closed	45	75	120
50	60	closed	110
110*	closed*	closed*	110*
closed	closed	110	110
closed	100	closed	100

■ The air flow volume varies with the number and position of the intake spigots.

#### Description

- Exceptionally flat and robust unit from impact resistant polymer. Suitable for ventilation of bathrooms, toilets, etc. in industrial, commercial and domestic applications. Delivered complete with extract and supply connection spigot for standard pipe diameter. For the ventilation of several rooms one or two further intake air spigots can be attached to the casing by removing the blanking covers

- Simply take off cover plate to remove fan unit, leaving the casing in situ.

#### Impeller

Highly efficient forward curved centrifugal impeller made from high quality polymer.

#### Motor

Totally enclosed, maintenance-free and energy saving ball bearing motor.

#### Motor protection

Through thermal overload protection in the winding.

#### Speed control

Manual three-stage operation by means of DSEL 3. Medium or low speed connectable for continuous operation and switchable by means of DSEL 2.

#### Electrical connection

Terminal box (IP 55) located on outer casing.

#### Installation

May be fitted in any position. The removing of the fan unit from its casing allows change or cleaning without removing the casing from the ducting. The inspection flap must be considered.

#### Protection

When connected to a ducted system protection to IP 54.

#### Scope of delivery and accessories

SlimVent is supplied with mounting holder. One intake and extract spigot. One or two further intake spigots (accessories Ø 75/80) can be assembled to the casing by removing the blanking cover.

ELS-ZAS Ref. no. 8184

#### Three speed operation and on/off operation switch.

Convenient flush-mounted speed controller. Cannot be switched in parallel. Installation in flush-mounted gang box.

Dim. mm (WxHxD) 80 x 80 x 23  
Type DSEL 3 Ref. no. 1611



Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.*	Sound pressure level case breakout*	Sound pressure level intake*	Power consumption*	Current*	Wiring diagram <sup>1)</sup>	max. air flow temperature	Weight net approx.
		mm	V m³/h	min <sup>-1</sup>	dB(A) in 3m/1m	dB(A) in 3m/1m	W	A	No.	+ °C	kg
<b>Single-phase motor, 230 V, 50 Hz, IP 45</b>											
<b>SVV 80</b>	2660	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 are related to the 3 speeds (see performance diagram).

<sup>1)</sup> With three speed operation switch DSEL 3: Connection according to wiring diagram no. 914.

**Energy-saving EC in-line fans for medium to smaller air flow volumes against high resistances.**

Specifically made for in-duct installation. High pressure performance to overcome friction loss, flow deflection losses and aggregate resistances.

Universal in application for domestic, commercial and industrial purposes.

**■ Special features**

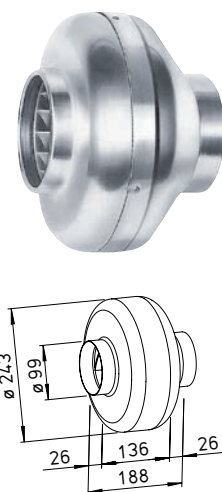
- Highly efficient EC motor for lowest operating costs.
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Power adjustment by 100% variable speed control.
- Installation in any position.
- Wide range of accessories.
- Aerodynamically optimized casing design.

**■ Common features  
RR EC and SVR EC**

- **Motor**  
Energy saving, speed controllable EC-external rotor motors, protection to IP 44 (RR EC IP 54) with highest efficiency. Maintenance-free and interference-free, ball bearing mounted.
- **Motor protection**  
Integrated electronic temperature monitoring for EC-motor and electronics.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

**RR EC**

EC series offering excellent value for money.



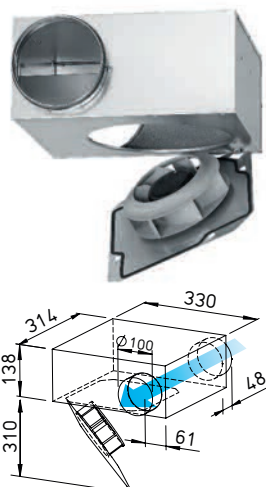
Dim. in mm

**■ Specification RR EC**

- **Casing**  
Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.
- **Electrical connection**  
Terminal box (IP 54) located on outer casing.
- **Impeller**  
Backward curved centrifugal impeller made from polymers. Directly fitted on motor and dynamically balanced as a unit providing low noise levels and high efficiency.
- **Protection class**  
When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 54.

**SVR EC**

SlimVent – Exceptionally flat space saving miracle with swing out motor and impeller unit.



Dim. in mm

**■ Specification SVR EC**

- **Casing**  
Flat and robust casing from galvanised sheet steel. Spigots on intake and extract with twin-seal rubber gaskets fit into standard ducts. Particularly service-friendly (cleaning) through swing out motor and impeller unit without disassembly of system components. Space for the swing out facility must be considered.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.
- **Electrical connection**  
Terminal box (IP 54) fitted to running cable.
- **Impeller**  
Energy-saving centrifugal impeller with forward curved blades. Dynamically balanced for low noise operation.
- **Protection class**  
When installed in ducting the fan is rated IP 44.

**■ Sound levels**

Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

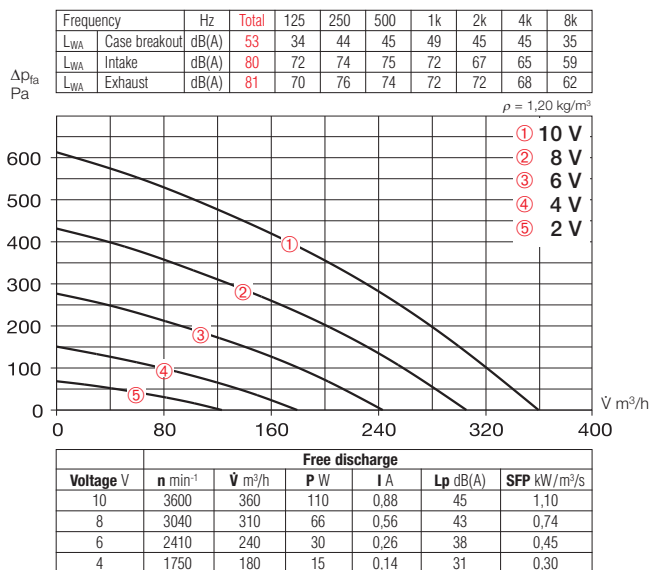
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 1 m (freefield conditions).



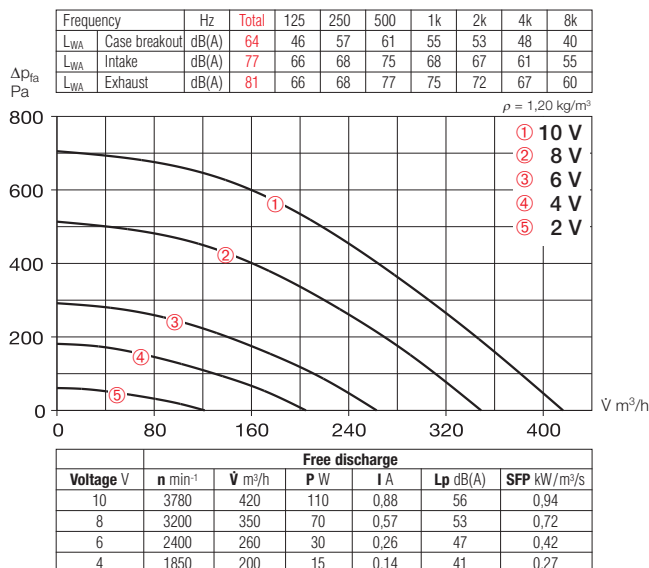
Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		Speed-potentiometer surface	
											Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
		mm	V m³/h	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Type RR EC, 1 Phase motor, 230 V, 50/60 Hz, EC motor, IP 54																
RR EC 100	5804	100	360	3600	45	0.11	0.90	979	60	3.0	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735
Type SVR EC, 1 Phase motor, 230 V, 50/60 Hz, EC motor, IP 44																
SVR EC 100	6124	100	420	3780	56	0.11	0.88	979	60	6.2	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735

1) Several EC fans can normally be connected 2) alternative electronic diff. pressure/Temp. controller (EDR/ETR, no. 1437/1438) or three-stage speed controller (SU/SA, no. 4266/4267), see accessories

### RR EC 100



### SVR EC 100



### Accessory details Page

Filters, heater batteries and attenuators 421 on

Temperature control systems for heater batteries 427, 431 on

Flexible ventilation ducting, grilles, adaptors, roof terminations 487 on

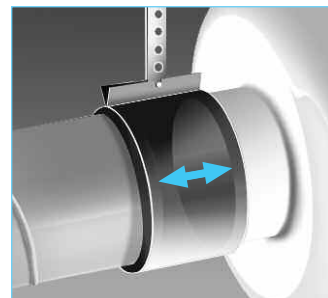
Poppet valves 508 on

Universal control system, electronic controllers, speed-potentiometer 539 on

### Accessories

#### Pipe clamp connectors

**Type BM 100** Ref. no. 5075  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



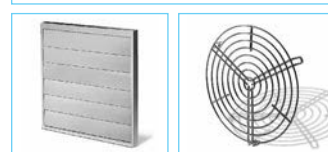
#### Mounting feet for RR EC

**Type MK 4** Ref. no. 5824



#### Gravity shutter

**Type VK 100** Ref. no. 0757  
Automatic made from white polymer.



#### Rain repellent grille

**Type G 100** Ref. no. 0796  
Made from white polymer.

#### Guard

**Type SGR 100** Ref. no. 5063  
For intake and exhaust installation on fan, made from powder-coated steel wire.



#### Backdraught shutter

**Type RSKK 100** Ref. no. 5106  
Automatic, made from polymer.



#### Flexible attenuator

**Type FSD 100** Ref. no. 0676  
Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 100 G4** Ref. no. 8576  
**LFBR 100 F7** Ref. no. 8530  
Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

**EHR-R 0,4/100** 0,4 kW No. 8708  
In galvanised sheet steel casing.



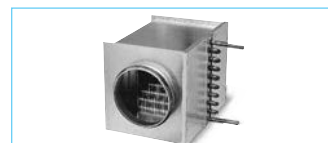
#### Temperature control system for electric heater batteries EHR-R

**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 100** Ref. no. 9479  
Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817





**Energy-saving EC in-line fans for medium to smaller air flow volumes against high resistances.**

Specifically made for in-duct installation. High pressure performance to overcome friction loss, flow deflection losses and aggregate resistances.

Universal in application for domestic, commercial and industrial purposes.

■ **Special features**

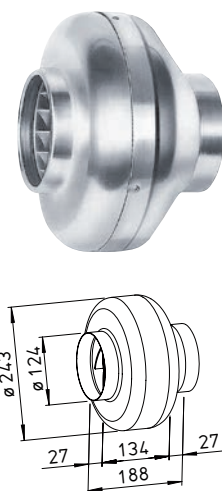
- Highly efficient EC motor for lowest operating costs.
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Power adjustment by 100% variable speed control.
- Installation in any position.
- Wide range of accessories.
- Aerodynamically optimized casing design.

■ **Common features RR EC and SVR EC**

- **Motor**  
Energy saving, speed controllable EC-external rotor motors, protection to IP 44 (RR EC IP 54) with highest efficiency. Maintenance-free and interference-free, ball bearing mounted.
- **Motor protection**  
Integrated electronic temperature monitoring for EC-motor and electronics.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

**RR EC**

EC series offering excellent value for money.



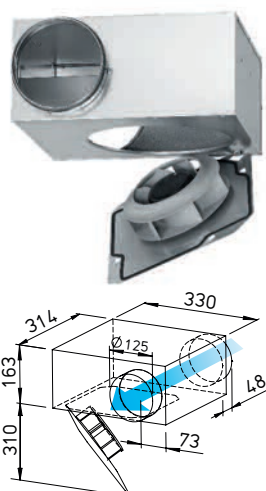
Dim. in mm

■ **Specification RR EC**

- **Casing**  
Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.
- **Electrical connection**  
Terminal box (IP 54) located on outer casing.
- **Impeller**  
Backward curved centrifugal impeller made from polymers. Directly fitted on motor and dynamically balanced as a unit providing low noise levels and high efficiency.
- **Protection class**  
When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 54.

**SVR EC**

SlimVent – Exceptionally flat space saving miracle with swing out motor and impeller unit.



Dim. in mm

■ **Specification SVR EC**

- **Casing**  
Flat and robust casing from galvanised sheet steel. Spigots on intake and extract with twin-seal rubber gaskets fit into standard ducts. Particularly service-friendly (cleaning) through swing out motor and impeller unit without disassembly of system components. Space for the swing out facility must be considered.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.
- **Electrical connection**  
Terminal box (IP 54) fitted to running cable.
- **Impeller**  
Energy-saving centrifugal impeller with forward curved blades. Dynamically balanced for low noise operation.
- **Protection class**  
When installed in ducting the fan is rated IP 44.

■ **Sound levels**

Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

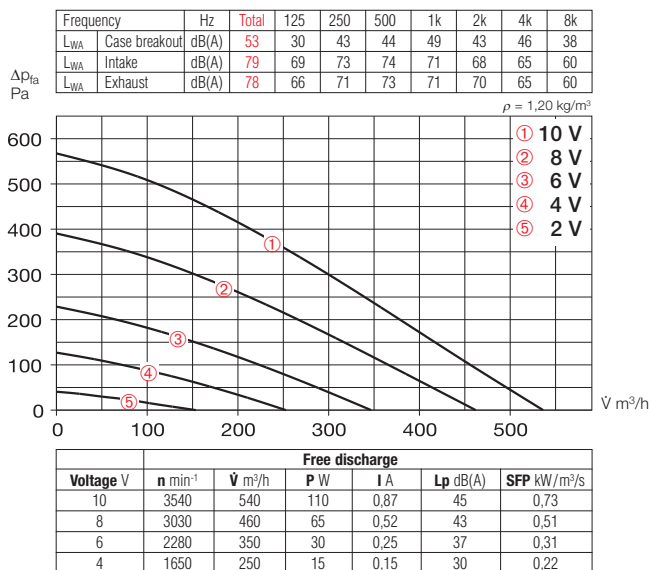
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 1 m (freefield conditions).



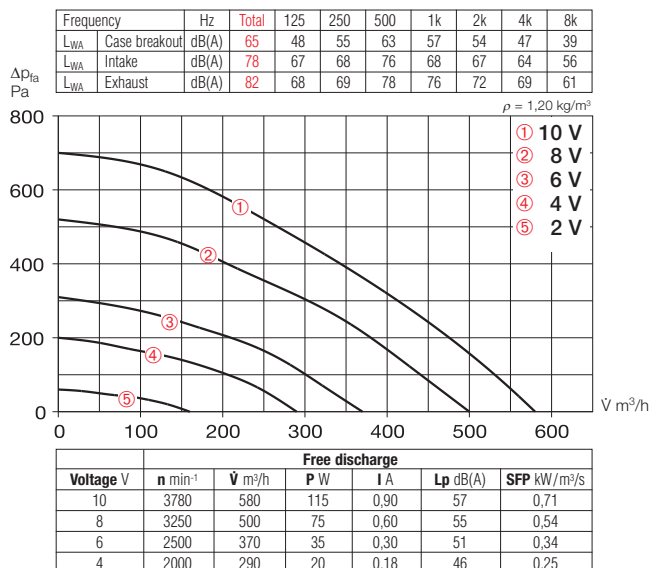
Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system	Speed-potentiometer flush	Speed-potentiometer surface
		mm	m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
<b>Type RR EC, 1 Phase motor, 230 V, 50/60 Hz, EC motor, IP 54</b>													
RR EC 125	5789	125	540	3540	45	0.11	0.87	979	60	3.0	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
<b>Type SVR EC, 1 Phase motor, 230 V, 50/60 Hz, EC motor, IP 44</b>													
SVR EC 125	2531	125	580	3780	57	0.12	0.90	979	60	5.0	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735

1) Several EC fans can normally be connected 2) alternative electronic diff. pressure/Temp. controller (EDR/ETR, no. 1437/1438) or three-stage speed controller (SU/SA, no. 4266/4267), see accessories

### RR EC 125



### SVR EC 125



### Accessory details Page

Filters, heater batteries and attenuators 421 on

Temperature control systems for heater batteries 427, 431 on

Flexible ventilation ducting, grilles, adaptors, roof terminations 487 on

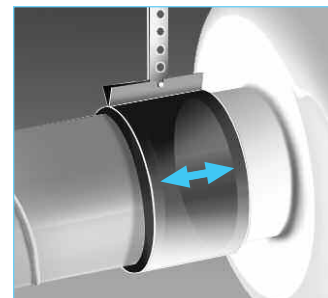
Poppet valves 508 on

Universal control system, electronic controllers, speed-potentiometer 539 on

### Accessories

#### Pipe clamp connectors

**Type BM 125** Ref. no. 5076  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



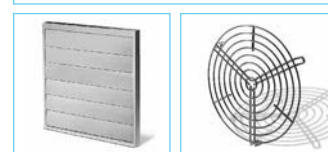
#### Mounting feet for RR EC

**Type MK 4** Ref. no. 5824



#### Gravity shutter

**Type VK 125** Ref. no. 0857  
Automatic made from white polymer.



#### Rain repellent grille

**Type G 160** Ref. no. 0893  
Made from white polymer.

#### Guard

**Type SGR 125** Ref. no. 5064  
For intake and exhaust installation on fan, made from powder-coated steel wire.



#### Backdraught shutter

**Type RSKK 125** Ref. no. 5107  
Automatic, made from polymer.



#### Flexible attenuator

**Type FSD 125** Ref. no. 0677  
Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 125 G4** Ref. no. 8577  
**LFBR 125 F7** Ref. no. 8531  
Air filter with large surface area to be installed in-line with ducting.

#### Electric heater batteries

**EHR-R 0,8/125** 0,8 kW No. 8709  
**EHR-R 1,2/125** 1,2 kW No. 9433  
– with integrated temp. control  
**EHR-R 0,8/125 TR** 0,8 kW No. 5293  
Room or duct sensor required (TFK/TFR, accessories).



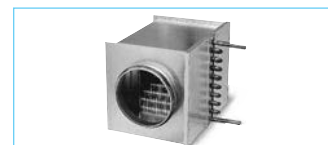
#### Temperature control system for electric heater batteries EHR-R

**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 125** Ref. no. 9480  
Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817



**Energy-saving EC in-line fans for medium to smaller air flow volumes against high resistances.**

Specifically made for in-duct installation. High pressure performance to overcome friction loss, flow deflection losses and aggregate resistances.

Universal in application for domestic, commercial and industrial purposes.

■ **Special features**

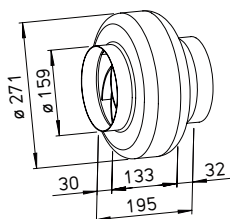
- Highly efficient EC motor for lowest operating costs.
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Power adjustment by 100% variable speed control.
- Installation in any position.
- Wide range of accessories.
- Aerodynamically optimized casing design.

■ **Common features RR EC and SVR EC**

- **Motor**  
Energy saving, speed controllable EC-external rotor motors, protection to IP 44 (RR EC IP 54) with highest efficiency. Maintenance-free and interference-free, ball bearing mounted.
- **Motor protection**  
Integrated electronic temperature monitoring for EC-motor and electronics.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

**RR EC**

EC series offering excellent value for money.



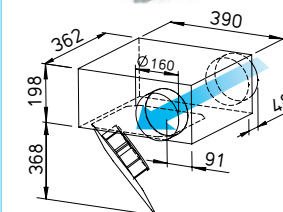
Dim. in mm

■ **Specification RR EC**

- **Casing**  
Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.
- **Electrical connection**  
Terminal box (IP 54) located on outer casing.
- **Impeller**  
Backward curved centrifugal impeller made from polymers. Directly fitted on motor and dynamically balanced as a unit providing low noise levels and high efficiency.
- **Protection class**  
When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 54.

**SVR EC**

SlimVent – Exceptionally flat space saving miracle with swing out motor and impeller unit.



Dim. in mm

■ **Specification SVR EC**

- **Casing**  
Flat and robust casing from galvanised sheet steel. Spigots on intake and extract with twin-seal rubber gaskets fit into standard ducts. Particularly service-friendly (cleaning) through swing out motor and impeller unit without disassembly of system components. Space for the swing out facility must be considered.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.
- **Electrical connection**  
Terminal box (IP 54) fitted to running cable.
- **Impeller**  
Energy-saving centrifugal impeller with forward curved blades. Dynamically balanced for low noise operation.
- **Protection class**  
When installed in ducting the fan is rated IP 44.

■ **Sound levels**

Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

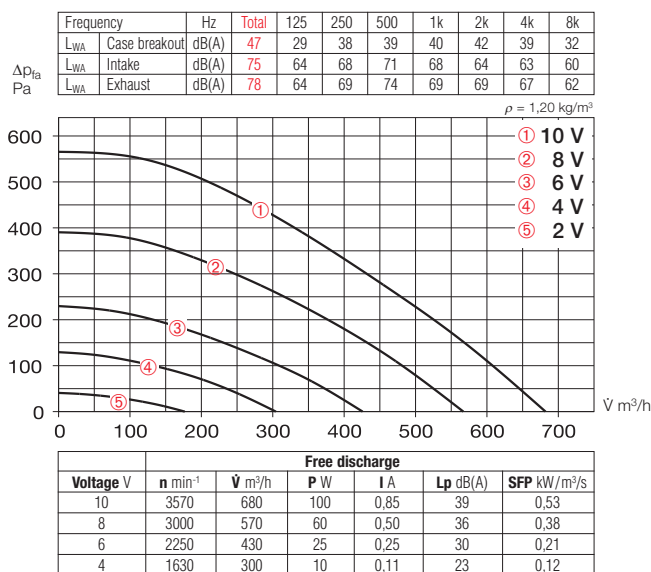
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 1 m (freefield conditions).



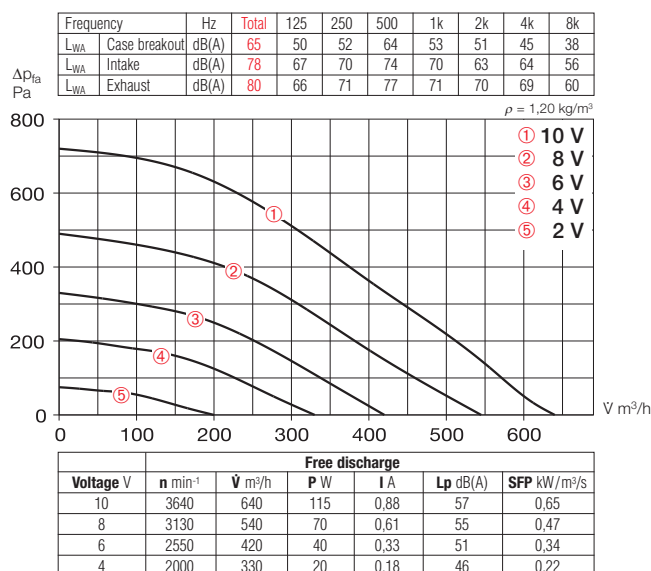
Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system	Speed-potentiometer flush	Speed-potentiometer surface
		mm	m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
<b>Type RR EC, 1 Phase motor, 230 V, 50/60 Hz, EC motor, IP 54</b>													
RR EC 160	5785	160	680	3570	39	0.11	0.90	979	60	3.0	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
<b>Type SVR EC, 1 Phase motor, 230 V, 50/60 Hz, EC motor, IP 44</b>													
SVR EC 160 A	2535	160	640	3640	57	0.12	0.90	979	60	7.1	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
SVR EC 160 B	2543	160	820	3220	57	0.13	1.06	979	60	6.9	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735

<sup>1)</sup> Several EC fans can normally be connected <sup>2)</sup> alternative electronic diff. pressure/Temp. controller (EDR/ETR, no. 1437/1438) or three-stage speed controller (SU/SA, no. 4266/4267), see accessories

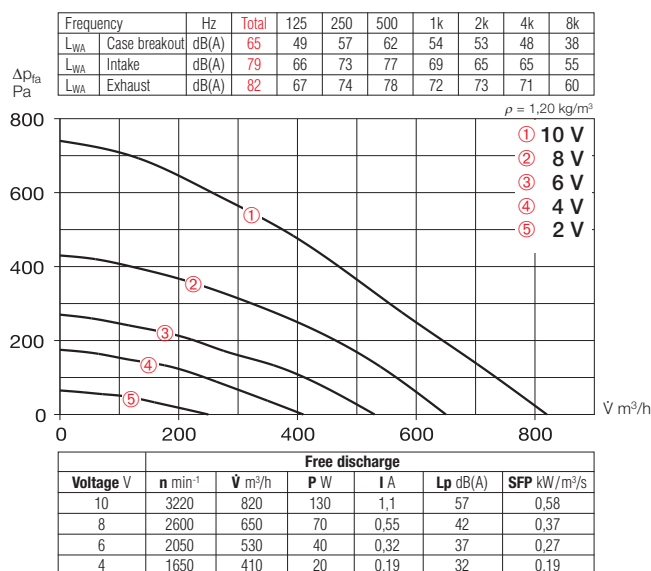
### RR EC 160



### SVR EC 160 A



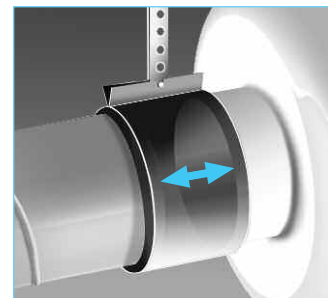
### SVR EC 160 B



### Accessories

#### Pipe clamp connectors

**Type BM 160** Ref. no. 5077  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



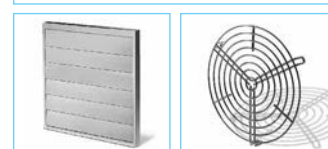
#### Mounting feet for RR EC

**Type MK 4** Ref. no. 5824



#### Gravity shutter

**Type VK 160** Ref. no. 0892  
Automatic made from white polymer.



#### Rain repellent grille

**Type G 160** Ref. no. 0893  
Made from white polymer.



#### Guard

**Type SGR 160** Ref. no. 5069  
For intake and exhaust installation on fan, made from galvanised steel.



#### Backdraught shutter

**Type RSK 160** Ref. no. 5669  
Automatic, made from metal.



#### Flexible attenuator

**Type FSD 160** Ref. no. 0678  
Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 160 G4** Ref. no. 8578  
**LFBR 160 F7** Ref. no. 8532  
Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

**EHR-R 1,2/160** 1,2 kW No. 9434  
**EHR-R 2,4/160** 2,4 kW No. 9435  
**EHR-R 5/160** 5,0 kW No. 8710  
– with integrated temp. control  
**EHR-R 2,4/160 TR** 2,4 kW No. 5294  
Room or duct sensor required (TFK/TFR, accessory).



