Axial inline fans, for exhaust or supply ventilation with the capacity up to 358 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Exhaust or supply ventilation depending on the fan mounting type in the system.
- Designed for PVC ducting systems or flexible ducts.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Design
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP X4.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
- VKOk – fan with a fixing bracket for flat surface mounting.
- VKO L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- VKO turbo – high-powered motor.
- VKO press – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
- VKO 12 – modification with low-voltage motor. 12 V AC power supply.

Control
- Manual:
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.
- Automatic:
  - By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

Mounting features
- The fan is mounted into a matching duct size. Fastening with clamps in case of flexible duct connection.
- This series fans have different intake and exhaust flange diameters to enable attachment of the decorative grille MV to the appropriate intake flange diameter in case of direct installation into the ventilation shaft or instead of the existing ventilation grille.
- The fan can be mounted on a horizontal or vertical flat surface by a fixing bracket (VKOk model).
- Two fans can be installed in series for higher performance.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Mounting examples
- VKO fan flat ventilation example
- VKOk fan cottage ventilation example

Accessories
- Diffusers and air disk valves
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
Technical data

<table>
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<tr>
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Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
VENTS VKO1 Series

Axial inline fans, for exhaust or supply ventilation with the capacity up to 365 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Exhaust or supply ventilation depending on the fan mounting type in the system.
- Designed for PVC ducting systems or flexible ducts.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Design
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP X4.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
VKO1k – fan with a fixing bracket for flat surface mounting.
VKO1 L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
VKO1 turbo – high-powered motor.
VKO1 press – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
VKO1 12 – modification with low-voltage motor. 12 V AC power supply.
VKO1 T – equipped with a regulated timer with the operating time from 2 to 30 minutes.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).

Mounting features
- The fan is mounted into a matching duct size. Fastening with clamps in case of flexible duct connection.
- The mounting bracket enables fan installation on both horizontal and vertical flat surfaces (VKO1k model).
- Two fans can be installed in series for higher performance.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Mounting examples

VKO1k fan cottage ventilation example

VKO1 fan flat ventilation example

Accessories
- Diffusers and air disk valves
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
### Aerodynamic characteristics

![Graphs showing aerodynamic characteristics of VENTS Domestic ventilation fans.](image)

### Technical data

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<tr>
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<th>Voltage [V]</th>
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### Certificates

![Certificates](image)

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial fans for exhaust ventilation with the capacity up to 365 m³/h. Compatible with Ø 100, 125 or 150 mm air ducts. Some models are equipped with automatic or manual louver shutters. Wide range of designs and options.

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AXIAL WALL- AND CEILING-MOUNTED FANS

VENTS M Series

Axial fans for exhaust ventilation with the capacity up to 345 m³/h

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP 34.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Modifications and Options
- M K – fan is equipped with a backdraft damper for back flow preventing.
- M L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- M turbo – high-powered motor.
- M press – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
- M 12 – modification with low-voltage motor. 12 V AC power supply.
- MT – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- MTH – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90%.
- MV – equipped with a pull cord switch.
- MVT – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.
- MVTH – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60% to 90%.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers cannot be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer TP (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

Mounting features
- The fan is mounted directly into the ventilation shaft or used for ceiling mounting with the connection to the duct.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Accessories
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
**Aerodynamic characteristics**

**Technical data**

<table>
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<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
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**Overall dimensions**

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**Certificates**

The fans meet the applicable safety and electromagnetic compatibility standards.
AXIAL WALL- AND CEILING-MOUNTED FANS

VENTS M3 Series

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP 34.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options

- **M3 K** – fan is equipped with a backdraft damper for back flow preventing.
- **M3 L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **M3 turbo** – high-powered motor.
- **M3 press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
- **M3 12** – modification with low-voltage motor. 12 V AC power supply.
- **M3T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- **M3TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90%.
- **M3V** – equipped with a pull cord switch.
- **M3VT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.
- **M3VTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60% to 90%.
- **M3TP** – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

Control

Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer TP (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

Mounting features
- The fan is mounted directly into the ventilation shaft or wall mounted and connected to the air ducts.
- The enlarged front grille modification makes the fan suitable for mounting into rectangular ventilation shafts.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- For rectangular ventilation shafts.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Accessories
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
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Overall dimensions

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Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
AXIAL WALL- AND CEILING-MOUNTED FANS

