

MultiVent® in-line fans. As thin as the ducting system.



SPACE-SAVING

ROTATES AS REQUIRED

FREELY ACCESSIBLE



With a volume of 190 to 1820 m³/h and pressure of over 800 Pa (given a two-level configuration), Helios MultiVent® is suitable for ventilation of small to medium-sized rooms of all kinds.

Its specific advantage is its small size. The casing diameter is only slightly bigger than the ventilation duct.

It can be installed in any location – horizontally, vertically or diagonally.



The installation of Helios MultiVent® is space-saving as it fits directly in the ducting. It is ideal in areas where it gets narrow, e.g. under suspended ceilings.

The casing and integrated bracket can be fitted in any location and the fan unit with the terminal box can be rotated as required. The fan unit is easy to remove by loosening the clamps.



This device design guarantees the simplest possible installation in the ducting and unproblematic maintenance and cleaning where necessary. The concept satisfies the requirements of VDI 6022. The energy-saving capacitor motors (degree of protection IP 44) are equipped with ball bearings for 30.000 operating hours and fully closed. This means that they can even be used when air is contaminated and contains dust.



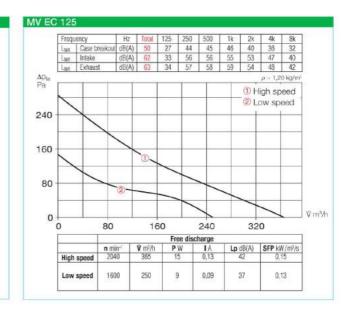














Energy-saving EC in-line fan with high pressure and volumetric performance with space-saving dimensions.

Specifically made for in-duct installation. Diverse applications in commercial, industrial and residential areas

Special features

- Highly efficient EC motor for lowest operating costs.
- 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: 100% speed-controllable.
- Installation in any position. Longlife ball bearings, designed for 30.000 operating hours.
- simple maintenance and cleaning without dismantling the ducting system due to removable fan unit.
- ☐ Fan unit with terminal box can be rotated to any position.
- Integrated mounting bracket for simple wall and ceiling installation.

Specification

Swing-out EC in-line fan for

space-saving installation in ducting.

Casing

The fan unit can be removed from the casing with integrated mounting bracket by loosening the clamps.

All components made from impact and corrosion resistant polymers. Colour: Light grey.

Impeller

Optimised for high pressure and volumetric performance, made from high quality polymers. Dynamically balanced for silent operation.

■ Motor

Energy-saving, speed-controllable EC external rotor motor protected to IP 44 with high efficiency level and humidity protection. Maintenance-free and interference-free, ball bearing mounted.

□ Electrical connection Large terminal box (IP 44) on outside of casing; can be rotated to any position.

■ Motor protection

Integrated electronic temperature monitoring for EC motor and electronics.

□ Speed control

Standard two-speed control with external operating switch MVB (accessory).

☐ 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.

Sound levels

Sum levels and spectrum figures are indicated above characteristic curves for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust The sound pressure level at 1 m (free field conditions) can be seen in the table below and below the performance curve.

| Accessory details | Page |
|----------------------------|----------|
| Filters, heater batteries | |
| and attenuators | 421 on |
| Temperature control sys | stems |
| for heater batteries | 427, 431 |
| Flexible ventilation ducti | ng, |
| grilles, adaptors, | |
| Roof terminations | 487 on |
| Poppet valves | 508 on |
| Speed controllers | |
| and switches | 525 on |

| Туре | Ref. no. | Connection Ø | Air flow volume (FID) | Nominal R.P.M. | Sound press. case breakout | Motor power | Current | | max, air flow temperature | | | ing switch |
|------------|---------------|---------------|-----------------------------|-------------------|----------------------------------|-------------|-----------|-----|------------------------------|-----|------|------------|
| | | mm | V m³/h | min ⁻¹ | dB(A) in 1 m | kW | A | No. | + °C | kg | Туре | Ret. no. |
| Single pha | ise motor, 23 | 0 V, 50 Hz, E | C motor | | | | | | | | | |
| MV EC 125 | 6032 | 125 | 250/360 | 1600/2040 | 38/42 | 0.010/0.017 | 0.10/0.17 | 951 | 60 | 1.8 | MVB | 6091 |











Lwa Case breako 400 300 200 100 0 100 200 300 400 0.30 High speed 14 1560 385 0,12 Low speed

Energy-saving EC in-line fan with high pressure and volumetric performance with space-saving dimensions.

