

For the delivery of medium and small air volumes against high resistances.

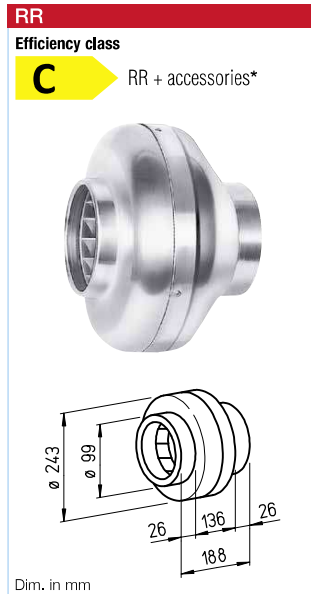
Specifically designed for direct insertion in duct systems. High pressure performance for overcoming friction losses, deflection losses and aggregate resistances. For various applications in commercial, industrial and residential areas.

Special features

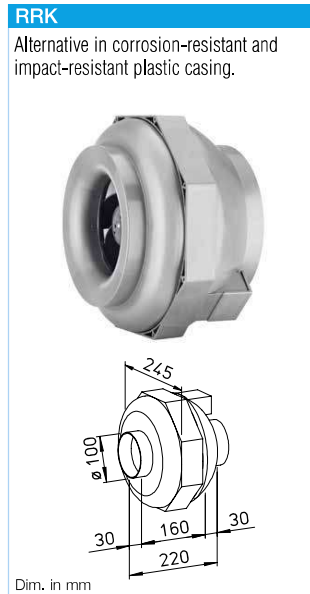
- Low space requirement and minimal installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Performance adjustment through 100% speed control.
- Can be used in any position.
- Wide range of accessories.
-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

Common features

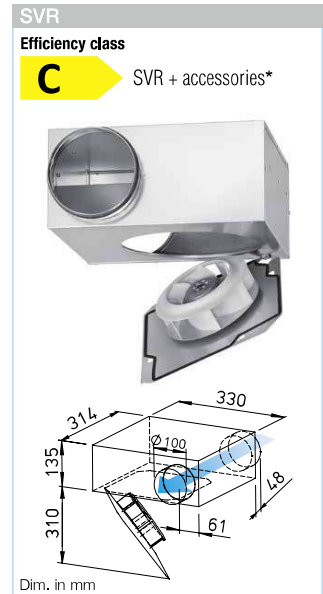
- Motor**
Enclosed, ball bearing mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance-free and radio interference-free.
- Motor protection**
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.
- Installation**
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVR must not be installed with the retractable motor-impeller unit upward). Installation in duct system, preferably away from the room to be ventilated for less noise.
- Noise**
See page 373.



- Description RR**
- Casing**
Made of galvanised steel sheet, robust for harsh operating conditions. Inlet and outlet side connection dimensions correspond to standard duct Ø.
- Power control**
For type RR 100 A from 0–100 % possible using electronic controller or step transformer (see table). For Type RR 100 C also two level operation using type DS 2/2 (accessories).
Type DS 2/2 Ref. no. 01267
- Electrical connection**
Terminal box (IP 54) 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 IP 44 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 (IP 44) 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**
IP 44



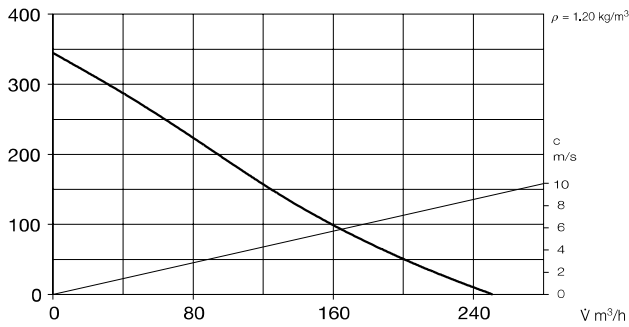
- Description SVR**
- Casing**
Flat casing in compact design made of galvanised steel sheet. Connectors and lip seal on inlet and outlet side for standard duct Ø. The retractable motor-impeller unit allows inspection and cleaning without dismantling components. The swivelling range must be considered 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).
Type DS 2/2 Ref. no. 01267
- Electrical connection**
Terminal box (IP 54) 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**
IP 44 with connected duct system.

Type	Ref. no.	Flow rate free blowing	Rated speed	Sound press. case radiation	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net approx.	Transformer speed controller 5-step	Electronic ³⁾ speed controller, cont. var. flush / surface-mounted
		V m ³ /h	min ⁻¹	dB(A) at 1m	W	A	A	No.	+°C	+°C	kg	Type Ref. no.	Type Ref. no.
Type RR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44													
RR 100 A	05653	250	1730	36	41	0.18	0.18	508	60	60	2.9	TSW 0.3 03608	ESU 1 / ESA 1 00236 / 00238
RR 100 C ¹⁾	05654	330 ¹⁾ /220	2530 ¹⁾ /1655	42	62 ¹⁾ /40	0.27 ¹⁾ /0.18	0.27	934.1	60	60	2.9	TSW 0.3 03608	ESU 1 / ESA 1 00236 / 00238
Type RRK, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44													
RRK 100	05973	290	2125	44	29	0.13	0.13	508	70	60	2.0	TSW 0.3 03608	ESU 1 / ESA 1 00236 / 00238
Type SVR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 33													
SVR 100 C ²⁾	02658	310/245 ²⁾	2600/1940 ²⁾	45/40 ²⁾	58/40 ²⁾	0.25/0.18 ²⁾	0.23	934.1	60	60	4.8	TSW 1.5 01495	ESU 1 / ESA 1 00236 / 00238