VENTS M1 Series

Axial fans for exhaust ventilation with the capacity up to 345 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP 34.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
- M1 12 – modification with low-voltage motor. 12 V AC power supply.
- M1 press – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
- M1 K – fan is equipped with a backdraft damper for back flow preventing.
- M1 L – The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- M1 turbo – high-powered motor.
- M1 TH – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- M1 TH – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90%.
- M1 T – equipped with a pull cord switch.
- M1 VT – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.
- M1 VT – equipped with a regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60% to 90%.
- M1TP – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer TP (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Accessories
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
### Aerodynamic characteristics

#### Technical data

<table>
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<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
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#### Overall dimensions

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#### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
AXIAL WALL- AND CEILING-MOUNTED FANS

VENTS MA Series

Axial fans with automatic louver shutters for exhaust ventilation with the capacity up to 345 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Fan is equipped with a thermal actuator that provides smooth opening and shutting of automatic louver shutters for air back flow preventing.
- Protection rating IP 24.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
- MA L - the motor is equipped with ball bearings for long service life (approx. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- MA turbo - high-powered motor.
- MA press - 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
- MA 12 - modification with low-voltage motor. 12 V AC power supply.
- MAT - equipped with a regulated timer with the operating time from 2 to 30 minutes.
- MATH - equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90%.
- MAV - equipped with a pull cord switch.
- MAVT - equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.
- MAVTH - equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60% to 90%.
- MATP - equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

Control

Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer TP (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- Flange of 92 mm length for easy mounting into concrete walls and floor decks up to 100 mm thick.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Accessories

Air ducts
Grilles and hoods
Speed controllers
Clamps
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
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<th>Current [A]</th>
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<td>50/60</td>
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<td>22</td>
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<td>2300</td>
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<td>220-240</td>
<td>26</td>
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<td>2400</td>
<td>295</td>
<td>39</td>
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<td>VENTS 150 MA (220-240 B/60 Hz)</td>
<td>60</td>
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<td>32</td>
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<td>32</td>
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<td>2400</td>
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<td>0,99</td>
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<td>220-240</td>
<td>32</td>
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<tr>
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<td>2</td>
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<td>263</td>
<td>38</td>
<td>0,98</td>
</tr>
</tbody>
</table>

Mounting example

Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial reverse fans for exhaust and supply ventilation with the capacity up to 202 m³/h

**Applications**
- Continuous or periodic exhaust and supply ventilation of bathrooms, showers, kitchens, garages and other residential spaces.
- Mounting on the external wall together with ventilation kit that includes an air duct and an external grille provides the most efficient operation.
- Compatible with Ø 150 mm air ducts.

**Design**
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Fan is equipped with a thermal actuator that provides smooth opening and shutting of automatic louver shutters for air back flow preventing.
- Supplied with a three bottom control unit and 220 V - 12 V transformer.
- Transformer provides reliable fan operation with safe power supply 12 V.
- Protection rating IP 24.

**Motor**
- Reliable DC motor (12 V) with low energy demand.
- Two-speed reverse DC motor provides fan operation both in supply and exhaust mode.
- Special motor design ensures low noise level.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Control**
- **Manual:**
  - Three bottom control unit (included into delivery set) with integrated circuit board is used for:
    1. On/off switching;
    2. Fan speed switching (min - max);
    3. Fan operation mode switching (exhaust - supply mode).

- **Mounting features**
  - Fan is designed for indoor mounting on the external wall and is connected to the air duct.
  - Fastening with screws. Flexible air duct is connected to exhaust flange with a clamp.

**Accessories**
- Air ducts
- Grilles and hoods
- Clamps

Ventilation Kit:
- Exhaust mode
- 2 speed
- On
- Supply mode
- 1 speed
- Off

Fan operation in EXHAUST mode
Fan operation in SUPPLY mode
Aerodynamic characteristics

![Graph showing aerodynamic characteristics]

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Mode</th>
<th>Speed</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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</thead>
<tbody>
<tr>
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<td>220-240</td>
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<td>1950</td>
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<td>exhaust</td>
<td>min</td>
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<td>0,025</td>
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<td>123</td>
<td>28</td>
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<tr>
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<td>supply</td>
<td>max</td>
<td>50/60</td>
<td>220-240</td>
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<td>0,045</td>
<td>2030</td>
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<tr>
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<td>supply</td>
<td>min</td>
<td>50/60</td>
<td>220-240</td>
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<td>0,025</td>
<td>1210</td>
<td>110</td>
<td>26</td>
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</tbody>
</table>

Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
AXIAL WALL- AND CEILING-MOUNTED FANS

VENTS X1 Series

Axial fans for exhaust ventilation with the capacity up to 345 m³/h

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP 24.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
- X1 K – fan is equipped with a backdraft damper for back flow preventing.
- X1 L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- X1 turbo – high-powered motor.
- X1 12 – modification with low-voltage motor. 12 V AC power supply.
- X1T – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- X1TH – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60% to 90%.
- X1V – equipped with a pull cord switch.
- X1VT – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.
- X1VTH – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60% to 90%.
- X1VT P – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

Control
- Manual:
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.
- Automatic:
  - By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
  - By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
  - By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
  - By the motion sensor and the timer TP (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Accessories

Air ducts
Grilles and hoods
Backdraft damper
Speed controllers
Clamps
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 X1</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
<td>0,085</td>
<td>2300</td>
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<td>0,60</td>
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<tr>
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<td>50/60</td>
<td>220-240</td>
<td>16</td>
<td>0,1</td>
<td>2300</td>
<td>129</td>
<td>37</td>
<td>0,68</td>
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<tr>
<td>VENTS 125 X1</td>
<td>50/60</td>
<td>220-240</td>
<td>12</td>
<td>1,5</td>
<td>2200</td>
<td>86</td>
<td>33</td>
<td>0,59</td>
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<tr>
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<td>50/60</td>
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<td>16</td>
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<td>0,73</td>
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<td>50/60</td>
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<td>16</td>
<td>1,7</td>
<td>2300</td>
<td>232</td>
<td>37</td>
<td>0,80</td>
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<tr>
<td>VENTS 150 X1</td>
<td>50</td>
<td>220-240</td>
<td>24</td>
<td>0,13</td>
<td>2400</td>
<td>295</td>
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<td>0,92</td>
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<tr>
<td>VENTS 150 X1 turbo</td>
<td>60</td>
<td>220-240</td>
<td>29</td>
<td>0,13</td>
<td>2400</td>
<td>345</td>
<td>41</td>
<td>1,06</td>
</tr>
<tr>
<td>VENTS 150 X1 12</td>
<td>60</td>
<td></td>
<td>12</td>
<td>2</td>
<td>2300</td>
<td>263</td>
<td>36</td>
<td>0,88</td>
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Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
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<tbody>
<tr>
<td>VENTS 100 X1</td>
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<td>VENTS 125 X1</td>
<td>Ø 125 B 177 H 140 L 114 L1 12,5</td>
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<tr>
<td>VENTS 150 X1</td>
<td>Ø 150 B 205 H 165 L 132 L1 13</td>
</tr>
</tbody>
</table>

Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial fans for exhaust ventilation with the capacity up to 232 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- For rectangular ventilation shafts.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 and 125 mm air ducts.

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- The special front grille design enables natural ventilation of the premises without powering up the fan if required.
- Insect screen.
- Protection rating IP 34.
- Ventilation grille for natural air exhaust for application in premises with gas stoves.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
- F L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- F turbo – high-powered motor.
- F 12 – modification with low-voltage motor. 12 V AC power supply.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.
**Aerodynamic characteristics**

![Graph showing aerodynamic characteristics](image)

**Technical data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 F</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
<td>0.085</td>
<td>2300</td>
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<td>2200</td>
<td>86</td>
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<td>0.63</td>
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<td>2400</td>
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<td>0.70</td>
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<tr>
<td>VENTS 125 F turbo</td>
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<td>1.7</td>
<td>2300</td>
<td>165</td>
<td>34</td>
<td>0.68</td>
</tr>
</tbody>
</table>

**Mounting example**

![Mounting example image](image)

**Overall dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 F</td>
<td>Ø D</td>
</tr>
<tr>
<td>VENTS 125 F</td>
<td>Ø D</td>
</tr>
</tbody>
</table>

**Certificates**

The fans meet the applicable safety and electromagnetic compatibility standards.
VENTS F1 Series

Axial fans for exhaust ventilation with the capacity up to 232 m³/h

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- The special front grille design enables natural ventilation of the premises without powering up the fan if required.
- The enlarged front grille is specifically designed to fit non-standard ventilation shafts.
- Insect screen.
- Protection rating IP 34.
- Ventilation grille for natural air exhaust for application in premises with gas stoves.

