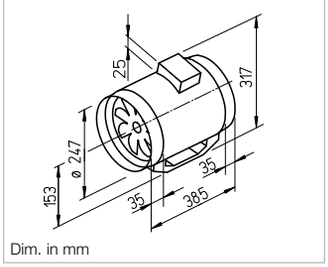
MV 250 – Single level



Dimensions MV 250



Dim. in mm

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 contact connected to the winding in series, which responds if the temperature is too high. Recommissioning only after disconnection from the mains and motor cooling.

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.

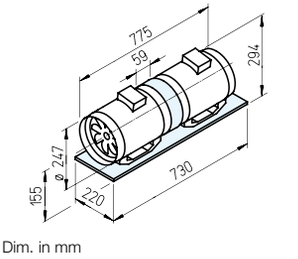
Installation

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 250 – Two level



Dimensions MV-MZ 250



Dim. in mm

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.

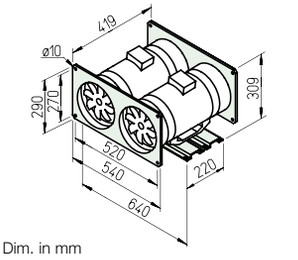
Installation

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 250 – Parallel



Dimensions MV-MP 250



Dim. in mm

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

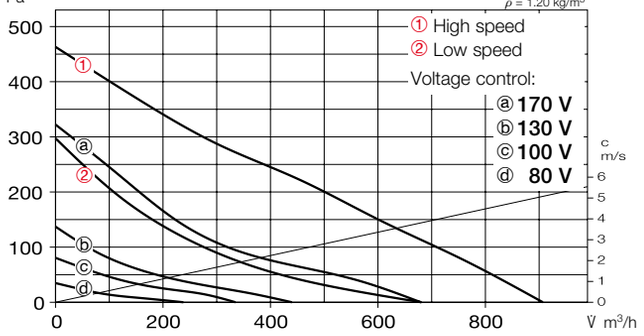
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
The high performance level must be connected when using speed controllers.
Each fan can also be individually 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.	Connection Ø	Flow rate min./max.	Speed min./max.	Sound pres. lev at 1m: Case radiation	Sound pres. lev at 1m: Air noise min./max.	Power consum. min./max.	Current consum. min./max.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Transformer speed controller 5-step: Type	Transformer speed controller 5-step: Ref. no.	Electronic* speed controller, cont. variable flush/ surf-mount.: Type	Electronic* speed controller, cont. variable flush/ surf-mount.: Ref. no.
		mm	V̇ m³/h	min⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg				
Single level round duct fan, 230 V, 50 Hz, Capacitor motor, IP44															
MV 250	06056	250	680/910	1850/2550	40/52	53/66	85/110	0.40/0.50	844.1	60	7.0	**TSW 1.5**	01495	**ESU1/ESA1**	00236/00238
Double pressure **Two level fan unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MV-MZ 250	06083	250	710/900	1850/2550	46/56	57/67	170/220	0.80/1.00	845.1	60	17.6	**TSW 1.5**	01495	**ESU3/ESA3**	00237/00239
Double volume **Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44**															
MV-MP 250	06090	–	1280/1820	1850/2550	43/55	56/69	170/220	0.80/1.00	845.1	60	18.7	**TSW 1.5**	01495	**ESU3/ESA3**	00237/00239

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

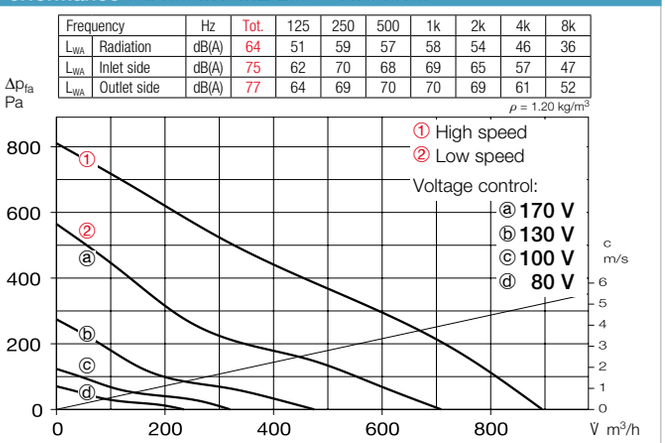
Performance curves MV 250 – Single level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	52	54	53	54	50	40	29
L_{WA}	Inlet side	dB(A)	74	66	68	67	68	64	54	43
L_{WA}	Outlet side	dB(A)	76	63	71	70	70	69	60	48



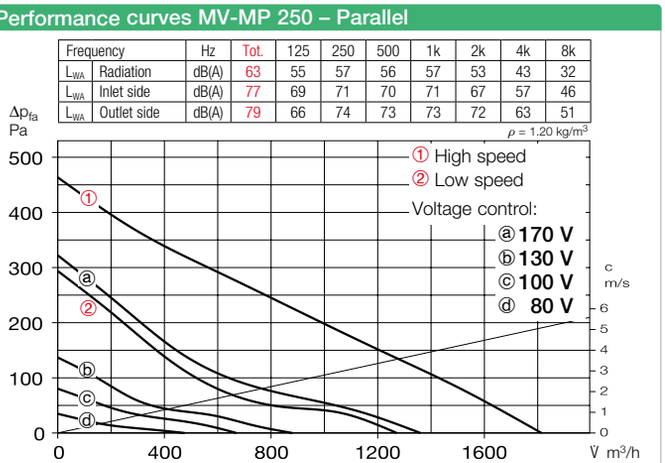
Performance curves MV-MZ 250 – Two level

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	64	51	59	57	58	54	46	36
L_{WA}	Inlet side	dB(A)	75	62	70	68	69	65	57	47
L_{WA}	Outlet side	dB(A)	77	64	69	70	70	69	61	52



Performance curves MV-MP 250 – Parallel

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	63	55	57	56	57	53	43	32
L_{WA}	Inlet side	dB(A)	77	69	71	70	71	67	57	46
L_{WA}	Outlet side	dB(A)	79	66	74	73	73	72	63	51



Accessory details	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 for MV and MV-MZ



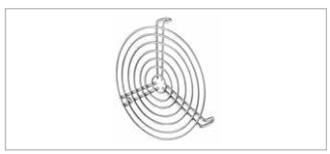
Flexible connecting sleeve
FM 250 Ref. no. 01672
Includes 2 hose clamps; for installation between fan and duct system. Prevents structure-borne noise transmission and bridges installation tolerances.
2 pcs required for inlet and outlet side application.



External wall shutter
VK 250 Ref. no. 00759
Automatic overpressure shutter for external wall connection of air outlet opening. Made of plastic; colour: light grey.



External wall cover grille
RAG 250 Ref. no. 00751
For placement in front of air inlet and outlet openings in facades. Made of plastic; colour: light grey.



Protection grille
MVS 250 Ref. no. 06076
For inlet and outlet side installation on fan.



Flexible cross talk silencer
FSD 250 Ref. no. 00680
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
Large-surface, installation in round duct system.

Electric heating element
EHR-R 6/250 6.0 kW No. 08712
In duct casing made of galvanised steel sheet.

Warm water heating element
WHR 250 Ref. no. 09483
For installation in duct system.

Accessories for all types



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

* See product page for detailed description