Specifically made for in-duct installation. Diverse applications in commercial, industrial and residential areas.

Special features

- Highly efficient EC motor for lowest operating costs.
- 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; 100% speed-controllable.
- Installation in any position. Longlife ball bearings, designed
- for 30.000 operating hours. simple maintenance and cleaning without dismantling the ducting system due to removable fan unit.
- Fan unit with terminal box can be rotated to any position.
- Integrated mounting bracket for simple wall and ceiling installation.

■ Specification

☐ Casing

The fan unit can be removed from the casing with integrated mounting bracket by loosening the clamps.

All components made from impact and corrosion resistant polymers. Colour: Light grey.

☐ Impeller

Optimised for high pressure and volumetric performance, made from high quality polymers. Dynamically balanced for silent operation.

Motor

Energy-saving, speed-controllable EC external rotor motor protected to IP 44 with high efficiency level and humidity protection. Maintenance-free and interference-free, ball bearing mounted.

□ Electrical connection

Large terminal box (IP 44) on outside of casing; can be rotated to any position.

■ Motor protection

Integrated electronic temperature monitoring for EC motor and electronics.

Speed control

Standard two-speed control with external operating switch MVB (accessory).

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.

Sound levels

Sum levels and spectrum figures are indicated above characteristic curves for:

Lp dB(A) SFP kW/m²/s 47 0.21

0,13

1 High speed 2 Low speed

Sound level case breakout

39

- Sound level intake
- Sound level exhaust The sound pressure level at 1 m (free field conditions) can be seen in the table below and below the performance curve.

| Accessory details | Page |
|---------------------------|----------|
| Filters, heater batteries | |
| and attenuators | 421 on |
| Temperature control sy | stems |
| for heater batteries | 427, 431 |
| Flexible ventilation duct | ting, |
| grilles, adaptors, | |
| Roof terminations | 487 on |
| Poppet valves | 508 on |
| Speed controllers | |
| and switches | 525 on |

| Туре | Ref. no. | Connection Ø | Air flow volume (FID) | Nominal R.P.M. | Sound press. case breakout | Motor power | Current | Wiring diagram | max, air flow temperature | | Operat | ting switch |
|--------------|-----------|---------------|-----------------------------|-------------------|----------------------------------|-------------|-----------|-------------------|------------------------------|-----|--------|-------------|
| | | mm | V m³/h | min ⁻¹ | dB(A) in 1 m | kW | A | No. | +°C | kg | Туре | Ref. no. |
| Single phase | motor, 23 | 0 V, 50 Hz, E | C motor | | | | | | | | | |
| MV EC 160 | 6033 | 160 | 385/570 | 1560/2290 | 39/47 | 0.015/0.038 | 0.15/0.33 | 951 | 60 | 2.1 | MVB | 6091 |









-wa Case breakout dB(A) L_{WA} Intake 50 1 High speed 2 Low speed 240 160 80 V m3/n 0 200 600 1000 Free discharge Lp dB(A) SFP kW/m²/s 49 0,18 High speed 32 0,28 0,16 Low speed

Energy-saving EC in-line fan with high pressure and volumetric performance with space-saving

Specifically made for in-duct installation. Diverse applications in commercial, industrial and residential areas.

Special features

dimensions.

