RR 250

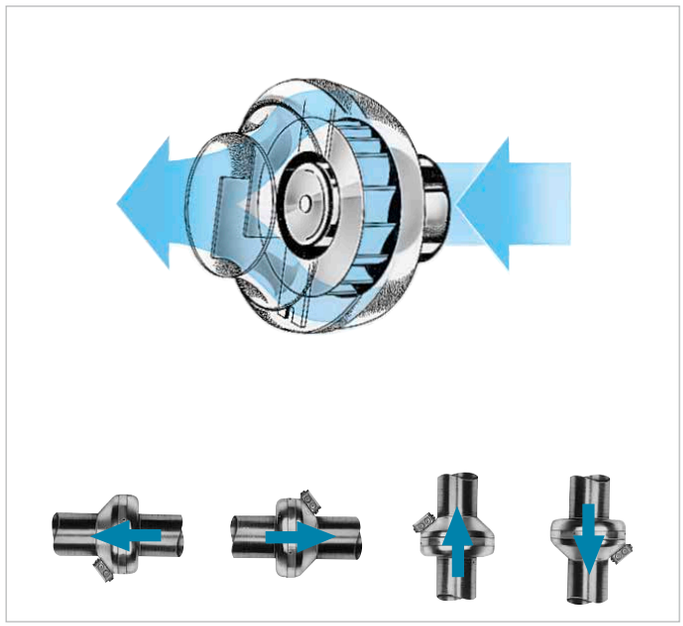


Market-leading unit series with favourable price/performance ratio.
With energy-saving level as standard.

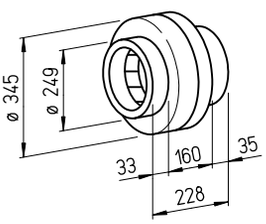
RRK 250



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

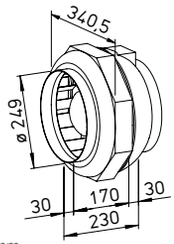


Dimensions RR 250



Dim. in mm

Dimensions RRK 250



Dim. in mm

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

Special features

- ☐ Low space requirement and 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.

Description RR

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

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

DS 2/2	Ref. no. 01267

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

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

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

Description RRK

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

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

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

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

Protection category
IP44

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

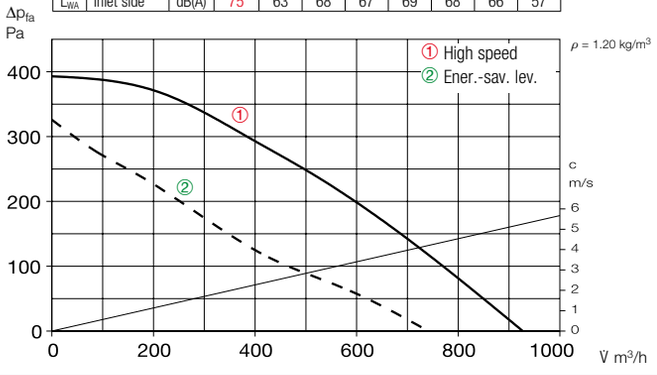
Noise
The total level and range are specified above the performance diagram for
- ☐ Case-radiated sound power
- ☐ Inlet/outlet side sound power in dB(A).
- ☐ The case-radiated noise and inlet/outlet side air noise as sound pressure at 1 m (free field conditions) are also specified in the type table.