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

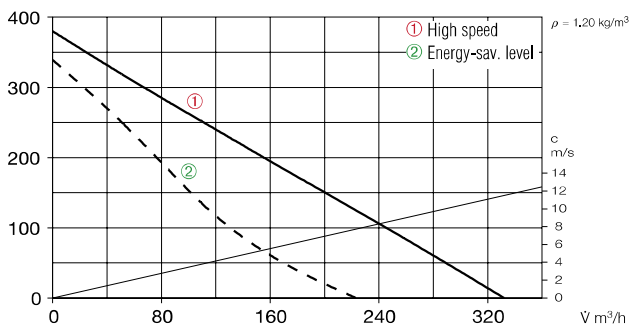
RR 100 A

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



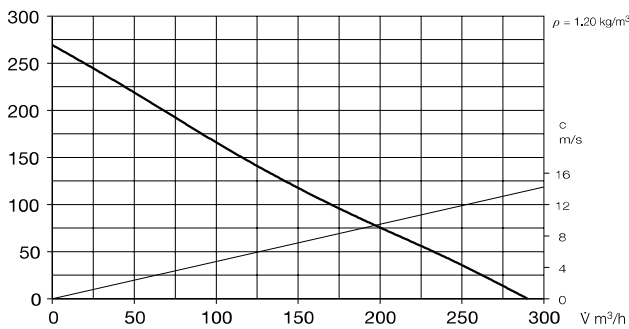
RR 100 C

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



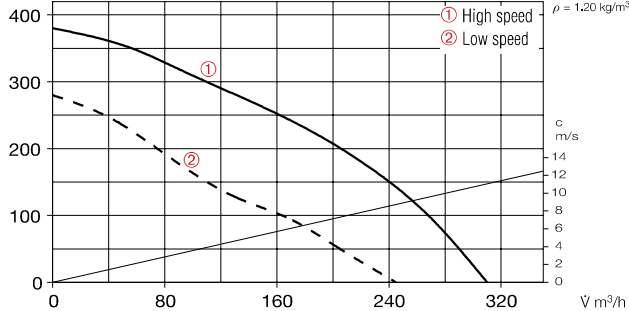
RRK 100

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



SVR 100 C

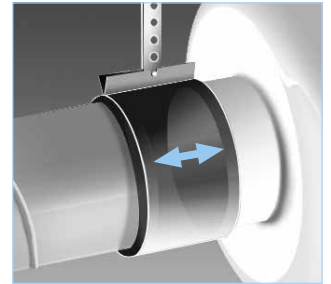
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA}	Radiation	dB(A)	53	37	50	49	44	41	35	31
L _{WA}	Inlet side	dB(A)	67	60	61	64	57	55	49	44
L _{WA}	Outlet side	dB(A)	70	60	63	66	64	60	54	48



Accessories

Pipe clamp connectors

Type BM 100 Ref. no. 05075
For structure-borne noise-free connection of fan and piping and for suspension (1 set = 2 pcs.). Mount ventilation duct and fan connector at a distance and fold sleeve over during installation.



Mounting bracket for RR

Type MK 4 Ref. no. 05824

Mounting bracket for RRK

Type MK 1 Ref. no. 05821

Made of galvanised steel sheet.



External wall shutter

Type VK 100 Ref. no. 00757
Automatic made of plastic, white.



External wall cover grille

Type G 100 Ref. no. 00796
Made of plastic, white.



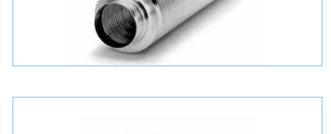
Protection grille

Type SGR 100 Ref. no. 05063
For inlet and outlet side installation. Made of powder-coated steel wire.



Duct shutter

Type RSKK 100 Ref. no. 05106
Automatic, made of plastic.



Flexible cross talk silencer

Type FSD 100 Ref. no. 00676
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box

LFBR 100 G4¹⁾ Ref. no. 08576
LFBR 100 F7¹⁾ Ref. no. 08530
Air filter with large surface area, for installation in pipeline.



Electric heating element

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



Temperature control system for electric heating element

EHR-R

Type EHS Ref. no. 05002



Warm water heating element

Type WHR 100 Ref. no. 09479
Compact heat exchanger for installation in duct system.



Temperature control system for warm water heating element

Type WHST 300 T38 No. 08817

¹⁾ See product page for detailed description.

For the delivery of medium and small air volumes against high resistances.

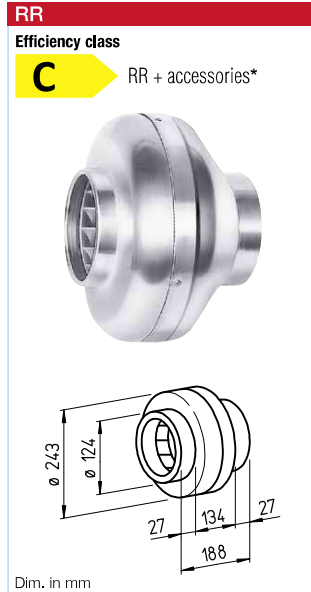
Specifically designed for direct insertion in duct systems. High pressure performance for overcoming friction losses, deflection losses and aggregate resistances. For various applications in commercial, industrial and residential areas.

Special features

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

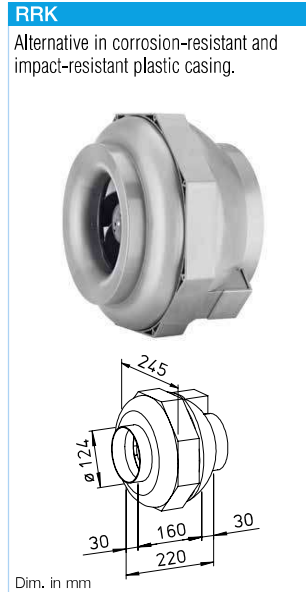
Common features

- Motor**
Enclosed, ball bearing mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance-free and radio interference-free.
- Motor protection**
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.
- Installation**
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVR must not be installed with the retractable motor-impeller unit upward). Installation in duct system, preferably away from the room to be ventilated for less noise.



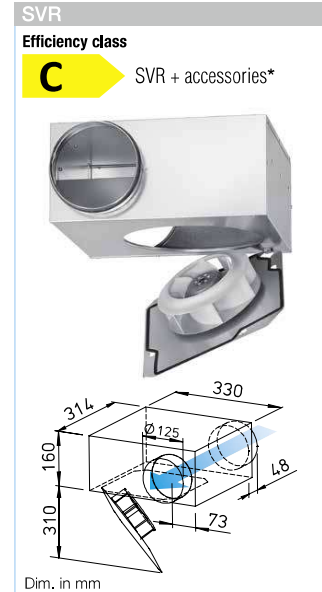
Description RR

- Casing**
Made of galvanised steel sheet, robust for harsh operating conditions. Inlet and outlet side connection dimensions correspond to standard duct Ø.
- Power control**
From 0 – 100% using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).
Type DS 2/2 Ref. no. 01267
- Electrical connection**
Terminal box (IP 54) 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 IP 44 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 (IP 44) 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**
IP 44



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).
Type DS 2/2 Ref. no. 01267
- Electrical connection**
Terminal box (IP 54) 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**
IP 44 with connected duct system.