**Temperature control system for electric heater batteries EHR-R**  
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 160** Ref. no. 9481  
Compact heat exchanger for in-line installation.



**Temperature control system for warm water heater battery**  
**Type WHST 300 T38** No. 8817



**Energy-saving EC in-line fans for medium to smaller air flow volumes against high resistances.**

Specifically made for in-duct installation. High pressure performance to overcome friction loss, flow deflection losses and aggregate resistances.

Universal in application for domestic, commercial and industrial purposes.

■ **Special features**

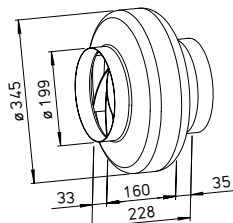
- Highly efficient EC motor for lowest operating costs.
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Power adjustment by 100% variable speed control.
- Installation in any position.
- Wide range of accessories.
- Aerodynamically optimized casing design.

■ **Common features RR EC and SVR EC**

- **Motor**  
Energy saving, speed controllable EC-external rotor motors, protection to IP 44 (RR EC 200 A IP 54) with highest efficiency. Maintenance-free and interference-free, ball bearing mounted.
- **Motor protection**  
Integrated electronic temperature monitoring for EC-motor and electronics.
- **Installation**  
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

**RR EC**

EC series offering excellent value for money.



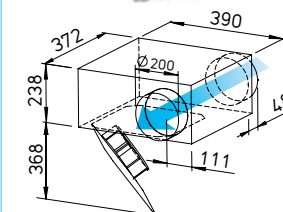
Dim. in mm

■ **Specification RR EC**

- **Casing**  
Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.
- **Electrical connection**  
Terminal box (IP 54) located on outer casing.
- **Impeller**  
Backward curved centrifugal impeller made from polymers. Directly fitted on motor and dynamically balanced as a unit providing low noise levels and high efficiency.
- **Protection class**  
When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 54 for RR EC 200 A IP 54.

**SVR EC**

SlimVent – Exceptionally flat space saving miracle with swing out motor and impeller unit.



Dim. in mm

■ **Specification SVR EC**

- **Casing**  
Flat and robust casing from galvanised sheet steel. Spigots on intake and extract with twin-seal rubber gaskets fit into standard ducts. Particularly service-friendly (cleaning) through swing out motor and impeller unit without disassembly of system components. Space for the swing out facility must be considered.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.
- **Electrical connection**  
Terminal box (IP 54) fitted to running cable.
- **Impeller**  
Energy-saving centrifugal impeller with forward curved blades. Dynamically balanced for low noise operation.
- **Protection class**  
When installed in ducting the fan is rated IP 44.

■ **Sound levels**

Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

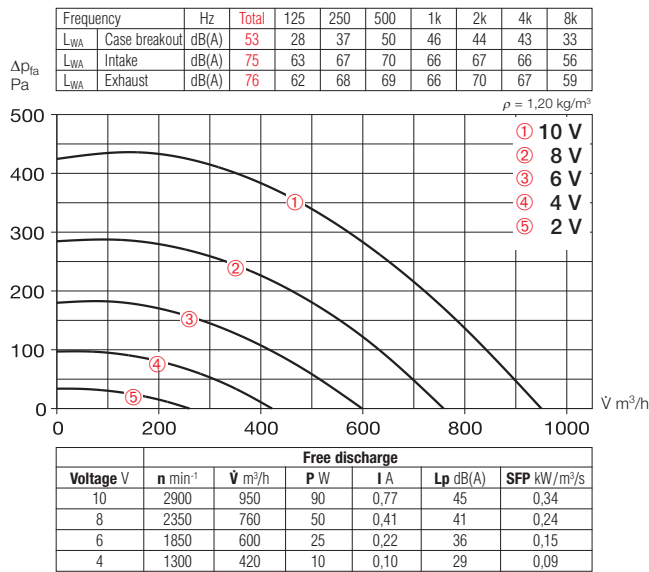
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 1 m (freefield conditions).



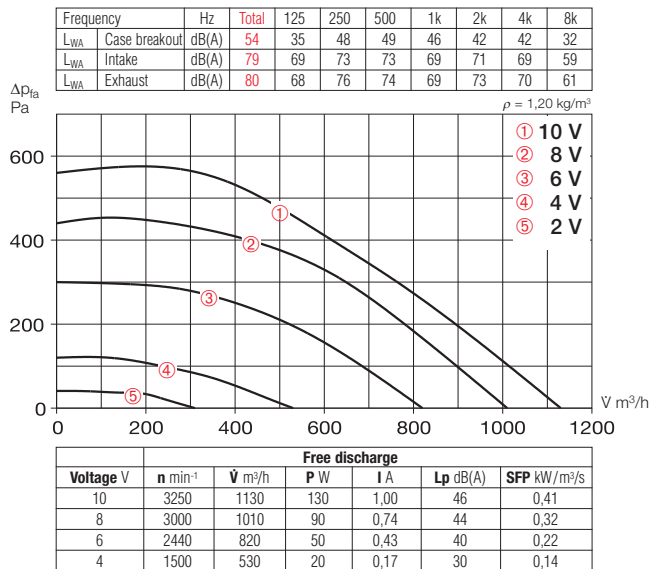
Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system	Speed-potentiometer flush	Speed-potentiometer surface
		mm	m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
<b>Type RR EC, 1 Phase motor, 230 V, 50/60 Hz, EC motor, IP 54 (A), IP 44 (B)</b>													
RR EC 200 A	6121	200	950	2900	45	0.12	0.97	979	60	4.0	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
RR EC 200 B	5786	200	1130	3250	46	0.15	1.21	979	60	3.7	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
<b>Type SVR EC, 1 Phase motor, 230 V, 50/60 Hz, EC motor, IP 44</b>													
SVR EC 200	2539	200	1030	2870	55	0.16	1.27	979	60	7.4	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735

<sup>1)</sup> Several EC fans can normally be connected <sup>2)</sup> alternative electronic diff. pressure/Temp. controller (EDR/ETR, no. 1437/1438) or three-stage speed controller (SU/SA, no. 4266/4267), see accessories

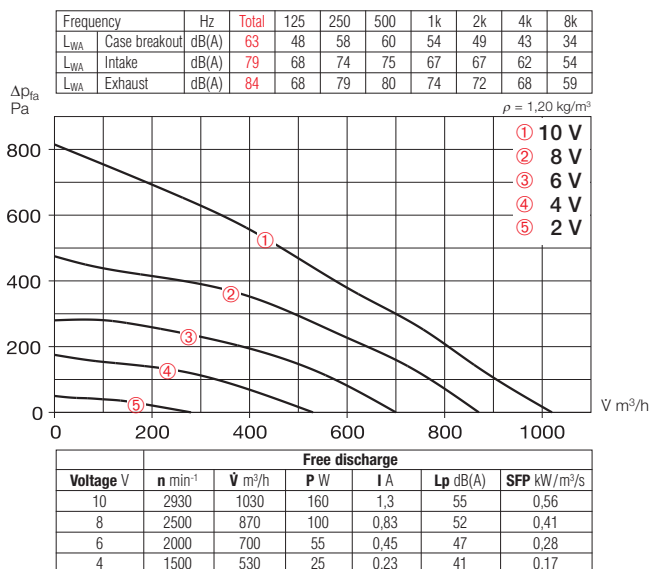
### RR EC 200 A



### RR EC 200 B



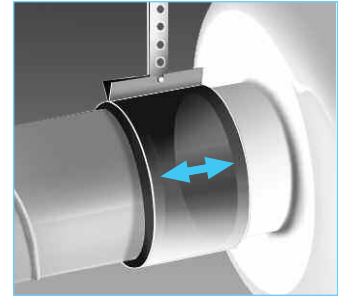
### SVR EC 200



### Accessories

#### Pipe clamp connectors

**Type BM 200** Ref. no. 5078  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



#### Mounting feet for RR EC

**Type MK 4** Ref. no. 5824



#### Gravity shutter

**Type VK 200** Ref. no. 0758  
Made from polymer, light grey.



#### Rain repellent grille

**Type RAG 200** Ref. no. 0750  
Made from polymer, light grey.



#### Guard

**Type SGR 200** Ref. no. 5066  
For intake and exhaust installation on fan, made from galvanised steel.



#### Backdraught shutter

**Type RSK 200** Ref. no. 5074  
Automatic, made from metal.



#### Flexible attenuator

**Type FSD 200** Ref. no. 0679  
Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 200 G4** Ref. no. 8579  
**EHR-R 2/200** Ref. no. 8533  
Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

**EHR-R 1,2/200** 1,2 kW No. 9436  
**EHR-R 2/200** 2,0 kW No. 9437  
**EHR-R 5/200** 5,0 kW No. 8711  
– with integrated temp. control  
**EHR-R 5/200 TR** 5,0 kW No. 5295  
Room or duct sensor required (TFK/TFR, accessory).

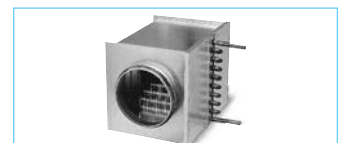


**Temperature control system for electric heater batteries EHR-R**  
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 200** Ref. no. 9482  
Compact heat exchanger for in-line installation.



**Temperature control system for warm water heater battery**  
**Type WHST 300 T38** No. 8817





Energy-saving EC in-line fans for medium to smaller air flow volumes against high resistances.

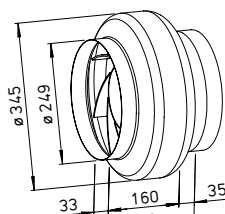
Specifically made for in-duct installation. High pressure performance to overcome friction loss, flow deflection losses and aggregate resistances. Universal in application for domestic, commercial and industrial purposes.

#### ■ Special features

- ☐ Highly efficient EC motor for lowest operating costs.
- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Power adjustment by 100% variable speed control.
- ☐ Installation in any position.
- ☐ Wide range of accessories.
- ☐ Aerodynamically optimized casing design.

#### RR EC 250

EC series offering excellent value for money.



Dim. in mm

#### ■ Specification

##### ☐ Motor

Energy saving, speed controllable EC-external rotor motors, protection to IP 44 (RR EC 200 A IP 54) with highest efficiency. Maintenance-free and interference-free, ball bearing mounted.

##### ☐ Motor protection

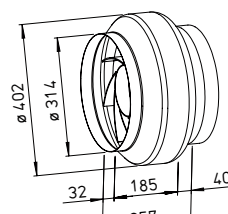
Integrated electronic temperature monitoring for EC-motor and electronics.

##### ☐ Casing

Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.

#### RR EC 315

EC series offering excellent value for money.



Dim. in mm

##### ☐ Speed control

Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

##### ☐ Electrical connection

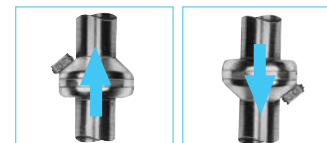
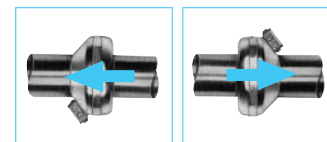
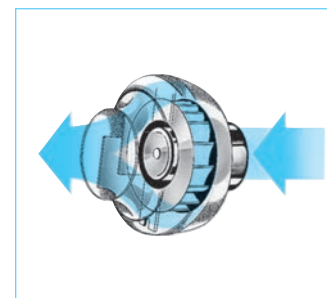
Terminal box (IP 54) on outside of casing.

##### ☐ Impeller

Centrifugal impeller with backward curved polymer blades, for RR EC 315 B impeller made from galvanised steel sheet. Dynamically balanced for low noise operation, highly efficient.

##### ☐ Protection class

When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 54 for RR EC 200 A IP 54.



##### ☐ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

##### ■ Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

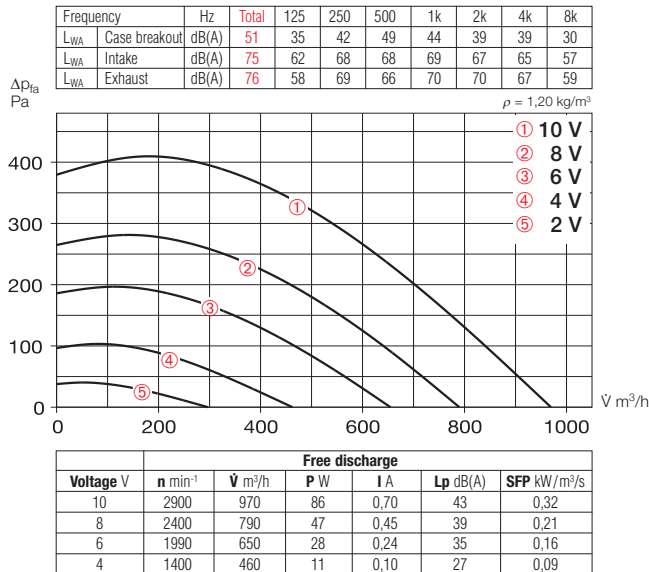
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 1 m (freefield conditions).

Type	Ref. no.	Connection Ø	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system	Speed-potentiometer				
		mm	ṽ m³/h	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Type RR EC, 1 phase motor, 230 V, 50/60 Hz, EC motor, IP 44 (250 A IP 54)																
RR EC 250 A	6122	250	970	2900	43	0.12	0.95	979	60	4.0	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735
RR EC 250 B	5787	250	1160	3330	45	0.16	1.30	979	60	3.9	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735
RR EC 315 A	5788	315	1300	3030	47	0.16	1.30	979	60	4.5	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735
RR EC 315 B <sup>3)</sup>	6123	315	1850	2620	51	0.23	1.00	979	60	5.0	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735

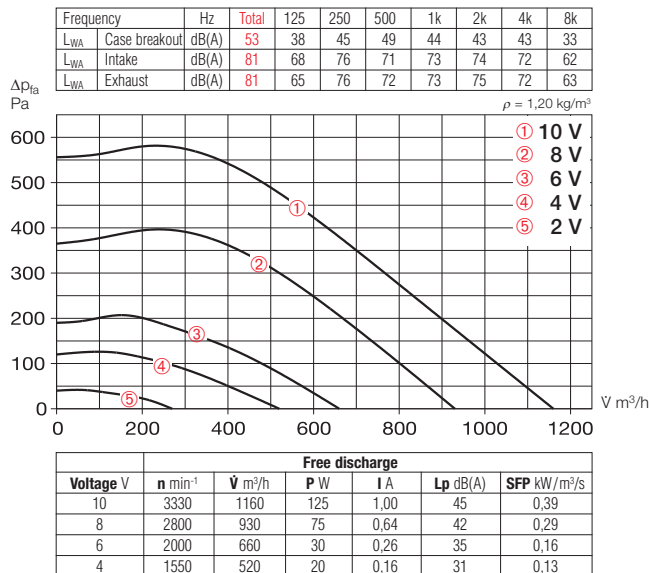
<sup>1)</sup> Several EC fans can normally be connected <sup>2)</sup> alternative electronic diff. pressure/Temp. controller (EDR/ETR, no. 1437/1438) or three-stage speed controller (SU/SA, no. 4266/4267), see accessories

<sup>3)</sup> Characteristic curve on [www.HeliosSelect.de](http://www.HeliosSelect.de)

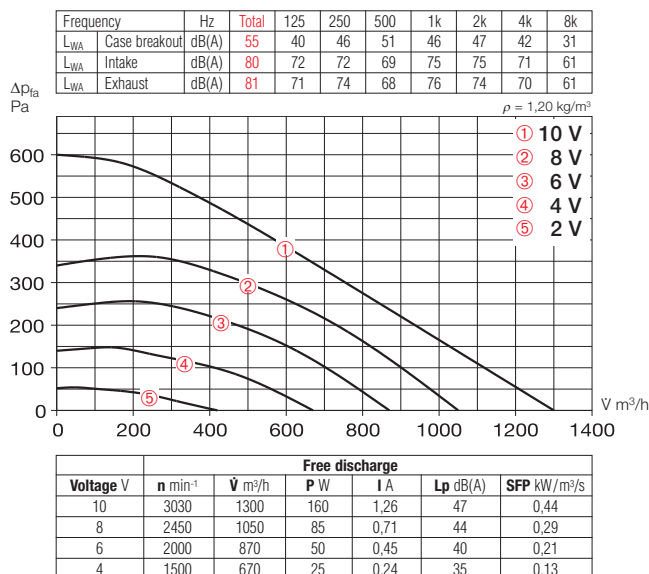
### RR EC 250 A



### RR EC 250 B



### RR EC 315 A



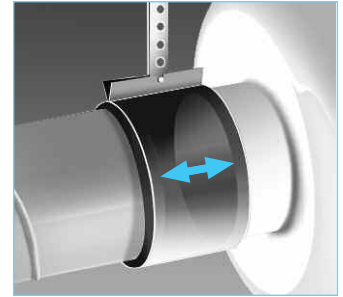
### Accessories

#### Pipe clamp connectors

Type BM 250 Ref. no. 5079

Type BM 315 Ref. no. 5080

A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



#### Mounting feet

Type MK 4 Ref. no. 5824

Made from galvanised steel sheet.



#### Gravity shutter

Type VK 250 Ref. no. 0759

Type VK 315 Ref. no. 0760

Automatic made from polymer, light grey.



#### Rain repellent grille

Type RAG 250 Ref. no. 0751

Type RAG 315 Ref. no. 0752

Made from polymer, light grey.



#### Guard

Type SGR 250 Ref. no. 5067

Type SGR 315 Ref. no. 5068

For intake and exhaust installation on fan, made from galvanised steel.



#### Backdraught shutter

Type RSK 250 Ref. no. 5673

Type RSK 315 Ref. no. 5674

Automatic, made from metal.



#### Flexible attenuator

Type FSD 250 Ref. no. 0680

Type FSD 315 Ref. no. 0681

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

LFBR 250 G4 Ref. no. 8580

LFBR 250 F7 Ref. no. 8534

LFBR 315 G4 Ref. no. 8581

LFBR 315 F7 Ref. no. 8535

Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

EHR-R 6/250 6,0 kW No. 8712

EHR-R 6/315 6,0 kW No. 8713

- with integrated temp. control

EHR-R 6/250 TR 6,0 kW No. 5296

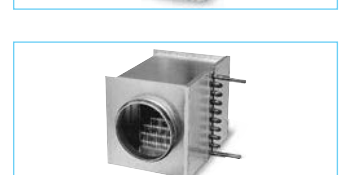
EHR-R 6/315 TR 6,0 kW No. 5301

Room or duct sensor required (TFK/TFR, accessory).



#### Temperature control system for electric heater batteries EHR-R

Type EHS Ref. no. 5002



#### Warm water heater battery

Type WHR 250 Ref. no. 9483

Type WHR 315 Ref. no. 9484

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

Type WHS HE Ref. no. 8319



For medium to smaller air flow volumes against high resistances.

Specifically made for in-duct installation. High pressure characteristic to overcome resistances of bends, filters etc. Universal in application for domestic, commercial and industrial purposes.

#### ■ Special features

- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Power adjustment by 100% variable speed control.
- ☐ Installation in any position.
- ☐ Wide range of accessories.
- ☐ Aerodynamically optimized casing design.

#### ■ Common features

##### ☐ Motor

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

##### ☐ Motor protection

Automatically switches off and on again after cooling due to built-in thermal contacts with the winding wired in series.

##### ☐ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

##### ☐ Sound levels

See page 333.

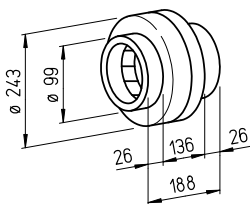
#### RR

Efficiency class

**E** **F**

RR 100 C

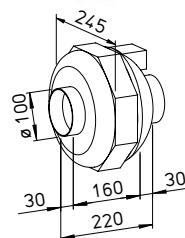
RR 100 A



Dim. in mm

#### RRK

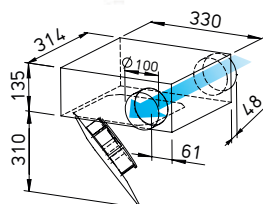
Alternative in corrosion and impact resistant polymer casing.



Dim. in mm

#### SVR

SlimVent – Exceptionally flat space saving miracle with swing out motor and impeller unit.



Dim. in mm

#### ■ Specification RR

##### ☐ Casing

Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.

##### ☐ Speed control

Type RR 100 A from 0 – 100 % possible by means of electronic controller or step transformer (see table). For Type RR 100 C additional two-speed operation using Type DS 2/2 (accessories).  
**Type DS 2/2** Ref. no. 1267

##### ☐ Electrical connection

Terminal box (IP 54) located on outer casing.

##### ☐ Impeller

Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

##### ☐ Protection class

When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 44.

#### ■ Specification RRK

##### ☐ Casing

All components made from corrosion and impact resistant polymer. Six built-in guide vanes also increase the level of efficiency. Colour: Silver-grey.

##### ☐ Speed control

From 0 – 100 % by means of electronic controller or step transformer (see table).

##### ☐ Electrical connection

Terminal box (IP 54) located on outer casing.

##### ☐ Impeller

Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

##### ☐ Protection class

IP 44

#### ■ Specification SVR

##### ☐ Casing

Flat and robust casing from galvanised sheet steel. Spigots on intake and extract with twin-seal rubber gaskets fit into standard ducts. Particularly service-friendly (cleaning) through swing out motor and impeller unit without disassembly of system components. Space for the swing out facility must be considered.

##### ☐ Speed control

From 0 – 100 % by means of electronic controller or step transformer (see table) or two-speed operation with Type DS 2/2 (accessories).  
**Type DS 2/2** Ref. no. 1267

##### ☐ Electrical connection

Terminal box (IP 54) fitted to running cable.

##### ☐ Impeller

Energy-saving centrifugal impeller with forward curved blades. Dynamically balanced for low noise operation.

##### ☐ Protection class

When installed in ducting IP 44.

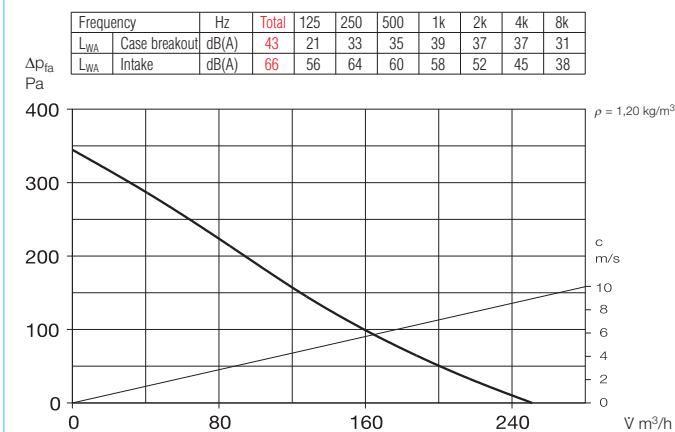
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net approx.	Transformer- speed controller 5-step	Electronic* speed controller, stepless flush / surface		
		V m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type RR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RR 100 A	5653	250	1730	36	41	0.18	0.18	508	60	60	2.9	TSW 0,3	3608	ESU 1 / ESA 1	0236 / 0238
RR 100 C <sup>1)</sup>	5654	330 <sup>1)</sup> /220	2530 <sup>1)</sup> /1655	42	62 <sup>1)</sup> /40	0.27 <sup>1)</sup> /0.18	0.27	934.1	60	60	2.9	TSW 0,3	3608	ESU 1 / ESA 1	0236 / 0238
Type RRK, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RRK 100	5973	260	2250	45	33	0.14	0.14	508	70	60	2.4	TSW 0,3	3608	ESU 1 / ESA 1	0236 / 0238
Type SVR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 33															
SVR 100 C <sup>2)</sup>	2658	310/245 <sup>2)</sup>	2600/1940 <sup>2)</sup>	45/40 <sup>2)</sup>	58/40 <sup>2)</sup>	0.25/0.18 <sup>2)</sup>	0.23	934.1	60	60	4.8	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238

<sup>1)</sup> Type with high speed; standard with additional energy-saving speed level (see performance diagram).

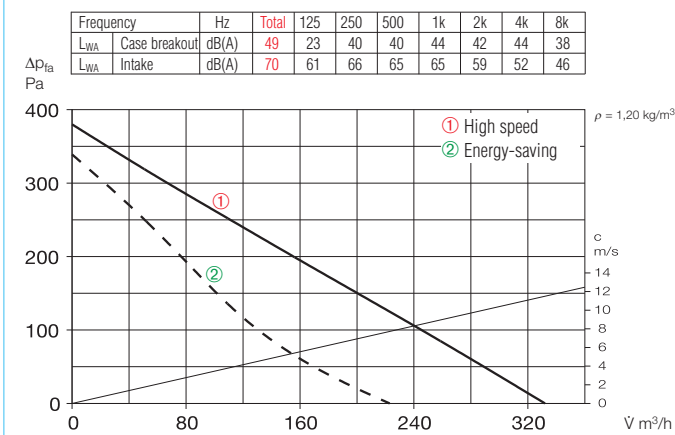
<sup>2)</sup> Values are related to the 2 speeds (see performance diagram).