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Designed for non-standard ventilation shafts with a large cross section.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 and 125 mm air ducts.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
- **F1 L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **F1 turbo** – high-powered motor.
- **F1 12** – modification with low-voltage motor. 12 V AC power supply.
- **F1T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.

Control

Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer **TRF 220/12-25** that is available upon separate order.

Accessories

- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 F1</td>
<td>50/60</td>
<td>220-240</td>
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<td>0,085</td>
<td>2300</td>
<td>100</td>
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<td>0,58</td>
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<td>16</td>
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<td>2300</td>
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<td>2200</td>
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<tr>
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<td>1,7</td>
<td>2300</td>
<td>169</td>
<td>34</td>
<td>0,80</td>
</tr>
</tbody>
</table>

Mounting example

Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 F1</td>
<td>Ø D 100 B 182 B1 152 B2 160 H 252 H1 226 L 128 L1 13</td>
</tr>
<tr>
<td>VENTS 125 F1</td>
<td>Ø D 125 B 182 B1 152 B2 160 H 252 H1 226 L 134 L1 15</td>
</tr>
</tbody>
</table>

Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial fans for exhaust ventilation with the capacity up to 341 m³/h

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**
- Classic design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP 34.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**
- **K L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **K turbo** – high-powered motor.
- **K 12** – modification with low-voltage motor. 12 V AC power supply.

**Control**
- **Manual:**
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers cannot be connected to the fans with T, TH, TP, VT, VTH modification.
- **Automatic:**
  - By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer **TRF 220/12-25** that is available upon separate order.

**Accessories**
- Air ducts
- Grilles and hoods
- Speed controllers
- Backdraft damper
- Clamps
Aerodynamic characteristics

![Graphs showing aerodynamic characteristics of VENTS fans.](image)

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
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<td>14</td>
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</table>

Mounting example

![Image of a bathroom with a VENTS fan mounted.](image)

Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
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<tr>
<td>VENTS 100 K</td>
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<tr>
<td>VENTS 125 K</td>
<td>125 187 142</td>
</tr>
<tr>
<td>VENTS 150 K</td>
<td>150 250 214</td>
</tr>
</tbody>
</table>

Certificates

![Certificates for VENTS fans.](image)

The fans meet the applicable safety and electromagnetic compatibility standards.
**Design**
- Classic design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP 34.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 and 125 mm air ducts.

**Modifications and Options**

**K1 L** – The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.

**K1 turbo** – high-powered motor.

**K1 12** – modification with low-voltage motor. 12 V AC power supply.

**Control**

**Manual:**
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

**Automatic:**
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

**Accessories**
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
The fans meet the applicable safety and electromagnetic compatibility standards.
Axial fans for exhaust ventilation with the capacity up to 342 m³/h

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP 34.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**
- **PF L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **PF turbo** – high-powered motor.
- **PF press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
- **PF 12** – modification with low-voltage motor. 12 V AC power supply.

**Control**

- **Manual:**
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

- **Automatic:**
  - By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

**Accessories**
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
### Aerodynamic characteristics

![Graph showing aerodynamic characteristics](image)

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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</thead>
<tbody>
<tr>
<td>VENTS 100 PF</td>
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### Overall dimensions

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<th>Model</th>
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### Certificates

[Certificates image]

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial fans for exhaust ventilation with the capacity up to 349 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP 34.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
- PF1 L – The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- PF1 turbo – high-powered motor.
- PF1 press – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
- PF1 12 – modification with low-voltage motor. 12 V AC power supply.
- PF1T – equipped with a regulated timer with the operating time from 2 to 30 minutes.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers cannot be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Accessories
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
**Technical data**

<table>
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<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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**Overall dimensions**

<table>
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<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
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<td>VENTS 100 PF1</td>
<td>100 141 128 13</td>
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<td>125 166 134 15</td>
</tr>
<tr>
<td>VENTS 150 PF1</td>
<td>150 188 146 15</td>
</tr>
</tbody>
</table>

**Certificates**

The fans meet the applicable safety and electromagnetic compatibility standards.
**AXIAL WALL- AND CEILING-MOUNTED FANS**

### VENTS S Series

Axial fans for exhaust ventilation with the capacity up to 341 m³/h

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Ultra thin front panel.
- Insect screen.
- Protection rating IP 34.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**
- **S1** – shortened flange model.
- **SK** – fan is equipped with a backdraft damper for back flow preventing.
- **SL** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **S turbo** – high-powered motor.
- **S 12** – modification with low-voltage motor. 12 V/AC power supply.
- **ST** – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- **STH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60% to 90%.
- **SV** – equipped with a pull cord switch.
- **SVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.