Type	Ref. no.	Flow rate free blowing V m³/h	Rated speed min⁻¹	Sound press. case radiation dB(A) at 1m	Power consump. W	Current consump. at rated voltage A	Current consump. with control A	Wiring diagram No.	Max. air flow temp. at rated voltage +°C	Weight net approx. kg	Transformer speed controller 5-step		Electronic ³⁾ speed controller, cont. var. flush / surface-mounted		
											Type	Ref. no.	Type	Ref. no.	
Type RR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44															
RR 125 C ¹⁾	05655	480 ¹⁾ /310	2480 ¹⁾ /1655	42	62 ¹⁾ /40	0.27 ¹⁾ /0.18	0.27	934.1	70	70	2.9	TSW 0.3	03608	ESU 1 / ESA 1	00236 / 00238
Type RRK, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44															
RRK 125	05974	390	2635	36	42	0.19	0.19	508	70	60	2.5	TSW 0.3	03608	ESU 1 / ESA 1	00236 / 00238
Type SVR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 33															
SVR 125 B ²⁾	02671	400/290 ²⁾	2570/1810 ²⁾	46/38 ²⁾	59/41 ²⁾	0.26/0.18 ²⁾	0.24	934.1	60	60	5.1	TSW 1.5	01495	ESU 1 / ESA 1	00236 / 00238

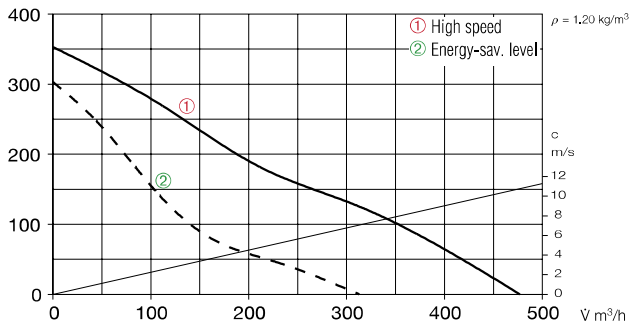
¹⁾ Type with high speed; with additional energy-saving level as standard (see performance diagram). ²⁾ Values refer to the two performance levels (see performance diagram).

³⁾ Transformer control units must be provided in noise-relevant cases. Electronic phase angle control can cause disturbing magnetisation humming.

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

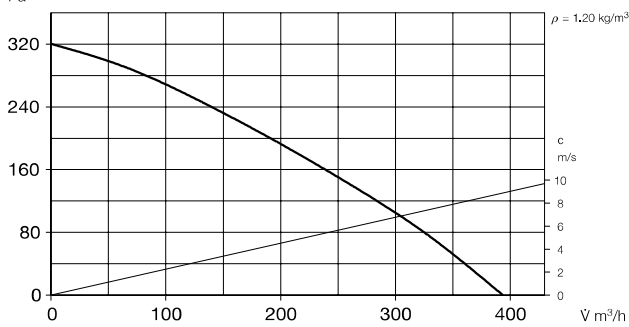
RR 125 C

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



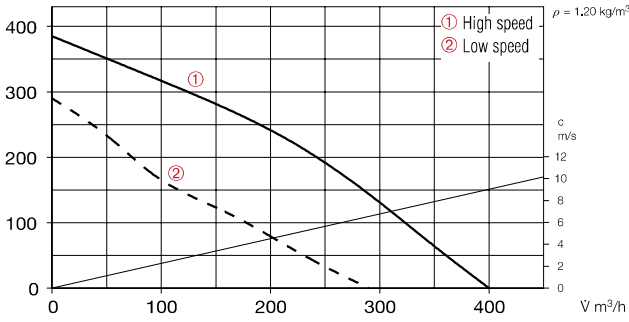
RRK 125

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



SVR 125 B

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



Noise

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

- Radiated sound power.
- Inlet/outlet side sound power in dB(A).

The case-radiated noise and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table (see left page).

References

References	Page
Techn. description	334
Selection table	335
Planning information	10 ff.
Modular system	332

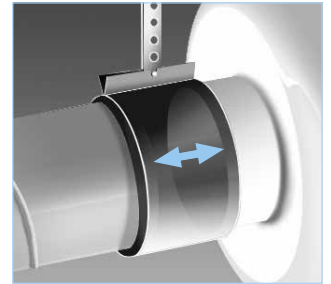
Accessory details

Accessory details	Page
Filters, heating elements and silencers	455 ff.
Temperature control systems for heating elements	461, 465 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	533 ff.
Disc valves	554 ff.
Speed controllers, controllers and switches	571 ff.

Accessories

Pipe clamp connectors

Type BM 125 Ref. no. 05076
For structure-borne noise-free connection of fan and piping and for suspension (1 set = 2 pcs.). Mount ventilation duct and fan connector at a distance and fold sleeve over during installation.



Mounting bracket for RR

Type MK 4 Ref. no. 05824

Mounting bracket for RRK

Type MK 1 Ref. no. 05821

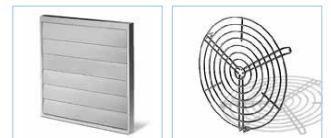
Made of galvanised steel sheet.



External wall shutter

Type VK 125 Ref. no. 00857

Automatic made of plastic, white.



External wall cover grille

Type G 160 Ref. no. 00893

Made of plastic, white.



Protection grille

Type SGR 125 Ref. no. 05064

For inlet and outlet side installation. Made of powder-coated steel wire.



Duct shutter

Type RSKK 125 Ref. no. 05107

Automatic, made of plastic.



Flexible cross talk silencer

Type FSD 125 Ref. no. 00677

Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box

LFBR 125 G4¹⁾ Ref. no. 08577

LFBR 125 F7¹⁾ Ref. no. 08531

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



Electric heating element

EHR-R 0.8/125 0.8 kW No.08709

EHR-R 1.2/125 1.2 kW No.09433

- with integrated temp. control

EHR-R 0.8/125 TR 0.8 kW No.05293

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



Temperature control system for electric heating element EHR-R

Type EHS Ref. no. 05002



Warm water heating element

Type WHR 125 Ref. no. 09480

Compact heat exchanger for installation in duct system.



Temperature control system for warm water heating element

Type WHST 300 T38 No. 08817



¹⁾ See product page for detailed description.

For the delivery of medium and small air volumes against high resistances.

Specifically designed for direct insertion in duct systems. High pressure performance for overcoming friction losses, deflection losses and aggregate resistances. For various applications in commercial, industrial and residential areas.

Special features

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

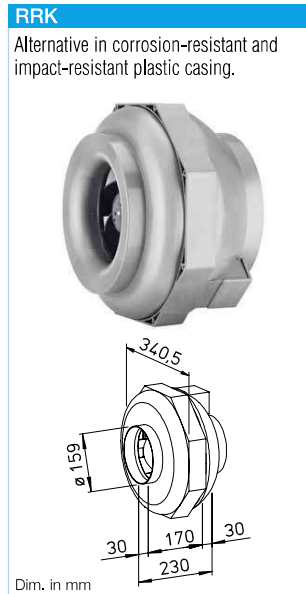
Common features

- Motor**
Enclosed, ball bearing mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance-free and radio interference-free.
- Motor protection**
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.
- Installation**
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVR must not be installed with the retractable motor-impeller unit upward). Installation in duct system, preferably away from the room to be ventilated for less noise.
- Noise**
See page 373.



