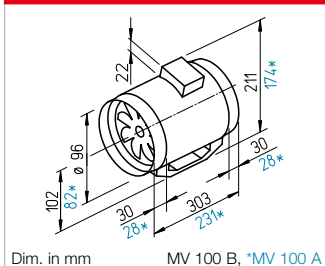


MV 100 – Single level



Dimensions MV 100



High pressure performance and high volume output with space-saving dimensions.

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

Special features

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

Casing

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

Power control

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

Motor

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

Motor protection

Through thermal overload protection in the winding.

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.

Impeller

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

Electrical connection

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

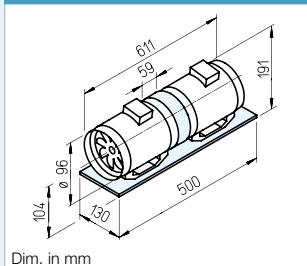
Installation

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

MV-MZ 100 B – Two level



Dimensions MV-MZ 100 B



Double pressure

Installation kit MV-MZ

Description

Installation kit for arranging two MV fans in series. The pressure performance is approximately doubled through series operation. Scope of delivery: base plate (1 pc.), sleeve (1 pc.).

Electrical connection

A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.

The high performance level must be connected when using speed controllers.

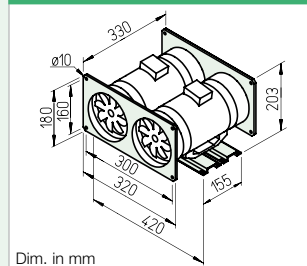
Installation

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

MV-MP 100 B – Parallel



Dimensions MV-MP 100 B



Double volume

Installation kit MV-MP

Description

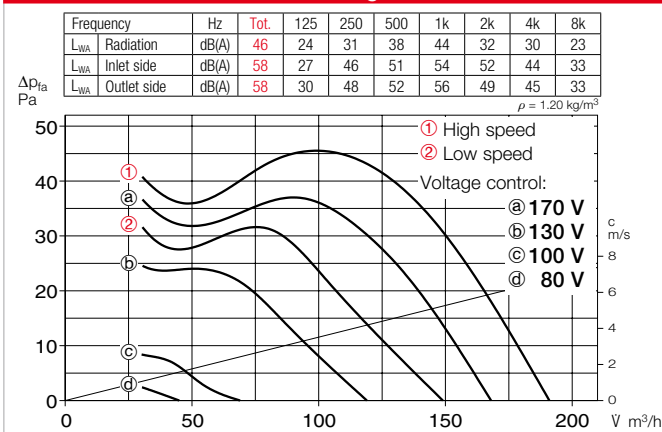
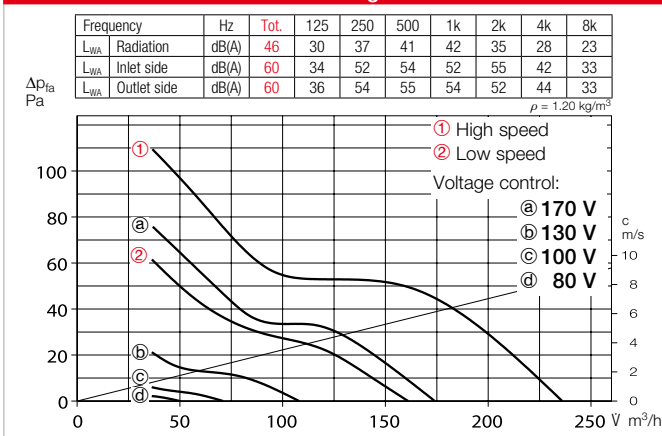
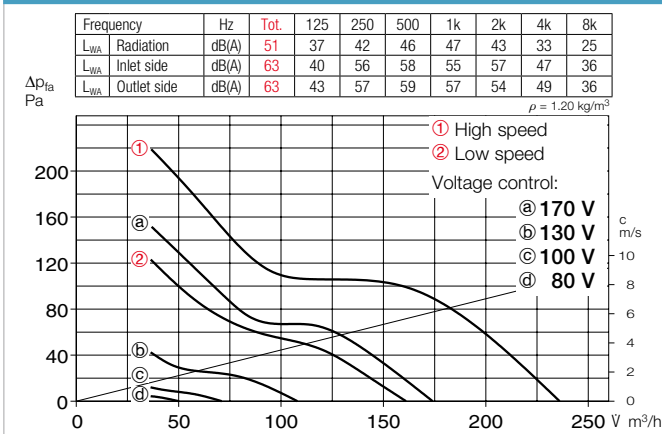
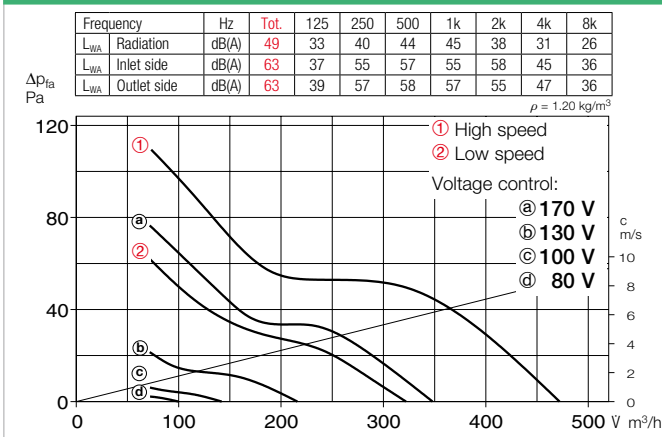
Installation kit for arranging two MV fans in parallel. The volume output doubles during parallel operation (joint control). Scope of delivery: mounting rails (2 pcs.), rectangular duct connection plates (2 pcs.).

