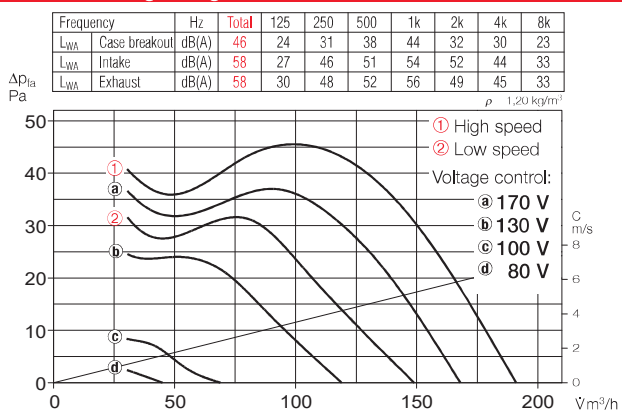
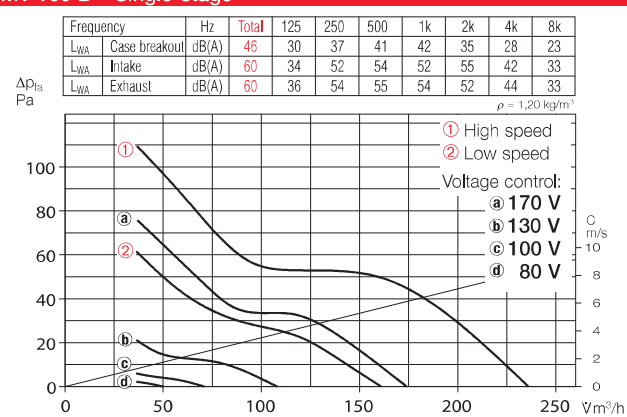


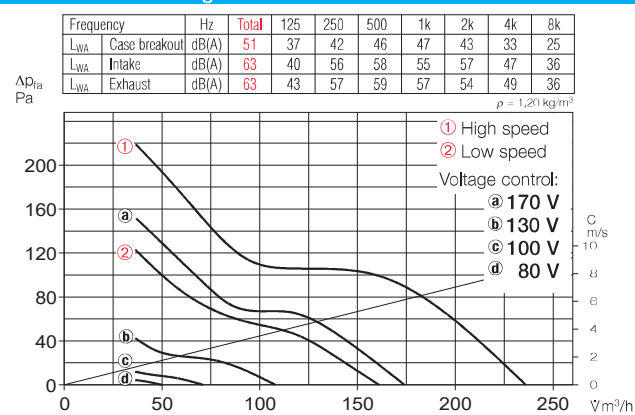
MV 100 A – Single-stage



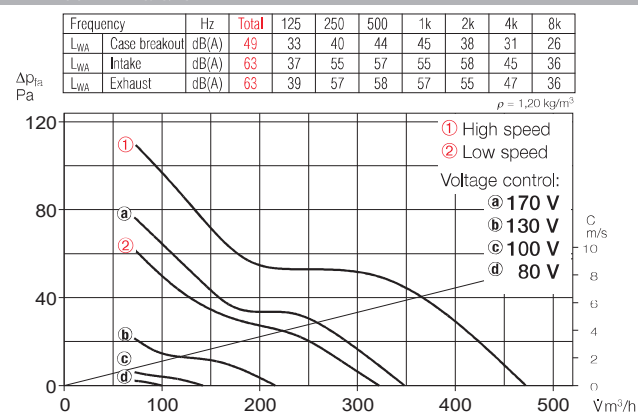
MV 100 B – Single-stage



MVZ 100 B – Two-stage



MVP 100 B – Parallel



Accessories for MV and MVZ

Flexible connector

Type FM 100 Ref. no. 1681

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



Gravity shutter

Type VK 100 Ref. no. 0757

Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



External wall grille

Type G 100 Ref. no. 0796

To cover or insert into circular ventilation holes. Made of impact resistant, white polymer.



Guard

Type MVS 100 Ref. no. 6071

For intake and exhaust installation on the ventilation unit.



Spigotted attenuator

Type FSD 100 Ref. no. 0676

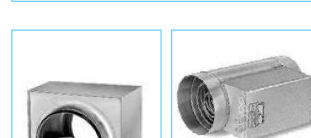
Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



Air filter box

LFBR 100 G4 Ref. no. 8576

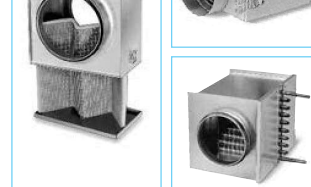
With a large cross section area, for in-duct installation.



Electric heater batteries

EHR-R 0,4/100 0,4 kW No. 8708

In circular casing, made of galvanised steel.



Warm-water heater batteries

Type WHR 100 Ref. no. 9479

For in-duct installation.



Accessories for all types

Back draught shutter

Type RSKK 100 Ref. no. 5106

Automatic, made of polymer. For in-duct installation.



Operating switch 0-1-2

Type MVB Ref. no. 6091

With on/off, low and high speed functions.



Transformer speed controller

Type TSW see table

Five-step, for surface mounting.



Electronic speed controller

Type ESU/ESA see table

For flush-/surface mounting.



Electronic run-on switch

Type ZNE Ref. no. 0342

With continuously adjustable follow-up time.



High air flow volume and high pressure characteristic in a space saving design.

Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

■ Special features

- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Two speeds, as standard; plus fully controllable motor speed
- Installation in any position.
- Long life ball bearings, designed for 30,000 operating hours.
- Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- Fan unit with terminal box can be rotated to any position.
- Integral mounting bracket for easy installation on floor, wall and ceiling.

■ Common features

- **Casing**
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.

□ Speed control

Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.