- Highly efficient EC motor for lowest operating costs.
- 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
- Two speeds as standard; 100% speed-controllable.
- Installation in any position.
 Longlife ball bearings, designed for 30.000 operating hours.
- simple maintenance and cleaning without dismantling the ducting system due to removable fan unit.
- Fan unit with terminal box can be rotated to any position.
- Integrated mounting bracket for simple wall and celling installation.

Specification

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

Casing

The fan unit can be removed from the casing with integrated mounting bracket by loosening the clamps.

All components made from impact and corrosion resistant polymers. Colour: Light grey.

Impeller

Optimised for high pressure and volumetric performance, made from high quality polymers. Dynamically balanced for silent operation.

☐ Motor

Energy-saving, speed-controllable EC external rotor motor protected to IP 44 with high efficiency level and humidity protection. Maintenance-free and interference-free, ball bearing mounted.

Electrical connection

Large terminal box
(IP 44) on outside of casing;
can be rotated to any position.

Motor protection

Integrated electronic temperature monitoring for EC motor and electronics.

Speed control

Standard two-speed control with external operating switch MVB (accessory).

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.

Sound levels

Sum levels and spectrum figures are indicated above characteristic curves for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust
 The sound pressure level at 1 m (free field conditions) can be seen in the table below and below the performance curve.

| Accessory details | Page |
|---------------------------|----------|
| Filters, heater batteries | |
| and attenuators | 421 on |
| Temperature control sy | stems |
| for heater batteries | 427, 431 |
| Flexible ventilation duct | ting, |
| grilles, adaptors, | |
| Roof terminations | 487 on |
| Poppet valves | 508 on |
| Speed controllers | |
| and switches | 525 on |

| Туре | Ref. no. | Connection Ø | Air flow volume (FID) | Nominal R.P.M. | Sound press, case breakout | Motor power | Current | Wiring diagram | max.air flow temperature | | NSE(#18036 | ting switch |
|------------|---------------|---------------|-----------------------------|-------------------|----------------------------------|-------------|-----------|-------------------|-----------------------------|-----|------------|-------------|
| | | mm: | V m³/h | min ⁻¹ | dB(A) in 1 m | kW | Α | No. | + °C | kg | Туре | Ref. no. |
| Single pha | ase motor, 23 | 0 V, 50 Hz, E | C motor | | | | | | | | | |
| MV EC 200 | 6034 | 200 | 750/1000 | 2400/2820 | 46/49 | 0.036/0.057 | 0.33/0.50 | 951 | 50 | 2.5 | MVB | 6091 |









Energy-saving EC in-line fan with high pressure and volumetric performance with space-saving dimensions.

Specifically made for in-duct installation. Diverse applications in commercial, industrial and residential areas.

Specification

Casing

The fan unit can be removed from the casing with integrated mounting bracket by loosening the clamps.

All components made from impact and corrosion resistant polymers, Colour: Light grey,

Impeller

Optimised for high pressure and volumetric performance, made from high quality polymers. Dynamically balanced for silent operation.

☐ Motor

Energy-saving, speed-controllable EC external rotor motor protected to IP 44 with high efficiency level and humidity protection. Maintenance-free and interference-free, ball bearing mounted.

☐ Electrical connection

Large terminal box (IP 44) on outside of casing; can be rotated to any position.



Motor protection

Integrated electronic temperature monitoring for EC motor and electronics.

☐ Speed control

Standard two speed control for type MV EC 250 by means of external operating switch MVB, Stepless speed control for type MV EC 315 in the range between the min, and max, speed stages with potentiometer PU and commercial on/off switch (light switch), see table.

