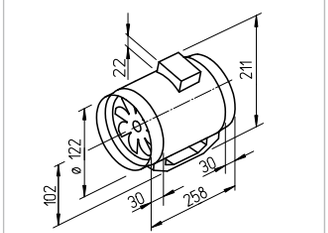
## MV 125 – Single level

## MVZ 125 – Two level

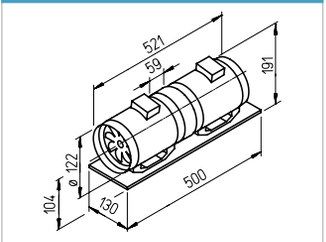

## MVP 125 – Parallel


## Dimensions MV 125



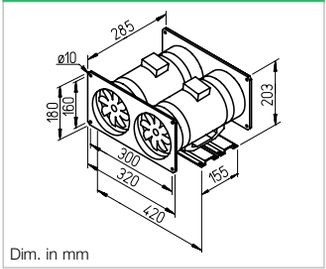

Dim. in mm

## Dimensions MVZ 125




Dim. in mm

## Dimensions MVP 125




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 minimal 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.

### Common features

**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 and radio interference-free.

**Motor protection**
Through thermal overload protection in the winding.

**Noise**
See right page.

### Description MV

**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.

### Description MVZ

Two MV fans arranged in series, connected by a sleeve and mounted on a shared base plate. Delivered as a ready-to-install kit.
The pressure performance is approximately doubled through series operation.

**Impeller**
As described on the left.

**Electrical connection**
Each fan is equipped with its own terminal box on the outside of the casing.
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.

### Description MVP

Two MV fans arranged in parallel are connected together by inlet and outlet side-mounted rectangular duct connection plates and screwed to mounting rails. Delivered as a ready-to-install kit.
The volume output doubles during parallel operation (joint control).

**Impeller**
As described on the left.

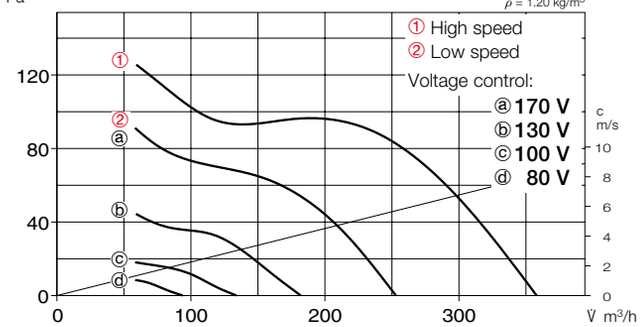
**Power control/Connection**
Each fan is equipped with its own terminal box on the outside of the casing.
A coupling relay must be provided according to the wiring diagram for controlling the two fans at two performance levels via one operating switch MVB (accessories) or one on-site changeover switch.
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 125** | 06052 | 125 | 250/360 | 1670/2300 | 35/42 | 49/56 | 25/33 | 0.11/0.15 | 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** | | | | | | | | | | | | | | | |
| **MVZ 125** | 06059 | 125 | 250/360 | 1670/2300 | 40/47 | 52/59 | 50/66 | 0.22/0.30 | 845.1 | 60 | 4.6 | **TSW 0.3** | 03608 | **ESU1/ESA1** | 00236/00238 |
| Double volume **Parallel twin unit, 230 V, 50 Hz, Capacitor motor, IP44** | | | | | | | | | | | | | | | |
| **MVP 125** | 06066 | – | 500/720 | 1670/2300 | 38/45 | 52/59 | 50/66 | 0.22/0.30 | 845.1 | 60 | 5.8 | **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.