□ Motor

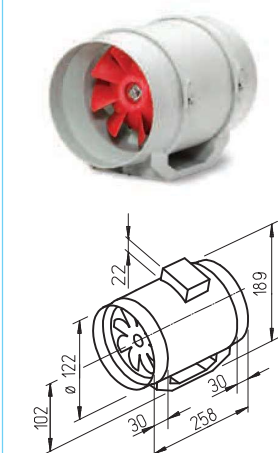
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.

□ Motor protection

Thermal overload protection fitted in the winding as standard.

MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.



Dim. in mm

■ Specification MV

- **Impeller**
Optimised for high pressure and volumetric performance, made from high grade polymer.

□ Electrical connection

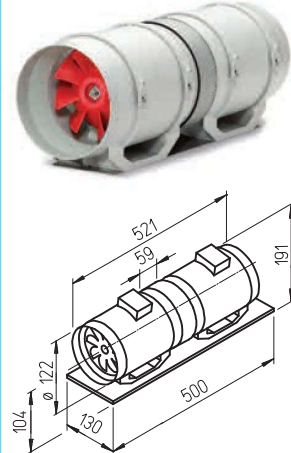
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.

□ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.



Dim. in mm

■ Specification MVZ

Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate. Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.

□ Impeller

As described on the left.

□ Electrical connection

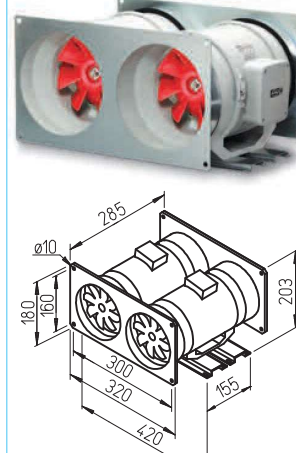
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.

□ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVP – Parallel

For higher volume output in a compact parallel design



Dim. in mm

■ Specification MVP

The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust. Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.

□ Impeller

As described on the left.

□ Speed control / Connection

Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram.

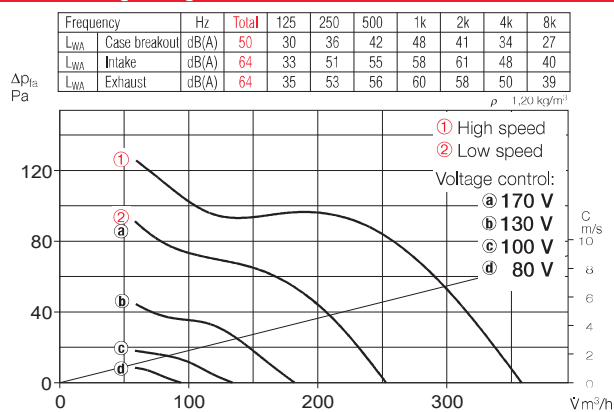
When using a speed controller, the high speed amps have to be allowed for.

Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

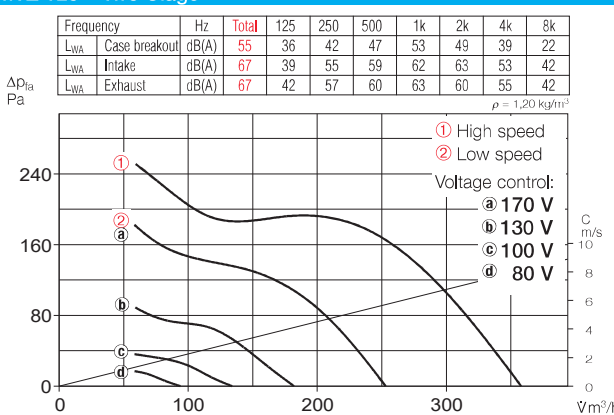
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure case breakout	Level in 1m air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface		
		mm	Ë m³/h	min ⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MV 125	6052	125	250/360	1670/2300	35/42	49/56	25/33	0.11/0.15	844.1	60	1.7	TSW 0,3	3608	ESU 1/ESA 1	0236/0238
Two-stage ventilation unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVZ 125	6059	125	250/360	1670/2300	40/47	52/59	50/66	0.22/0.30	845.1	60	4.6	TSW 0,3	3608	ESU 1/ESA 1	0236/0238
Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVP 125	6066	—	500/720	1670/2300	38/45	52/59	50/66	0.22/0.30	845.1	60	5.8	TSW 0,3	3608	ESU 1/ESA 1	0236/0238

* In noise relevant cases, transformer-control devices shall be provided. Electronic phase angle control may generate disturbing increase in motor noise.

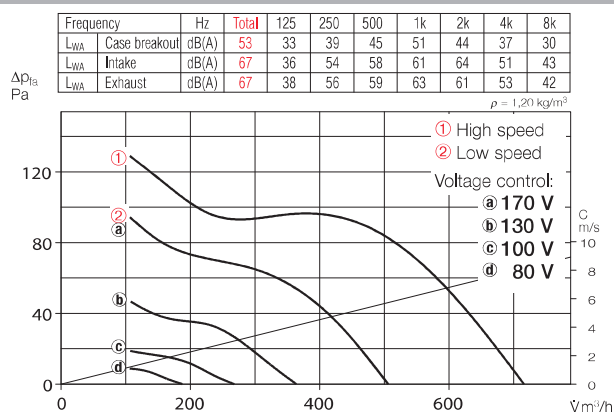
MV 125 – Single-stage



MVZ 125 – Two-stage



MVP 125 – Parallel



Sound levels

- The total values and the spectrum figures are given above the performance curves for
- Sound level case breakout
 - Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.

Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Accessories for MV and MVZ

Flexible connector

Type FM 125 Ref. no. 1682

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



Gravity shutter

Type VK 125 Ref. no. 0857

Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



External wall grille

Type G 160 Ref. no. 0893

To cover or insert into circular ventilation holes. Made of impact resistant, white polymer.



Guard

Type MVS 125 Ref. no. 6072

For intake and exhaust installation on the ventilation unit.