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case radiation	Power consum.	Power consump. at rated voltage	Power consump. with control	Wiring diagram	Max air flow temp. at rated voltage	Max air flow temp. with control	Wgt net aprx.	Transformer speed controller 5-step		Electronic[2] Speed controller, cont. var. flush-mount. / surf-mount.	
		V m³/h	min⁻¹	dB(A) in 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, IP44 (Type RR 250 C, IP33)															
RR 250 A[1]	05652	950[1]/740	2650[1]/2030	42	126[1]/83	0.56[1]/0.37	0.56	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, IP44															
RRK 250	05978	910	2360	38	98	0.43	0.43	508	70	60	3.4	**TSW 1.5**	01495	**ESU 1 / ESA 1**	00236 / 00238

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

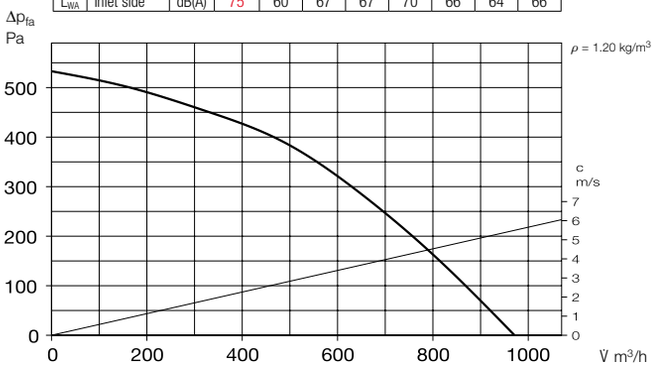
Performance curves RR 250 A

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



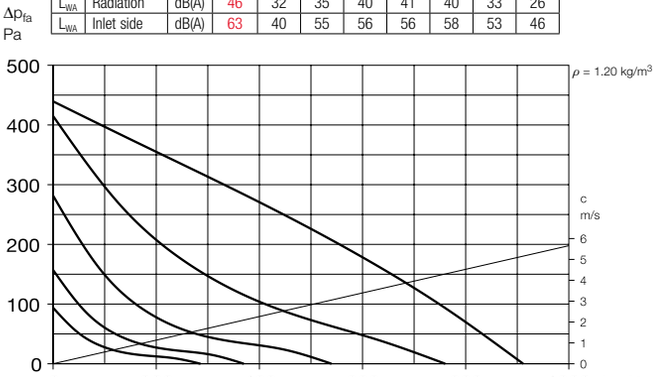
Performance curves RR 250 C

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



Performance curves RRK 250

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

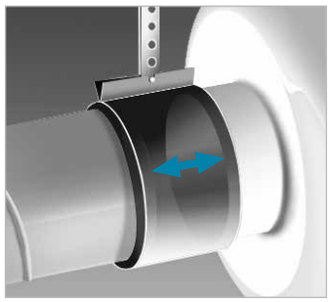


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Other accessories	Page
Filter, heating elements and silencers	483 ff.
Temperature control systems for heating elements	489, 493 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets	563 ff.
Disc valves	584 ff.
Speed controllers, controllers and switches	601 ff.

Accessories

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



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



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

External wall cover grille
RAG 250 Ref. no. 00751
Made of plastic, light grey.



Protection grille
SGR 250 Ref. no. 05067
For inlet and outlet side installation. Made of galvanised steel.

Duct shutter
RSK 250 Ref. no. 05673
Automatic, made of metal.



Flexible cross talk silencer
FSD 250 Ref. no. 0680
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.



Air filter box
LFBR 250 Coarse 70%* 08580
LFBR 250 ePM1 50%* 08534
Air filter with large surface area, for installation in pipeline.

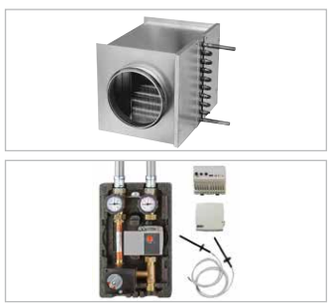
Electric heating element
EHR-R 6/250 6.0 kW No.08712
– with integrated temp. control
EHR-R 6/250 TR 6.0 kW No.05296
Room or duct sensor (TFK/TFR, Accessories) required.



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



Warm water heating element
WHR 250 Ref. no. 09483
Compact heat exchanger for installation in duct system.



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

* See product page 486 for detailed description.