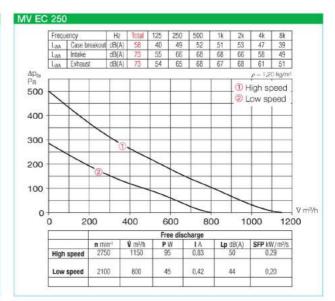
☐ Installation

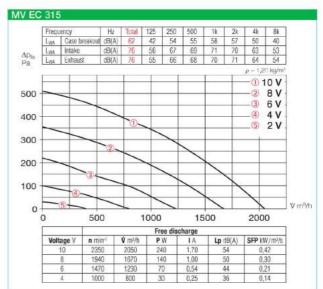
Can be mounted in any position – horizontal, vertical or diagonal – suitable for supply and extract ventilation by correct installation. To minimise the effective noise level it is recommended that the fan is installed as remote as possible from the ventilated space.

Sound levels

Sum levels and spectrum figures are indicated above characteristic curves for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust
 The sound pressure level at 1 m
 (free field conditions) can be
 seen in the table below and be low the performance curve.







| Accessory details | Page |
|---------------------------|----------|
| Filters, heater batteries | |
| and attenuators | 421 on |
| Temperature control sy | stems |
| for heater batteries | 427, 431 |
| Flexible ventilation duc | ting, |
| grilles, adaptors, | |
| Roof terminations | 487 on |
| Poppet valves | 508 on |
| Speed controllers | |
| and switches | 525 on |

| Туре | Ref. no. | Connection Ø | Air flow volume (FID) | Nominal R.P.M. | Sound press. case breakout | Motor power | Current | Wiring diagram | max.air flow temperature | | 100000000000000000000000000000000000000 | ig switch |
|------------|--------------|---------------|-----------------------------|-------------------|----------------------------------|-------------|-----------|-------------------|-----------------------------|-----|-----------------------------------------|-----------|
| | | mm | V m³/h | min ⁻¹ | dB(A) in 1 m | kW | A | No. | + °C | kg | Туре | Ref. no. |
| Single pha | se motor, 23 | 0 V, 50 Hz, E | C motor | | | | | | | | | |
| MV EC 250 | 6035 | 250 | 800/1150 | 2100/2750 | 44/50 | 0.045/0.095 | 0.42/0.83 | 951 | 50 | 5.3 | MVB | 6091 |
| MV EC 315 | 6036 | 315 | 2050 | 2350 | 54 | 0.280 | 1.07 | 1058 | 50 | 0.5 | PH 10 ¹⁾ | 1734 |

alternative potentiometer for flush mounting (PA 10, No. 1735) or three-step speed switch (SU/SA, No. 4266/4267), see Accessories





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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.

☐ Sound levels

See explanations on page 307.

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



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

For higher volume output in a compact parallel design. Dim. in mrt

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.

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.

Specification MVP

The two parallel MV fans are mounted on common mounting rails and have a connector plate fitted to both the intake and ex-

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

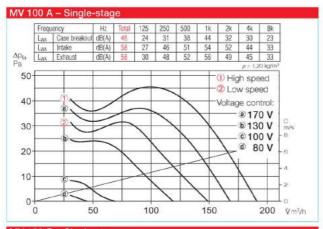
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram.

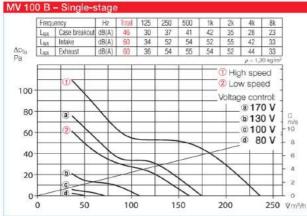
When using a speed controller, the high speed amps have to be allowed for.

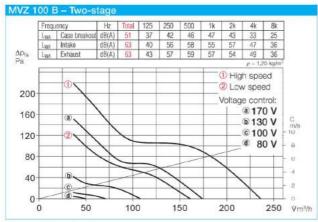
Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