Spigotted attenuator

Type FSD 125 Ref. no. 0677

Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



Air filter box

LFBR 125 G4 Ref. no. 8577

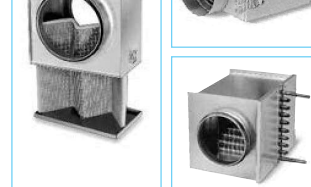
With a large cross section area, for in-duct installation.



Electric heater batteries

EHR-R 0,8/125 0,8 kW No. 8709

In circular casing, made of galvanised steel.



Warm-water heater batteries

Type WHR 125 Ref. no. 9480

For in-duct installation.



Accessories for all types

Back draught shutter

Type RSKK 125 Ref. no. 5107

Automatic, made of polymer. For in-duct installation.



Operating switch 0-1-2

Type MVB Ref. no. 6091

With on/off, low and high speed functions.



Transformer speed controller

Type TSW see table

Five-step, for surface mounting.



Electronic speed controller

Type ESU/ESA see table

For flush-/surface mounting.



Electronic run-on switch

Type ZNE Ref. no. 0342

With continuously adjustable follow-up time.



High air flow volume and high pressure characteristic in a space saving design.

Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

■ Special features

- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Two speeds, as standard; plus fully controllable motor speed
- Installation in any position.
- Long life ball bearings, designed for 30,000 operating hours.
- Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- Fan unit with terminal box can be rotated to any position.
- Integral mounting bracket for easy installation on floor, wall and ceiling.

■ Common features

- **Casing**
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.

□ Speed control

Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.

□ Motor

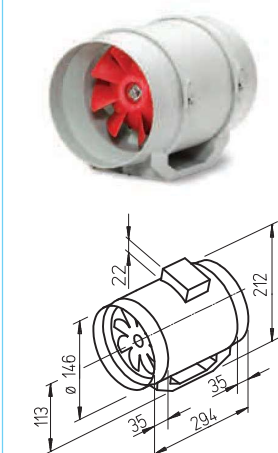
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.

□ Motor protection

Thermal overload protection fitted in the winding as standard.

MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.



Dim. in mm

■ Specification MV

- **Impeller**
Optimised for high pressure and volumetric performance, made from high grade polymer.

□ Electrical connection

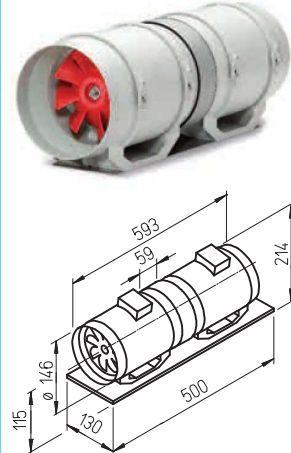
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.

□ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.



Dim. in mm

■ Specification MVZ

Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate. Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.

□ Impeller

As described on the left.

□ Electrical connection

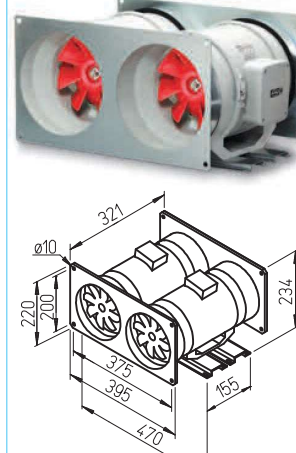
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.

□ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVP – Parallel

For higher volume output in a compact parallel design.



Dim. in mm

■ Specification MVP

The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust. Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.

□ Impeller

As described on the left.

□ Speed control / Connection

Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram.

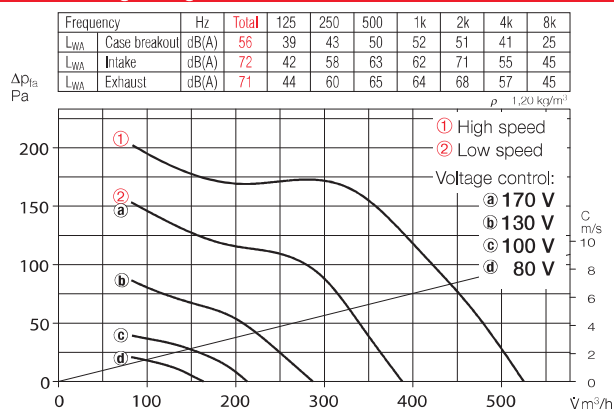
When using a speed controller, the high speed amps have to be allowed for.

Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

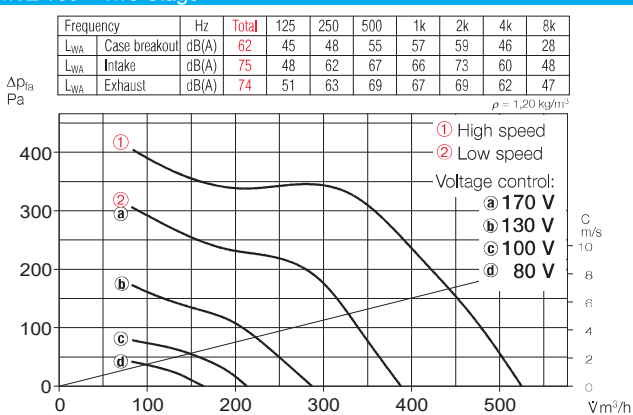
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface		
		mm	Ë m³/h	min ⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MV 150	6053	150	380/520	1520/2290	40/48	56/64	40/58	0.18/0.26	844.1	60	2.3	TSW 0,3	3608	ESU 1/ESA 1	0236/0238
Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MVZ 150	6060	150	380/520	1520/2290	46/54	59/67	80/116	0.36/0.52	845.1	60	5.8	TSW 1,5	1495	ESU 1/ESA 1	0236/0238
Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVP 150	6067	—	760/1040	1520/2290	43/51	59/67	80/116	0.36/0.52	845.1	60	8.0	TSW 1.5	1495	ESU 1/ESA 1	0236/0238

* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.