\* In noise relevant cases transformer controller must be provided. An electronic controller can trigger a distracting magnetisation noise.

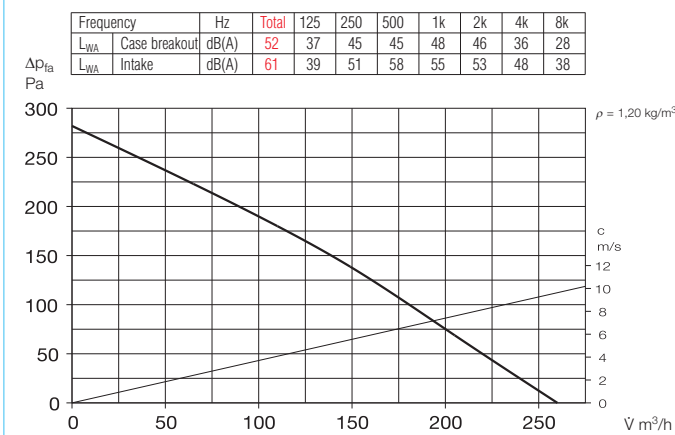
### RR 100 A



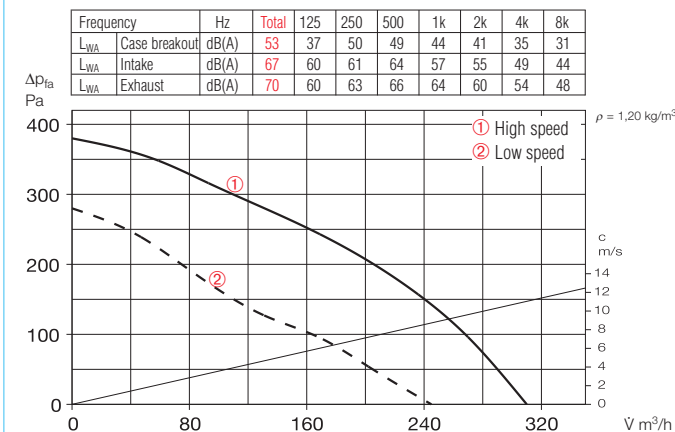
### RR 100 C



### RRK 100



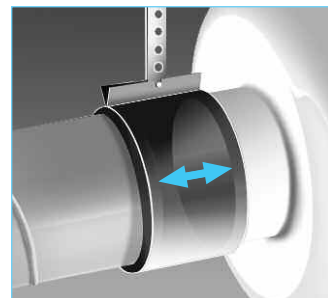
### SVR 100 C



### Accessories

#### Pipe clamp connectors

**Type BM 100** Ref. no. 5075  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



#### Mounting feet for RR

**Type MK 4** Ref. no. 5824

#### Mounting feet for RRK

**Type MK 1** Ref. no. 5821

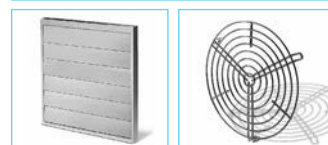
Made from galvanised steel sheet.



#### Gravity shutter

**Type VK 100** Ref. no. 0757

Automatic made from white polymer.



#### Rain repellent grille

**Type G 100** Ref. no. 0796

Made from white polymer.



#### Guard

**Type SGR 100** Ref. no. 5063

For intake and exhaust installation on fan, made from powder-coated steel wire.



#### Backdraught shutter

**Type RSKK 100** Ref. no. 5106

Automatic, made from polymer.



#### Flexible attenuator

**Type FSD 100** Ref. no. 0676

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 100 G4** Ref. no. 8576

**LFBR 100 F7** Ref. no. 8530

Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

**EHR-R 0,4/100** 0,4 kW No. 8708

In galvanised steel sheet casing.



#### Temperature control system for electric heater batteries EHR-R

**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 100** Ref. no. 9479

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817



For medium to smaller air flow volumes against high resistances.

Specifically made for in-duct installation. High pressure characteristic to overcome resistances of bends, filters etc. Universal in application for domestic, commercial and industrial purposes.

#### ■ Special features

- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Power adjustment by 100% variable speed control.
- ☐ Installation in any position.
- ☐ Wide range of accessories.
- ☐ Aerodynamically optimized casing design.

#### ■ Common features

##### ☐ Motor

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

##### ☐ Motor protection

Automatically switches off and on again after cooling due to built-in thermal contacts with the winding wired in series.

##### ☐ Installation

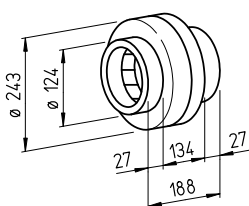
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

#### RR

Efficiency class

**E**

RR 125 C



Dim. in mm

#### ■ Specification RR

##### ☐ Casing

Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.

##### ☐ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table) or two-speed operation with Type DS 2/2 (accessories).

Type DS 2/2 Ref. no. 1267

##### ☐ Electrical connection

Terminal box (IP 54) located on outer casing.

##### ☐ Impeller

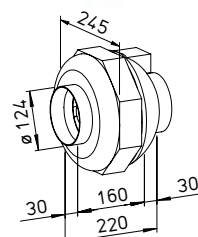
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

##### ☐ Protection class

When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 44.

#### RRK

Alternative in corrosion and impact resistant polymer casing.



Dim. in mm

#### ■ Specification RRK

##### ☐ Casing

All components made from corrosion and impact resistant polymer. Six built-in guide vanes also increase the level of efficiency. Colour: Silver-grey.

##### ☐ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table).

##### ☐ Electrical connection

Terminal box (IP 54) located on outer casing.

##### ☐ Impeller

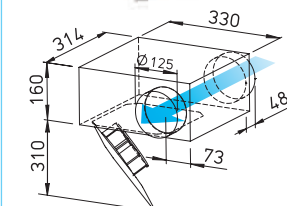
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

##### ☐ Protection class

IP 44

#### SVR

SlimVent – Exceptionally flat space saving miracle with swing out motor and impeller unit.



Dim. in mm

#### ■ Specification SVR

##### ☐ Casing

Flat and robust casing from galvanised sheet steel. Spigots on intake and extract with twin-seal rubber gaskets fit into standard ducts. Particularly service-friendly (cleaning) through swing out motor and impeller unit without disassembly of system components. Space for the swing out facility must be considered.

##### ☐ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table) or two-speed operation with Type DS 2/2 (accessories).

Type DS 2/2 Ref. no. 1267

##### ☐ Electrical connection

Terminal box (IP 54) fitted to running cable.

##### ☐ Impeller

Energy-saving centrifugal impeller with forward curved blades. Dynamically balanced for low noise operation.

##### ☐ Protection class

When installed in ducting IP 44.

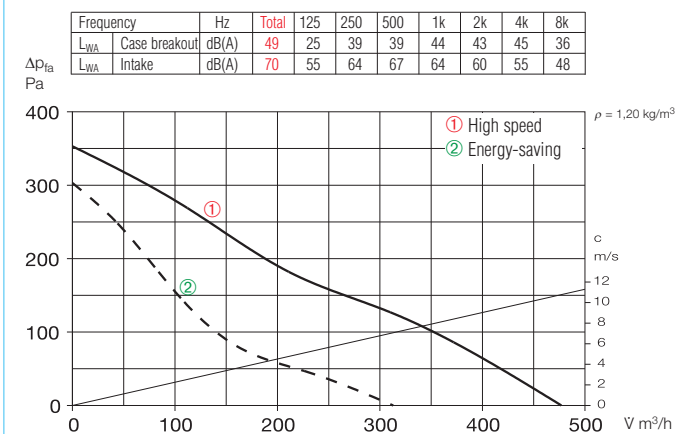
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current full load	control	Wiring diagram	max. air flow temp. full load	control	Weight net approx.	Transformer- speed controller 5-step	Electronic* speed controller, stepless flush / surface		
		∇ m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type RR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RR 125 C <sup>1)</sup>	5655	480 <sup>1)</sup> /310	2480 <sup>1)</sup> /1655	42	62 <sup>1)</sup> /40	0.27 <sup>1)</sup> /0.18	0.27	934.1	70	70	2.9	TSW 0,3	3608	ESU 1 / ESA 1	0236 / 0238
Type RRK, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RRK 125	5974	330	2415	48	65	0,30	0.30	508	70	60	3.1	TSW 0,3	3608	ESU 1 / ESA 1	0236 / 0238
Type SVR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 33															
SVR 125 B <sup>2)</sup>	2671	400/290 <sup>2)</sup>	2570/1810 <sup>2)</sup>	46/38 <sup>2)</sup>	59/41 <sup>2)</sup>	0.26/0.18 <sup>2)</sup>	0.24	934.1	60	60	5.1	TSW 1.5	1495	ESU 1 / ESA 1	0236 / 0238

<sup>1)</sup> Type with high speed; standard with additional energy-saving speed level (see performance diagram).

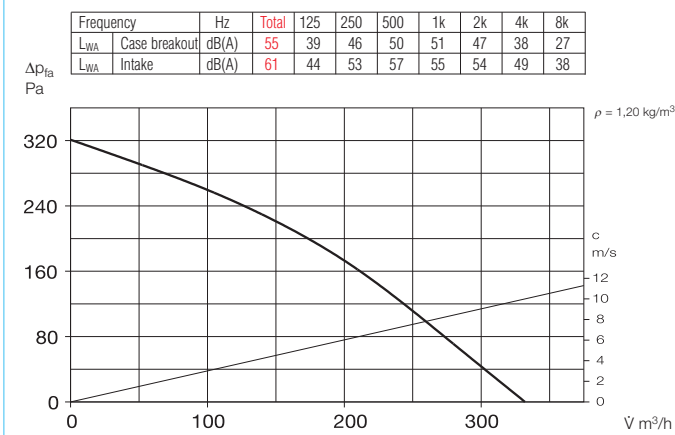
<sup>2)</sup> Values are related to the 2 speeds (see performance diagram).

\* In noise relevant cases transformer controller must be provided. An electronic controller can trigger a distracting magnetisation noise.

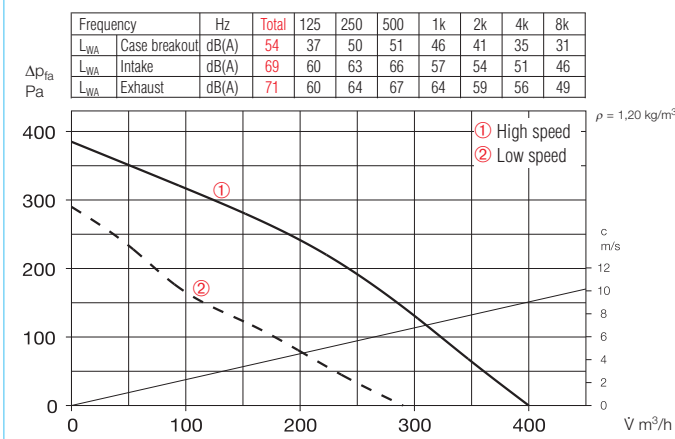
### RR 125 C



### RRK 125



### SVR 125 B



### Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for

- Sound level case breakout
- Sound level intake/exhaust

In addition, the case breakout and intake air noise figures are given as sound pressure levels at 1 metre (free field conditions) in the technical data table (see left page).

### Note

	Page
Techn. description	296
Selection chart	297
Information for planning	10 on
Modular system	294

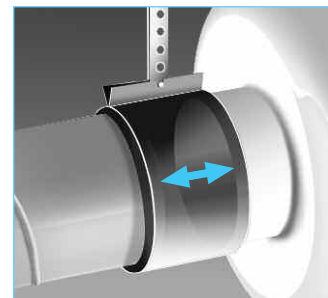
### Accessory details

	Page
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431 on
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

### Accessories

#### Pipe clamp connectors

**Type BM 125** Ref. no. 5076  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



#### Mounting feet for RR

**Type MK 4** Ref. no. 5824

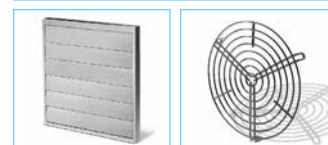
#### Mounting feet for RRK

**Type MK 1** Ref. no. 5821  
Made from galvanised steel sheet.



#### Gravity shutter

**Type VK 125** Ref. no. 0857  
Automatic made from white polymer.



#### Rain repellent grille

**Type G 160** Ref. no. 0893  
Made from white polymer.



#### Guard

**Type SGR 125** Ref. no. 5064  
For intake and exhaust installation on fan, made from powder-coated steel wire.



#### Backdraught shutter

**Type RSKK 125** Ref. no. 5107  
Automatic, made from polymer.



#### Flexible attenuator

**Type FSD 125** Ref. no. 0677  
Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 125 G4** Ref. no. 8577  
**LFBR 125 F7** Ref. no. 8531  
Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

**EHR-R 0,8/125** 0,8 kW No. 8709  
**EHR-R 1,2/125** 1,2 kW No. 9433  
– with integrated temp. control  
**EHR-R 0,8/125 TR** 0,8 kW No. 5293  
Room or duct sensor required (TFK/TFR, accessory).



#### Temperature control system for electric heater batteries EHR-R

**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 125** Ref. no. 9480  
Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817





For medium to smaller air flow volumes against high resistances.

Specifically made for in-duct installation. High pressure characteristic to overcome resistances of bends, filters etc. Universal in application for domestic, commercial and industrial purposes.

#### ■ Special features

- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Power adjustment by 100% variable speed control.
- Installation in any position.
- Wide range of accessories.
- Aerodynamically optimized casing design.

#### ■ Common features

##### □ Motor

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

##### □ Motor protection

Automatically switches off and on again after cooling due to built-in thermal contacts with the winding wired in series.

##### □ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

##### □ Sound levels

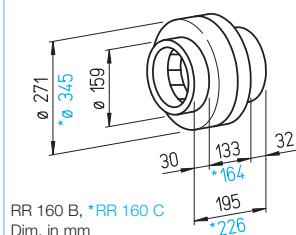
See page 333.

#### RR

Efficiency class

**E**

RR 160 B



RR 160 B, \*RR 160 C  
Dim. in mm

#### ■ Specification RR

##### □ Casing

Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.

##### □ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table) or two-speed operation with Type DS 2/2 (accessories).

Type DS 2/2 Ref. no. 1267

##### □ Electrical connection

Terminal box (IP 54) located on outer casing.

##### □ Impeller

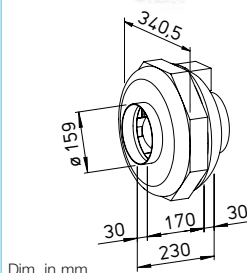
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

##### □ Protection class

When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 44.

#### RRK

Alternative in corrosion and impact resistant polymer casing.



Dim. in mm

#### ■ Specification RRK

##### □ Casing

All components made from corrosion and impact resistant polymer. Six built-in guide vanes also increase the level of efficiency. Colour: Silver-grey.

##### □ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table).

##### □ Electrical connection

Terminal box (IP 54) located on outer casing.

##### □ Impeller

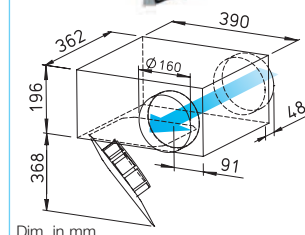
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

##### □ Protection class

IP 44

#### SVR

SlimVent – Exceptionally flat space saving miracle with swing out motor and impeller unit.



Dim. in mm

#### ■ Specification SVR

##### □ Casing

Flat and robust casing from galvanised sheet steel. Spigots on intake and extract with twin-seal rubber gaskets fit into standard ducts. Particularly service-friendly (cleaning) through swing out motor and impeller unit without disassembly of system components. Space for the swing out facility must be considered.

##### □ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table) or two-speed operation with Type DS 2/2 (accessories).

Type DS 2/2 Ref. no. 1267

##### □ Electrical connection

Terminal box (IP 54) fitted to running cable.

##### □ Impeller

Energy-saving centrifugal impeller with forward curved blades. Dynamically balanced for low noise operation.

##### □ Protection class

When installed in ducting IP 44.

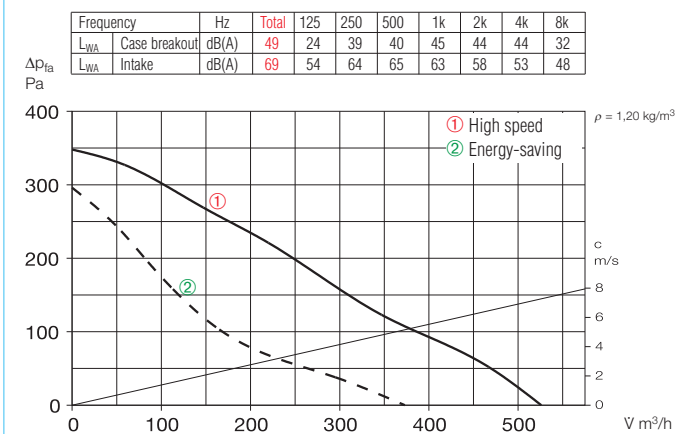
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net approx.	Transformer- speed controller 5-step	Electronic* speed controller, stepless flush / surface		
		V m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type RR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RR 160 B <sup>1)</sup>	5656	530 <sup>1)</sup> /370	2540 <sup>1)</sup> /1695	42	62 <sup>1)</sup> /40	0.27 <sup>1)</sup> /0.18	0.27	934.1	60	60	3.2	TSW 0,3	3608	ESU 1 / ESA 1	0236 / 0238
RR 160 C <sup>1)</sup>	5657	870 <sup>1)</sup> /610	2480 <sup>1)</sup> /1580	49	101 <sup>1)</sup> /64	0.44 <sup>1)</sup> /0.28	0.44	934.1	65	65	4.3	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
Type RRK, 1 phase motor, 230 V, 50 Hz, 1 phase motor, IP 44															
RRK 160	5976	430	2400	46	70	0.30	0.30	508	70	50	3.4	TSW 0,3	3608	ESU 1 / ESA 1	0236 / 0238
Type SVR, 1 phase motor, 230 V, 50 Hz, 1 phase motor, IP 33															
SVR 160 K <sup>2)</sup>	2672	450/310 <sup>2)</sup>	2550/1740 <sup>2)</sup>	45/37 <sup>2)</sup>	61/42 <sup>2)</sup>	0.26/0.19 <sup>2)</sup>	0.25	934.1	60	60	6.7	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238

<sup>1)</sup> Type with high speed; standard with additional energy-saving speed level (see performance diagram).

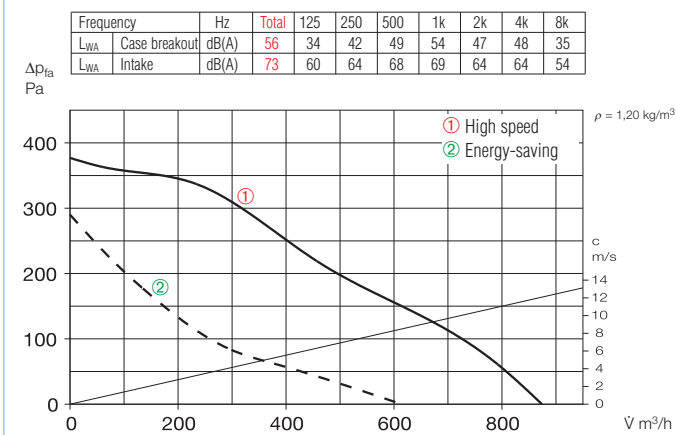
<sup>2)</sup> Values are related to the 2 speeds (see performance diagram).

\* In noise relevant cases transformer controller must be provided. An electronic controller can trigger a distracting magnetisation noise.

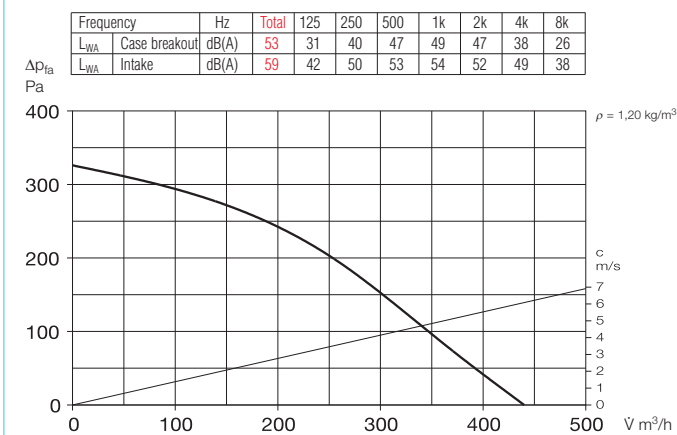
### RR 160 B



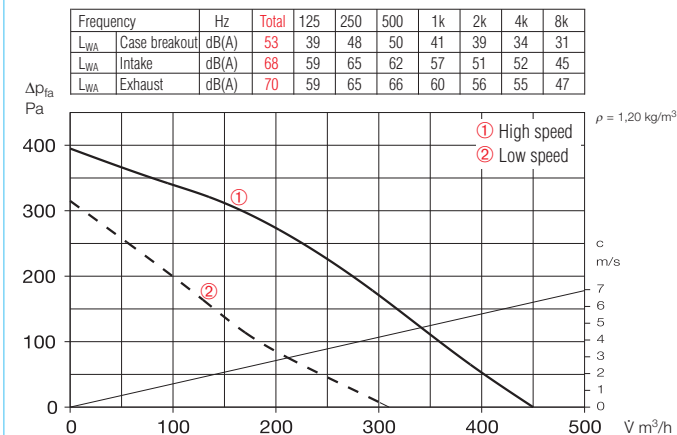
### RR 160 C



### RRK 160



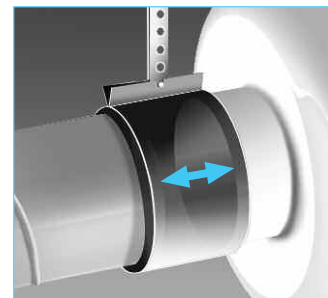
### SVR 160 K



### Accessories

#### Pipe clamp connectors

**Type BM 160** Ref. no. 5077  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



#### Mounting feet for RR

**Type MK 4** Ref. no. 5824

#### Mounting feet for RRK

**Type MK 2** Ref. no. 5822

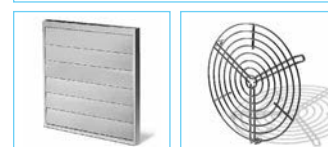
Made from galvanised steel sheet.



#### Gravity shutter

**Type VK 160** Ref. no. 0892

Automatic made from white polymer.



#### Rain repellent grille

**Type G 160** Ref. no. 0893

Made from white polymer.



#### Guard

**Type SGR 160** Ref. no. 5069

For intake and exhaust installation on fan, made from galvanised steel.



#### Backdraught shutter

**Type RSK 160** Ref. no. 5669

Automatic, made from metal.



#### Flexible attenuator

**Type FSD 160** Ref. no. 0678

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 160 G4** Ref. no. 8578

**LFBR 160 F7** Ref. no. 8532

Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

**EHR-R 1,2/160** 1,2 kW No. 9434

**EHR-R 2,4/160** 2,4 kW No. 9435

**EHR-R 5/160** 5,0 kW No. 8710

– with integrated temp. control

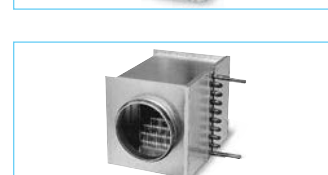
**EHR-R 2,4/160 TR** 2,4 kW No. 5294

Room or duct sensor required (TFK/TFR, accessory).



#### Temperature control system for electric heater batteries EHR-R

**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 160** Ref. no. 9481

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817

For medium to smaller air flow volumes against high resistances.

Specifically made for in-duct installation. High pressure characteristic to overcome resistances of bends, filters etc. Universal in application for domestic, commercial and industrial purposes.

#### ■ Special features

- ☐ Less space required and simple site installation of the compact in line design.
- ☐ Its simplicity reduces site costs.
- ☐ Supply and exhaust air spigots fit all standard circular duct sizes.
- ☐ Power adjustment by 100% variable speed control.
- ☐ Installation in any position.
- ☐ Wide range of accessories.
- ☐ Aerodynamically optimized casing design.

#### ■ Common features

##### ☐ Motor

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

##### ☐ Motor protection

Automatically switches off and on again after cooling due to built-in thermal contacts with the winding wired in series.

##### ☐ Installation

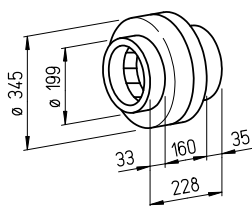
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

##### ☐ Sound levels

See page 333.

#### RR

Market-leading series offering excellent value for money.  
With energy saving mode as standard.



Dim. in mm

#### ■ Specification RR

##### ☐ Casing

Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.

##### ☐ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table).  
Two-speed operation possible for Type RR 200 A using Type DS 2/2 (accessories).

**Type DS 2/2** Ref. no. 1267

##### ☐ Electrical connection

Terminal box (IP 54) located on outer casing.

##### ☐ Impeller

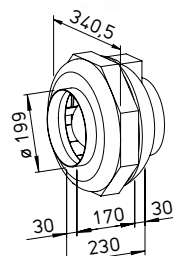
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

##### ☐ Protection class

When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 44.

#### RRK

Alternative in corrosion and impact resistant polymer casing.



Dim. in mm

#### ■ Specification RRK

##### ☐ Casing

All components made from corrosion and impact resistant polymer. Six built-in guide vanes also increase the level of efficiency. Colour: Silver-grey.

##### ☐ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table).

##### ☐ Electrical connection

Terminal box (IP 54) located on outer casing.