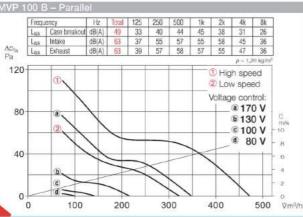
| Туре | Ref. no. | Connection Ø | Air flow volume min./max. | R.P.M. min./max. | Sound pressu case breakout | re level in 1 m air noise min,/max. | Power consumption min,/max. | Current min./max. | Wiring diagram | Max, air flow temperature | Weight net approx. | Transform contro 5-st | oller | Electro speed controll flush/su | ler, stepless |
|-------------|----------------|----------------|---------------------------------|---------------------|----------------------------------|-------------------------------------------|-----------------------------|----------------------|-------------------|---------------------------------|--------------------------|-----------------------------|----------|---------------------------------------|---------------|
| | | mm | V m³/h | min ⁻¹ | dB (A) | dB (A) | W | A | No. | + °C | kg | Туре | Ref. no. | Туре | Ref. no. |
| Single-sta | ge in-line far | n, 230 V, 50 I | Hz, capacitor | motor, IP 4 | 4 | | | | | | | | | | |
| MV 100 A | 6050 | 100 | 150/190 | 2070/2620 | 34/38 | 45/50 | 12/15 | 0.05/0.07 | 844.1 | 60 | 1.2 | TSW 0,3 | 3608 | ESU 1/ESA 1 | 0236/0238 |
| MV 100 B | 6051 | 100 | 170/240 | 1590/2170 | 32/38 | 46/52 | 20/23 | 0.09/0.11 | 844.1 | 60 | 1.7 | TSW 0,3 | 3608 | ESU 1/ESA 1 | 0236/0238 |
| Two-stage | in-line fan, | 230 V, 50 Hz, | , capacitor n | notor, IP 44 | | | | | | | | | | | |
| MVZ 100 B | 6058 | 100 | 170/240 | 1590/2170 | 37/43 | 49/55 | 40/46 | 0.18/0.22 | 845.1 | 60 | 4.5 | TSW 0,3 | 3608 | ESU 1/ESA 1 | 0236/0238 |
| Parallel-tw | in-unit, 230 | V, 50 Hz, cap | pacitor moto | r, IP 44 | | | | | | | | | | | |
| MVP 100 B | 6065 | - | 340/480 | 1590/2170 | 35/41 | 49/55 | 40/46 | 0.18/0.22 | 845.1 | 60 | 5.7 | TSW 0,3 | 3608 | ESU 1/ESA 1 | 0236/0238 |

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









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.



Type VK 100 Ref. no. 0757 Wall mounted, automatic pressure control shutter for the air outlet. Made of white polymer.



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.

























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
- □ 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.

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.

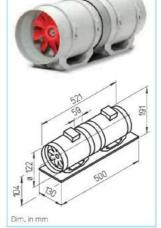
☐ Electrical connection

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

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.

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

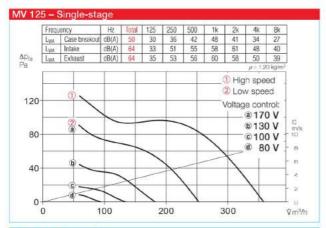
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram.

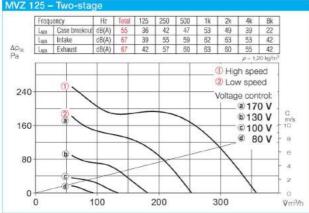
When using a speed controller, the high speed amps have to be allowed for.

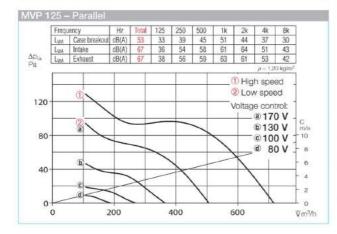
Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK, accessory).

| Туре | Ref. no. | Connection Ø | Air flow volume min,/max, | R.P.M. min./max. | Sound pressu case breakout | re level in 1 m air noise min,/max. | Power consumption min./max. | Current min./max. | Wiring diagram | Max. air flow temperature | Weight net approx. | Transform contro 5-st | oller | Electr speed contro flush/s | ller, stepless |
|-------------|----------------|----------------|---------------------------------|---------------------|----------------------------------|-------------------------------------------|-----------------------------|----------------------|-------------------|---------------------------------|--------------------|-----------------------------|----------|-----------------------------------|----------------|
| | | mm | V m³/h | min ⁻¹ | dB (A) | dB (A) | W | A | No. | + °C | kg | Туре | Ref. no. | Туре | Ref. no. |
| Single-sta | ge in-line far | , 230 V, 50 I | Hz, capacitor | motor, IP 4 | 4 | | | | | | | | | | |
| 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 (| ınit, 230 V, 5 | 0 Hz, capaci | itor 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-tw | vin-unit, 230 | V, 50 Hz, cap | pacitor moto | r, 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 | 0236/0238 |

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







■ 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.