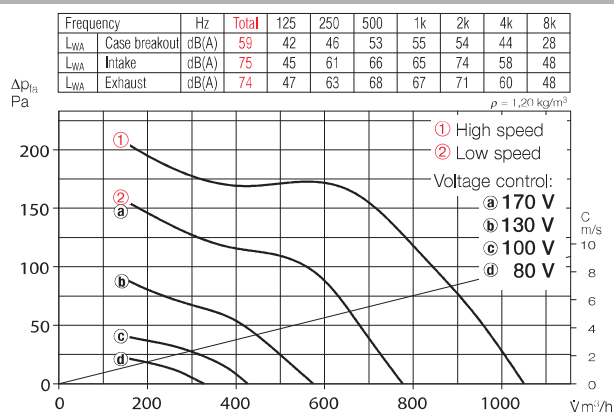
MV 150 – Single-stage



MVZ 150 – Two-stage



MVP 150 – Parallel



Sound levels

- The total values and the spectrum figures are given above the performance curves for
- Sound level case breakout
 - Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.

Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Accessories for MV and MVZ

Flexible connector

Type FM 150 Ref. no. 1683

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



Gravity shutter

Type VK 160 Ref. no. 0892

Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



External wall grille

Type G 160 Ref. no. 0893

To cover or insert into circular ventilation holes. Made of impact resistant, white polymer.



Guard

Type MVS 150 Ref. no. 6073

For intake and exhaust installation on the ventilation unit.



Spigotted attenuator

Type FSD 160¹⁾ Ref. no. 0678

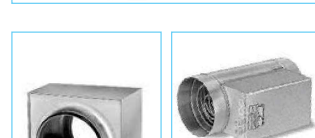
Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



Air filter box

LFBR 160 G4¹⁾ Ref. no. 8578

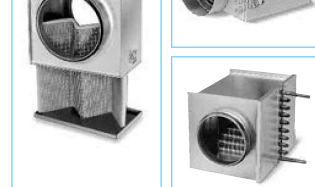
With a large cross section area, for in-duct installation.



Electric heater batteries

EHR-R 1,2/160¹⁾ 1,2 kW No. 9434

In circular casing, made of galvanised steel.



Warm-water heater batteries

Type WHR 160¹⁾ Ref. no. 9481

For in-duct installation.



Accessories for all types

Back draught shutter

Type RSK 150 Ref. no. 5073

Automatic, made of metal. For in-duct installation.



Operating switch 0-1-2

Type MVB Ref. no. 6091

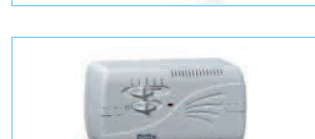
With on/off, low and high speed functions.



Transformer speed controller

Type TSW see table

Five-step, for surface mounting.



Electronic speed controller

Type ESU/ESA see table

For flush-/surface mounting.



Electronic run-on switch

Type ZNE Ref. no. 0342

With continuously adjustable follow-up time.



¹⁾ This accessory with ND 160 mm is applicable for ø 150 mm ducting by use of foam rubber.

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Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

■ Special features

- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Two speeds, as standard; plus fully controllable motor speed
- Installation in any position.
- Long life ball bearings, designed for 30,000 operating hours.
- Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- Fan unit with terminal box can be rotated to any position.
- Integral mounting bracket for easy installation on floor, wall and ceiling.

■ Common features

□ Casing

By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.

□ Speed control

Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.

□ Motor

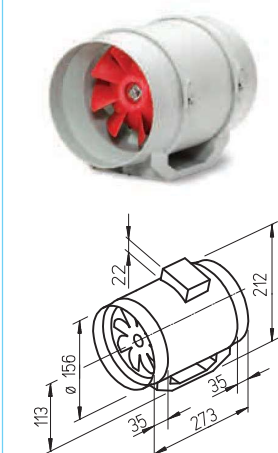
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.

□ Motor protection

Thermal overload protection fitted in the winding as standard.

MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.



Dim. in mm

■ Specification MV

□ Impeller

Optimised for high pressure and volumetric performance, made from high grade polymer.

□ Electrical connection

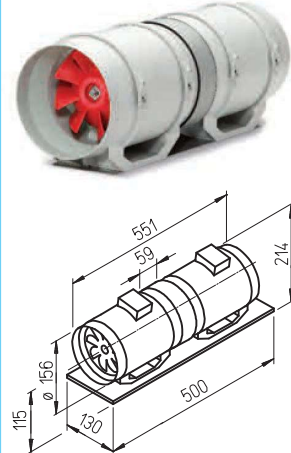
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.

□ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.



Dim. in mm

■ Specification MVZ

Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate. Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.

□ Impeller

As described on the left.

□ Electrical connection

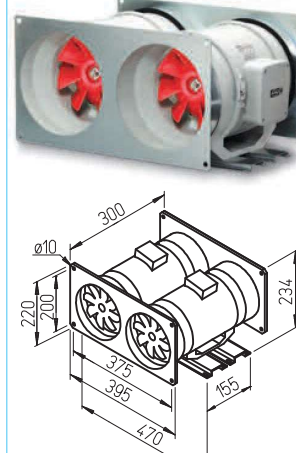
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.

□ Installation

Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVP – Parallel

For higher volume output in a compact parallel design.



Dim. in mm

■ Specification MVP

The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust. Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.

□ Impeller

As described on the left.

□ Speed control / Connection

Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram.