Power control/Connection

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

Type	Ref. no.	Conne- ction Ø	Flow rate min./max.	Speed min./max.	Sound pres. lev at 1m		Power consum. min./max.	Current consum. min./max.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Transformer speed controller 5-step	Electronic* speed controller, cont. variable flush/ surf-mount.		
					Case radiation	Air noise min./max.							Type	Ref. no.	
		mm	Ṽ m³/h	min ⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, IP44															
MV 100 A	06050	100	150/190	2070/2620	34/38	45/50	12/15	0.05/0.07	844.1	60	1.2	TSW 0.3	03608	ESU1/ESA1	00236/00238
MV 100 B	06051	100	170/240	1590/2170	32/38	46/52	20/23	0.09/0.11	844.1	60	1.7	TSW 0.3	03608	ESU1/ESA1	00236/00238
Double pressure	Two level fan unit, 230 V, 50 Hz, Capacitor motor, IP44														
MV-MZ 100 B	06078	100	170/240	1590/2170	37/43	49/55	40/46	0.18/0.22	845.1	60	4.5	TSW 0.3	03608	ESU1/ESA1	00236/00238
Double volume	Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44														
MV-MP 100 B	06085	—	340/480	1590/2170	35/41	49/55	40/46	0.18/0.22	845.1	60	5.7	TSW 0.3	03608	ESU1/ESA1	00236/00238

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

Performance curves MV 100 A – Single level

Performance curves MV 100 B – Single level

Performance curves MV-MZ 100 B – Two level

Performance curves MV-MP 100 B – Parallel

Accessories for MV and MV-MZ
Flexible connecting sleeve
FM 100 Ref. no. 01681

Includes 2 hose clamps; for installation between fan and duct system. Prevents structure-borne noise transmission and bridges installation tolerances. 2 pcs required for inlet and outlet side application.


External wall shutter
VK 100 Ref. no. 00757

Automatic overpressure shutter for external wall connection of air outlet opening. Made of white plastic.


External wall cover grille
G 100 Ref. no. 00796

For covering and insertion in round ventilation openings. Made of break-resistant, white plastic.


Protection grille
MVS 100 Ref. no. 06071

For inlet and outlet side installation on fan.


Flexible cross talk silencer
FSD 100 Ref. no. 00676

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


Air filter box
LFBR 100 Coarse 70%* 08576

Large-surface, installation in round duct system.


Electric heating element
EHR-R 0.4/100 0.4 kW No. 08708

In duct casing made of galvanised steel sheet.


Warm water heating element
WHR 100 Ref. no. 09479

For installation in duct system.


Accessories for all types
Duct shutter
RSKK 100 Ref. no. 05106

Automatic, made of plastic. For installation in pipeline.


Operating switch 0-1-2
MVB Ref. no. 06091

With functions On/Off, Low and high speed.


Transformer speed controller
TSW See type table

Five-step, for surface installation.


Electronic speed controller
ESU/ESA See type table

For flush/surface installation.


Electronic turn-off delay switch
ZNE Ref. no. 00342

With continuously variable turn-off delay periods.

* See product page for detailed description