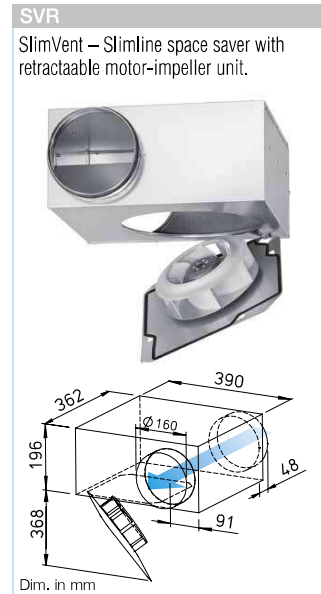
Description RR

- Casing**
Made of galvanised steel sheet, robust for harsh operating conditions. Inlet and outlet side connection dimensions correspond to standard duct Ø.
- Power control**
From 0 – 100% using electronic controller or step transformer (see table) or two level operation with type DS 2/2 (accessories).
Type DS 2/2 Ref. no. 01267
- Electrical connection**
Terminal box (IP 54) 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 IP 44 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 (IP 44) 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**
IP 44



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).
Type DS 2/2 Ref. no. 01267
- Electrical connection**
Terminal box (IP 54) 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**
IP 44 with connected duct system.

Type	Ref. no.	Flow rate free blowing V m³/h	Rated speed min⁻¹	Sound press. case radiation dB(A) at 1m	Power consump. W	Current consump. at rated voltage A	Current consump. with control A	Wiring diagram No.	Max. air flow temp. at rated voltage +°C	Temp. with control +°C	Weight net approx. kg	Transformer speed controller 5-step		Electronic ³⁾ speed controller, cont. var. flush / surface-mounted	
												Type	Ref. no.	Type	Ref. no.
Type RR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44															
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, IP 44															
RRK 160	05976	520	2380	36	49	0.22	0.22	508	70	60	3.0	TSW 0.3	03608	ESU 1 / ESA 1	00236 / 00238
Type SVR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 33															
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	100236 / 002380

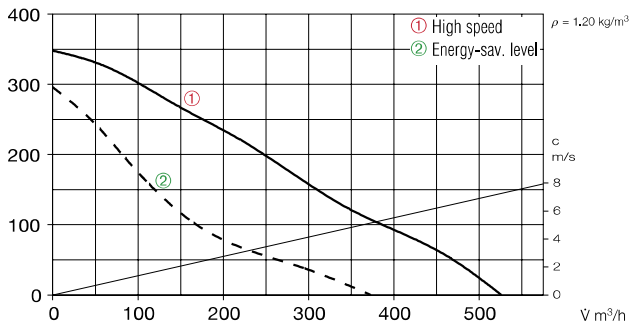
¹⁾ Type with high speed; with additional energy-saving level as standard (see performance diagram). ²⁾ Values refer to the two performance levels (see performance diagram).

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.

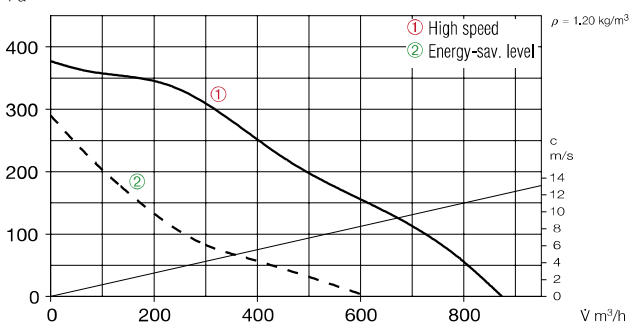
RR 160 B

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



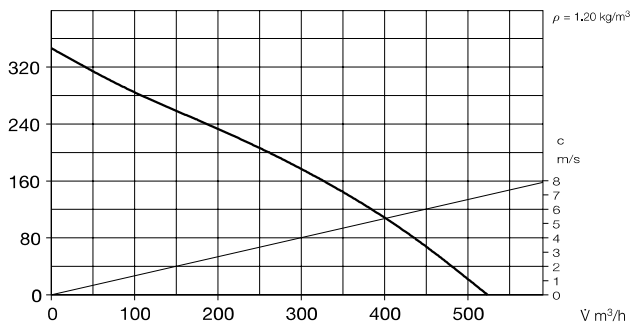
RR 160 C

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



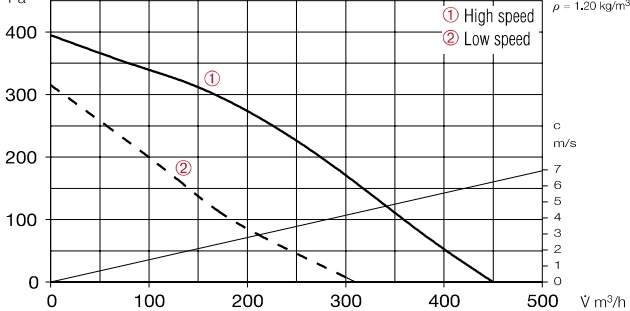
RRK 160

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Radiation	dB(A)	43	30	34	36	38	37	30	21
L _{WA} Inlet side	dB(A)	60	40	53	54	54	53	50	38



SVR 160 K

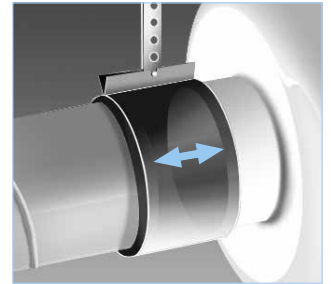
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Radiation	dB(A)	53	39	48	50	41	39	34	31
L _{WA} Inlet side	dB(A)	68	59	65	62	57	51	52	45
L _{WA} Outlet side	dB(A)	70	59	65	66	60	56	55	47



Accessories

Pipe clamp connectors

Type 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

Type MK 4 Ref. no. 05824

Mounting bracket for RRK

Type MK 2 Ref. no. 05822

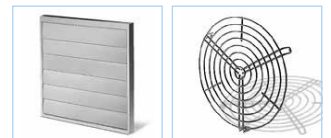
Made of galvanised steel sheet.



External wall shutter

Type VK 160 Ref. no. 00892

Automatic made of plastic, white.



External wall cover grille

Type G 160 Ref. no. 00893

Made of plastic, white.