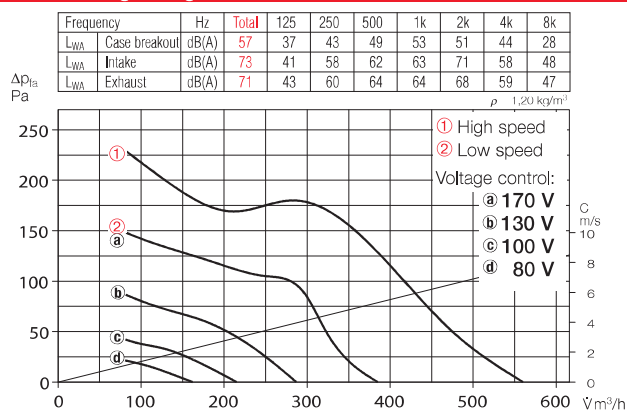
When using a speed controller, the high speed amps have to be allowed for.

Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

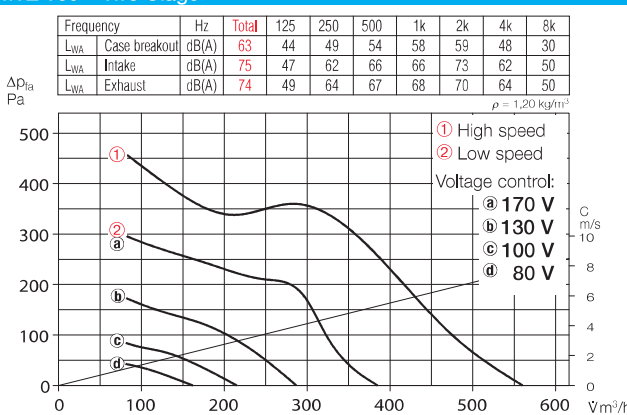
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface		
		mm	ṽ m³/h	min ⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MV 160	6054	160	390/550	1520/2290	41/49	57/65	40/58	0.18/0.26	844.1	60	2.3	TSW 0,3	3608	ESU 1/ESA 1	0236/0238
Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MVZ 160	6061	160	390/550	1520/2290	47/55	59/67	80/116	0.36/0.52	845.1	60	5.8	TSW 1,5	1495	ESU 1/ESA 1	0236/0238
Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVP 160	6068	—	780/1100	1520/2290	44/52	60/68	80/116	0.36/0.52	845.1	60	7.7	TSW 1.5	1495	ESU 1/ESA 1	0236/0238

* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.

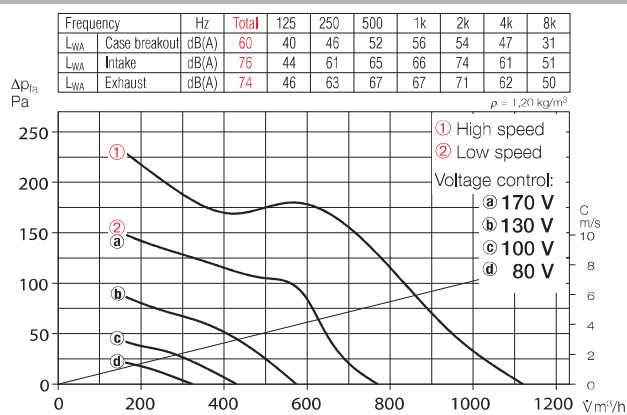
MV 160 – Single-stage



MVZ 160 – Two-stage



MVP 160 – Parallel



Sound levels

- The total values and the spectrum figures are given above the performance curves for
- Sound level case breakout
 - Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.

Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Accessories for MV and MVZ

Flexible connector

Type FM 160 Ref. no. 1684

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



Gravity shutter

Type VK 160 Ref. no. 0892

Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



External wall grille

Type G 160 Ref. no. 0893

To cover or insert into circular ventilation holes. Made of impact resistant, white polymer.



Guard

Type MVS 160 Ref. no. 6074

For intake and exhaust installation on the ventilation unit.



Spigotted attenuator

Type FSD 160 Ref. no. 0678

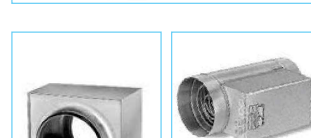
Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



Air filter box

LFBR 160 G4 Ref. no. 8578

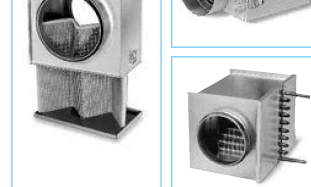
With a large cross section area, for in-duct installation.



Electric heater batteries

EHR-R 1,2/160 1,2 kW No. 9434

In circular casing, made of galvanised steel.



Warm-water heater batteries

Type WHR 160 Ref. no. 9481

For in-duct installation.



Accessories for all types

Back draught shutter

Type RSK 160 Ref. no. 5669

Automatic, made of metal. For in-duct installation.



Operating switch 0-1-2

Type MVB Ref. no. 6091

With on/off, low and high speed functions.



Transformer speed controller

Type TSW see table

Five-step, for surface mounting.



Electronic speed controller

Type ESU/ESA see table

For flush/surface mounting.



Electronic run-on switch

Type ZNE Ref. no. 0342

With continuously adjustable follow-up time.



High air flow volume and high pressure characteristic in a space saving design.
Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

■ Special features

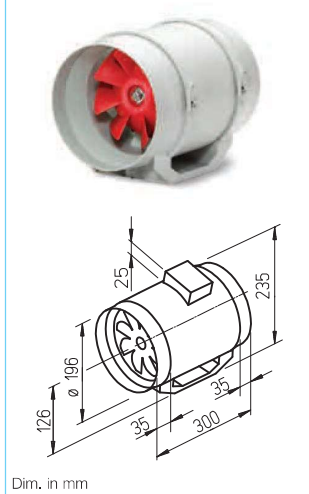
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Two speeds, as standard; plus fully controllable motor speed
- Installation in any position.
- Long life ball bearings, designed for 30,000 operating hours.
- Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- Fan unit with terminal box can be rotated to any position.
- Integral mounting bracket for easy installation on floor, wall and ceiling.