Type VK 125 Ref. no. 0857 Wall mounted, automatic pressure control shutter for the air outlet.

External wall grille
Type G 160 Ref. no. 0893

Made of white polymer.

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



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.



























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
- ☐ 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.

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.

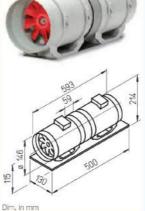
Electrical connection

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.

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



For higher volume output in a compact parallel design.

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.

Specification MVP

Dim, in mm

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

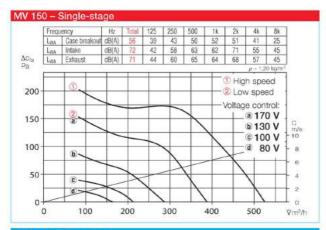
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring

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

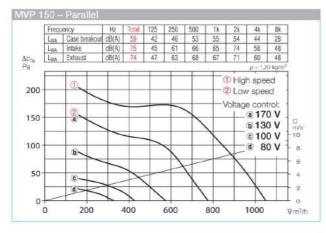
Each fan can also be operated separately or together when necessary. To prevent the recirculation, two exhaust back draught shutters are required (RSK. accessory).

| Туре | Ref. no. | Connection Ø | Air flow volume min./max. | R.P.M. min./max. | Sound pressu case breakout | re level in 1 m air noise min./max. | Power consumption min./max. | Current min./max. | Wiring diagram | Max. air flow temperature | Weight net approx, | Transform contri 5-st | oller | speed controll flush/su | ler, stepless |
|-------------|------------------|----------------|---------------------------------|---------------------|----------------------------------|-------------------------------------------|-----------------------------|----------------------|-------------------|---------------------------------|--------------------------|-----------------------------|----------|----------------------------|---------------|
| | | mm | V m³/h | min ⁻¹ | dB (A) | dB (A) | W | A | No. | +°C | kg | Туре | Ref. no. | Туре | Ref. no. |
| Single-sta | age in-line far | n, 230 V, 50 I | Hz, capacitor | motor, IP 44 | 1 | | | | | | | | | | |
| 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 | e in-line fan, i | 230 V, 50 Hz | capacitor n | notor, 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-ty | win-unit, 230 | V, 50 Hz, ca | pacitor moto | r, 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 |

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



| F | Frequ | ency | H2 | Total | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|----|-------|---------------|-------|-------|-------------|-----|-----|-----|--------|--------------|---------|
| I | Lwa | Case breakout | dB(A) | 62 | 45 | 48 | 55 | 57 | 59 | 46 | 28 |
| 1 | Lwa | Intake | dB(A) | 75 | 48 | 62 | 67 | 66 | 73 | 60 | 48 |
| 1 | LWA | Exhaust | dB(A) | 74 | 51 | 63 | 69 | 67 | 69 | 62 | 47 |
| - | | | | | | | | | | $\rho = 1.2$ | 20 kg/m |
| | | - | | | _ | + | _ | + | 1 Hig | h spe | ed |
| 0 | | 1 | | - | - | _ | _ | - | 2 Lov | | |
| | | | 1 | | | 4 | | | | | |
| | | (3) | | + | | | \ | | Voltag | a 17 | |
| 0+ | | 2 | | + | _ | + | 1 | _ | - | | |
| - | | | _ | | | | | _ | | ® 13 | |
| | | | | _ | - | | | 1 | 1 1 | © 10 | |
| 0 | | (b)_ | | | | | | _ | _ | @ 8 | 0 V |
| - | | - | | + | + | 1 | | - | 1 | - | - |
| 0 | | | | 1 | | - | | | | | |
| 0 | | © | | 1 | | | / | | | | |
| - | | 0 | 1 | | \setminus | | 1 | | - | 1 | - |
| 0+ | _ | | _ | / | | _ | | _ | | 1 | |
| 0 | | 100 | | 200 | | 300 | | 400 | | 500 | |