**Control**
- **Manual:**
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
  - Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TR, VT, VTH modification.
- **Automatic:**
  - By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
  - By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
  - By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

**Accessories**
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps

**SVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60% to 90%.
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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<tr>
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Overall dimensions

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<tr>
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**AXIAL WALL- AND CEILING-MOUNTED FANS**

**VENTS D Series**

Axial fans for exhaust ventilation with the capacity up to 341 m³/h

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**
- Ultra slim front panel - only 6,5 mm.
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP 34.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**
- D1 – Shortened flange model.
- D K – fan is equipped with a backdraft damper for back flow preventing.
- DL – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- D turbo – high-powered motor.
- D 12 – modification with low-voltage motor. 12 V AC power supply.
- DT – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- DTH – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60% to 90%.
- DV – equipped with a pull cord switch.
- DVT – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.

**Control**
- Manual:
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
  - Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

  **Automatic:**
  - By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
  - By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
  - By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

**Accessories**
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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<tr>
<td>VENTS 150 D</td>
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Mounting example

Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial fans for exhaust ventilation
with air capacity up to 82 m³/h

Applications

- Continuous or periodic exhaust ventilation of bathrooms, showers, kitchens and and utility spaces.
- Ventilation shaft mounting or connection to Ø 125 mm air ducts.
- Low to medium air flow motion for short distances at low air resistance.

Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The fan is delivered with a safe low-voltage motor of 12 V (transformer power unit 220 / 12 V is included in the delivery).
- Reliable motor on ball bearings with minimum energy demand up to 5 W.
- Protection rating IP 24

Motor

- Reliable motor with low energy demand.
- Designed for continuous operation and requires no maintenance.
- The motor is equipped with overheating protection for 72 hours.

Control

Manual:
- The fan is controlled by a room light switch.
- It is not included in the delivery.

Automatic:
- Speed control with a an electronic control unit BU-1-60, refer to the Electric accessories.
- The control unit is available upon separate order.

Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location.
- The air duct is connected to the fan exhaust flange through a clamp.
- Fixing to wall with screws.
- Suitable for ceiling mounting.

Aerodynamic characteristics

Overall dimensions

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<th>Model</th>
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Technical data

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**VENTS IFT Series**

Axial fans for exhaust ventilation with air capacity up to 78 m³/h

---

**Applications**
- Continuous or periodic exhaust ventilation of bathrooms, showers, kitchens and utility spaces.
- Ventilation shaft mounting or connection to Ø 125 mm air ducts.
- Low to medium airflow motion for short distances at low air resistance.

**Design**
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The fan is delivered with a safe low-voltage motor of 12 V (transformer power unit 220 / 12 V is included in the delivery).
- Reliable motor on ball bearings with minimum energy demand up to 5 W.
- Protection rating IP 24

**Motor**
- Reliable motor with low energy demand.
- Designed for continuous operation and requires no maintenance.
- The motor is equipped with overheating protection for 72 hours.

**Control**
- **Manual:** The fan is controlled by a room light switch.
- **Automatic:** Speed control with an electronic control unit BU-1-60, refer to the Electric accessories.
- The control unit is available upon separate order.

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location.
- The air duct is connected to the fan exhaust flange through a clamp.
- Fixing to wall with screws.
- Suitable for ceiling mounting.

---

**Aerodynamic characteristics**

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**Overall dimensions**

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**Accessories**
- Air ducts
- Grilles and hoods
- Back valves
- Speed controllers
- Clamps
Axial fans for exhaust ventilation with air capacity up to 80 m³/h

## Applications
- Continuous or periodic exhaust ventilation of bathrooms, showers, kitchens and utility spaces.
- Ventilation shaft mounting or connection to 125 mm air ducts.
- Low to medium air flow motion for short distances at low air resistance.

## Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The fan is delivered with a safe low-voltage motor of 12 V (transformer power unit 220 / 12 V is included in the delivery).
- Reliable motor on ball bearings with minimum energy demand up to 5 W.
- Protection rating IP 24

## Motor
- Reliable motor with low energy demand.
- Designed for continuous operation and requires no maintenance.
- The motor is equipped with overheating protection for 72 hours.