■ Common features

- **Casing**
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.
- **Speed control**
Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.
- **Motor**
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.
- **Motor protection**
Thermal overload protection fitted in the winding as standard.

MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.

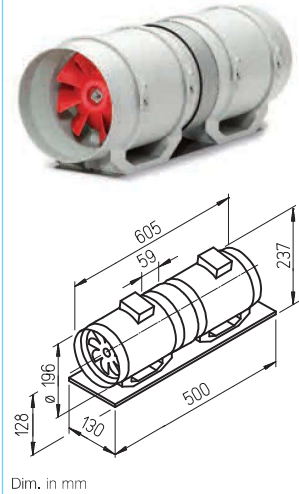


■ Specification MV

- **Impeller**
Optimised for high pressure and volumetric performance, made from high grade polymer.
- **Electrical connection**
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.
- **Installation**
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.

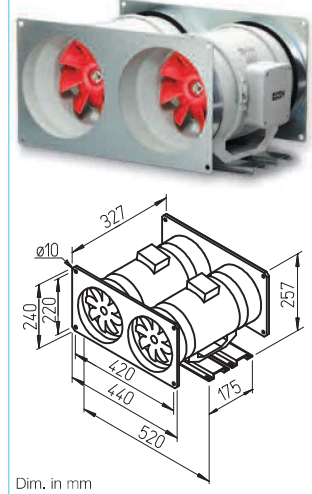


■ Specification MVZ

- Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate.
- Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.
- **Impeller**
As described on the left.
- **Electrical connection**
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- **Installation**
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVP – Parallel

For higher volume output in a compact parallel design.



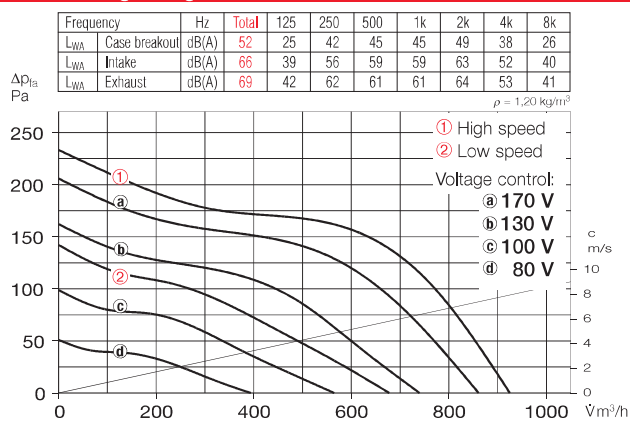
■ Specification MVP

- The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust.
- Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.
- **Impeller**
As described on the left.
- **Speed control / Connection**
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for. Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

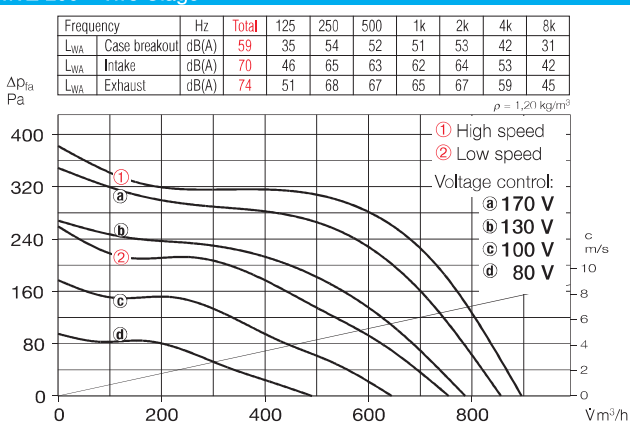
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface		
		mm	∇ m³/h	min ⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MV 200	6055	200	680/930	1780/2740	36/44	50/58	45/75	0.22/0.37	844.1	60	3.7	TSW 1,5	1495	ESU 1/ESA 1	0236/0238
Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MVZ 200	6062	200	755/900	1780/2740	44/51	55/62	90/150	0.44/0.74	845.1	60	8.5	TSW 1,5	1495	ESU 1/ESA 1	0236/0238
Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVP 200	6069	—	1360/1860	1780/2740	39/47	53/61	90/150	0.44/0.74	845.1	60	11.2	TSW 1.5	1495	ESU 1/ESA 1	0236/0238

* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.

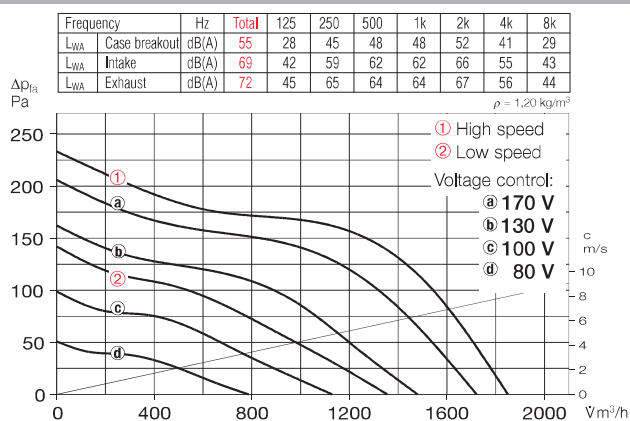
MV 200 – Single-stage



MVZ 200 – Two-stage



MVP 200 – Parallel



Sound levels

- The total values and the spectrum figures are given above the performance curves for
- Sound level case breakout
 - Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.

Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Accessories for MV and MVZ

Flexible connector

Type FM 200 Ref. no. 1670

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



Gravity shutter

Type VK 200 Ref. no. 0758

Wall mounted, automatic pressure control shutter for the air outlet. Made of polymer. Colour: Light grey.



External wall grille

Type RAG 200 Ref. no. 0750

To position in front of air inlets and outlets in facades. Made of polymer; colour: Light grey.



Guard

Type MVS 200 Ref. no. 6075

For intake and exhaust installation on the ventilation unit.