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 | 3 |
| for heater batteries | 427, 431 |
| Flexible ventilation duct | ting, |
| 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.



Ref. no. 0892 Type VK 160 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 160 11 Ref. no. 0678 Made from aluminium with plug sockets on both sides.

With 50 mm insulation, length 1 m.

Air filter box

galvanised steel.

LFBR 160 G41) Ref. no. 8578 With a large cross section area, for in-duct installation.

Electric heater batteries EHR-R 1,2/160 1 1,2 kW No. 9434 In circular casing, made of

Warm-water heater batteries Type WHR 160¹⁾ Ref. no. 9481

Accessories for all types

For in-duct installation.

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.





























For higher volume output in a compact

parallel design.

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
- □ 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

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.

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.

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



Two MV fans are connected in

and assembled on a common

Delivered as ready-to-assemble

the pressure output at the same

kits. Series operation doubles

series using a connecting sleeve

Dim. in mm

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

☐ Impeller

Specification MVZ

base plate.

volume.

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.

Specification MVP

at the same pressure.

☐ Impeller

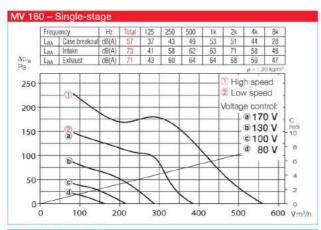
As described on the left.

□ 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.

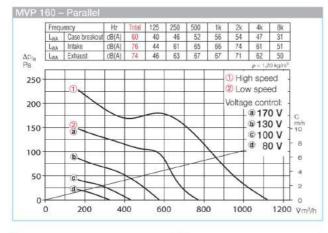
When using a speed controller, the high speed amps have to be allowed for.

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

| Туре | Ref. no. | Connection Ø | Air flow volume min,/max, | R.P.M. min./max. | Sound pressu case breakout | re level in 1 m 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 | V m³/h | min-1 | dB (A) | dB (A) | W | A | No. | +°C | kg | Туре | Ref. no. | Туре | Ref. no. |
| Single-sta | 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 n | otor, 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-tv | 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 moise ser | temples sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise. | | | | | | | | | | | | | | |



MVZ 160 - Two-stag Frequency Hz L_{WA} Case breakout dB(A) Total 125 250 500 1k 2k 4k 8k 63 44 49 54 58 59 48 30 75 47 62 66 66 73 62 50 L_{WA} Intake Lwa Exhaust 49 64 67 68 70 64 50 1 High speed 500 ② Low speed Voltage control: 400 ↓@170 V @130 V 300 © 100 V @ 80 V 8 200 (b). 6 100 2 d 0 200 600 Vm3/h 300 500



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 lev-

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.

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.



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.































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
- □ 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.

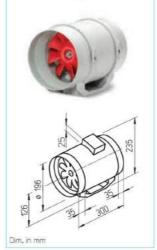
■ Motor

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.

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

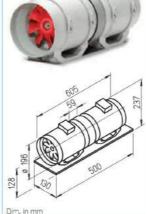
The spacious terminal box (IP 44) is mounted on the casing: rotatable to any position.

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.

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.

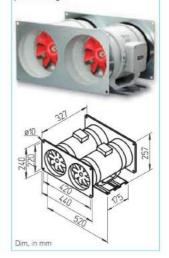
Electrical connection

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.