Protection grille

Type SGR 160 Ref. no. 05069

For inlet and outlet side installation. Made of galvanised steel.



Duct shutter

Type RSK 160 Ref. no. 05669

Automatic, made of metal.



Flexible cross talk silencer

Type 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 G4¹⁾ Ref. no. 08578

LFBR 160 F7¹⁾ Ref. no. 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

Type EHS Ref. no. 05002



Warm water heating element

Type WHR 160 Ref. no. 09481

Compact heat exchanger for installation in duct system.



Temperature control system for warm water heating element

Type WHST 300 T38 No. 08817



¹⁾ See product page for detailed description.

For the delivery of medium and small air volumes against high resistances.

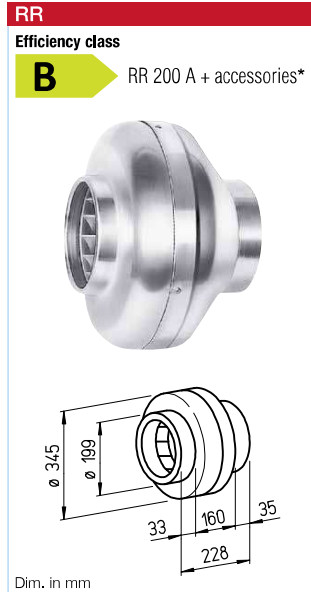
Specifically designed for direct insertion in duct systems. High pressure performance for overcoming friction losses, deflection losses and aggregate resistances. For various applications in commercial, industrial and residential areas.

Special features

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

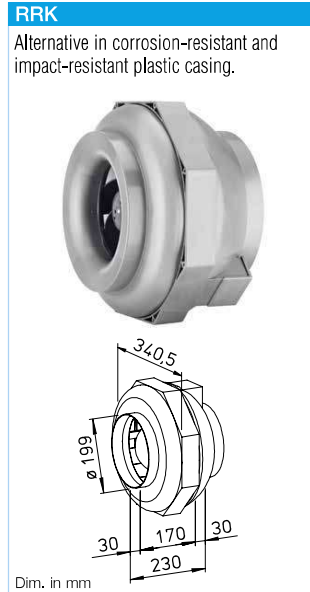
Common features

- Motor**
Enclosed, ball bearing mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance-free and radio interference-free.
- Motor protection**
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.
- Installation**
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation (exception: SVR must not be installed with the retractable motor-impeller unit upward). Installation in duct system, preferably away from the room to be ventilated for less noise.
- Noise**
See page 373.



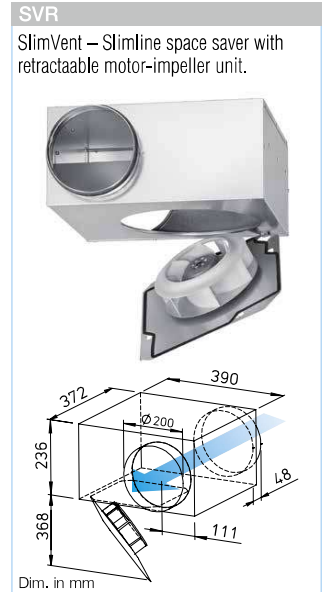
Description RR

- Casing**
Made of galvanised steel sheet, robust for harsh operating conditions. Inlet and outlet side connection dimensions correspond to standard duct Ø.
- Power control**
From 0 – 100% using electronic controller or step transformer (see table).
Two level operation for type RR 200 A possible using type DS 2/2 (accessories).
Type DS 2/2 Ref. no. 01267
- Electrical connection**
Terminal box (IP 54) 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 IP 44 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 (IP 44) 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**
IP 44



Description SVR

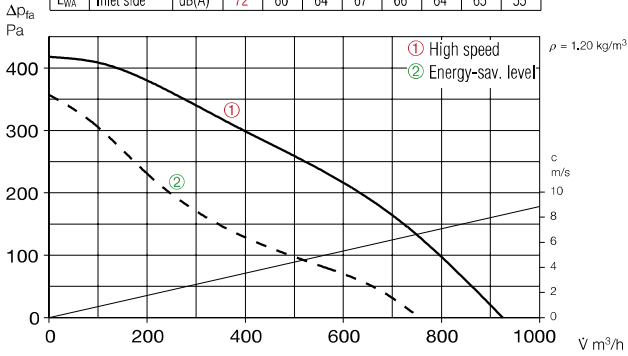
- Casing**
Flat casing in compact design made of galvanised steel sheet. Connectors and lip seal on inlet and outlet side for standard duct Ø.
The retractable motor-impeller unit allows inspection and cleaning without dismantling components. The swivelling range must be considered for the inspection opening.
- Power control**
From 0 – 100% possible using electronic controller or step transformer (see table).
- Electrical connection**
Terminal box (IP 54) 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**
IP 44 with connected duct system.

Type	Ref. no.	Flow rate free blowing	Rated speed	Sound press. case radiation	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net approx.	Transformer speed controller 5-step	Electronic ²⁾ speed controller, cont. var. flush / surface-mounted
		∇ m³/h	min ⁻¹	dB(A) at 1 m	W	A	A	No.	+°C	+°C	kg	Type Ref. no.	Type Ref. no.
Type RR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44 (Type RR 200 B, IP 33)													
RR 200 A ¹⁾	05658	930 ¹⁾ /760	2580 ¹⁾ /1830	47	115 ¹⁾ /85	0.51 ¹⁾ /0.39	0.51	934.1	60	60	4.6	TSW 1.5 01495	ESU 1 / ESA 1 00236 / 00238
RR 200 B	05659	980	2750	44	145	0.63	0.78	508	70	60	5.0	TSW 1.5 01495	ESU 1 / ESA 1 00236 / 00238
Type RRK, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44													
RRK 200	05977	930	2297	40	102	0.45	0.45	508	70	60	3.8	TSW 1.5 01495	ESU 1 / ESA 1 00236 / 00238
Type SVR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 33													
SVR 200 K	02673	980	2730	57	154	0.67	0.81	508	70	50	8.4	TSW 1.5 01495	ESU 1 / ESA 1 00236 / 00238

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

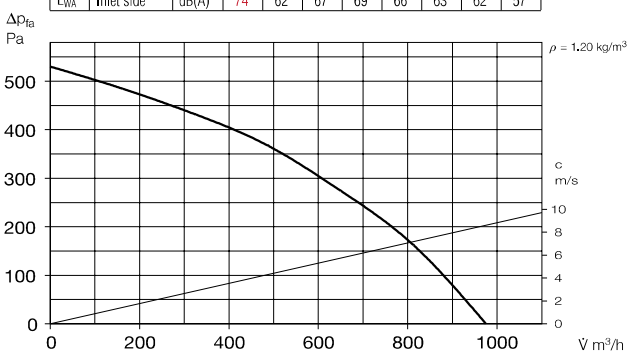
RR 200 A

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Radiation	dB(A)	54	31	42	46	50	47	48	34
L _{WA} Inlet side	dB(A)	72	60	64	67	66	64	65	55