##### ☐ Impeller

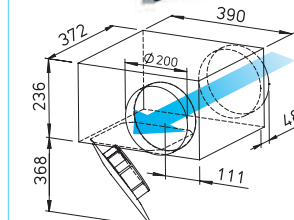
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

##### ☐ Protection class

IP 44

#### SVR

SlimVent – Exceptionally flat space saving miracle with swing out motor and impeller unit.



Dim. in mm

#### ■ Specification SVR

##### ☐ Casing

Flat and robust casing from galvanised sheet steel. Spigots on intake and extract with twin-seal rubber gaskets fit into standard ducts. Particularly service-friendly (cleaning) through swing out motor and impeller unit without disassembly of system components. Space for the swing out facility must be considered.

##### ☐ Speed control

From 0 – 100% by means of electronic controller or step transformer (see table).

##### ☐ Electrical connection

Terminal box (IP 54) fitted to running cable.

##### ☐ Impeller

Energy-saving centrifugal impeller with forward curved blades. Dynamically balanced for low noise operation.

##### ☐ Protection class

When installed in ducting IP 44.

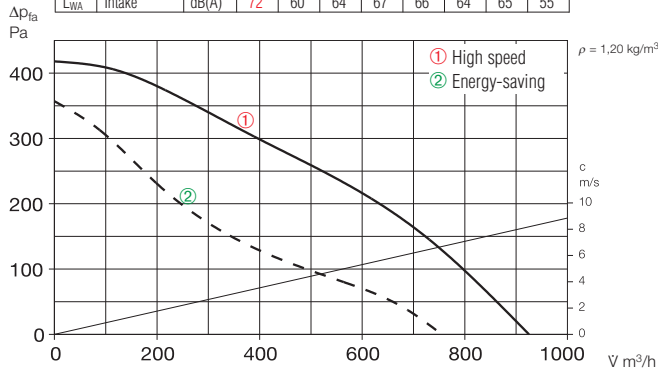
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net approx.	Transformer- speed controller 5-step	Electronic* speed controller, stepless flush / surface		
		V m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type RR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44 (Type RR 200 B, IP 33)															
RR 200 A <sup>1)</sup>	5658	930 <sup>1)</sup> /760	2580 <sup>1)</sup> /1830	47	115 <sup>1)</sup> /85	0.51 <sup>1)</sup> /0.39	0.51	934.1	60	60	4.6	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
RR 200 B	5659	980	2750	44	145	0.63	0.78	508	70	60	5.0	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
Type RRK, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RRK 200	5977	780	2395	56	115	0.50	0.50	508	60	50	3.6	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
Type SVR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 33															
SVR 200 K	2673	980	2730	57	154	0.67	0.81	508	70	50	8.4	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238

<sup>1)</sup> Type with high speed; standard with additional energy-saving speed level (see performance diagram).

\* In noise relevant cases transformer controller must be provided. An electronic controller can trigger a distracting magnetisation noise.

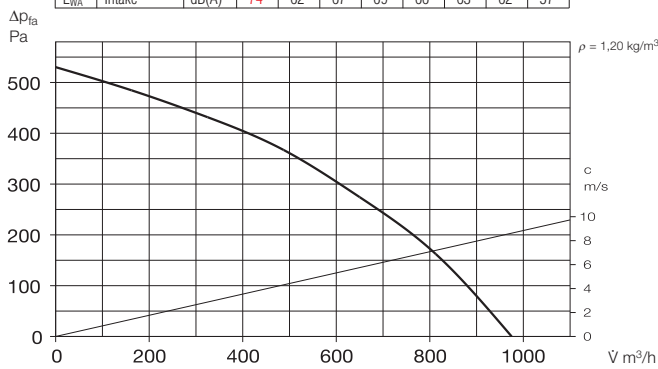
### RR 200 A

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	54	31	42	46	50	47	48	34
L <sub>WA</sub> Intake	dB(A)	72	60	64	67	66	64	65	55



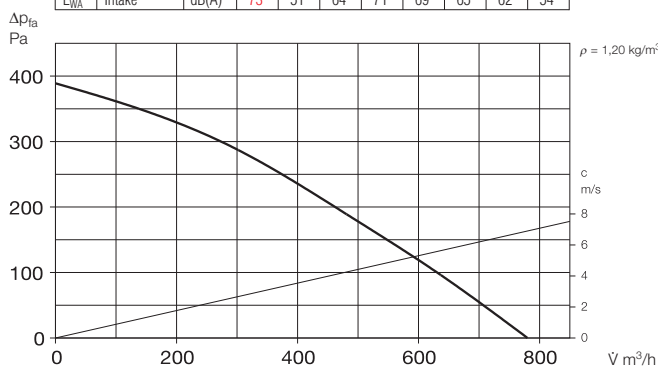
### RR 200 B

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	52	34	41	46	48	44	44	35
L <sub>WA</sub> Intake	dB(A)	74	62	67	69	66	63	62	57



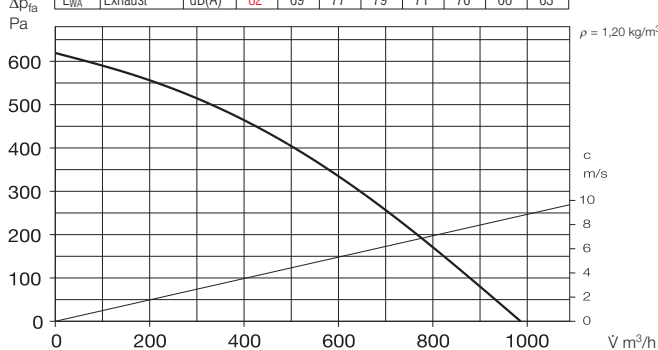
### RRK 200

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	63	42	47	57	58	57	51	38
L <sub>WA</sub> Intake	dB(A)	73	51	64	71	69	65	62	54



### SVR 200 K

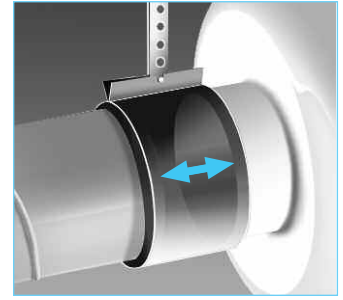
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	65	47	62	61	53	48	42	36
L <sub>WA</sub> Intake	dB(A)	78	65	74	73	65	63	60	57
L <sub>WA</sub> Exhaust	dB(A)	82	69	77	79	71	70	66	63



### Accessories

#### Pipe clamp connectors

**Type BM 200** Ref. no. 5078  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



#### Mounting feet for RR

**Type MK 4** Ref. no. 5824

#### Mounting feet for RRK

**Type MK 2** Ref. no. 5822

Made from galvanised steel sheet.



#### Gravity shutter

**Type VK 200** Ref. no. 0758

Made from polymer, light grey.



#### Rain repellent grille

**Type RAG 200** Ref. no. 0750

Made from polymer, light grey.

#### Guard

**Type SGR 200** Ref. no. 5066

For intake and exhaust installation on fan, made from galvanised steel.



#### Backdraught shutter

**Type RSK 200** Ref. no. 5074

Automatic, made from metal.



#### Flexible attenuator

**Type FSD 200** Ref. no. 0679

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.

#### Air filter box

**LFBR 200 G4** Ref. no. 8579

**LFBR 200 F7** Ref. no. 8533

Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

**EHR-R 1,2/200** 1,2 kW No. 9436

**EHR-R 2/200** 2,0 kW No. 9437

**EHR-R 5/200** 5,0 kW No. 8711

– with integrated temp. control

**EHR-R 5/200 TR** 5,0 kW No. 5295

Room or duct sensor required (TFK/TFR, accessory).



#### Temperature control system for electric heater batteries EHR-R

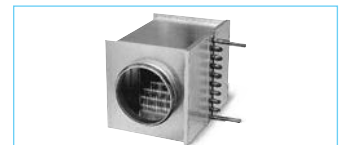
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 200** Ref. no. 9482

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817





For medium to smaller air flow volumes against high resistances.

Specifically made for in-duct installation. High pressure characteristic to overcome resistances of bends, filters etc. Universal in application for domestic, commercial and industrial purposes.

#### ■ Special features

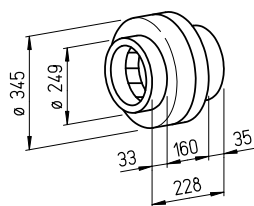
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Power adjustment by 100% variable speed control.
- Installation in any position.
- Wide range of accessories.
- Aerodynamically optimized casing design.

#### ■ Common features

- **Motor**  
Closed, ball bearing-mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance free and interference-free.
- **Motor protection**  
Automatically switches off and on again after cooling due to built-in thermal contacts with the winding wired in series.

#### RR

Market-leading series offering excellent value for money.  
With energy saving mode as standard.



Dim. in mm

#### ■ Specification RR

- **Casing**  
Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.

- **Speed control**  
From 0 – 100% by means of electronic controller or step transformer (see table).  
Two-speed operation possible for Type RR 200 A using Type DS 2/2 (accessories).  
**Type DS 2/2** Ref. no. 1267

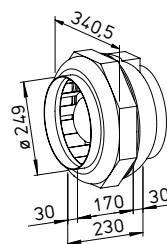
- **Electrical connection**  
Terminal box (IP 54) located on outer casing.

- **Impeller**  
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

- **Protection class**  
When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 44.

#### RRK

Alternative in corrosion and impact resistant polymer casing.



Dim. in mm

#### ■ Specification RRK

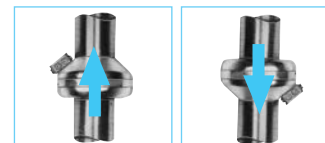
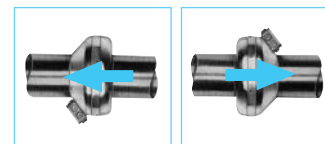
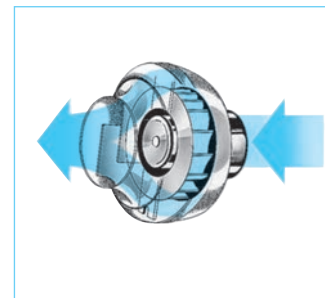
- **Casing**  
All components made from corrosion and impact resistant polymer. Six built-in guide vanes also increase the level of efficiency. Colour: Silver-grey.

- **Speed control**  
From 0 – 100% by means of electronic controller or step transformer (see table).

- **Electrical connection**  
Terminal box (IP 54) located on outer casing.

- **Impeller**  
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.

- **Protection class**  
IP 44



#### □ Installation

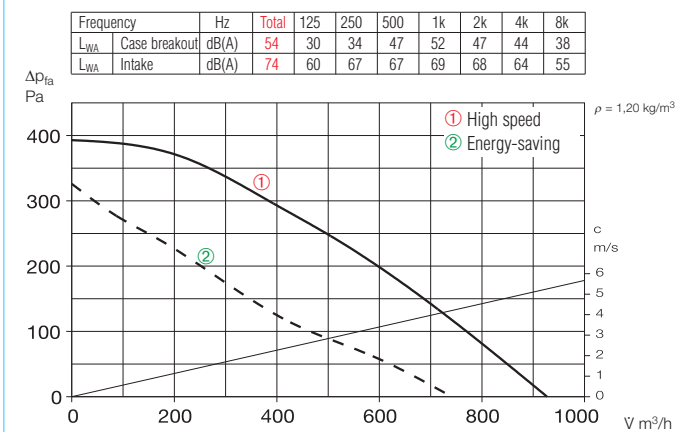
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current full load	control	Wiring diagram	max. air flow temp. full load	control	Weight net approx.	Transformer- speed controller 5-step	Electronic* speed controller, stepless flush / surface		
		∇ m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type RR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44 (Type RR 250 C, IP 33)															
RR 250 A <sup>1)</sup>	5652	886 <sup>1)</sup> /740	2580 <sup>1)</sup> /1910	46	115 <sup>1)</sup> /83	0.50 <sup>1)</sup> /0.38	0.50	934.1	60	60	4.6	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
RR 250 C	5660	970	2750	45	145	0.63	0.78	508	70	60	5.0	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
Type RRK, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RRK 250	5978	912	2450	53	115	0.50	0.50	508	50	40	3.9	TSW 1.5	1495	ESU 1 / ESA 1	0236 / 0238

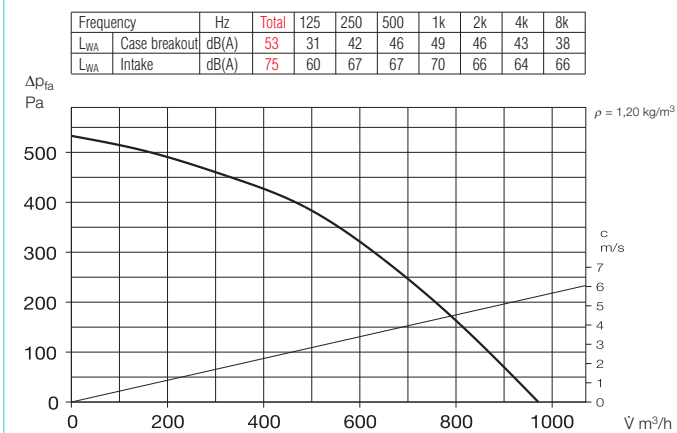
<sup>1)</sup> Type with high speed; standard with additional energy-saving speed level (see performance diagram).

\* In noise relevant cases transformer controller must be provided. An electronic controller can trigger a distracting magnetisation noise.

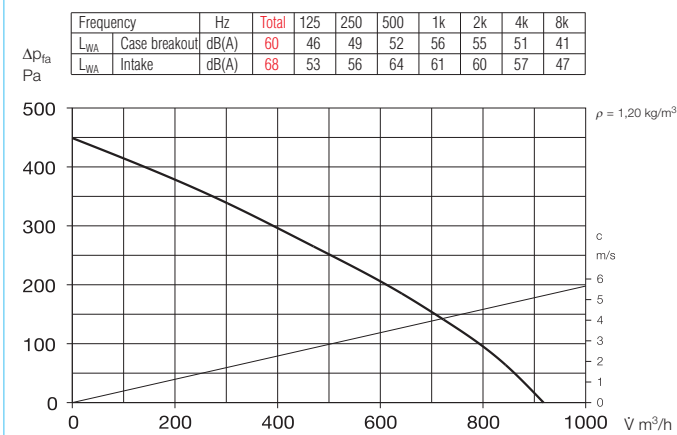
### RR 250 A



### RR 250 C



### RRK 250



### Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for

- Sound level case breakout
- Sound level intake/exhaust

In addition, the case breakout and intake air noise figures are given as sound pressure levels at 1 metre (free field conditions) in the technical data table (see left page).

### Note

	Page
Techn. description	296
Selection chart	297
Information for planning	10 on
Modular system	294

### Accessory details

	Page
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431 on
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

### Accessories

#### Pipe clamp connectors

**Type BM 250** Ref. no. 5079  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.

#### Mounting feet for RR

**Type MK 4** Ref. no. 5824

#### Mounting feet for RRK

**Type MK 2** Ref. no. 5822

Made from galvanised steel sheet.

#### Gravity shutter

**Type VK 250** Ref. no. 0759

Automatic made from polymer, light grey.

#### Rain repellent grille

**Type RAG 250** Ref. no. 0751

Made from polymer, light grey.

#### Guard

**Type SGR 250** Ref. no. 5067

For intake and exhaust installation on fan, made from galvanised steel.

#### Backdraught shutter

**Type RSK 250** Ref. no. 5673

Automatic, made from metal.

#### Flexible attenuator

**Type FSD 250** Ref. no. 0680

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.

#### Air filter box

**LFBR 250 G4** Ref. no. 8580

**LFBR 250 F7** Ref. no. 8534

Air filter with large surface area to be installed in-line with ducting.

#### Electric heater batteries

**EHR-R 6/250** 6,0 kW No. 8712

– with integrated temp. control

**EHR-R 6/250 TR** 6,0 kW No. 5296

Room or duct sensor required (TFK/TFR, accessory).

#### Temperature control system for electric heater batteries EHR-R

**Type EHS** Ref. no. 5002

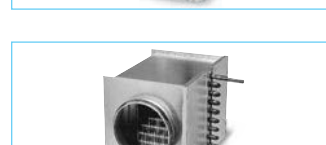
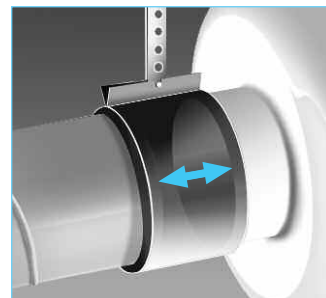
#### Warm water heater battery

**Type WHR 250** Ref. no. 9483

Compact heat exchanger for in-line installation.

#### Temperature control system for warm water heater battery

**Type WHS HE** Ref. no. 8319



For medium to smaller air flow volumes against high resistances.

Specifically made for in-duct installation. High pressure characteristic to overcome resistances of bends, filters etc. Universal in application for domestic, commercial and industrial purposes.

#### ■ Special features

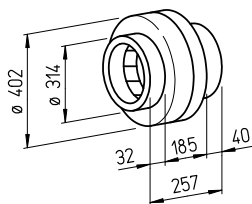
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Power adjustment by 100% variable speed control.
- Installation in any position.
- Wide range of accessories.
- Aerodynamically optimized casing design.

#### ■ Common features

- **Motor**  
Closed, ball bearing-mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance free and interference-free.
- **Motor protection**  
Automatically switches off and on again after cooling due to built-in thermal contacts with the winding wired in series.

#### RR

Market-leading series offering excellent value for money.



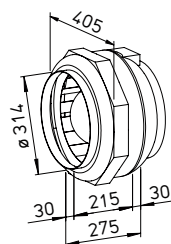
Dim. in mm

#### ■ Specification RR

- **Casing**  
Robust casing from galvanised sheet steel for harsh operating conditions. Intake and exhaust Spigots on intake and exhaust fit standard ducts.
- **Speed control**  
From 0 – 100% by means of electronic controller or step transformer (see table).
- **Electrical connection**  
Terminal box (IP 54) located on outer casing.
- **Impeller**  
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.
- **Protection class**  
When installed in intake and exhaust ducting and rainwater penetration is prevented, the fan is rated IP 44.

#### RRK

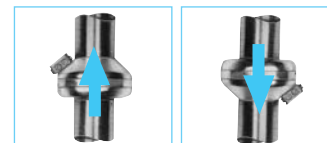
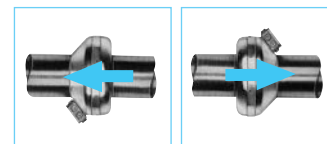
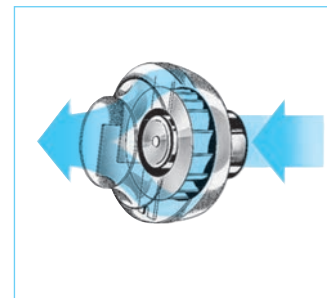
Alternative in corrosion and impact resistant polymer casing.



Dim. in mm

#### ■ Specification RRK

- **Casing**  
All components made from corrosion and impact resistant polymer. Six built-in guide vanes also increase the level of efficiency. Colour: Silver-grey.
- **Electrical connection**  
Terminal box (IP 54) located on outer casing.
- **Speed control**  
From 0 – 100% by means of electronic controller or step transformer (see table).
- **Impeller**  
Centrifugal impeller with backward curved polymer blades. Directly mounted to motor and dynamically balanced as a unit. Low-noise, highly efficient.
- **Protection class**  
IP 44



#### □ Installation

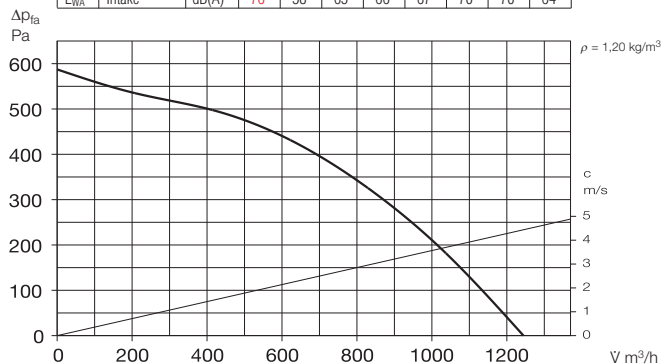
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Power consumption	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net approx.	Transformer- speed controller 5-step	Electronic* speed controller, stepless flush / surface		
		ṽ m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type RR, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RR 315	5920	1260	2660	46	200	0.87	0.97	508	70	60	6.1	TSW 1,5	1495	ESU 3 / ESA 3	0237 / 0239
Type RRK, 1 phase motor, 230 V, 50 Hz, capacitor motor, IP 44															
RRK 315	5979	1060	2690	48	170	0.75	0.97	508	70	60	5.7	TSW 1,5	1495	ESU 3 / ESA 3	0237 / 0239

\* In noise relevant cases transformer controller must be provided. An electronic controller can trigger a distracting magnetisation noise.

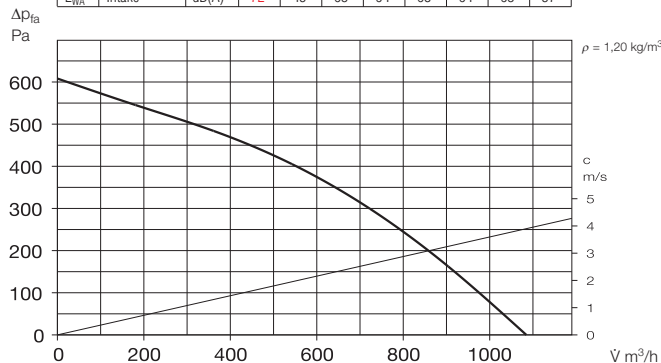
### RR 315

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub>	Case breakout	dB(A)	54	40	45	46	48	49	46	37
L <sub>WA</sub>	Intake	dB(A)	76	58	65	66	67	70	70	64



### RRK 315

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout	dB(A)	55	40	45	50	50	47	43	34
L <sub>WA</sub> Intake	dB(A)	72	45	63	64	68	64	63	57



### Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for

- Sound level case breakout
- Sound level intake/exhaust

In addition, the case breakout and intake air noise figures are given as sound pressure levels at 1 metre (free field conditions) in the technical data table (see left page).

### Note

	Page
Techn. description	296
Selection chart	297
Information for planning	10 on
Modular system	294

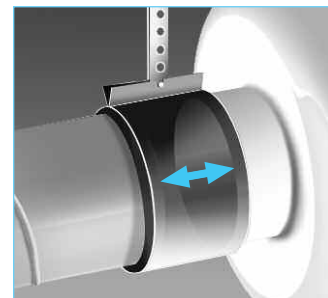
### Accessory details

	Page
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431 on
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

### Accessories

#### Pipe clamp connectors

**Type BM 315** Ref. no. 5080  
A quick-fix method for connecting fans to ducting, reducing vibration transmission (1 kit = 2 pieces). When installing leave a little gap between fan and ducting.



#### Mounting feet for RR

**Type MK 4** Ref. no. 5824

#### Mounting feet for RRK

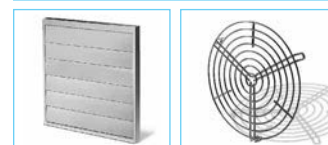
**Type MK 3** Ref. no. 5823  
Made from galvanised steel sheet.



#### Gravity shutter

**Type VK 315** Ref. no. 0760

Automatic made from polymer, light grey.



#### Rain repellent grille

**Type RAG 315** Ref. no. 0752

Made from polymer, light grey.



#### Guard

**Type SGR 315** Ref. no. 5068

For intake and exhaust installation on fan, made from galvanised steel.



#### Backdraught shutter

**Type RSK 315** Ref. no. 5674

Automatic, made from metal.



#### Flexible attenuator

**Type FSD 315** Ref. no. 0681

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 315 G4** Ref. no. 8581

**LFBR 315 F7** Ref. no. 8535

Air filter with large surface area to be installed in-line with ducting.



#### Electric heater batteries

**EHR-R 6/315** 6,0 kW No. 8713

– with integrated temp. control

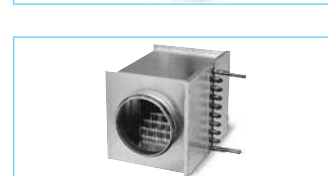
**EHR-R 6/315 TR** 6,0 kW No. 5301

Room or duct sensor required (TFK/TFR, accessory).



#### Temperature control system for electric heater batteries EHR-R

**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 315** Ref. no. 9484

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHS HE** Ref. no. 8319



## Acoustic Line from Helios. Ventilation doesn't get any quieter.

### LOW-NOISE



Acoustic Line in-line fans guarantee the lowest possible sound level for the intake side and casing-borne noise. They are suitable for use in the residential, commercial and industrial sectors and equipped with impellers capable of high-performance that are simultaneously energy-efficient and quiet impellers. Casing designed for sound insulation with 50 mm thick mineral wool lining also ensure particularly quiet operation.

### HELIOS SILENTBOX®



Ø 125 to 400 mm  
 $\dot{V} = 230 - 4760 \text{ m}^3/\text{h}$

The Helios SilentBox® is the clever solution for exhaust air and outdoor air ventilation systems with specific requirements on the noise level. With a sound-insulated casing for almost silent operation. The removable casing cover and the removable fan unit are ideal when it comes to maintenance and cleaning.

### HELIOS SLIMVENT



Ø 125 to 315 mm  
 $\dot{V} = 400 - 1630 \text{ m}^3/\text{h}$

The flat SlimVent models are only slightly larger than the duct diameter and allow for simple, space-saving installation in any chosen location. The high pressure allows for longer stretches of ducting and overcomes further system resistance. Minimal noise levels are achieved thanks to the complete mineral wool lining.