Spigotted attenuator

Type FSD 200 Ref. no. 0679

Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



Air filter box

LFBR 200 G4 Ref. no. 8579

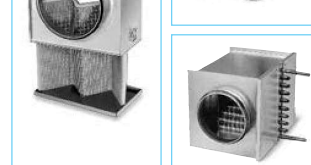
With a large cross section area, for in-duct installation.



Electric heater batteries

EHR-R 1,2/200 1,2 kW No. 9436

In circular casing, made of galvanised steel.



Warm-water heater batteries

Type WHR 200 Ref. no. 9482

For in-duct installation.



Accessories for all types

Back draught shutter

Type RSK 200 Ref. no. 5074

Automatic, made of metal. For in-duct installation.



Operating switch 0-1-2

Type MVB Ref. no. 6091

With on/off, low and high speed functions.



Transformer speed controller

Type TSW see table

Five-step, for surface mounting.



Electronic speed controller

Type ESU/ESA see table



Electronic run-on switch

– for MV

Type ZNE Ref. no. 0342

– for MVZ and MVP

Type ZT Ref. no. 1277



High air flow volume and high pressure characteristic in a space saving design.
Specifically made for in-duct installation. Versatile for use in most commercial, industrial and domestic applications.

■ Special features

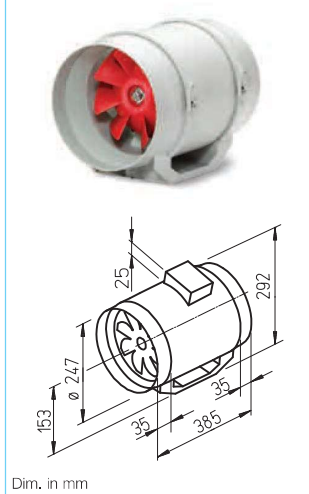
- Less space required and simple site installation of the compact in line design.
- Its simplicity reduces site costs.
- Supply and exhaust air spigots fit all standard circular duct sizes.
- Two speeds, as standard; plus fully controllable motor speed
- Installation in any position.
- Long life ball bearings, designed for 30,000 operating hours.
- Trouble-free maintenance and cleaning by removing the core of the unit from its frame without disassembling the ducting.
- Fan unit with terminal box can be rotated to any position.
- Integral mounting bracket for easy installation on floor, wall and ceiling.

■ Common features

- **Casing**
By loosening the clips the fan section can be removed from the casing leaving the mounting bracket. All components are manufactured from impact resistant and corrosion resistant polymer. Colour: Light grey.
- **Speed control**
Standard two-speed control with external operating switch MVB (accessory). Full speed control with an electronic controller or five-step transformer.
- **Motor**
Totally enclosed ball bearing motor made for continuous operation with insulation class F and moisture protection. Maintenance-free and interference-free.
- **Motor protection**
Through a thermal contact that is connected in series with the winding and Turns the motor off at elevated temperatures to prevent motor damage. Resets after cooling and motor restart.

MV – Single-stage

Swing-out in-line fan for space-saving installation in ducting.

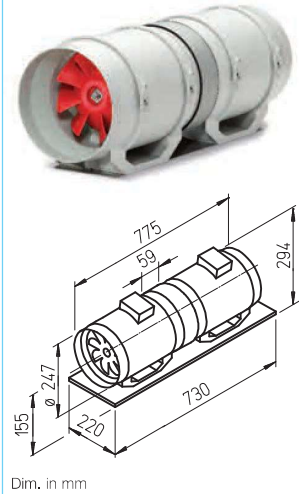


■ Specification MV

- **Impeller**
Optimised for high pressure and volumetric performance, made from high grade polymer.
- **Electrical connection**
The spacious terminal box (IP 44) is mounted on the casing; rotatable to any position.
- **Installation**
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVZ – Two-stage

For higher pressure performance: Two in-line fans mounted in series.

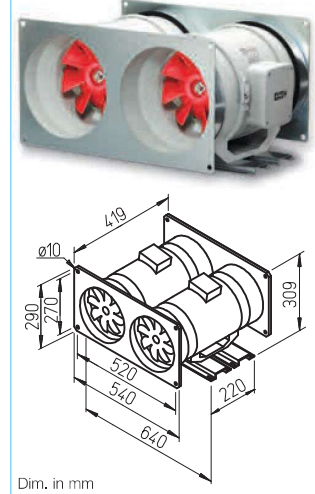


■ Specification MVZ

- Two MV fans are connected in series using a connecting sleeve and assembled on a common base plate.
- Delivered as ready-to-assemble kits. Series operation doubles the pressure output at the same volume.
- **Impeller**
As described on the left.
- **Electrical connection**
Each fan has a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a coupling relay has to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for.
- **Installation**
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

MVP – Parallel

For higher volume output in a compact parallel design.



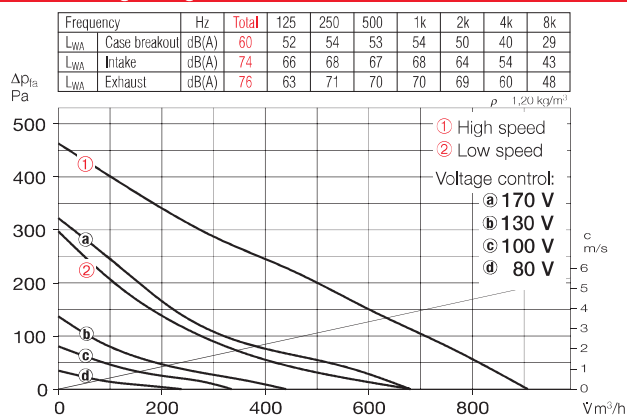
■ Specification MVP

- The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and exhaust.
- Delivered as ready-to-assemble kits. Parallel operation (both fans running) doubles the air volume at the same pressure.
- **Impeller**
As described on the left.
- **Speed control / Connection**
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram. When using a speed controller, the high speed amps have to be allowed for. Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