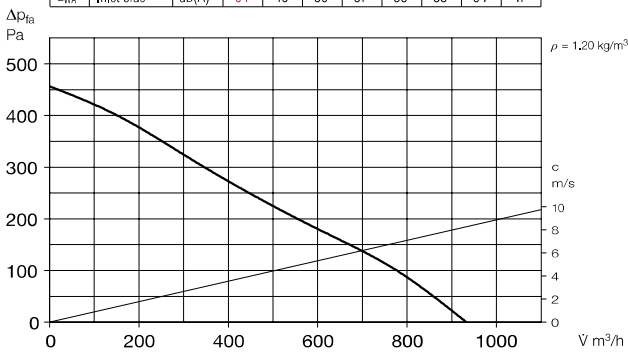
RR 200 B

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



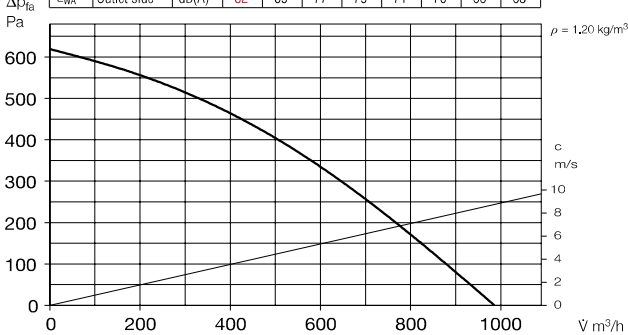
RRK 200

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Radiation	dB(A)	47	37	37	42	41	40	32	25
L _{WA} Inlet side	dB(A)	64	46	56	57	58	58	54	47



SVR 200 K

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

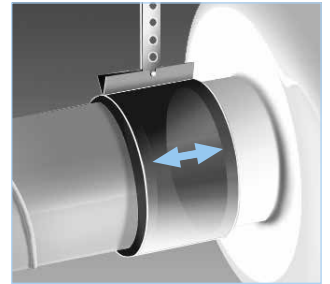


Accessories

Pipe clamp connectors

Type BM 200 Ref. no. 05078

For structure-borne noise-free connection of fan and piping and for suspension (1 set = 2 pcs.). Mount ventilation duct and fan connector at a distance and fold sleeve over during installation.



Mounting bracket for RR

Type MK 4 Ref. no. 05824

Mounting bracket for RRK

Type MK 2 Ref. no. 05822

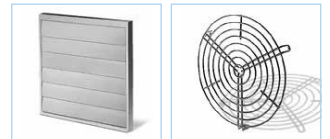
Made of galvanised steel sheet.



External wall shutter

Type VK 200 Ref. no. 00758

Made of plastic, light grey.



External wall cover grille

Type RAG 200 Ref. no. 00750

Made of plastic, light grey.



Protection grille

Type SGR 200 Ref. no. 05066

For inlet and outlet side installation. Made of galvanised steel.



Duct shutter

Type RSK 200 Ref. no. 05074

Automatic, made of metal.



Flexible cross talk silencer

Type FSD 200 Ref. no. 00679

Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box

LFBR 200 G4¹⁾ Ref. no. 08579

LFBR 200 F7¹⁾ Ref. no. 08533

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



Electric heating element

EHR-R 1.2/200 1.2 kW No.09436

EHR-R 2/200 2.0 kW No.09437

EHR-R 5/200 5.0 kW No.08711

– with integrated temp. control

EHR-R 5/200 TR 5.0 kW No.05295

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



Temperature control system for electric heating element-EHR-R

Type EHS Ref. no. 05002



Warm water heating element

Type WHR 200 Ref. no. 09482

Compact heat exchanger for installation in duct system.



Temperature control system for warm water heating element

Type WHST 300 T38 No. 08817



¹⁾ See product page for detailed description.

For the delivery of medium and small air volumes against high resistances.

Specifically designed for direct insertion in duct systems. High pressure performance for overcoming friction losses, deflection losses and aggregate resistances. For various applications in commercial, industrial and residential areas.

Special features

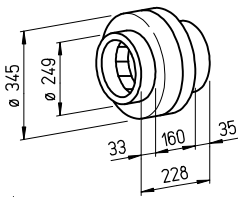
- Low space requirement and minimal installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Performance adjustment through 100% speed control.
- Can be used in any position.
- Wide range of accessories.
-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

Common features

- Motor**
Enclosed, ball bearing mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance-free and radio interference-free.
- Motor protection**
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

RR

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



Dim. in mm

Description RR

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

Power control

From 0 – 100% using electronic controller or step transformer (see table).
 Two level operation for type RR 200 A possible using type DS 2/2 (accessories).
Type DS 2/2 Ref. no. 01267

Electrical connection

Terminal box (IP 54) on outside of casing.

Impeller

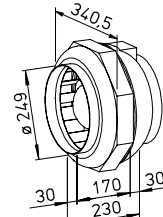
Centrifugal, with backward curved blades made of plastic. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.

Protection category

Protection category IP 44 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

RRK

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



Dim. in mm

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

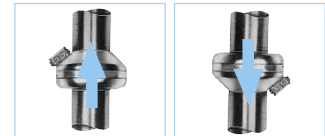
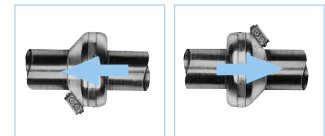
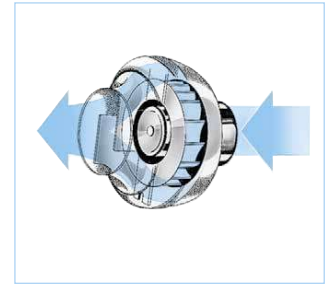
Terminal box (IP 44) on outside of casing.

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

IP 44



Installation

No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation. Installation in duct system, preferably away from the room to be ventilated for less noise.