## Control
- Manual:
  - The fan is controlled by a room light switch.
  - It is not included in the delivery.
- Automatic:
  - Speed control with an electronic control unit BU-1-60, refer to the Electric accessories.
  - The control unit is available upon separate order.

## Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location.
- The air duct is connected to the fan exhaust flange through a clamp.
- Fixing to wall with screws.
- Suitable for ceiling mounting.

## Aerodynamic characteristics

![Graph showing aerodynamic characteristics](graph.png)

## Overall dimensions

![Overall dimensions diagram](dimensions.png)

<table>
<thead>
<tr>
<th>Model</th>
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## Technical data

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## Accessories

- Air ducts
- Grilles and hoods
- Back valves
- Speed controllers
- Clamps
AXIAL DECORATIVE FANS

- **VENTS LD, VENTS LD Auto and VENTS LD light Series**
  Axial fans with a thin front panel for exhaust ventilation with the capacity up to 345 m³/h. Different color modifications of the front panel. Compatible with Ø 100, 125 and 150 mm air ducts.

- **VENTS LD Fresh Time Series**
  Axial fans with a built-in clock for exhaust ventilation with the capacity up to 115 m³/h. Compatible with Ø 100 mm air ducts.

- **VENTS Modern and VENTS Modern Auto Series**
  Axial fans with a thin front panel for exhaust ventilation with the capacity up to 345 m³/h. Compatible with Ø 100, 125 and 150 mm air ducts.

- **VENTS Z and VENTS Z Star Series**
  Axial fans with a stainless steel front panel for exhaust ventilation with the capacity up to 358 m³/h. Different types of drawings of the front panel. VENTS Z Star Series fans are equipped with a built-in LED lighting. Compatible with Ø 100, 125 and 150 mm air ducts.

- **VENTS Vitro and VENTS Vitro Star Series**
  Axial fans with a glass front panel for exhaust ventilation with the capacity up to 358 m³/h. Different types of drawings of the front panel. VENTS Vitro Star Series fans are equipped with a built-in LED lighting. Compatible with Ø 100, 125 and 150 mm air ducts.

- **VENTS X and VENTS X Star Series**
  Axial fans for exhaust ventilation with the capacity up to 302 m³/h. VENTS X star series fans are equipped with a built-in LED lighting. Compatible with Ø 100, 125 and 150 mm air ducts.
<table>
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<th>Model</th>
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<td>VENTS LD, VENTS LD Auto, VENTS LD light Series</td>
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<tr>
<td>VENTS LD Fresh Time Series</td>
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<tr>
<td>VENTS Domino Series</td>
<td>up to 310 m³/h</td>
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<tr>
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<td>VENTS X Series, VENTS X Star Series</td>
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<td>VENTS Lumis Series</td>
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</table>
AXIAL DECORATIVE FANS

VENTS LD
Series

Axial decorative fans for exhaust ventilation with the capacity up to 310 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- Various decorative plates for the front panel of the natural aluminum.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP 34.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
LDA – the fan with a ground aluminium front panel.
LDA gold – the fan with a gold-tinted aluminium front panel.
LDA chrome – the fan with a mirror finish aluminium front panel.
LD alulak – the fan with a front panel painted silver (matt).
LD alulak – the fan with a front panel painted silver (gloss).
LD1 – shortened branch pipe model.
LD K – fan is equipped with a backdraft damper for back flow preventing.
LD L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
LD turbo – high-powered motor.

LDA gold
LDA chrome
LDA
LD alulak

LDV – equipped with a pull cord switch.
LDVT – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.
LDVTH – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60% to 90%.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers cannot be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Accessories
Air ducts
Grilles and hoods
Backdraft damper
Speed controllers
Clamps

VENTS. Domestic ventilation. Catalogue №6 | 09-2015

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Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
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<td>310</td>
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<tr>
<td>VENTS 150 LD 12</td>
<td>50</td>
<td>220-240</td>
<td>12</td>
<td>2</td>
<td>2300</td>
<td>236</td>
<td>36</td>
<td>0,92</td>
</tr>
</tbody>
</table>

Mounting example

Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 LD</td>
<td>Ø 100 B 152 H 120 L 126 L1 30</td>
</tr>
<tr>
<td>VENTS 100 LD1</td>
<td>Ø 100 B 152 H 120 L 111 L1 30</td>
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<tr>
<td>VENTS 125 LD</td>
<td>Ø 125 B 177 H 140 L 135 L1 34</td>
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<td>VENTS 125 LD1</td>
<td>Ø 125 B 177 H 140 L 116 L1 34</td>
</tr>
<tr>
<td>VENTS 150 LD</td>
<td>Ø 150 B 206 H 165 L 154 L1 36</td>
</tr>
</tbody>
</table>

Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
**AXIAL DECORATIVE FANS**

**VENTS LD Auto Series**

Exhaust axial decorative fans with automatic louvre shutters with air capacity up to 345 m³/h

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**
- Modern design and aesthetic look.
- The casing, impeller and front panel are made of high-quality and durable UV-resistant ABS plastic.
- Various decorative natural aluminium plates.
- The thermal actuator provides smooth opening and closing of the automatic louvre shutters that prevent air back drafting.
- The impeller design enhances the fan efficiency and prolongs the motor service life.
- Protection rating IP 24.

**Motor**
- Reliable motor with low energy demand
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and options**

- **LD Auto L** - the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **LD Auto turbo** - high-powered motor.
- **LD Auto press** - 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
- **LD Auto 12** - equipped with a reliable low-voltage motor, 12 V.
- **LD Auto T** - equipped with a turn-off delay timer adjustable from 2 to 30 minutes.
- **LD Auto TH** - equipped with a turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.
- **LD Auto V** - equipped with a pull cord switch.
- **LD Auto VT** - equipped with a pull cord switch and a turn-off delay timer adjustable from 2 to 30 minutes.
- **LD Auto VTH** - equipped with a pull cord switch, turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.

**Control**

**Manual:**
- The fan is controlled with a room light switch (not included into delivery set).
- The fan is controlled with a built-in pull cord switch “V”. This option is not applicable for ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

**Automatic:**
- Speed control with a an electronic control unit BU-1-60, refer Electric accessories. The control unit is available upon separate order.
- Fan control with a turn-off delay timer “T” that enables fan running from 2 to 30 minutes after turning the fan off.
- Fan control with a humidity sensor and turn-off delay timer “TH” that enables fan switching on and running until the indoor humidity drops below the set point adjustable from 60% to 90% and subsequent fan running within the set time before turning off.

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing with screws.
- Suitable for ceiling mounting.
- The step-down transformer (TRF 220/12-25) enables connection of a low-voltage fan 12 V / 50 Hz to 220 V / 50 Hz power mains. Available upon separate order.

**Accessories**

- Air ducts
- Grilles and hoods
- Back valves
- Speed controllers
- Control unit
- Transformer
- Clamps

Fan off - louver shutters CLOSED  
Fan on - louver shutters OPEN

LDA Auto  
LDA Auto Chrome  
LDA Auto Gold
### Aerodynamic characteristics

![Graphs showing aerodynamic characteristics](image)

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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</thead>
<tbody>
<tr>
<td>VENTS 100 LD Auto</td>
<td>50/60</td>
<td>220-240</td>
<td>18</td>
<td>0,085</td>
<td>2300</td>
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<td>86</td>
<td>33</td>
<td>0,72</td>
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<td>220-240</td>
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<td>1,5</td>
<td>2200</td>
<td>86</td>
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<td>0,72</td>
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<tr>
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<td>2400</td>
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<td>188</td>
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<td>0,83</td>
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<tr>
<td>VENTS 150 LD Auto</td>
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<td>220-240</td>
<td>12</td>
<td>22</td>
<td>2300</td>
<td>165</td>
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<td>2300</td>
<td>263</td>
<td>38</td>
<td>1,13</td>
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</tbody>
</table>

### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

### Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
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<tbody>
<tr>
<td>VENTS 100 LD Auto</td>
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<td>D: 125 B: 205 L: 118 L1: 65</td>
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<tr>
<td>VENTS 150 LD Auto</td>
<td>D: 150 B: 240 L: 137 L1: 81</td>
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</tbody>
</table>
### AXIAL DECORATIVE FANS

#### VENTS LD light

**Series**

Exhaust axial decorative fans with air capacity up to 310 m³/h

#### Applications

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

#### Design

- Modern design and original look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- Front panel edge is made of transparent plexiglass with LED illumination of various colours (blue, red, green).
- The impeller design enhances the fan efficiency and prolongs the motor service life.
- Protection rating IP 34.