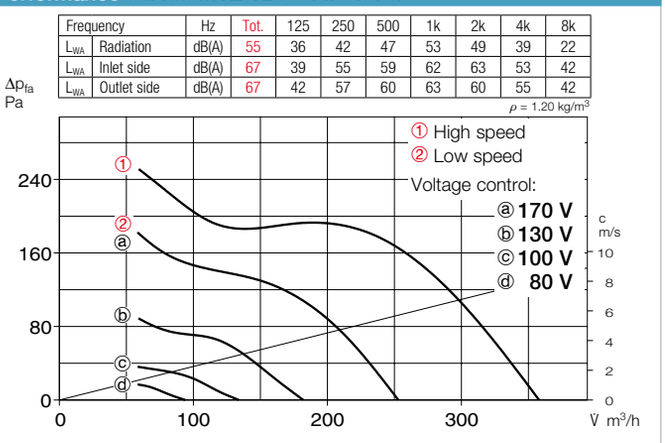
## Performance curves MV 125 – Single level

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 50 | 30 | 36 | 42 | 48 | 41 | 34 | 27 |
| $L_{WA}$ | Inlet side | dB(A) | 64 | 33 | 51 | 55 | 58 | 61 | 48 | 40 |
| $L_{WA}$ | Outlet side | dB(A) | 64 | 35 | 53 | 56 | 60 | 58 | 50 | 39 |



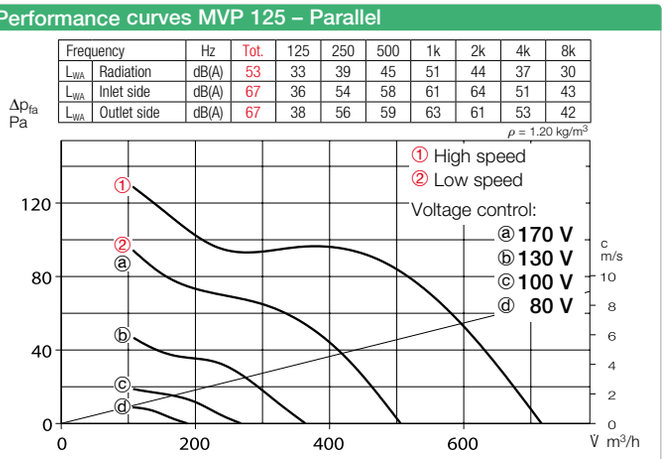

## Performance curves MVZ 125 – Two level

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 55 | 36 | 42 | 47 | 53 | 49 | 39 | 22 |
| $L_{WA}$ | Inlet side | dB(A) | 67 | 39 | 55 | 59 | 62 | 63 | 53 | 42 |
| $L_{WA}$ | Outlet side | dB(A) | 67 | 42 | 57 | 60 | 63 | 60 | 55 | 42 |




## Performance curves MVP 125 – Parallel

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 53 | 33 | 39 | 45 | 51 | 44 | 37 | 30 |
| $L_{WA}$ | Inlet side | dB(A) | 67 | 36 | 54 | 58 | 61 | 64 | 51 | 43 |
| $L_{WA}$ | Outlet side | dB(A) | 67 | 38 | 56 | 59 | 63 | 61 | 53 | 42 |




### 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.

### Accessory details — Page

Filter, heating elements and silencers 481 ff.
Temperature control systems for heating elements 487, 491 ff.
Flexible ventilation ducts, ventilation grilles, fittings, roof outlets 561 ff.
Disc valves 582 ff.
Speed controllers, controllers and switches 599 ff.

### Accessories for MV and MVZ

**Flexible connecting sleeve**
**FM 125** Ref. no. 01682
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 125** Ref. no. 00857
Automatic overpressure shutter for external wall connection of air outlet opening. Made of white plastic.

**External wall cover grille**
**G 160** Ref. no. 00893
For covering and insertion in round ventilation openings. Made of break-resistant, white plastic.

**Protection grille**
**MVS 125** Ref. no. 06072
For inlet and outlet side installation on fan.

**Flexible cross talk silencer**
**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 Coarse 70%*** 08577
Large-surface, installation in round duct system.

**Electric heating element**
**EHR-R 0.8/125** 0.8 kW No. 08709
In duct casing made of galvanised steel sheet.

**Warm water heating element**
**WHR 125** Ref. no. 09480
For installation in duct system.

### Accessories for all types

**Duct shutter**
**RSKK 125** Ref. no. 05107
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