In-line fans

Acoustic Line

Energy-efficient  
EC version

344<sup>on</sup>

Acoustic Line

Standard AC types

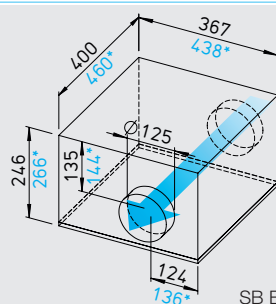
358<sup>on</sup>

### SilentBox® SB EC



acousticline

Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

SB EC 125 A, \*SB EC 125 B

#### ■ Similarities

SilentBox® SB EC  
and SlimVent SVS EC

#### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract. Mounting bracket included in delivery.

#### □ Motor

Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44 (SB EC 125 A IP 54). With ball bearings, maintenance-free and interference-free. Dynamically balanced for low noise operation.

#### □ Speed control

Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

#### □ Motor protection

Integrated electronic temperature monitoring for EC-motor and electronics.

#### □ Sound levels

See page 351.

#### ■ Specification SilentBox® EC

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to the impeller set. Motor-impeller unit can be pulled out, the pull-out range must be considered. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

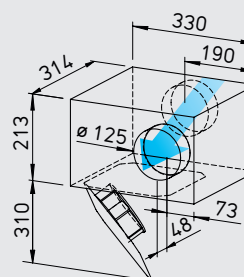
With backward curved impeller. Inflow via inlet cone. SB EC 125 A forward curved

### SlimVent SVS EC



acousticline

Ultra low profile. Ideal for applications with limited installation space. With sound-insulating mineral wool lining for particularly noise-free operation.



Dim. in mm

impeller in aerodynamically optimised volute casing, galvanised sheet steel.

#### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

#### □ Protection class

With a connected pipe system IP 44 (SB EC 125 A IP 54).

#### ■ Specification SlimVent SVS EC

##### □ Casing

Extremely flat casing in longer design with more than 50 mm thick sound-absorbing mineral wool lining and glass fibre surface. The acoustic box which is placed in front of the fan reduces the sound level for the intake significantly. The sound level of the case breakout is reduced to a smaller extent (see sound levels in the tables above the performance curves).

□ The swing out motor and impeller unit permits maintenance

and cleaning without disassembly of system components. The swing-out range of the motor-impeller unit must be considered.

#### □ Impeller

Energy-saving centrifugal impeller with backward curved blades from high quality polymer.

#### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

#### □ Protection class

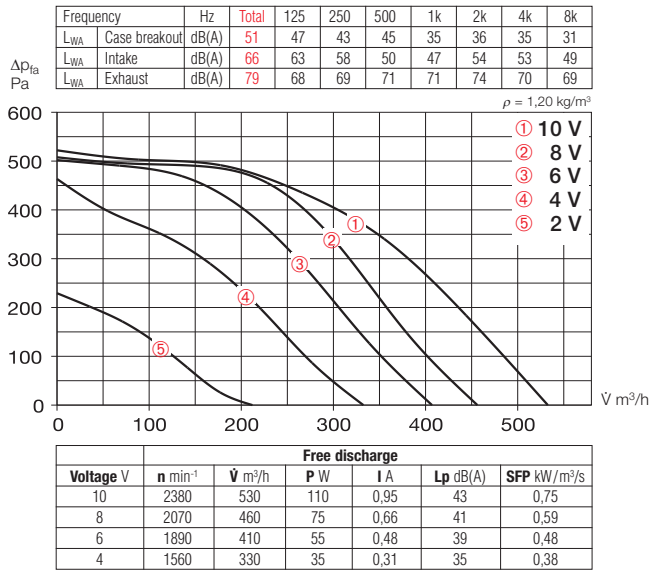
With a connected pipe system IP 44.



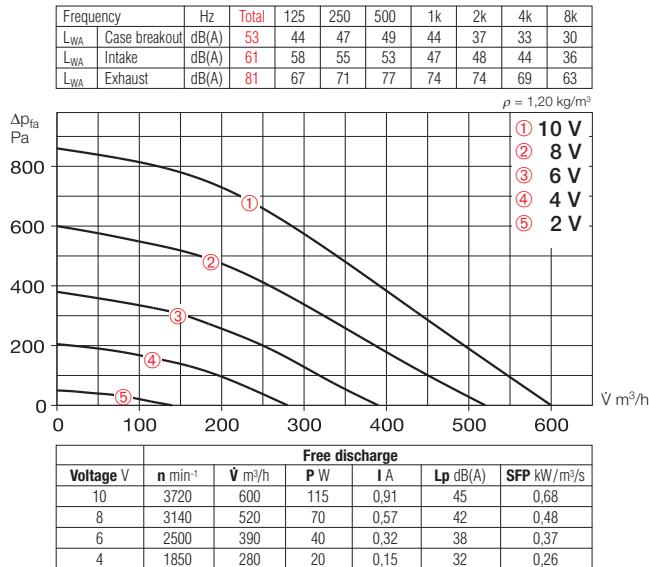
Type	Ref. no.	Connection Ø	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system	Speed-potentiometer flush		Speed-potentiometer surface		
		mm	Ų m³/h	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 54 (A), IP 44 (B)																
SB EC 125 A	6132	125	530	2790	43	0.12	1.00	979	60	10.0	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735
SB EC 125 B	9624	125	600	3680	45	0.12	0.93	979	60	12.0	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735
Type SVS EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 44																
SVS EC 125	0016	125	590	3670	54	0.12	0.93	979	60	5.8	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735

1) Several EC fans can normally be connected. 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three step speed controller (SU/SA, No. 4266/4267), see accessories.

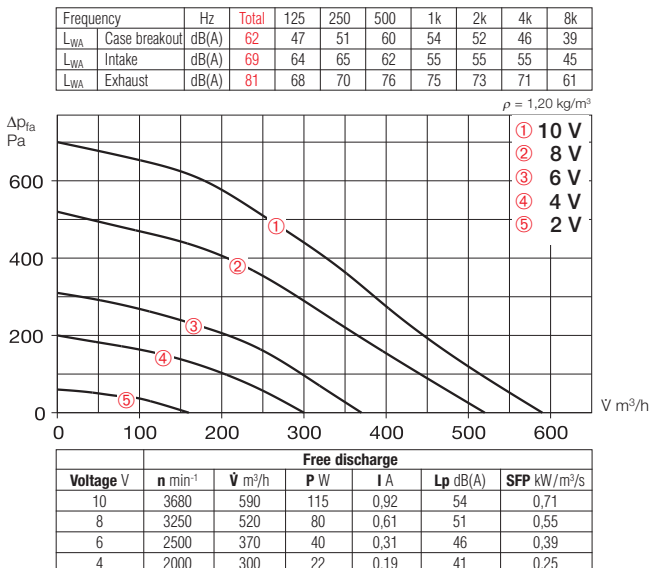
### SB EC 125 A



### SB EC 125 B



### SVS EC 125

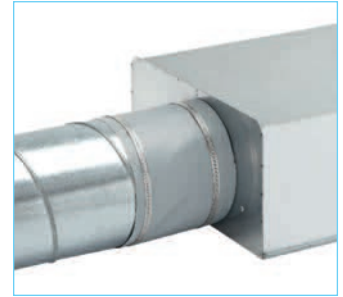


### Accessories

#### Flexible sleeve

**Type FM 125** Ref. no. 1682

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

**Type VK 125** Ref. no. 0857

Automatic made from polymer, white.



#### Fixed grille

**Type G 160** Ref. no. 0893

Made from polymer, white.



#### Guard

**Type SGR 125** Ref. no. 5064

For intake and extract installation. Made from powder-coated steel wire.



#### Backdraught shutter

**Type RSKK 125** Ref. no. 5107

Automatic, made from polymer.



#### Flexible circular attenuator

**Type FSD 125** Ref. no. 0677

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 125 G4** Ref. no. 8577

**LFBR 125 F7** Ref. no. 8531

Air filter with large surface area, for installation in ducting.



#### Electric heater battery

**EHR-R 0,8/125** 0,8 kW No. 8709

**EHR-R 1,2/125** 1,2 kW No. 9433

– with integrated temp. control

**EHR-R 0,8/125 TR** 0,8 kW No. 5293

Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system for electric heater battery EHR-R

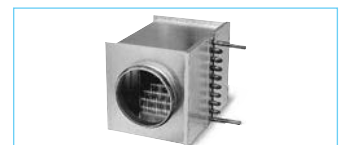
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 125** Ref. no. 9480

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817

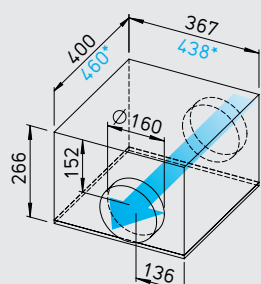




### SilentBox® SB EC



Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



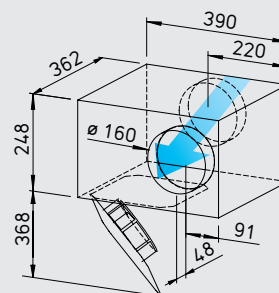
Dim. in mm

SB EC 160 A, \*SB EC 160 B

### SlimVent SVS EC



Ultra low profile. Ideal for applications with limited installation space. With sound-insulating mineral wool lining for particularly noise-free operation.



Dim. in mm

#### ■ Similarities

SilentBox® SB EC  
and SlimVent SVS EC

#### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract. Mounting bracket included in delivery.

#### □ Motor

Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44 (SB EC 160 A IP 54). With ball bearings, maintenance-free and interference-free. Dynamically balanced for low noise operation.

#### □ Speed control

Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

#### □ Motor protection

Integrated electronic temperature monitoring for EC-motor and electronics.

#### □ Sound levels

See page 351.

#### ■ Specification SilentBox® EC

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to the impeller set. Motor-impeller unit can be pulled out, the pull-out range must be considered. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

With backward curved impeller. Inflow via inlet cone.

SB EC 160 A forward curved

impeller in aerodynamically optimised volute casing, galvanised sheet steel.

#### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

#### □ Protection class

With a connected pipe system IP 44 (SB EC 160 A IP 54).

#### ■ Specification SlimVent SVS EC

##### □ Casing

Extremely flat casing in longer design with more than 50 mm thick sound-absorbing mineral wool lining and glass fibre surface. The acoustic box which is placed in front of the fan reduces the sound level for the intake significantly. The sound level of the case breakout is reduced to a smaller extent (see sound levels in the tables above the performance curves).

□ The swing out motor and impeller unit permits maintenance

and cleaning without disassembly of system components. The swing-out range of the motor-impeller unit must be considered.

#### □ Impeller

Energy-saving centrifugal impeller with backward curved blades from high quality polymer.

#### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

#### □ Protection class

With a connected pipe system IP 44.

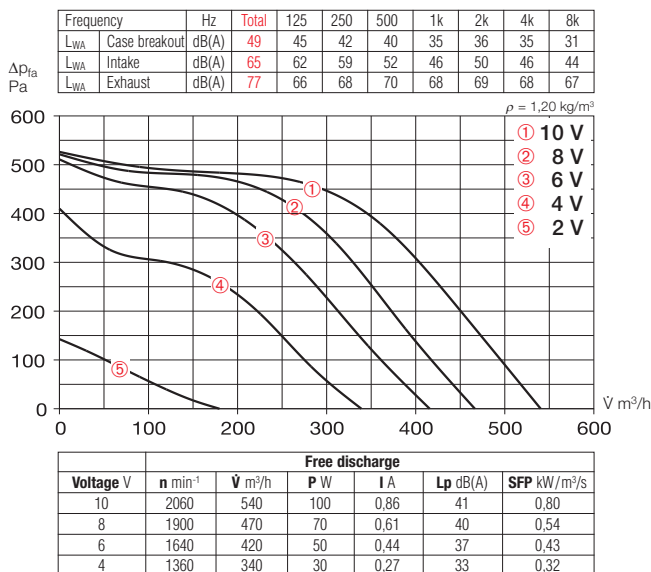


Type	Ref. no.	Connection Ø	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		Speed-potentiometer surface	
		mm	l m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 54 (A), IP 44 (B)																
SB EC 160 A	6136	160	540	2640	41	0.12	0.98	979	60	10.0	EUR EC ¹) ²)	1347	PU 10 ¹)	1734	PA 10 ¹)	1735
SB EC 160 B	9625	160	670	3630	45	0.11	0.89	979	60	12.0	EUR EC ¹) ²)	1347	PU 10 ¹)	1734	PA 10 ¹)	1735
Type SVS EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 44																
SVS EC 160 A ³)	0017	160	620	3650	55	0.12	0.93	979	60	8.0	EUR EC ¹) ²)	1347	PU 10 ¹)	1734	PA 10 ¹)	1735
SVS EC 160 B	0018	160	800	3100	55	0.13	1.04	979	60	7.6	EUR EC ¹) ²)	1347	PU 10 ¹)	1734	PA 10 ¹)	1735

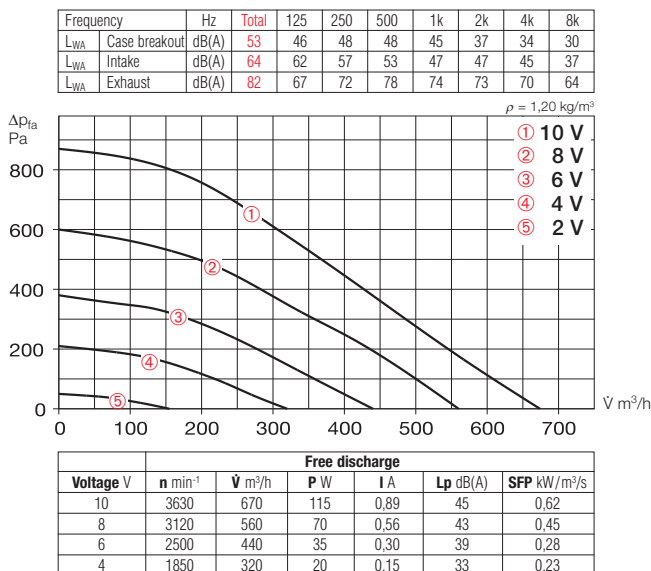
1) Several EC fans can normally be connected. 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three step speed controller (SU/SA, No. 4266/4267), see accessories.

3) Characteristic curve on www.HeliosSelect.de

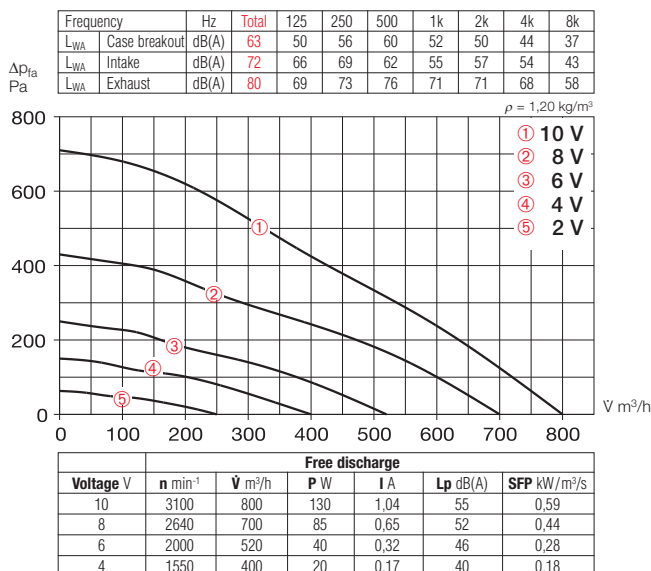
### SB EC 160 A



### SB EC 160 B



### SVS EC 160 B

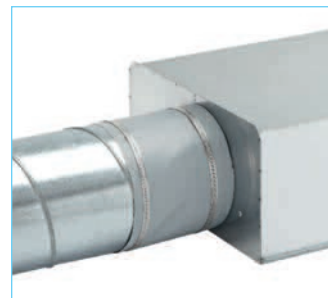


### Accessories

#### Flexible sleeve

**Type FM 160** Ref. no. 1684

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

**Type VK 160** Ref. no. 0892

Automatic made from polymer, white.



#### Fixed grille

**Type G 160** Ref. no. 0893

Made from polymer, white.



#### Guard

**Type SGR 160** Ref. no. 5069

For intake and extract installation. Made from galvanised steel.



#### Backdraught shutter

**Type RSK 160** Ref. no. 5669

Automatic, made from metal.



#### Flexible circular attenuator

**Type FSD 160** Ref. no. 0678

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 160 G4** Ref. no. 8578

**LFBR 160 F7** Ref. no. 8532

Air filter with large surface area, for installation in ducting.



#### Electric heater battery

**EHR-R 1,2/160** 1,2 kW No. 9434

**EHR-R 2,4/160** 2,4 kW No. 9435

**EHR-R 5/160** 5,0 kW No. 8710

– with integrated temp. control

**EHR-R 2,4/160 TR 2,4 kW** No. 5294

Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system for electric heater battery EHR-R

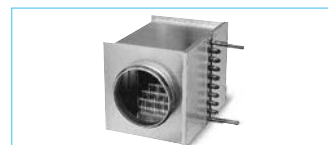
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 160** Ref. no. 9481

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817

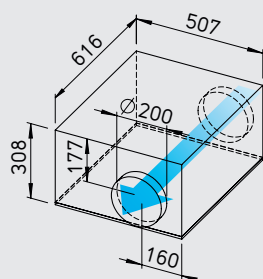


### SilentBox® SB EC



acousticline

Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

#### ■ Similarities

SilentBox® SB EC  
and SlimVent SVS EC

#### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract. Mounting bracket included in delivery.

#### □ Motor

Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44 (SB EC 200 A IP 54). With ball bearings, maintenance-free and interference-free. Dynamically balanced for low noise operation.

#### □ Speed control

Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

#### □ Motor protection

Integrated electronic temperature monitoring for EC-motor and electronics.

#### □ Sound levels

See page 351.

#### ■ Specification SilentBox® EC

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to the impeller set. Motor-impeller unit can swing-out, the swing-out range of the motor-impeller unit must be considered. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

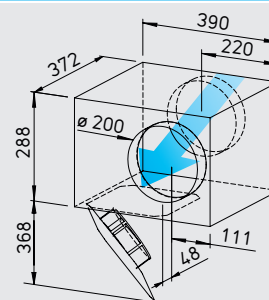
With backward curved impeller. Inflow via inlet cone.

### SlimVent SVS EC



acousticline

Ultra low profile. Ideal for applications with limited installation space. With sound-insulating mineral wool lining for particularly noise-free operation.



Dim. in mm

#### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

#### □ Protection class

With a connected pipe system IP 44 (SB EC 200 A IP 54).

#### ■ Specification SlimVent SVS EC

##### □ Casing

Extremely flat casing in longer design with more than 50 mm thick sound-absorbing mineral wool lining and glass fibre surface. The acoustic box which is placed in front of the fan reduces the sound level for the intake significantly. The sound level of the case breakout is reduced to a smaller extent (see sound levels in the tables above the performance curves).

The swing out motor and impeller unit permits maintenance and cleaning without disassembly of system components. The swing-out range of the

motor-impeller unit must be considered.

#### □ Impeller

Energy-saving centrifugal impeller with backward curved blades from high quality polymer.

#### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

#### □ Protection class

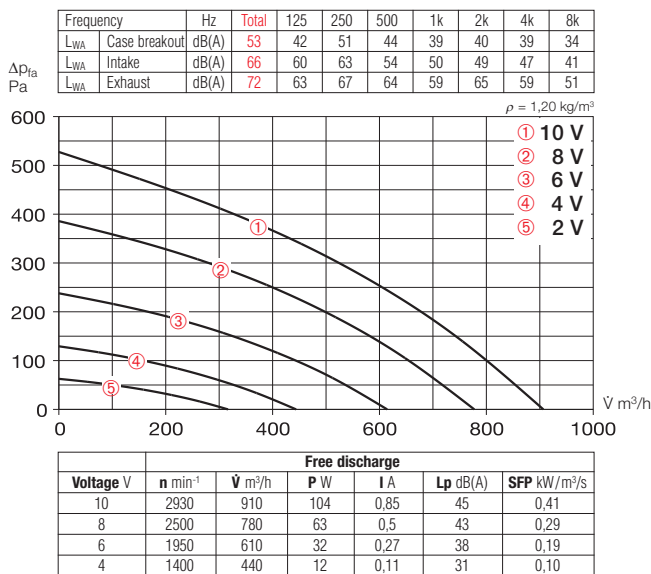
With a connected pipe system IP 44.



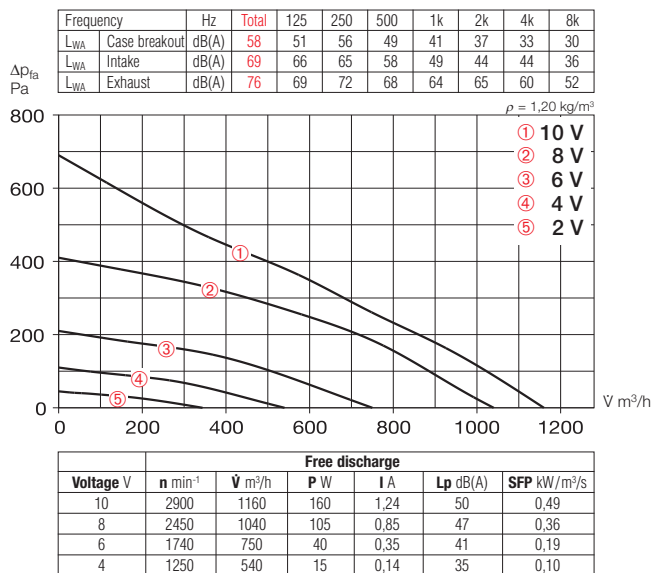
Type	Ref. no.	Connection Ø	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system	Speed-potentiometer flush	Speed-potentiometer surface
		mm	m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
<b>Type SilentBox® SB EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 54 (A), IP 44 (B)</b>													
SB EC 200 A	6138	200	910	2900	45	0.12	0.99	979	60	19.0	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
SB EC 200 B	9626	200	1160	2890	50	0.16	1.24	979	60	19.0	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
<b>Type SVS EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 44</b>													
SVS EC 200	0019	200	1030	2820	55	0.16	1.25	979	60	8.3	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735

1) Several EC fans can normally be connected. 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three step speed controller (SU/SA, No. 4266/4267), see accessories.

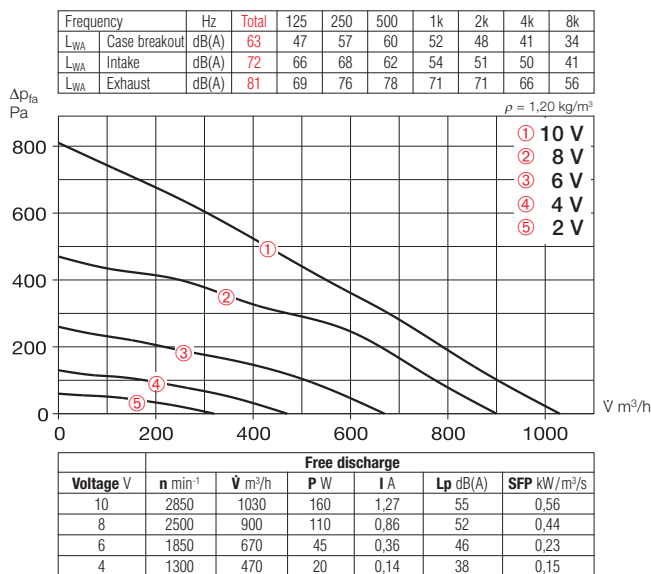
### SB EC 200 A



### SB EC 200 B



### SVS EC 200

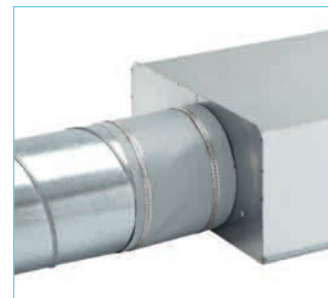


### Accessories

#### Flexible sleeve

**Type FM 200** Ref. no. 1670

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

**Type VK 200** Ref. no. 0758

Made from polymer, light grey.



#### Fixed grille

**Type RAG 200** Ref. no. 0750

For covering air inlets and outlets on facades. Made from polymer, light grey.



#### Guard

**Type SGR 200** Ref. no. 5066

For intake and extract installation. Made from galvanised steel.



#### Backdraught shutter

**Type RSK 200** Ref. no. 5074

Automatic, made from metal.



#### Flexible circular attenuator

**Type FSD 200** Ref. no. 0679

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 200 G4** Ref. no. 8579

**LFBR 200 F7** Ref. no. 8533

Air filter with large surface area, for installation in ducting.



#### Electric heater battery

**EHR-R 1,2/200** 1,2 kW No. 9436

**EHR-R 2/200** 2,0 kW No. 9437

**EHR-R 5/200** 5,0 kW No. 8711

– with integrated temp. control

**EHR-R 5/200 TR** 5,0 kW No. 5295

Room or duct sensor (TFK/TFR, accessories) required.



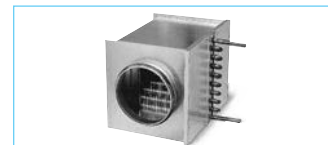
**Temperature control system for electric heater battery EHR-R**  
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 200** Ref. no. 9482

Compact heat exchanger for in-line installation.



**Temperature control system for warm water heater battery**  
**Type WHST 300 T38** No. 8817

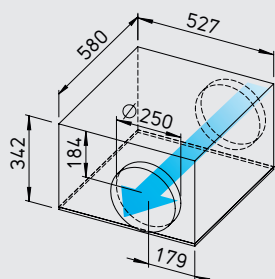




### SilentBox® SB EC



Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

#### ■ Similarities SilentBox® SB EC and SlimVent SVS EC

##### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract. Mounting bracket included in delivery.

