RR 160



Efficiency class

C — RR 160 B + accessories*

B — RR 160 C + accessories*

RRK 160



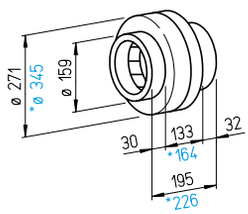
Alternative in corrosion-resistant and impact-resistant plastic casing.

SVR 160



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

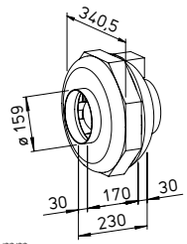
Dimensions RR 160



RR 160 B
*RR 160 C

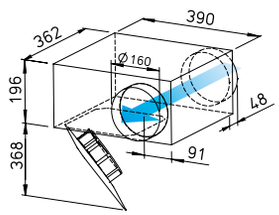
Dim. in mm

Dimensions RRK 160



Dim. in mm

Dimensions SVR 160



Dim. in mm

For the delivery of medium and small air volumes against high resistances.
Specifically designed for direct insertion in duct systems. High pressure performance for overcoming friction losses, deflection losses and aggregate resistances.
For various applications in commercial, industrial and residential areas.

Special features

- Low space requirement and installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Performance adjustment through 100% speed control.
- Can be used in any position.
- Wide range of accessories.
- Aerodynamically optimised casing design.

Common features

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

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

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

Noise
See page 400.

Description RR

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

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

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

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

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

Description RRK

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

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

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

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

Protection category
IP44

Description SVR

Casing
Flat casing in compact design made of galvanised steel sheet. Connectors and lip seal on inlet and outlet side for standard duct Ø.
The retractable motor-impeller unit allows inspection and cleaning without dismantling components. The swivelling range must be considered for the inspection opening.

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

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

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

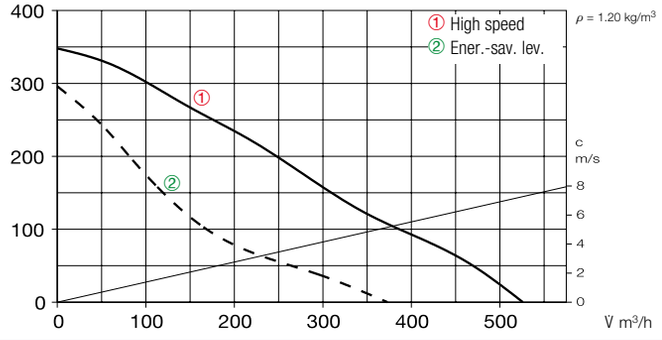
Protection category
IP44 with connected duct system.

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case radiation	Power consum.	Power consump. at rated voltage	Power consump. with control	Wiring diagram	Max air flow temp. at rated voltage	Max air flow temp. with control	Wgt net aprx.	Transformer speed controller 5-step Type	Ref. no.	Electronic[3] Speed controller, cont. var. flush-mount. / surf-mount. Type	Ref. no.
		V m³/h	min⁻¹	dB(A) in 1 m	W	A	A	No.	+ °C	+ °C	kg				
Type RR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RR 160 B[1]	05656	530[1]/370	2540[1]/1695	42	62[1]/40	0.27[1]/0.18	0.27	934.1	60	60	3.2	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
RR 160 C[1]	05657	870[1]/610	2480[1]/1580	49	101[1]/64	0.44[1]/0.28	0.44	934.1	65	65	4.3	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238
Type RRK, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
RRK 160	05976	500	2380	32	53	0.24	0.24	508	70	60	2.7	**TSW 0.3**	03608	**ESU 1 / ESA 1**	00236 / 00238
Type SVR, Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP33															
SVR 160 K[2]	02672	450/310[2]	2550/1740[2]	45/37[2]	61/42[2]	0.26/0.19[2]	0.25	934.1	60	60	6.7	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

[1] Type with high speed; with additional energy-saving level as standard (see performance diagram). [2] Values refer to the two performance levels (see performance diagram).
[3] Transformer control units must be provided in noise-relevant cases. Electronic phase angle control can cause disturbing magnetisation humming.
* See ErP product data sheet at www.HeliosSelect.de.