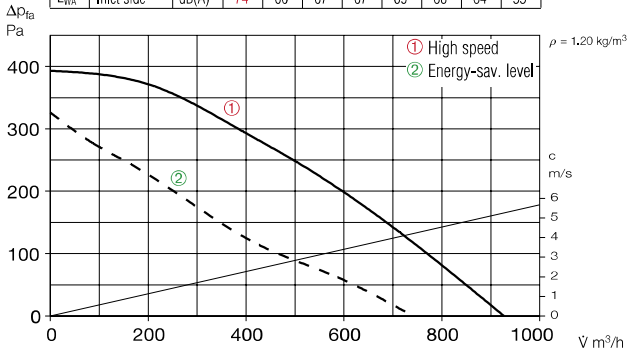
Type	Ref. no.	Flow rate free blowing	Rated speed	Sound press. case radiation	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Weight net approx.	Transformer speed controller 5-step		Electronic* speed controller, cont. var. flush / surface-mounted		
											Type	Ref. no.	Type	Ref. no.	
		∇ m³/h	min⁻¹	dB(A) at 1m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type RR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44 (Type RR 250 C, IP 33)															
RR 250 A ¹⁾	05652	886 ¹⁾ /740	2580 ¹⁾ /1910	46	115 ¹⁾ /83	0.50 ¹⁾ /0.38	0.50	934.1	60	60	4.6	TSW 1.5	01495	ESU 1 / ESA 1	00236 / 00238
RR 250 C	05660	970	2750	45	145	0.63	0.78	508	70	60	5.0	TSW 1.5	01495	ESU 1 / ESA 1	00236 / 00238
Type RRK, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44															
RRK 250	05978	1000	2300	40	104	0.45	0.45	508	70	60	3.7	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).

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

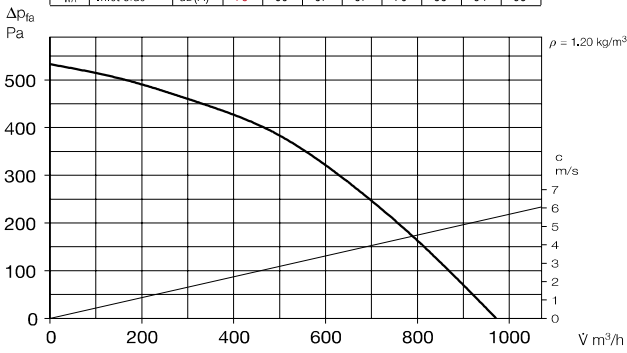
RR 250 A

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Radiation	dB(A)	54	30	34	47	52	47	44	38
L _{WA} Inlet side	dB(A)	74	60	67	67	69	68	64	55



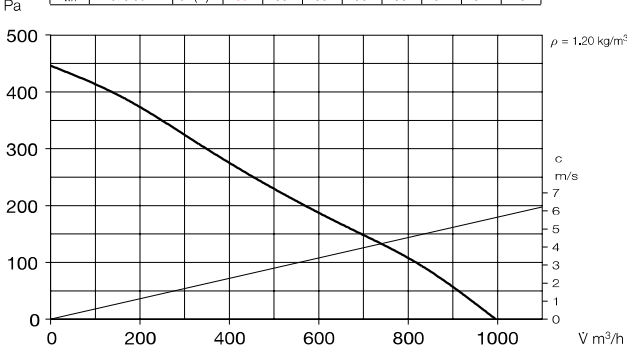
RR 250 C

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



RRK 250

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Radiation	dB(A)	47	44	39	38	37	37	27	21
L _{WA} Inlet side	dB(A)	63	50	56	56	56	57	52	45



Noise

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

- Radiated sound power.
- Inlet/outlet side sound power in dB(A).

The case-radiated noise and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table (see left page).

References

Techn. description	Page
Techn. description	334
Selection table	335
Planning information	10 ff.
Modular system	332

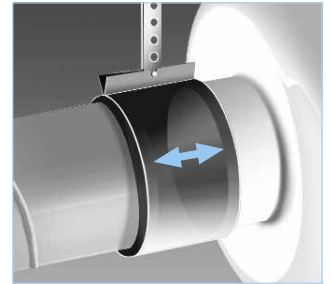
Accessory details

Filters, heating elements and silencers	Page
Filters, heating elements and silencers	455 ff.
Temperature control systems for heating elements	461, 465 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	533 ff.
Disc valves	554 ff.
Speed controllers, controllers and switches	571 ff.

Accessories

Pipe clamp connectors

Type BM 250 Ref. no. 05079
For structure-borne noise-free connection of fan and piping and for suspension (1 set = 2 pcs.). Mount ventilation duct and fan connector at a distance and fold sleeve over during installation.



Mounting bracket for RR

Type MK 4 Ref. no. 05824

Mounting bracket for RRK

Type MK 2 Ref. no. 05822

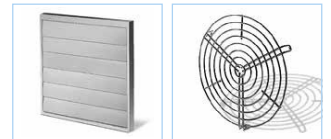
Made of galvanised steel sheet.



External wall shutter

Type VK 250 Ref. no. 00759

Automatic made of plastic, light grey.



External wall cover grille

Type RAG 250 Ref. no. 00751

Made of plastic, light grey.



Protection grille

Type SGR 250 Ref. no. 05067

For inlet and outlet side installation. Made of galvanised steel.



Duct shutter

Type RSK 250 Ref. no. 05673

Automatic, made of metal.



Flexible cross talk silencer

Type FSD 250 Ref. no. 0680

Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box

LFBR 250 G4¹⁾ Ref. no. 08580

LFBR 250 F7¹⁾ Ref. no. 08534

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



Electric heating element

EHR-R 6/250 6.0 kW No.08712

- with integrated temp. control

EHR-R 6/250 TR 6.0 kW No.05296

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



Temperature control system for electric heating element

EHR-R

Type EHS Ref. no. 05002



Warm water heating element

Type WHR 250 Ref. no. 09483

Compact heat exchanger for installation in duct system.



Temperature control system for warm water heating element

Type WHS HE Ref. no. 08319



¹⁾ See product page for detailed description.

For the delivery of medium and small air volumes against high resistances.

Specifically designed for direct insertion in duct systems. High pressure performance for overcoming friction losses, deflection losses and aggregate resistances. For various applications in commercial, industrial and residential areas.

Special features

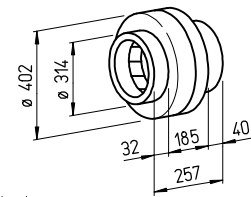
- Low space requirement and minimal installation costs due to linear throughflow.
- No need for elaborate deflectors.
- Connectors on inlet and outlet side correspond to standard duct Ø.
- Performance adjustment through 100% speed control.
- Can be used in any position.
- Wide range of accessories.
-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

Common features

- Motor**
Enclosed, ball bearing mounted external rotor motor with humidity protection, insulation class F, for continuous operation, maintenance-free and radio interference-free.
- Motor protection**
Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

RR

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



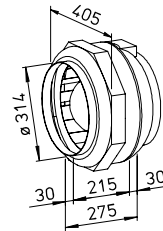
Dim. in mm

Description RR

- Casing**
Made of galvanised steel sheet, robust for harsh operating conditions. Inlet and outlet side connection dimensions correspond to standard duct Ø.
- Power control**
From 0 – 100% using electronic controller or step transformer (see table).
- Electrical connection**
Terminal box (IP 54) 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 IP 44 through inlet and outlet-side installation in a duct system which prevents the ingress of rainwater.