##### □ Motor

Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free. Dynamically balanced for low noise operation.

##### □ Speed control

Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

##### □ Motor protection

Integrated electronic temperature monitoring for EC-motor and electronics.

#### ■ Specification SilentBox® EC

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to the impeller set. Motor-impeller unit can swing-out, the swing-out range of the motor-impeller unit must be considered. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

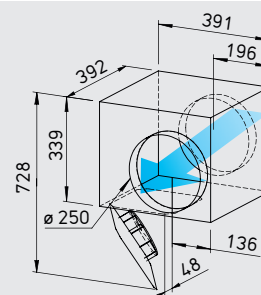
##### □ Impeller

With backward curved impeller. Inflow via inlet cone.

### SlimVent SVS EC



Ultra low profile. Ideal for applications with limited installation space. With sound-insulating mineral wool lining for particularly noise-free operation.



Dim. in mm

##### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

##### □ Protection class

With a connected pipe system IP 44.

#### ■ Specification SlimVent SVS EC

##### □ Casing

Extremely flat casing in longer design with more than 50 mm thick sound-absorbing mineral wool lining and glass fibre surface. The acoustic box which is placed in front of the fan reduces the sound level for the intake significantly. The sound level of the case breakout is reduced to a smaller extent (see sound levels in the tables above the performance curves).

□ The swing out motor and impeller unit permits maintenance and cleaning without disassembly of system components. The swing-out range of the

motor-impeller unit must be considered.

##### □ Impeller

Energy-saving centrifugal impeller with backward curved blades from high quality polymer.

##### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

##### □ Protection class

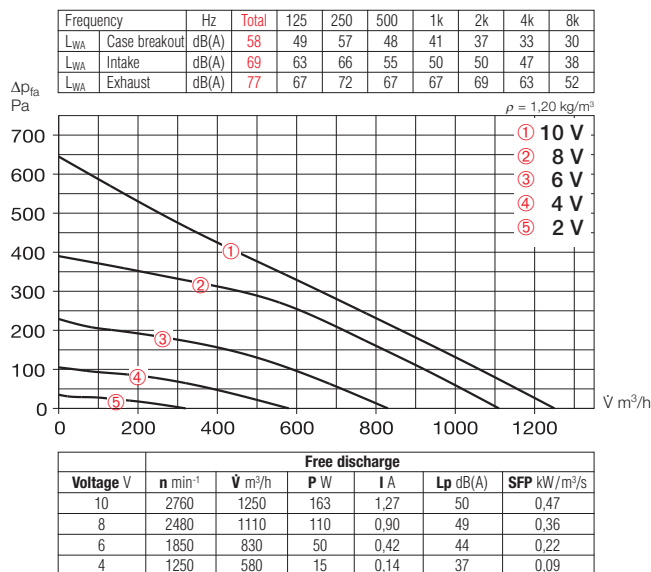
With a connected pipe system IP 44.



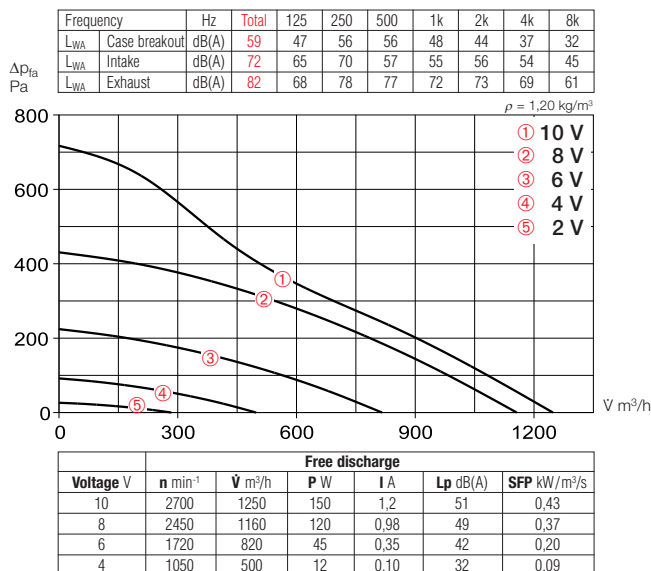
Type	Ref. no.	Connection Ø	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		Speed-potentiometer surface	
		mm	l/min/h	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 44																
SB EC 250	9627	250	1250	2760	50	0.16	1.27	979	60	17.5	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735
Type SVS EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 44																
SVS EC 250	6125	250	1250	2700	51	0.15	1.27	979	50	9.1	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735

1) Several EC fans can normally be connected. 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three step speed controller (SU/SA, No. 4266/4267), see accessories.

### SB EC 250



### SVS EC 250



### Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 1 m (free field conditions).

### Accessory details

Filters, heater batteries and attenuators 421 on

Temperature control systems for heater batteries 427, 431 on

Flexible ventilation ducting, Grilles, adaptors, roof terminations 487 on

Valves 508 on

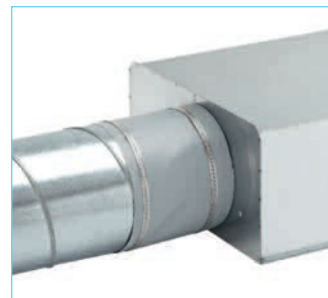
Universal control system, electronic controller, speed-potentiometer 539 on

### Accessories

#### Flexible sleeve

Type FM 250 Ref. no. 1672

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

Type VK 250 Ref. no. 0759

Automatic made from polymer, light grey.



#### Fixed grille

Type RAG 250 Ref. no. 0751

For covering air inlets and outlets on facades. Made from polymer, light grey.



#### Guard

Type SGR 250 Ref. no. 5067

For intake and extract installation. Made from galvanised steel.



#### Backdraught shutter

Type RSK 250 Ref. no. 5673

Automatic, made from metal.



#### Flexible circular attenuator

Type FSD 250 Ref. no. 0680

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

LFBR 250 G4 Ref. no. 8580

LFBR 250 F7 Ref. no. 8534

Air filter with large surface area, for installation in ducting.



#### Electric heater battery

EHR-R 6/250 6,0 kW No. 8712

– with integrated temp. control

EHR-R 6/250 TR 6,0 kW No. 5296

Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system for electric heater battery EHR-R

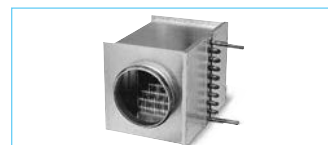
Type EHS Ref. no. 5002



#### Warm water heater battery

Type WHR 250 Ref. no. 9483

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

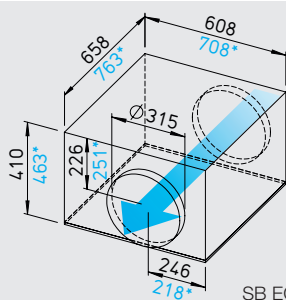
Type WHS HE Ref. no. 8319



### SilentBox® SB EC



Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



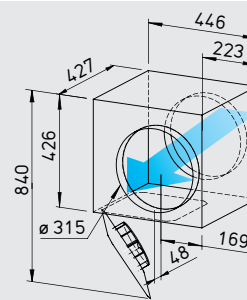
Dim. in mm

SB EC 315 A, \*SB EC 315 B

### SlimVent SVS EC



Ultra low profile. Ideal for applications with limited installation space. With sound-insulating mineral wool lining for particularly noise-free operation.



Dim. in mm

#### ■ Similarities SilentBox® SB EC and SlimVent SVS EC

##### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract. Mounting bracket included in delivery.

##### □ Motor

Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 54 (SB EC) or IP 44 (SVS EC). With ball bearings, maintenance-free and interference-free. Dynamically balanced for low noise operation.

##### □ Speed control

Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

##### □ Motor protection

Integrated electronic temperature monitoring for EC-motor and electronics.

##### □ Sound levels

See page 351.

#### ■ Specification SilentBox® EC

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to the impeller set. Motor-impeller unit can swing-out, the swing-out range of the motor-impeller unit must be considered. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

With backward curved impeller. Inflow via inlet cone.

##### □ Electrical connection

Terminal box (IP 54) mounted on running cable (approx. 60 cm long).

##### □ Protection class

With a connected pipe system IP 54.

#### ■ Specification SlimVent SVS EC

##### □ Casing

Extremely flat casing in longer design with more than 50 mm thick sound-absorbing mineral wool lining and glass fibre surface. The acoustic box which is placed in front of the fan reduces the sound level for the intake significantly. The sound level of the case breakout is reduced to a smaller extent (see sound levels in the tables above the performance curves).

□ The swing out motor and impeller unit permits maintenance and cleaning without disassembly of system components.

The swing-out range of the motor-impeller unit must be considered.

##### □ Impeller

Energy-saving centrifugal impeller with backward curved blades from high quality polymer.

##### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

##### □ Protection class

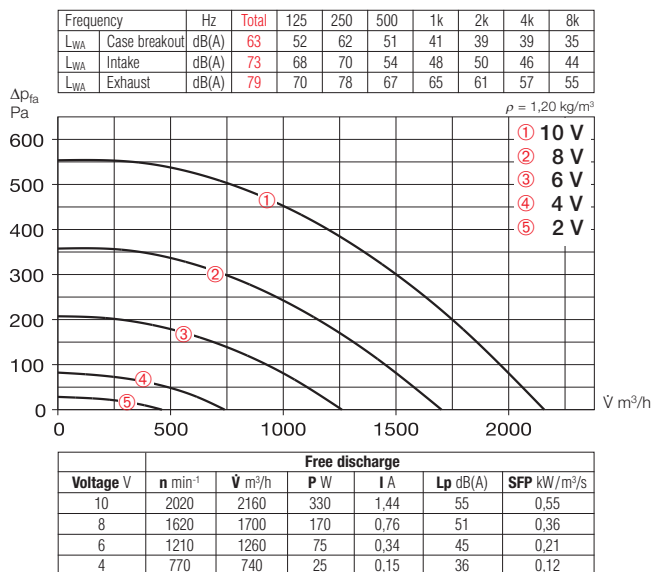
With a connected pipe system IP 44.



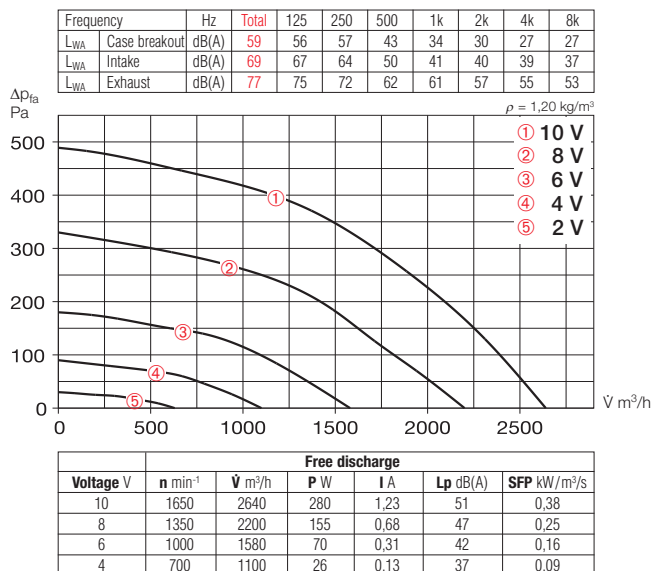
Type	Ref. no.	Connection Ø	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system	Speed-potentiometer flush	Speed-potentiometer surface
		mm	m³/h	min⁻¹	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
<b>Type SilentBox® SB EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 54</b>													
SB EC 315 A	6157	315	2160	2020	55	0.33	1.50	1066	60	34.0	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
SB EC 315 B	9628	315	2640	1650	51	0.31	1.36	1066	60	49.0	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735
<b>Type SVS EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 44</b>													
SVS EC 315	6126	315	1630	2400	51	0.23	0.99	979	45	14.5	EUR EC <sup>1) 2)</sup> 1347	PU 10 <sup>1)</sup> 1734	PA 10 <sup>1)</sup> 1735

1) Several EC fans can normally be connected. 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three step speed controller (SU/SA, No. 4266/4267), see accessories.

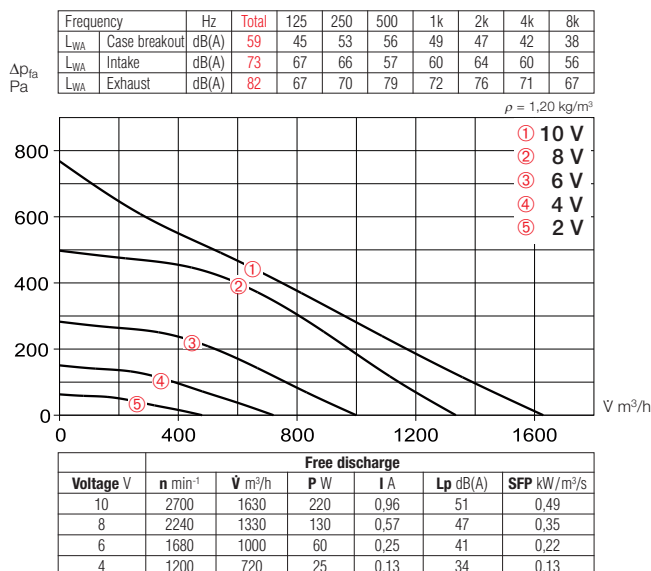
### SB EC 315 A



### SB EC 315 B



### SVS EC 315

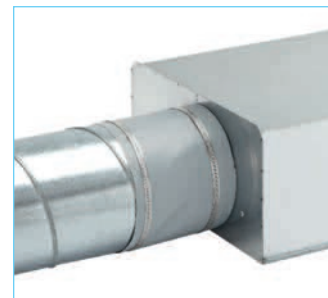


### Accessories

#### Flexible sleeve

**Type FM 315** Ref. no. 1674

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

**Type VK 315** Ref. no. 0760

Automatic made from polymer, light grey.



#### Fixed grille

**Type RAG 315** Ref. no. 0752

For covering air inlets and outlets on facades. Made from polymer, light grey.



#### Guard

**Type SGR 315** Ref. no. 5068

For intake and extract installation. Made from galvanised steel.



#### Backdraught shutter

**Type RSK 315** Ref. no. 5674

Automatic, made from metal.



#### Flexible circular attenuator

**Type FSD 315** Ref. no. 0681

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 315 G4** Ref. no. 8581

**LFBR 315 F7** Ref. no. 8535

Air filter with large surface area, for installation in ducting.



#### Electric heater battery

**EHR-R 6/315** 6,0 kW No. 8713

– with integrated temp. control

**EHR-R 6/315 TR** 6,0 kW No. 5301

Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system

for electric heater battery EHR-R

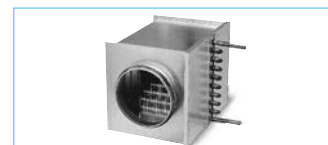
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 315** Ref. no. 9484

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHS HE** Ref. no. 8319

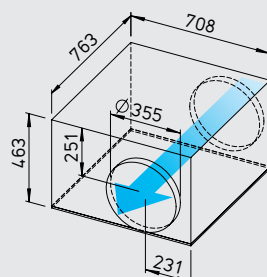




# SilentBox® SB EC



Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm



## ■ Specification

### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to the impeller set. Motor-impeller unit can swing-out, the swing-out range of the motor-impeller unit must be considered. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

### □ Impeller

With backward curved impeller. Inflow via inlet cone.

### □ Motor

Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 54. With ball bearings, maintenance-free and interference-free. Dynamically balanced for low noise operation.

### □ Motor protection

Integrated electronic temperature monitoring for EC-motor and electronics.

### □ Speed control

Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

### □ Electrical connection

Terminal box (IP 54) mounted on running cable (approx. 60 cm long).

### □ Protection class

With a connected pipe system IP 54.

### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract. Mounting bracket included in delivery.

## ■ Sound levels

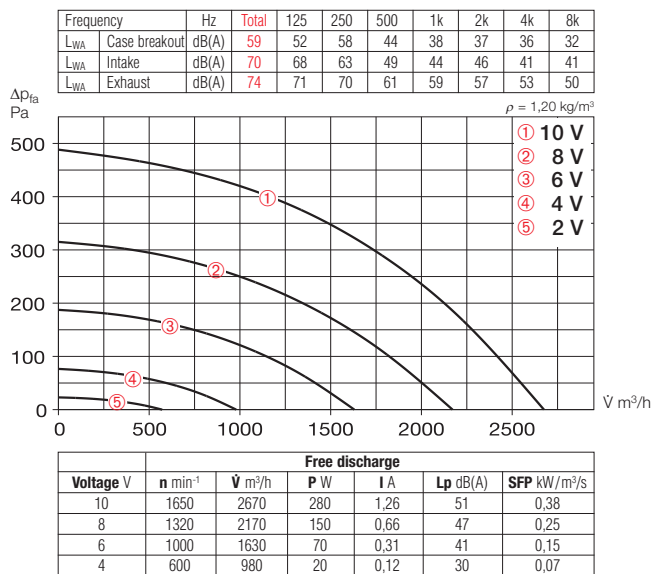
Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound level case breakout
  - Sound level intake
  - Sound level exhaust
- In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 1 m (free field conditions).

Type	Ref. no.	Connection Ø	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
											Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
		mm	ℳ m³/h	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg						
Type SilentBox® SB EC, 1 ph. motor 230 V, 50/60 Hz, EC motor, IP 54																
SB EC 355	6139	355	2670	1650	51	0.32	1.40	1066	60	37.0	EUR EC <sup>1) 2)</sup>	1347	PU 10 <sup>1)</sup>	1734	PA 10 <sup>1)</sup>	1735

1) Several EC fans can normally be connected. 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three step speed controller (SU/SA, No. 4266/4267), see accessories.

### SB EC 355



### Accessory details Page

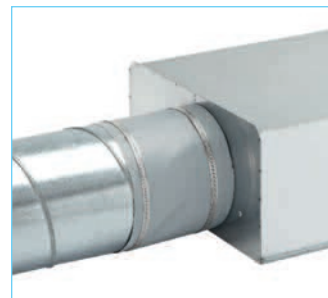
Filters, heater batteries and attenuators 421 on  
Temperature control systems for heater batteries 427, 431 on  
Flexible ventilation ducting, Grilles, adaptors, roof terminations 487 on  
Valves 508 on  
Universal control system, electronic controller, speed-potentiometer 539 on

### Accessories

#### Flexible sleeve

Type FM 355 Ref. no. 1675

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

Type VK 355 Ref. no. 0761

Automatic made from polymer, light grey.



#### Fixed grille

Type RAG 355 Ref. no. 0753

For covering air inlets and outlets on facades. Made from polymer, light grey.



#### Backdraught shutter

Type RSK 355 Ref. no. 5650

Automatic, made from metal.



#### Flexible circular attenuator

Type FSD 355 Ref. no. 0682

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

LFBR 355 G4 Ref. no. 8583

LFBR 355 F7 Ref. no. 8536

Air filter with large surface area and capacity for installation in ducting. Connections with double lip seals, adapted to standard Ø.



#### Electric heater battery

EHR-R 355 9,0 kW No. 8656

– with integrated temp. control

EHR-R 9/355 TR 9,0 kW No. 5297

Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system for electric heater battery EHR-R

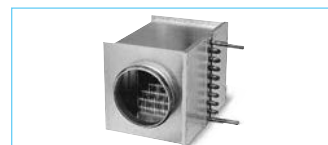
Type EHSD 16 Ref. no. 5003



#### Warm water heater battery

Type WHR 355 Ref. no. 8790

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

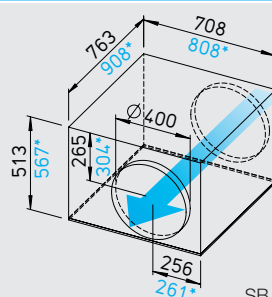
Type WHS HE Ref. no. 8319



**SilentBox® SB EC**



Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

SB EC 400 A, \*SB EC 400 B



■ **Specification**

□ **Casing**

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to the impeller set. Motor-impeller unit can swing-out, the swing-out range of the motor-impeller unit must be considered. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

□ **Impeller**

With backward curved impeller. Inflow via inlet cone.

□ **Motor**

Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 54. With ball bearings, maintenance-free and interference-free. Dynamically balanced for low noise operation.

□ **Motor protection**

Integrated electronic temperature monitoring for EC-motor and electronics.

□ **Speed control**

Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

□ **Electrical connection**

Terminal box (IP 54) mounted on running cable (approx. 60 cm long).

□ **Protection class**

With a connected pipe system IP 54.

□ **Installation**

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract. Mounting bracket included in delivery.

■ **Sound levels**

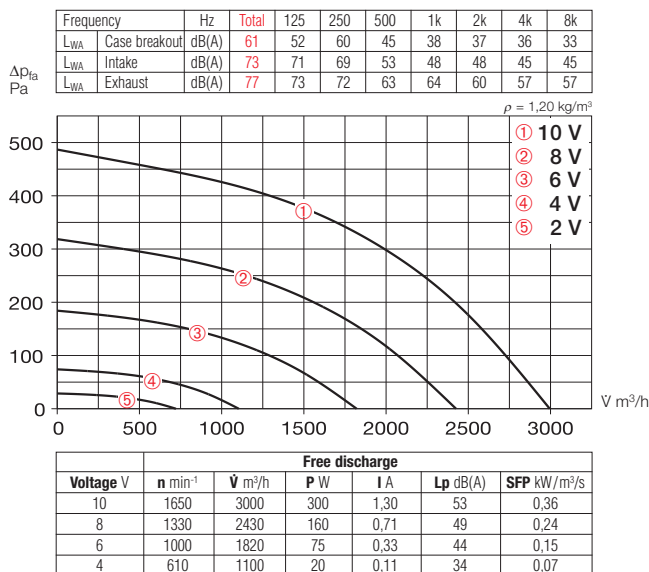
Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound level case breakout
  - Sound level intake
  - Sound level exhaust
- In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 1 m (free field conditions).

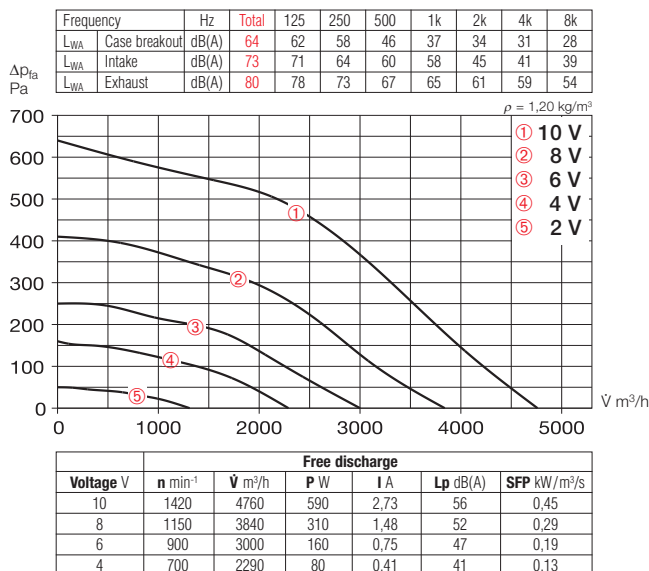
Type	Ref. no.	Connection Ø	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		Speed-potentiometer surface	
											Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
		mm	∇ m³/h	min <sup>-1</sup>	dB(A) in 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB EC, 1 ph. motor, 230 V, 50/60 Hz, EC motor, IP 54																
SB EC 400 A	6140	400	3000	1650	53	0.34	1.50	1066	60	45.0	EUR EC 1) 2)	1347	PU 10 1)	1734	PA 10 1)	1735
SB EC 400 B	9629	400	4760	1420	56	0.65	2.98	982	60	60.8	EUR EC 1) 2)	1347	PU 10 1)	1734	PA 10 1)	1735

1) Several EC fans can normally be connected. 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three step speed controller (SU/SA, No. 4266/4267), see accessories.

### SB EC 400 A



### SB EC 400 B



#### Accessory details Page

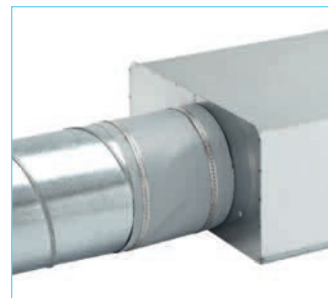
Filters, heater batteries and attenuators 421 on  
Temperature control systems for heater batteries 427, 431 on  
Flexible ventilation ducting, Grilles, adaptors, roof terminations 487 on  
Valves 508 on  
Universal control system, electronic controller, speed-potentiometer 539 on

#### Accessories

##### Flexible sleeve

Type FM 400 Ref. no. 1676

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



##### Gravity shutter

Type VK 400 Ref. no. 0762

Automatic made from polymer, light grey.



##### Fixed grille

Type RAG 400 Ref. no. 0754

For covering air inlets and outlets on facades. Made from polymer, light grey.



##### Backdraught shutter

Type RSK 400 Ref. no. 5651

Automatic, made from metal.



##### Flexible circular attenuator

Type FSD 400 Ref. no. 0683

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



##### Air filter box

LFBR 400 G4 Ref. no. 8582

LFBR 400 F7 Ref. no. 8537

Air filter with large surface area and capacity for installation in ducting. Connections with double lip seals, adapted to standard Ø.



##### Electric heater battery

EHR-R 9/400 9,0 kW No. 8657

– with integrated temp. control

EHR-R 9/400 TR 9,0 kW No. 5299

Room or duct sensor (TFK/TFR, accessories) required.



##### Temperature control system for electric heater battery EHR-R

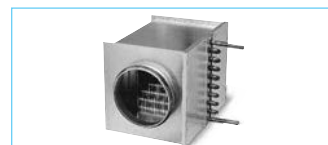
Type EHSD 16 Ref. no. 5003



##### Warm water heater battery

Type WHR 400 Ref. no. 9524

Compact heat exchanger for in-line installation.