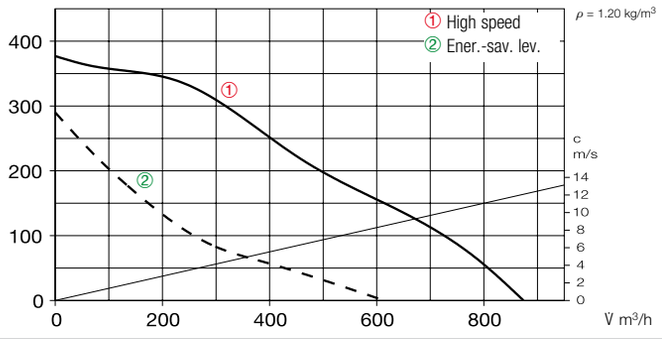
Performance curves RR 160 B

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



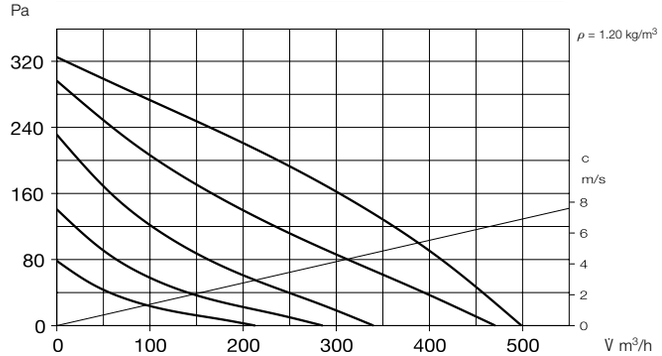
Performance curves RR 160 C

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



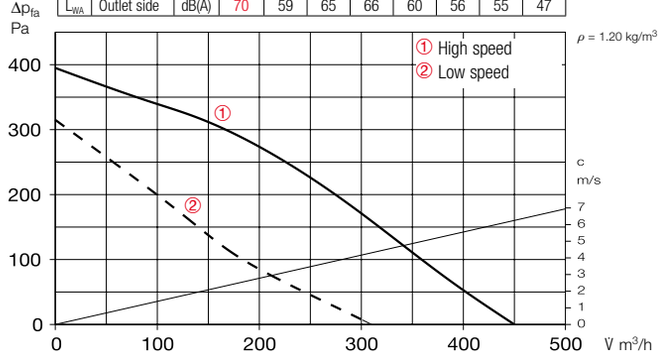
Performance curves RRK 160

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



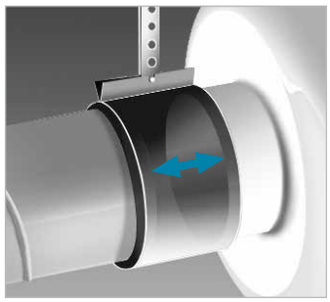
Performance curves SVR 160 K

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



Accessories

Pipe clamp connectors
BM 160 Ref. no. 05077
For structure-borne noise-free connection of fan and piping and for suspension (1 set = 2 pcs). Mount ventilation duct and fan connector at a distance and fold sleeve over during installation.

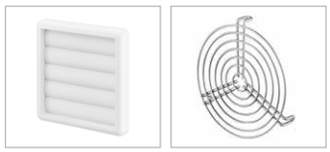


Mounting bracket for RR
MK 4 Ref. no. 05824
Mounting bracket for RRK
MK 2 Ref. no. 05822
Made of galvanised steel sheet.



External wall shutter
VK 160 Ref. no. 00892
Automatic made of plastic, white.

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



Protection grille
SGR 160 Ref. no. 05069
For inlet and outlet side installation. Made of galvanised steel.



Duct shutter
RSK 160 Ref. no. 05669
Automatic, made of metal.



Flexible cross talk silencer
FSD 160 Ref. no. 00678
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box
LFBR 160 Coarse 70%* 08578
LFBR 160 ePM1 50%* 08532
Air filter with large surface area, for installation in pipeline.

Electric heating element
EHR-R 1.2/160 1.2 kW No.09434
EHR-R 2.4/160 2.4 kW No.09435
EHR-R 5/160 5.0 kW No.08710
– with integrated temp. control
EHR-R 2.4/160 TR 2.4 kW No.05294
Room or duct sensor (TFK/TFR, Accessories) required.



Temperature control system for electric heating element EHR-R
EHS Ref. no. 05002



Warm water heating element
WHR 160 Ref. no. 09481
Compact heat exchanger for installation in duct system.



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



* See product page 486 for detailed description.