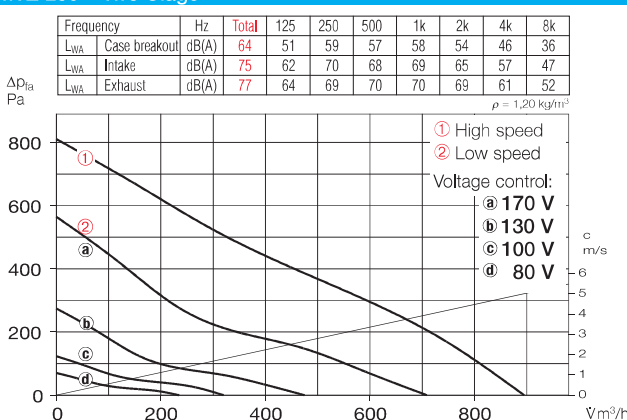
Type	Ref. no.	Connection Ø	Air flow volume min./max.	R.P.M. min./max.	Sound pressure level in 1m case breakout	air noise min./max.	Power consumption min./max.	Current min./max.	Wiring diagram	Max. air flow temperature	Weight net approx.	Transformer-speed controller 5-step	Electronic* speed controller, stepless flush/surface		
		mm	∇ m³/h	min ⁻¹	dB (A)	dB (A)	W	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MV 250	6056	250	680/910	1850/2550	40/52	53/66	85/110	0.40/0.50	844.1	60	7.0	TSW 1,5	1495	ESU 1/ESA 1	0236/0238
Two-stage in-line fan, 230 V, 50 Hz, capacitor motor, IP 44															
MVZ 250	6063	250	710/900	1850/2550	46/56	57/67	170/220	0.80/1.00	845.1	60	17.6	TSW 1,5	1495	ESU 3/ESA 3	0237/0239
Parallel-twin-unit, 230 V, 50 Hz, capacitor motor, IP 44															
MVP 250	6070	—	1280/1820	1850/2550	43/55	56/69	170/220	0.80/1.00	845.1	60	18.7	TSW 1.5	1495	ESU 3/ESA 3	0237/0239

* In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise.

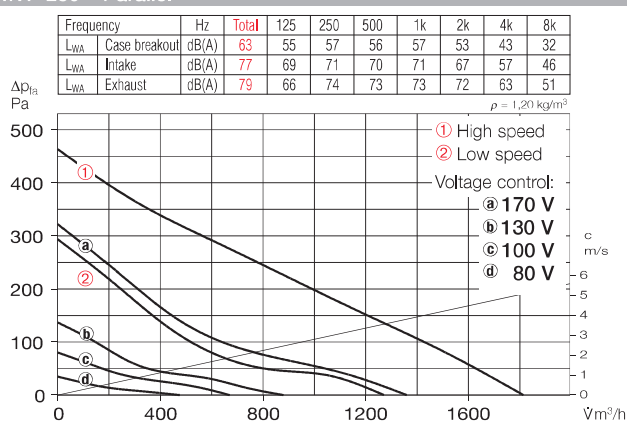
MV 250 – Single-stage



MVZ 250 – Two-stage



MVP 250 – Parallel



Sound levels

- The total values and the spectrum figures are given above the performance curves for
- Sound level case breakout
 - Sound level intake and exhaust air in dB(A)
- On the table (see left page)
- The case breakout figures and the intake/exhaust air noise levels are additionally given as sound pressure level at 1 m (free-field conditions).

The Helios figures have to be reduced by 8 dB(A) if compared to sound pressure levels at 3 m.

Accessory details Page

Filters, heater batteries and attenuators	421 on
Temperature controllers for heater batteries	427, 431
Flexible ventilation ducting, grilles, adaptors, roof terminations	487 on
Poppet valves	508 on
Speed controllers and switches	525 on

Accessories for MV and MVZ

Flexible connector

Type FM 250 Ref. no. 1672

Supplied with two hose clips as standard; for installation between fan and duct system. Prevents sound and vibration transmission and compensates small misalignments on site. Two sleeves are needed for intake and exhaust operation.



Gravity shutter

Type VK 250 Ref. no. 0759

Wall mounted, automatic pressure control shutter for the air outlet. Made of polymer. Colour: Light grey.



External wall grille

Type RAG 250 Ref. no. 0751

To position in front of air inlets and outlets in facades. Made of polymer; colour: Light grey.



Guard

Type MVS 250 Ref. no. 6076

For intake and exhaust installation on the ventilation unit.



Spigotted attenuator

Type FSD 250 Ref. no. 0680

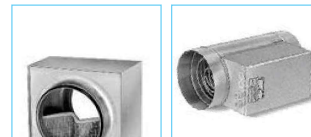
Made from aluminium with plug sockets on both sides. With 50 mm insulation, length 1 m.



Air filter box

LFBR 250 G4 Ref. no. 8580

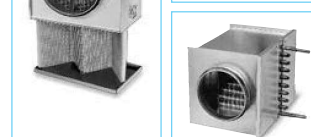
With a large cross section area, for in-duct installation.



Electric heater batteries

EHR-R 6/250 6,0 kW No. 8712

In circular casing, made of galvanised steel.



Warm-water heater batteries

Type WHR 250 Ref. no. 9483

For in-duct installation.



Accessories for all types

Back draught shutter

Type RSK 250 Ref. no. 5673

Automatic, made of metal. For in-duct installation.



Operating switch 0-1-2

Type MVB Ref. no. 6091

With on/off, low and high speed functions.



Transformer speed controller

Type TSW see table

Five-step, for surface mounting.



Electronic speed controller

Type ESU/ESA see table

For flush-/surface mounting.



Thermoelectr. run-on switch

Type ZT Ref. no. 1277

With variable run-on time.