RRK

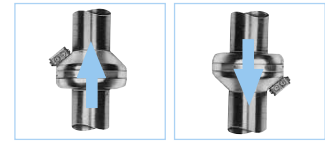
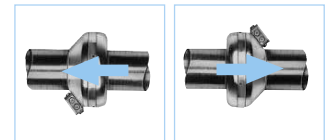
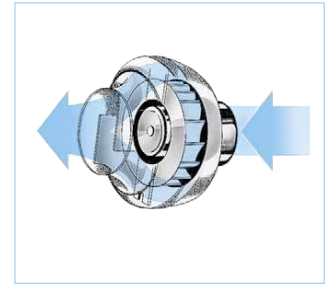
Alternative in corrosion-resistant and impact-resistant plastic casing.



Dim. in mm

Description RRK

- Casing**
All components made of corrosion-resistant and impact-resistant plastic. Six built-in guide blades additionally increase the level of efficiency. Colour: Silver-grey.
- Electrical connection**
Terminal box (IP 44) on outside of casing.
- Power control**
From 0 – 100 % possible using electronic controller or step transformer (see table).
- Impeller**
Centrifugal, with backward curved blades made of steel sheet. Directly pressed on motor and dynamically balanced as a unit. Low-noise, high level of efficiency.
- Protection category**
IP 44



Installation

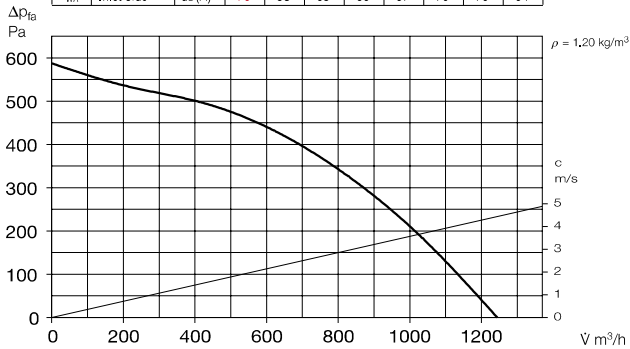
No restrictions in any position (horizontal, vertical, diagonal) through corresponding installation for supply or extract ventilation. Installation in duct system, preferably away from the room to be ventilated for less noise.

Type	Ref. no.	Flow rate	Rated	Sound press.	Power	Current consump.	Wiring	Max. air flow temp.		Weight	Transformer		Electronic*		
		free blowing	speed					case radiation	consump.		at rated voltage	with control	at rated voltage	with control	net approx.
		V m³/h	min⁻¹	dB(A) at 1m	W	A	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Type RR, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44															
RR 315	05920	1260	2660	46	200	0.87	0.97	508	70	60	6.1	TSW 1.5	01495	ESU 3 / ESA 3	00237 / 00239
Type RRK, single phase alternating current, 230 V, 50 Hz, capacitor motor, IP 44															
RRK 315	05979	1080	2690	48	170	0.75	0.97	508	70	60	5.7	TSW 1.5	01495	ESU 3 / ESA 3	00237 / 00239

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

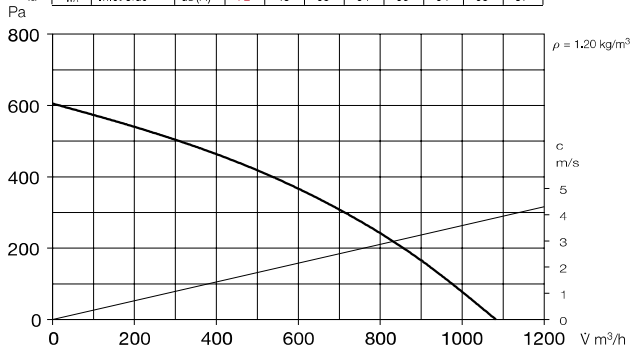
RR 315

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



RRK 315

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



Noise

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

- Radiated sound power.
- Inlet/outlet side sound power in dB(A).

The case-radiated noise and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table (see left page).

References Page

Techn. description	334
Selection table	335
Planning information	10 ff.
Modular system	332

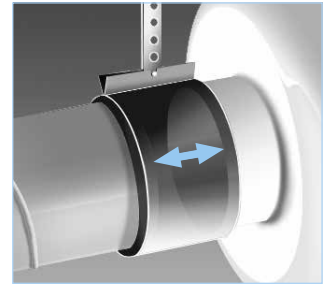
Accessory details Page

Filters, heating elements and silencers	455 ff.
Temperature control systems for heating elements	461, 465 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	533 ff.
Disc valves	554 ff.
Speed controllers, controllers and switches	571 ff.

Accessories

Pipe clamp connectors

Type BM 315 Ref. no. 05080
For structure-borne noise-free connection of fan and piping and for suspension (1 set = 2 pcs.). Mount ventilation duct and fan connector at a distance and fold sleeve over during installation.



Mounting bracket for RR

Type MK 4 Ref. no. 05824

Mounting bracket for RRK

Type MK 3 Ref. no. 05823

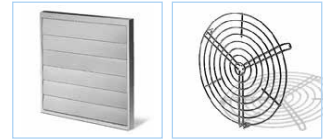
Made of galvanised steel sheet.



External wall shutter

Type VK 315 Ref. no. 00760

Automatic made of plastic, light grey.



External wall cover grille

Type RAG 315 Ref. no. 00752

Made of plastic, light grey.



Protection grille

Type SGR 315 Ref. no. 05068

For inlet and outlet side installation. Made of galvanised steel.



Duct shutter

Type RSK 315 Ref. no. 5674

Automatic, made of metal.



Flexible cross talk silencer

Type FSD 315 Ref. no. 00681

Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box

LFBR 315 G4¹⁾ Ref. no. 08581

LFBR 315 F7¹⁾ Ref. no. 08535

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



Electric heating element

EHR-R 6/315 6.0 kW No.08713

- with integrated temp. control

EHR-R 6/315 TR 6.0 kW No.05301

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



Temperature control system for electric heating element

EHR-R

Type EHS Ref. no. 05002



Warm water heating element

Type WHR 315 Ref. no. 09484

Compact heat exchanger for installation in duct system.



Temperature control system for warm water heating element

Type WHS HE Ref. no. 08319



¹⁾ See product page for detailed description.