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.

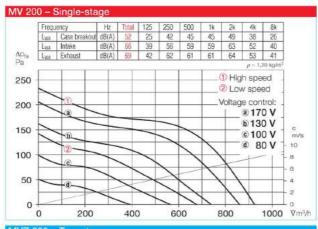
□ Speed control / Connection

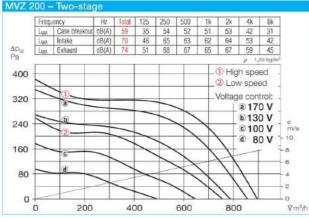
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram.

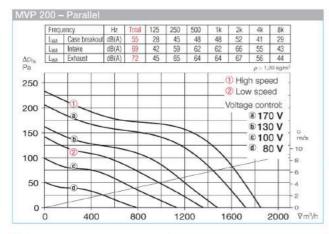
When using a speed controller, the high speed amps have to be allowed for.

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

| Туре | Ref. no. | Connection Ø | Air flow volume min./max. | R.P.M. min./max. | Sound pressu case breakout | re level in 1 m 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 | Туре | Ref. no. | Туре | Ref. no. |
| Single-s | 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-sta | ge in-line fan, | 230 V, 50 Hz, | capacitor n | notor, 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- | 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 moise s | e sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise. | | | | | | | | | | | | | | |







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 lev-

els 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, 487 on roof terminations 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.



Type VK 200 Ref. no. 0758 Wall mounted, automatic pressure control shutter for the air outlet. Made of polymer. Colour: Light grey.



Type RAG 200 Ref. no. 0750 To position in front of air inlets and outlets in facades. Made of polymer; colour: Light grey.

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

Transformer speed controller Type TSW Five-step, for surface mounting.

Electronic speed controller Type ESU/ESA see table

Electronic run-on switch

- for MV

functions.

Type ZNE Ref. no. 0342

- for MVZ and MVP

Ref. no. 1277 Type ZT



























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 SIZAS
- ☐ 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.

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.

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

☐ Impeller

As described on the left.

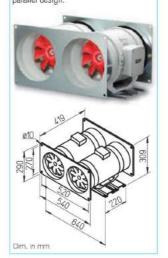
Electrical connection

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.

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 ex-

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.

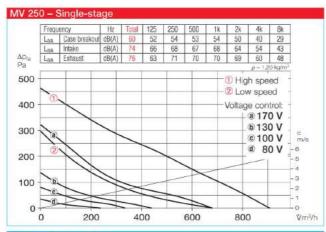
□ Speed control / Connection

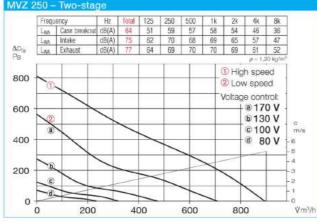
Each fan is located with a separate terminal box on the outer casing. By operating the two fans on two speeds using one operation switch MVB (accessory) or one change-over switch (on site) a pair of relays have to be used as shown in the wiring diagram.

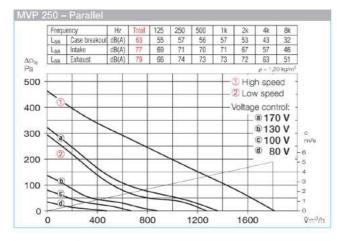
When using a speed controller, the high speed amps have to be allowed for.

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

| Туре | Ref. no. | Connection Ø | Air flow volume min./max. | R.P.M. min./max. | Sound pressu case breakout | re level in 1 m 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 | V m³/ħ | min ⁻¹ | dB (A) | dB (A) | W | A | No. | +°C | kg | Туре | Ref. no. | Туре | 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 n | notor, 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-tv | 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 se | In noise sensitive cases, transformer-control devices should be used. Electronic phase angle control may generate disturbing increase in motor noise. | | | | | | | | | | | | | | |







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

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.



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.



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

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.























525 on