##### Temperature control system for warm water heater battery

Type WHS HE Ref. no. 8319





### SilentBox® SB



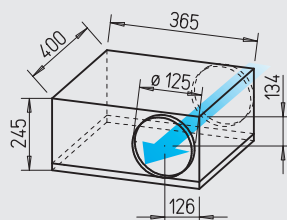
acousticline

Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Efficiency class

**F**



Dim. in mm

#### ■ Similarities SB and SVS

##### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract (Exception: SVS must not be installed with the swing-out motor-impeller unit facing upward).

##### □ Motor

Totally enclosed external rotor motor with ball bearings, impregnated windings insulation class F, designed for continuous operation, maintenance free and interference-free.

#### ■ Specification SilentBox®

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to motor scroll and impeller set.

Swing out motor and impeller. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

Low noise forward curved centrifugal impeller, housed within an aerodynamically shaped scroll from galvanised steel. Bell mouth shaped inlet ring to achieve optimum air flow.

##### □ Electrical connection

Terminal box (IP 54) is supplied with a 60 cm long electric cable.

##### □ Motor protection

With thermal contacts wired in series with the windings. To reset the thermal contacts the main supply must be switched off and on.

##### □ Speed control

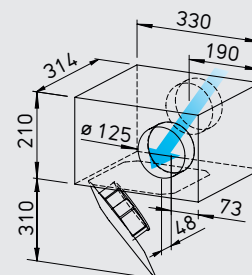
Stepless 0 – 100 % using electronic controller or 5 step transformer controller (see table).

### SlimVent SVS



acousticline

**Ultra low profile. Ideal for applications with limited installation space.** With sound-insulating mineral wool lining for particularly noise-free operation.



Dim. in mm

##### □ Protection class

IP 44

#### ■ Specification SlimVent SVS

##### □ Casing

Extremely flat casing in longer design with more than 50 mm thick sound-absorbing mineral wool lining and glass fibre surface. The acoustic box which is placed in front of the fan reduces the sound level for the intake significantly. The sound pressure level is reduced to a smaller extent (see sound levels in the tables above the performance curves).

□ The swing out motor and impeller unit permits maintenance and cleaning without disassembly of system components. The swing-out range must be considered for the inspection flap.

##### □ Impeller

Energy-saving centrifugal impeller with backward curved blades from high quality polymer. Dynamically balanced for low noise operation.

##### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

##### □ Motor protection

With thermal contacts wired in series with the windings which automatically reset after cooling.

##### □ Speed control

Stepless 0 – 100 % by use of electronic controller or 5 step transformer controller (see table) or 2 speed operation with DS 2/2 (accessories).

**Type DS 2/2** Ref. no. 1267

##### □ Protection class

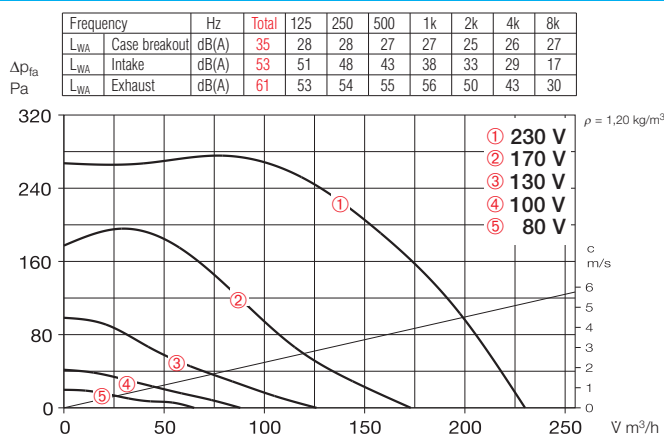
When installed in ducting the fan is rated IP 44.

Type	Ref. no.	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush / surface
		$\bar{V}$ m <sup>3</sup> /h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type Ref. no. Type Ref. no.
<b>Type SilentBox® SB, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 44</b>												
SB 125 A	9506	230	1130	28	61	0.27	0.27	508	80	80	12.0	TSW 0,3 3608 ESU 1 / ESA 1 0236 / 0238
SB 125 C	9562	440	1850	37	122	0.53	0.53	508	65	65	12.0	TSW 1,5 1495 ESU 1 / ESA 1 0236 / 0238
<b>Type SVS, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 33</b>												
SVS 125 B	0130	400/270 <sup>1)</sup>	2570/1710 <sup>1)</sup>	45/36 <sup>1)</sup>	61/45 <sup>1)</sup>	0.27/0.20 <sup>1)</sup>	0.26 <sup>1)</sup>	934.1	60	60	5.9	TSW 1,5 1495 ESU 1 / ESA 1 0236 / 0238

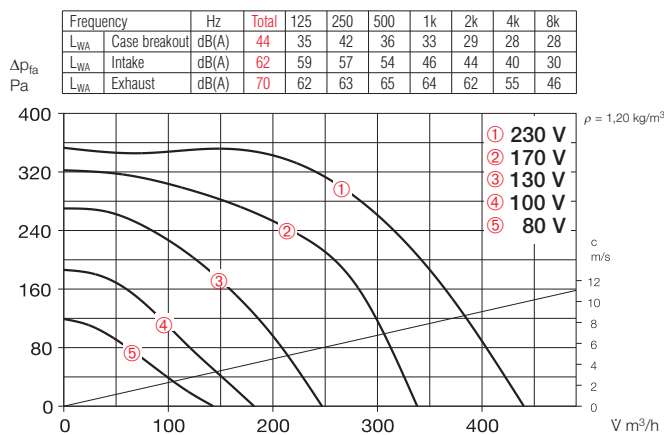
<sup>1)</sup> Values refer to the two speed stages (see characteristic curve).

\* In noise relevant cases, transformer controllers must be provided. An electronic controller can trigger a distracting magnetisation noise.

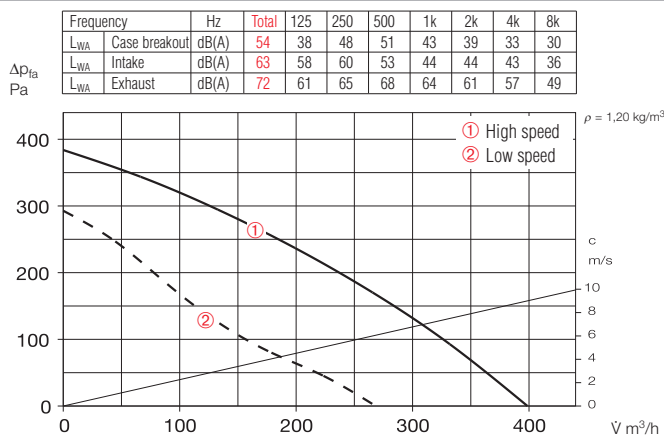
### SB 125 A



### SB 125 C



### SVS 125 B



### Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for

- Sound level case breakout
- Sound level intake/exhaust

The type table also shows

- Sound pressure case breakout and intake air noise specified as sound pressure in 1 m (free field conditions).

For the SB types, it should be noted that the intake sound level is less than the exhaust sound level.

### Accessory details Page

Filters, heater batteries and attenuators 421 on

Temperature control systems for heater batteries 427, 431 on

Flexible ventilation ducting, Grilles, adaptors, roof terminations 487 on

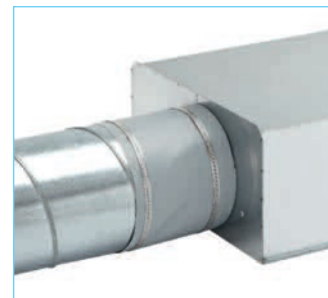
Valves 508 on

Speed controllers, switches 525 on

### Accessories

#### Flexible sleeve

**Type FM 125** Ref. no. 1682  
Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

**Type VK 125** Ref. no. 0857  
Automatic made from polymer, white.



#### Fixed grille

**Type G 160** Ref. no. 0893  
Made from polymer, white.



#### Guard

**Type SGR 125** Ref. no. 5064  
For intake and extract installation. Made from powder-coated steel wire.



#### Backdraught shutter

**Type RSKK 125** Ref. no. 5107  
Automatic, made from polymer.



#### Flexible circular attenuator

**Type FSD 125** Ref. no. 0677  
Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 125 G4** Ref. no. 8577  
**LFBR 125 F7** Ref. no. 8531  
Air filter with large surface area for installation in ducting.



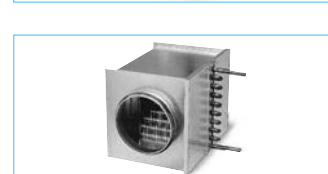
#### Electric heater battery

**EHR-R 0,8/125** 0,8 kW No. 8709  
**EHR-R 1,2/125** 1,2 kW No. 9433  
– with integrated temp. control  
**EHR-R 0,8/125 TR 0,8 kW No. 5293**  
Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system

for electric heater battery EHR-R  
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 125** Ref. no. 9480  
Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

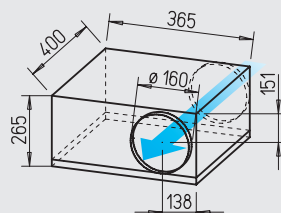
**Type WHST 300 T38** No. 8817

### SilentBox® SB



**acousticline**

Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

#### ■ Similarities SB and SVS

##### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract (Exception: SVS must not be installed with the swing-out motor-impeller unit facing upward).

##### □ Motor

Totally enclosed external rotor motor with ball bearings, impregnated windings insulation class F, designed for continuous operation, maintenance free and interference-free.

##### □ Sound levels

See page 359.

#### ■ Specification SilentBox®

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to

motor scroll and impeller set. Swing out motor and impeller. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

Low noise forward curved centrifugal impeller, housed within an aerodynamically shaped scroll from galvanised steel. Bell mouth shaped inlet ring to achieve optimum air flow.

##### □ Electrical connection

Terminal box (IP 54) is supplied with a 60 cm long electric cable.

##### □ Motor protection

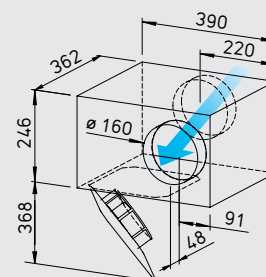
With thermal contacts wired in series with the windings. To reset the thermal contacts the main supply must be switched off and on.

### SlimVent SVS



**acousticline**

**Ultra low profile. Ideal for applications with limited installation space.** With sound-insulating mineral wool lining for particularly noise-free operation.



Dim. in mm

##### □ Speed control

Stepless 0 – 100 % using electronic controller or 5 step transformer controller (see table).

##### □ Protection class

IP 44

#### ■ Specification SlimVent SVS

##### □ Casing

Extremely flat casing in longer design with more than 50 mm thick sound-absorbing mineral wool lining and glass fibre surface. The acoustic box which is placed in front of the fan reduces the sound level for the intake significantly. The sound pressure level is reduced to a smaller extent (see sound levels in the tables above the performance curves).

The swing out motor and impeller unit permits maintenance and cleaning without disassembly of system components. The

swing-out range must be considered for the inspection flap.

##### □ Impeller

Energy-saving centrifugal impeller with backward curved blades from high quality polymer. Dynamically balanced for low noise operation.

##### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

##### □ Motor protection

With thermal contacts wired in series with the windings which automatically reset after cooling.

##### □ Speed control

Stepless 0 – 100 % by use of electronic controller or 5 step transformer controller (see table) or 2 speed operation with DS 2/2 (accessories).

**Type DS 2/2** Ref. no. 1267

##### □ Protection class

When installed in ducting the fan is rated IP 44.

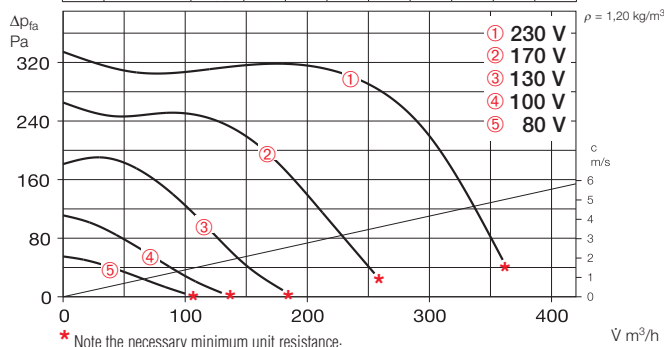
Type	Ref. no.	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current		Wiring diagram	max. air flow temp.		Weight net approx.	Transformer- speed controller 5-step		Electronic* speed controller, stepless flush / surface	
		ℳ m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 44 (B), IP 33 (D)															
SB 160 B	9508	360	1650	36	105	0.46	0.46	508	65	65	13.0	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
SB 160 D	9563	580	2220	43	164	0.72	0.72	508	60	60	10.3	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
Type SVS, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 33															
SVS 160 K	0131	440/300 <sup>1)</sup>	2560/1730 <sup>1)</sup>	44/35 <sup>1)</sup>	61/45 <sup>1)</sup>	0.26/0.20 <sup>1)</sup>	0.26 <sup>1)</sup>	934.1	60	60	7.6	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
SVS 160 L	2653	670/390 <sup>1)</sup>	2520/1530 <sup>1)</sup>	50/39 <sup>1)</sup>	108/69 <sup>1)</sup>	0.47/0.30 <sup>1)</sup>	0.45 <sup>1)</sup>	934.1	60	60	7.8	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238

<sup>1)</sup> Values refer to the two speed stages (see characteristic curve).

\* In noise relevant cases, transformer controllers must be provided. An electronic controller can trigger a distracting magnetisation noise.

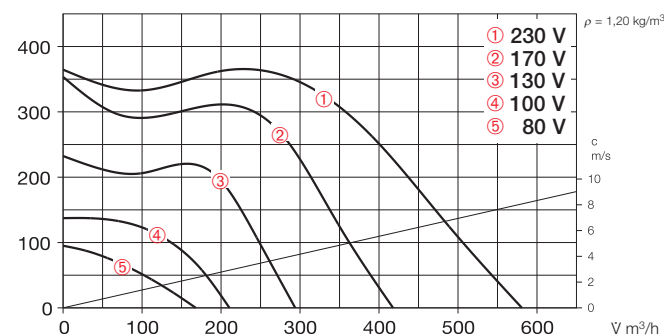
### SB 160 B

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		dB(A) 43	40	39	34	32	28	27	27
L <sub>WA</sub> Intake		dB(A) 61	59	56	50	44	39	35	26
L <sub>WA</sub> Exhaust		dB(A) 68	61	61	62	61	58	53	44



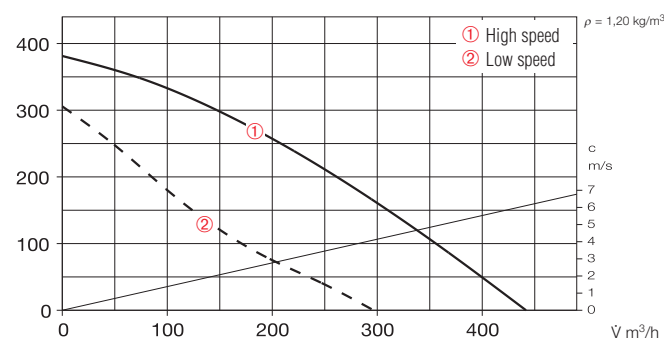
### SB 160 D

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		dB(A) 50	47	44	41	34	32	30	28
L <sub>WA</sub> Intake		dB(A) 67	65	60	53	44	48	46	45
L <sub>WA</sub> Exhaust		dB(A) 79	68	71	72	69	71	69	69



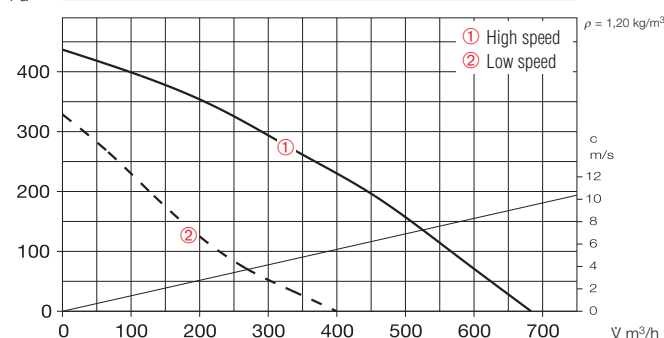
### SVS 160 K

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		dB(A) 52	38	47	50	40	37	32	31
L <sub>WA</sub> Intake		dB(A) 63	58	61	50	40	45	44	38
L <sub>WA</sub> Exhaust		dB(A) 70	60	66	65	59	56	56	48



### SVS 160 L

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		dB(A) 58	40	53	55	46	44	38	31
L <sub>WA</sub> Intake		dB(A) 66	60	64	58	50	47	48	35
L <sub>WA</sub> Exhaust		dB(A) 75	62	67	73	66	63	63	51

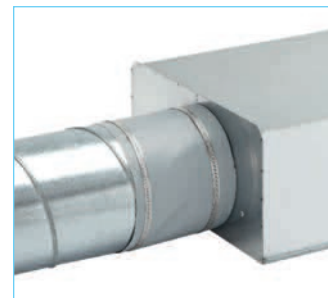


### Accessories

#### Flexible sleeve

**Type FM 160** Ref. no. 1684

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

**Type VK 160** Ref. no. 0892

Automatic made from polymer, white.



#### Fixed grille

**Type G 160** Ref. no. 0893

Made from polymer, white.



#### Guard

**Type SGR 160** Ref. no. 5069

For intake and extract installation. Made from galvanised steel.



#### Backdraught shutter

**Type RSK 160** Ref. no. 5669

Automatic, made from metal.



#### Flexible circular attenuator

**Type FSD 160** Ref. no. 0678

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 160 G4** Ref. no. 8578

**LFBR 160 F7** Ref. no. 8532

Air filter with large surface area for installation in ducting.



#### Electric heater battery

**EHR-R 1,2/160** 1,2 kW No. 9434

**EHR-R 2,4/160** 2,4 kW No. 9435

**EHR-R 5/160** 5,0 kW No. 8710

– with integrated temp. control

**EHR-R 2,4/160 TR** 2,4 kW No. 5294

Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system for electric heater battery EHR-R

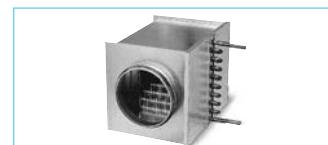
**Type EHS** Ref. no. 5002



#### Warm water heater battery

**Type WHR 160** Ref. no. 9481

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817

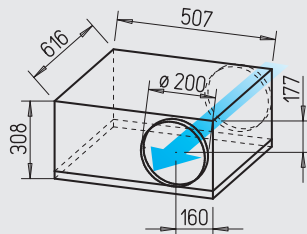




### SilentBox® SB



Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

#### ■ Similarities SB and SVS

##### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract (Exception: SVS must not be installed with the swing-out motor-impeller unit facing upward).

##### □ Motor

Totally enclosed external rotor motor with ball bearings, impregnated windings insulation class F, designed for continuous operation, maintenance free and interference-free.

#### ■ Specification SilentBox®

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to motor scroll and impeller set. Swing out motor and impeller.

Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

With backward curved high-quality polymer blades. Inflow via inlet cone.

##### □ Electrical connection

Terminal box (IP 54) is supplied with a 60 cm long electric cable.

##### □ Motor protection

With thermal contacts wired in series with the windings. To reset the thermal contacts the main supply must be switched off and on.

##### □ Speed control

Stepless 0 – 100 % using electronic controller or 5 step transformer controller (see table).

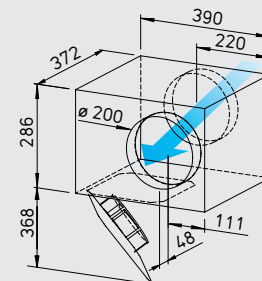
##### □ Protection class

IP 44

### SlimVent SVS



**Ultra low profile. Ideal for applications with limited installation space.** With sound-insulating mineral wool lining for particularly noise-free operation.



Dim. in mm

#### ■ Specification SlimVent SVS

##### □ Casing

Extremely flat casing in longer design with more than 50 mm thick sound-absorbing mineral wool lining and glass fibre surface. The acoustic box which is placed in front of the fan reduces the sound level for the intake significantly. The sound pressure level is reduced to a smaller extent (see sound levels in the tables above the performance curves).

□ The swing out motor and impeller unit permits maintenance and cleaning without disassembly of system components. The swing-out range must be considered for the inspection flap.

##### □ Impeller

Energy-saving centrifugal impeller with backward curved blades from high quality polymer. Dynamically balanced for low noise operation.

##### □ Electrical connection

Terminal box (IP 54) mounted on running cable.

##### □ Motor protection

With thermal contacts wired in series with the windings which automatically reset after cooling.

##### □ Speed control

Stepless 0 – 100 % by use of electronic controller or 5 step transformer controller (see table).

##### □ Protection class

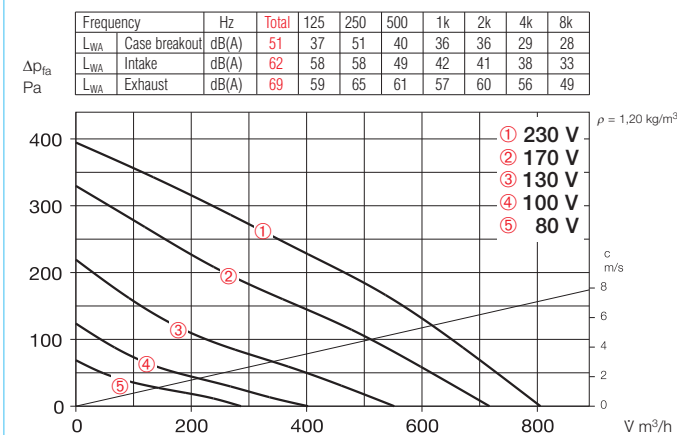
When installed in ducting the fan is rated IP 44.

Information	Page
Techn. description	296
Selection chart	297
Information for planning	10 on
Modular system	294

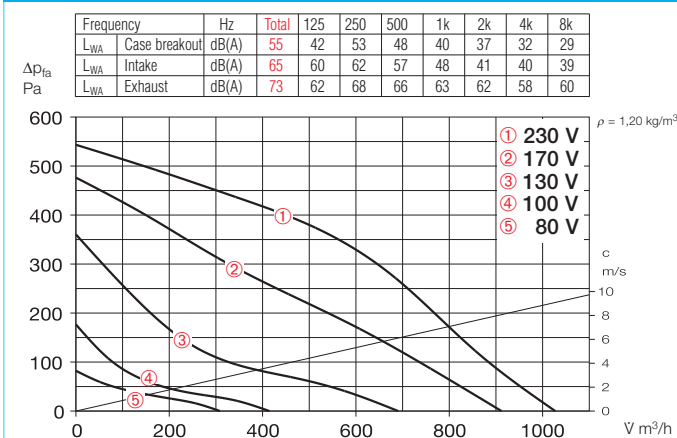
Type	Ref. no.	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current		Wiring diagram	max. air flow temp.		Weight net approx.	Transformer- speed controller 5-step		Electronic* speed controller, stepless flush / surface	
		Ų m³/h	min <sup>-1</sup>	db(A) in 1 m	W	full load	control	No.	full load	control	kg	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 33															
SB 200 C	9510	810	2520	44	105	0.46	0.46	508	70	70	19.0	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
SB 200 D	9564	1030	2700	48	160	0.69	0.83	508	70	50	19.7	TSW 1,5	1495	ESU 1 / ESA 1	0236 / 0238
Type SVS, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 33															
SVS 200 K	0132	940	2710	55	163	0.71	0.83	508	70	50	9.2	TSW 1.5	1495	ESU 1 / ESA 1	0236 / 0238

\* In noise relevant cases, transformer controllers must be provided. An electronic controller can trigger a distracting magnetisation noise.

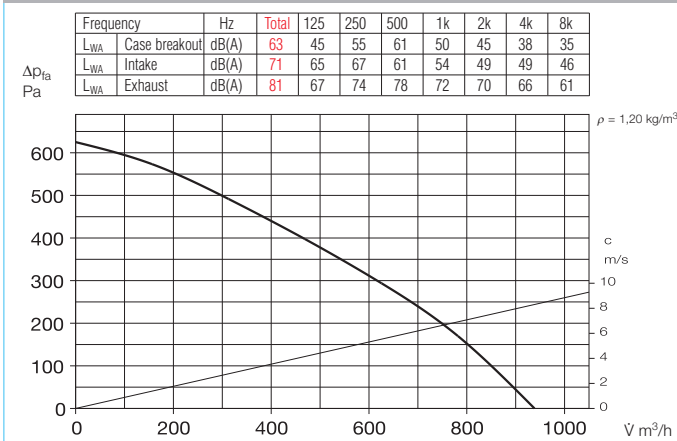
### SB 200 C



### SB 200 D



### SVS 200 K



### Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for

- Sound level case breakout
- Sound level intake/exhaust

The type table also shows

- Sound pressure case breakout and intake air noise specified as sound pressure in 1 m (free field conditions).

For the SB types, it should be noted that the intake sound level is less than the exhaust sound level.

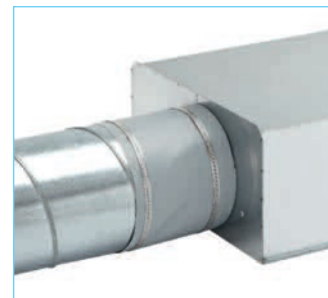
### Accessory details

Accessory details	Page
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431 on
Flexible ventilation ducting, Grilles, adaptors, roof terminations	487 on
Valves	508 on
Speed controllers, switches	525 on

### Accessories

#### Flexible sleeve

**Type FM 200** Ref. no. 1670  
Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

**Type VK 200** Ref. no. 0758  
Automatic made from polymer, light grey.



#### Fixed grille

**Type RAG 200** Ref. no. 0750  
For covering air inlets and outlets on facades. Made from polymer, light grey.



#### Guard

**Type SGR 200** Ref. no. 5066  
For intake and extract installation. Made from galvanised steel.



#### Backdraught shutter

**Type RSK 200** Ref. no. 5074  
Automatic, made from metal.



#### Flexible circular attenuator

**Type FSD 200** Ref. no. 0679  
Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

**LFBR 200 G4** Ref. no. 8579  
**LFBR 200 F7** Ref. no. 8533  
Air filter with large surface area for installation in ducting.

#### Electric heater battery

**EHR-R 1,2/200** 1,2 kW No. 9436  
**EHR-R 2/200** 2,0 kW No. 9437  
**EHR-R 5/200** 5,0 kW No. 8711  
– with integrated temp. control  
**EHR-R 5/200 TR** 5,0 kW No. 5295  
Room or duct sensor (TFK/TFR, accessories) required.

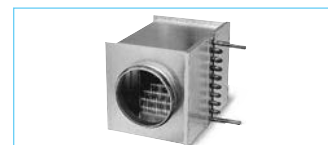


#### Temperature control system for electric heater battery EHR-R

**Type EHS** Ref. no. 5002

#### Warm water heater battery

**Type WHR 200** Ref. no. 9482  
Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

**Type WHST 300 T38** No. 8817

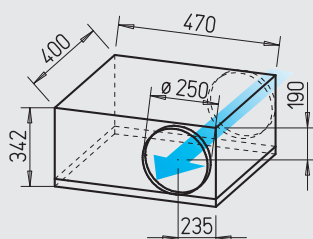


### SilentBox® SB 250 C



**acousticline**

Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



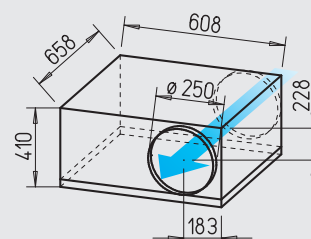
Dim. in mm

### SilentBox® SB 250 E



**acousticline**

Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

#### ■ Similarities SB 250 C and E

#### □ Installation

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract.

#### □ Motor

Totally enclosed external rotor motor with ball bearings, impregnated windings insulation class F, designed for continuous operation, maintenance free and interference-free.

#### □ Motor protection

With thermal contacts wired in series with the windings. To reset the thermal contacts the main supply must be switched off and on.

#### □ Speed control

Stepless 0 – 100 % by use of electronic controller or 5 step transformer controller (see table).

#### □ Electrical connection

Terminal box (IP 54) is supplied with a 60 cm long electric cable.

#### □ Protection class

IP 44.

#### ■ Specification SB 250 C

##### □ Casing

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. For quick release clamps permit easy access to motor scroll and impeller set. Extractable motor and impeller unit. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

Low noise forward curved centrifugal impeller, housed within an aerodynamically shaped scroll from galvanised steel. Bell mouth shaped inlet ring to achieve optimum air flow.

#### ■ Specification SB 250 E

##### □ Casing

Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to motor scroll and impeller set. Swing out motor and impeller unit. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

##### □ Impeller

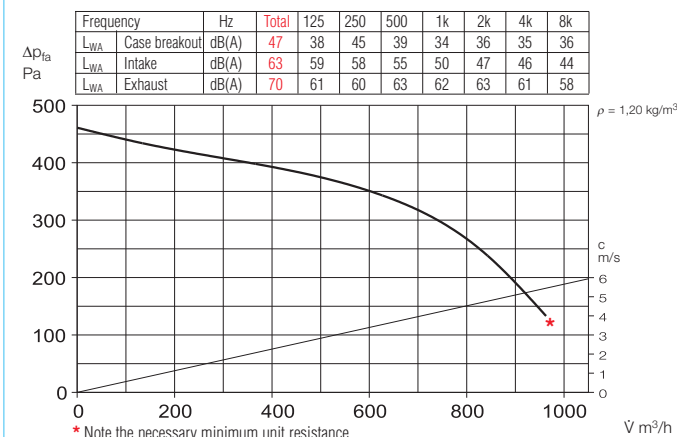
Low noise forward curved centrifugal impeller, housed within an aerodynamically shaped scroll from galvanised steel. Bell mouth shaped inlet ring to achieve optimum air flow.

Information	Page
Techn. description	296
Selection chart	297
Information for planning	10 on
Modular system	294

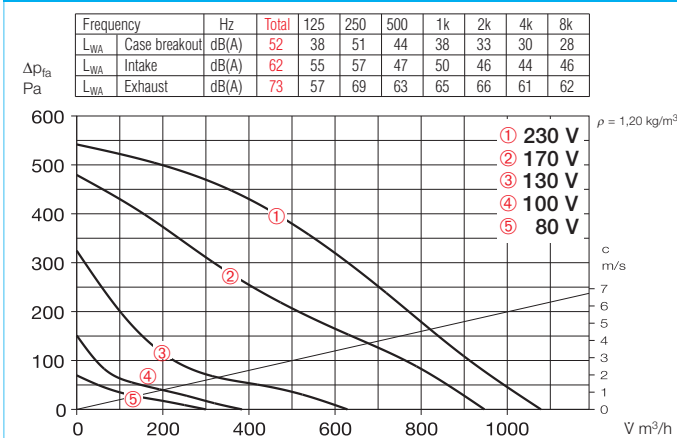
Type	Ref. no.	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current		Wiring diagram	max. air flow temp.		Weight net approx.	Transformer- speed controller 5-step	Electronic* speed controller, stepless flush / surface		
		ṽ m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 44 (C), IP 33 (E)															
SB 250 C	9512	960	2120	43	255	1.13	1.13	508	50	50	18.0	TSW 1,5	1495	ESU 3 / ESA 3	0237 / 0239
SB 250 E	9565	1080	2690	45	165	0.71	0.86	508	70	50	33.4	TSW 1.5	1495	ESU 1 / ESA 1	0236 / 0238

\* In noise relevant cases, transformer controllers must be provided. An electronic controller can trigger a distracting magnetisation noise.

### SB 250 C



### SB 250 E



### Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for

- Sound level case breakout
- Sound level intake/exhaust

The type table also shows

- Sound pressure case breakout and intake air noise specified as sound pressure in 1 m (free field conditions).

It should be noted that the intake sound level is less than the exhaust sound level.

### Accessory details Page

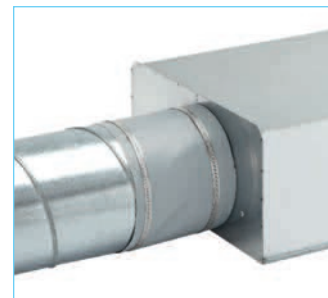
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431 on
Flexible ventilation ducting, Grilles, adaptors, roof terminations	487 on
Valves	508 on
Speed controllers, switches	525 on

### Accessories

#### Flexible sleeve

Type FM 250 Ref. no. 1672

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

Type VK 250 Ref. no. 0759

Automatic made from polymer, light grey.



#### Fixed grille

Type RAG 250 Ref. no. 0751

For covering air inlets and outlets on facades. Made from polymer, light grey.



#### Guard

Type SGR 250 Ref. no. 5067

For intake and extract installation. Made from galvanised steel.



#### Backdraught shutter

Type RSK 250 Ref. no. 5673

Automatic, made from metal.



#### Flexible circular attenuator

Type FSD 250 Ref. no. 0680

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

LFBR 250 G4 Ref. no. 8580

LFBR 250 F7 Ref. no. 8534

Air filter with large surface area for installation in ducting.



#### Electric heater battery

EHR-R 6/250 6,0 kW No. 8712

– with integrated temp. control

EHR-R 6/250 TR 6,0 kW No. 5296

Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system for electric heater battery EHR-R

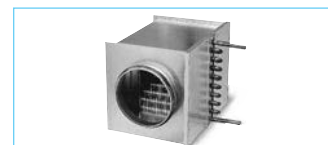
Type EHS Ref. no. 5002



#### Warm water heater battery

Type WHR 250 Ref. no. 9483

Compact heat exchanger for in-line installation.



#### Temperature control system for warm water heater battery

Type WHS HE Ref. no. 8319



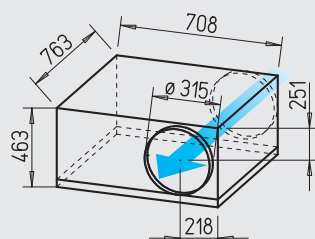


**SilentBox® SB 315 and SBD 315 A**



**acousticline**

Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



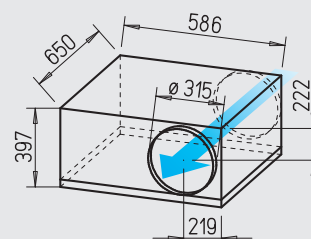
Dim. in mm

**SilentBox® SBD 315 B**



**acousticline**

Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

■ **Similarities**  
SB 315, SBD 315 A and B

□ **Installation**

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract.

□ **Impeller**

SB 315 and SBD 315 A with backward curved high-quality polymer blades. Inflow via inlet cone. SBD 315 B as described on the right.

□ **Motor**

Totally enclosed external rotor motor with ball bearings, impregnated windings insulation class F, designed for continuous operation, maintenance free and interference-free.

□ **Motor protection**

With thermal contacts wired to the terminal block and must be connected to a motor protection unit (see type table).

□ **Speed control**

Through voltage reduction by means of 5 step transformer or electronic controller (stepless).

□ **Electrical connection**

Terminal box (IP 54) is supplied with a 60 cm long electric cable.

□ **Protection class**

IP 54.

■ **Specification**  
SB 315 and SBD 315 A

□ **Casing**

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to motor scroll and impeller set. Swing out motor and impeller unit. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

■ **Specification SBD 315 B**

□ **Casing**

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to motor scroll and impeller set. Fan and spiral casing freely accessible. Swing out motor and impeller unit. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

□ **Impeller**

Low noise forward curved centrifugal impeller, housed within an aerodynamically shaped scroll from galvanised steel. Bell mouth shaped inlet ring to achieve optimum air flow.

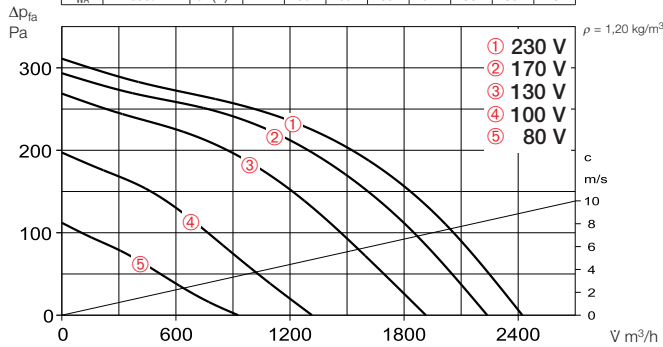
Type	Ref. no.	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current		Wiring diagram	max. air flow temp.		Weight net approx.	Speed controller 5-step			
						full load	control		full load	control		without motor protection unit		with motor protection unit	
		ℳ m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 54															
SB 315	9515	2420	1420	51	310	1.70	1,80	536.1	60	60	45	TSW 3,0 <sup>1)</sup>	1496	—	—
Type SilentBox® SBD, 3 ph. motor, 230/400 V, 50 Hz, IP 54															
SBD 315 A	9718	2200	1350	47	215	0.73/0.42	0.44	860	60	60	46.0	TSD 0,8 <sup>2)</sup>	1500	RDS 1	1314
SBD 315 B	9583	2250	1290	50	640	2.40/1.40	1.40	860	60	60	43.4	TSD 3.0 <sup>2)</sup>	1502	RDS 2	1315

<sup>1)</sup> required full motor protection device, Type MW, No. 1579, see accessories.

<sup>2)</sup> required full motor protection device, Type MD, No. 5849, see accessories.

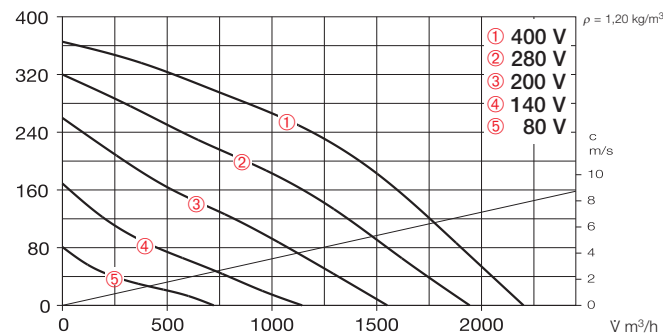
### SB 315

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		dB(A)	58	52	56	42	38	33	27
L <sub>WA</sub> Intake		dB(A)	66	63	62	47	40	36	33
L <sub>WA</sub> Exhaust		dB(A)	74	69	69	60	58	53	45



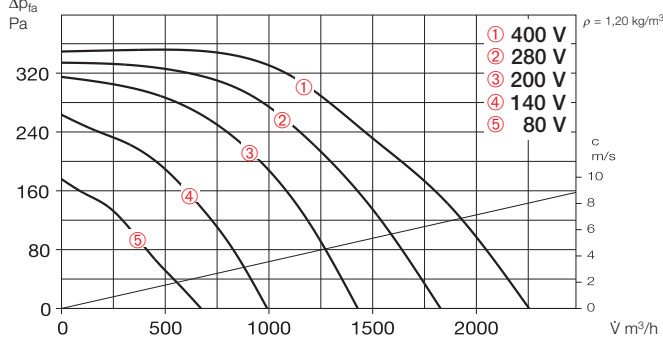
### SBD 315 A

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		dB(A)	54	51	51	37	36	31	28
L <sub>WA</sub> Intake		dB(A)	64	62	57	41	35	32	29
L <sub>WA</sub> Exhaust		dB(A)	70	68	64	53	51	50	38



### SBD 315 B

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		dB(A)	57	54	52	46	44	41	38
L <sub>WA</sub> Intake		dB(A)	69	66	63	50	53	50	46
L <sub>WA</sub> Exhaust		dB(A)	85	70	73	77	79	77	71



### Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for

- Sound level case breakout
- Sound level intake/exhaust

The type table also shows

- Sound pressure case breakout and intake air noise specified as sound pressure in 1 m (free field conditions).

It should be noted that the intake sound level is less than the exhaust sound level.

### Accessory details

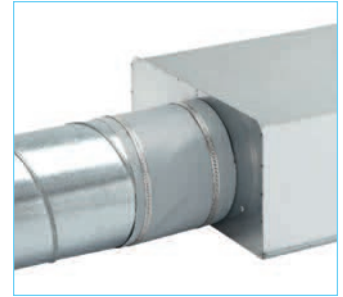
Accessory details	Page
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 431 on
Flexible ventilation ducting, Grilles, adaptors, roof terminations	487 on
Valves	508 on
Speed controllers, switches	525 on

### Accessories

#### Flexible sleeve

Type FM 315 Ref. no. 1674

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.



#### Gravity shutter

Type VK 315 Ref. no. 0760

Automatic made from polymer, light grey.



#### Fixed grille

Type RAG 315 Ref. no. 0752

For covering air inlets and outlets on facades. Made from polymer, light grey.



#### Guard

Type SGR 315 Ref. no. 5068

For intake and extract installation. Made from galvanised steel.



#### Backdraught shutter

Type RSK 315 Ref. no. 5674

Automatic, made from metal.



#### Flexible circular attenuator

Type FSD 315 Ref. no. 0681

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.



#### Air filter box

LFBR 315 G4 Ref. no. 8581

LFBR 315 F7 Ref. no. 8535

Air filter with large surface area for installation in ducting.



#### Electric heater battery

EHR-R 6/315 6,0 kW No. 8713

– with integrated temp. control

EHR-R 6/315 TR 6,0 kW No. 5301

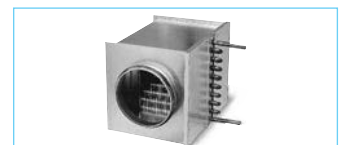
Room or duct sensor (TFK/TFR, accessories) required.



#### Temperature control system

for electric heater battery EHR-R

Type EHS Ref. no. 5002



#### Warm water heater battery

Type WHR 315 Ref. no. 9484

Compact heat exchanger for in-line installation.



#### Temperature control system for

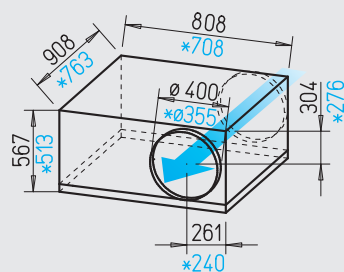
warm water heater battery

Type WHS HE Ref. no. 8319

**SilentBox® SB 355 and SB 400**



Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



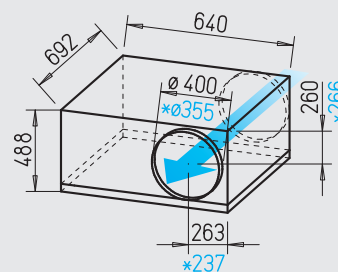
Dim. in mm

\* SB 355, SB 400

**SilentBox® SBD 355 and SBD 400**



Virtually noise-free with high air flow volumes against high resistances. Ideal for maintenance and cleaning.



Dim. in mm

\* SBD 355, SBD 400

■ **Similarities**  
SB 355 and SB 400,  
SBD 355 and SBD 400

□ **Installation**

Installation in any position without restriction – horizontally, vertically or pitched – suitable for intake or extract. Make sure that there is free accessibility to the cover. To keep sound levels inside the ventilated rooms as low as possible we recommend the fan is installed as remote as possible.

□ **Motor**

Totally enclosed external rotor motor with ball bearings, impregnated windings insulation class F, designed for continuous operation, maintenance free and interference-free.

□ **Motor protection**

With thermal contacts wired to the terminal block and must be connected to a motor protection unit (see type table).

□ **Speed control**

Through voltage reduction by means of 5 step transformer or electronic controller (stepless).

□ **Electrical connection**

Terminal box (IP 54) is supplied with a 60 cm long electric cable.

□ **Protection class**

IP 54.

□ **Sound levels**

See page 367.

■ **Specification**  
SB 355 and SB 400

□ **Casing**

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to motor scroll and impeller set. Swing out motor and impeller unit. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

□ **Impeller**

Backward curved high-quality polymer impeller. Inflow via inlet cone.

■ **Specification**  
SBD 355 and SBD 400

□ **Casing**

Like an internal attenuator. Acoustically lined with abrasive resistant 50 mm thick mineral fibreboard. Four quick release clamps permit easy access to motor scroll and impeller set. Fan and spiral casing freely accessible. Swing out motor and impeller unit. Spigots on intake and exhaust twin-seal rubber gaskets fit standard ducts. All parts manufactured from galvanised sheet steel.

□ **Impeller**

Low noise forward curved centrifugal impeller, housed within an aerodynamically shaped scroll from galvanised steel. Bell mouth shaped inlet ring to achieve optimum air flow.

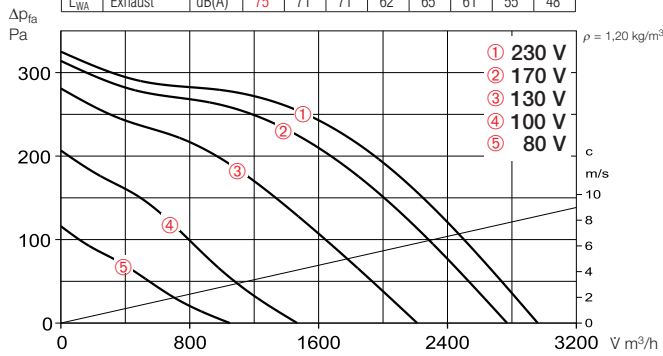
Type	Ref. no.	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current		Wiring diagram	max. air flow temp.		Weight net approx.	Speed controller 5-step			
						full load	control		full load	control		without motor protection unit	with motor protection unit		
		ℳ m³/h	min <sup>-1</sup>	db(A) in 1 m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type SilentBox® SB, 1 ph. motor, 230 V, 50 Hz, capacitor motor, IP 54															
SB 355	6158	2960	1400	52	345	1.8	1.9	536.1	60	60	47.0	TSW 3,0 <sup>1)</sup>	1496	—	—
SB 400	6159	3930	1320	51	500	2.3	2.5	536.1	60	60	61.0	TSW 3,0 <sup>1)</sup>	1496	—	—
Type SilentBox® SBD, 3 ph. motor, 230/400 V, 50 Hz, IP 54															
SBD 355	9969	3330	1310	51	1470	4.6/2.6	2.8	860	45	45	47.0	TSD 5,5 <sup>2)</sup>	1503	RDS 7	1578
SBD 400	9623	3450	1310	50	1470	4.6/2.6	2.7	860	45	45	47.0	TSD 5.5 <sup>2)</sup>	1503	RDS 7	1578

1) required full motor protection device, Type MW, No. 1579, see accessories.

2) required full motor protection device, Type MD, No. 5849, see accessories.

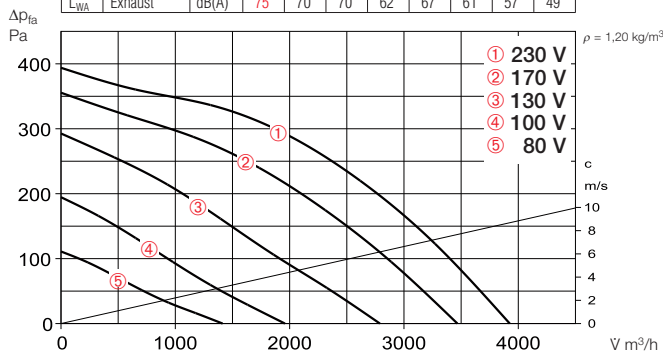
### SB 355

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		59	53	58	44	38	33	30	27
L <sub>WA</sub> Intake		70	69	63	48	43	42	38	34
L <sub>WA</sub> Exhaust		75	71	71	62	65	61	55	48



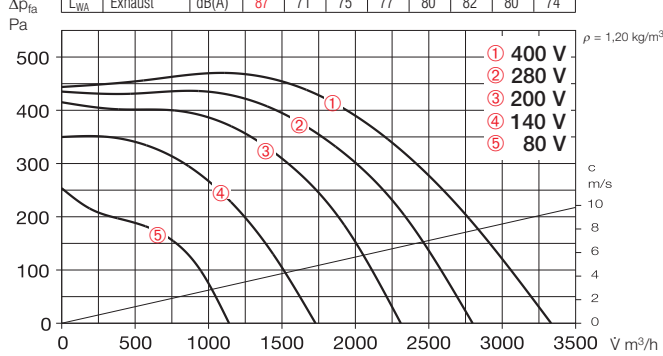
### SB 400

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		69	66	62	54	47	44	39	37
L <sub>WA</sub> Intake		75	70	70	62	67	61	57	49



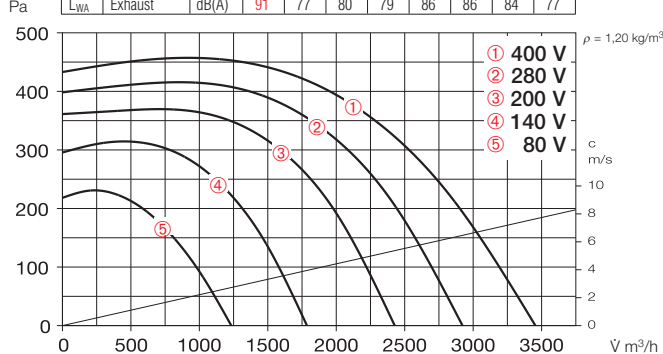
### SBD 355

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		58	51	55	46	46	44	42	35
L <sub>WA</sub> Intake		72	68	64	53	58	61	59	57
L <sub>WA</sub> Exhaust		87	71	75	77	80	82	80	74



### SBD 400

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Case breakout		57	50	54	48	47	44	41	34
L <sub>WA</sub> Intake		72	68	65	53	58	59	55	50
L <sub>WA</sub> Exhaust		91	77	80	79	86	86	84	77



### Accessories

#### Flexible sleeve

Type FM 355	Ref. no. 1675
Type FM 400	Ref. no. 1676

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission to ducting and corrects small site misalignments. For intake or extract two sleeves are needed for complete isolation.

#### Gravity shutter

Type VK 355	Ref. no. 0761
Type VK 400	Ref. no. 0762

Automatic made from polymer, light grey.

#### Fixed grille

Type RAG 355	Ref. no. 0753
Type RAG 400	Ref. no. 0754

For covering air inlets and outlets on facades. Made from polymer, light grey.

#### Backdraught shutter

Type RSK 355	Ref. no. 5650
Type RSK 400	Ref. no. 5651

Automatic, made from metal.

#### Flexible circular attenuator

Type FSD 355	Ref. no. 0682
Type FSD 400	Ref. no. 0683

Spigotted aluminium attenuator with 50 mm insulation. Length 1 m.

#### Air filter box

LFBR 355 G4	Ref. no. 8583
LFBR 355 F7	Ref. no. 8536
LFBR 400 G4	Ref. no. 8582
LFBR 400 F7	Ref. no. 8537

Air filter with large surface area and capacity for installation in ducting. Connections with double lip seals, adapted to standard Ø.

#### Electric heater battery

EHR-R 9/355	9,0 kW	No. 8656
EHR-R 9/400	9,0 kW	No. 8657
- with integrated temp. control		
EHR-R 9/355 TR	9,0 kW	No. 5297
EHR-R 9/400 TR	9,0 kW	No. 5299

Room or duct sensor (TFK/TFR, accessories) required.

#### Temperature control system for electric heater battery EHR-R

Type EHSD 16	Ref. no. 5003
--------------	---------------

#### Warm water heater battery

Type WHR 355	Ref. no. 8790
Type WHR 400	Ref. no. 9524

#### Temperature control system for warm water heater battery

Type WHS HE	Ref. no. 8319
-------------	---------------