#### Motor

- Reliable motor with low energy demand.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

#### Modifications and options

- LD Light K – the fan is equipped with a back valve to prevent air backdrafting.
- LD Light L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- LD Light turbo – high-powered motor.
- LD Light 12 – equipped with a reliable low-voltage motor, 12 V.
- LD Light T – equipped with a turn-off delay timer adjustable from 2 to 30 minutes.
- LD Light TH – equipped with a turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.
- LD Light V – equipped with a pull cord switch.
- LD Light VT – equipped with a pull cord switch and a turn-off delay timer adjustable from 2 to 30 minutes.
- LD Light VTH – equipped with a pull cord switch, turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.

#### Control

**Manual:**

- The fan is controlled with a room light switch (not included into delivery set).
- The fan is controlled with a built-in pull cord switch "V". This option is not applicable for ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories).
- Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

**Automatic:**

- Speed control with a an electronic control unit BU-1-60, refer the Electric accessories.
- The control unit is available upon separate order.
- Fan control with a turn-off delay timer "T" that enables fan running from 2 to 30 minutes after turning the fan off.
- Fan control with a humidity sensor and turn-off delay timer "TH" that enables fan switching on and running until the indoor humidity drops below the set point adjustable from 60% to 90% and subsequent fan running within the set time before turning off.

#### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing to wall with screws.
- Suitable for ceiling mounting.
- The step-down transformer (TRF 220/12-25) enables connection of a low-voltage fan 12 V / 50 Hz to 220 V / 50 Hz power mains. Available upon separate order.

#### Accessories

<table>
<thead>
<tr>
<th>Air ducts</th>
<th>Grilles and hoods</th>
<th>Back valves</th>
<th>Speed controllers</th>
<th>Control unit</th>
<th>Transformer</th>
<th>Clamps</th>
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VENTS. Domestic ventilation. Catalogue №6 | 09-2015
**Aerodynamic characteristics**

<table>
<thead>
<tr>
<th>Model</th>
<th>Air capacity [m³/h]</th>
<th>Pressure, ∆P [Pa]</th>
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<tbody>
<tr>
<td>VENTS 100 LD Light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VENTS 100 LD Light turbo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VENTS 125 LD Light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VENTS 125 LD Light turbo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VENTS 150 LD Light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VENTS 150 LD Light turbo</td>
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<td></td>
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</table>

**Technical data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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<tbody>
<tr>
<td>VENTS 100 LD Light</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
<td>0,085</td>
<td>2300</td>
<td>88</td>
<td>33</td>
<td>0,73</td>
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<tr>
<td>VENTS 100 LD Light turbo</td>
<td>50/60</td>
<td>220-240</td>
<td>16</td>
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<td>2300</td>
<td>115</td>
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<td>0,81</td>
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<td>VENTS 125 LD Light</td>
<td>50/60</td>
<td>220-240</td>
<td>12</td>
<td>0,1</td>
<td>2200</td>
<td>77</td>
<td>32</td>
<td>0,72</td>
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<tr>
<td>VENTS 125 LD Light turbo</td>
<td>50/60</td>
<td>220-240</td>
<td>24</td>
<td>0,105</td>
<td>2400</td>
<td>209</td>
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<td>0,99</td>
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<tr>
<td>VENTS 150 LD Light</td>
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<td>12</td>
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<td>2400</td>
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<td>60</td>
<td>220-240</td>
<td>29</td>
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<td>2400</td>
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<td>1,28</td>
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<td>60</td>
<td>220-240</td>
<td>29</td>
<td>0,13</td>
<td>2400</td>
<td>310</td>
<td>39</td>
<td>1,28</td>
</tr>
<tr>
<td>VENTS 150 LD Light 12</td>
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<td>220-240</td>
<td>12</td>
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<td>2300</td>
<td>296</td>
<td>36</td>
<td>1,10</td>
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</table>

**Mounting example**

**Overall dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Overall dimensions [mm]</th>
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</thead>
<tbody>
<tr>
<td>VENTS 100 LD Light</td>
<td>99,5 160 126 96</td>
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<tr>
<td>VENTS 125 LD Light</td>
<td>125 187 135 101</td>
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<tr>
<td>VENTS 150 LD Light</td>
<td>150 216 154 118</td>
</tr>
</tbody>
</table>

**Certificates**

The fans meet the applicable safety and electromagnetic compatibility standards.
AXIAL DECORATIVE FANS

VENTS LD Fresh time Series

Axial fans for exhaust ventilation with a built-in clock and capacity up to 310 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125, 150 mm air ducts.

Design
- A battery-powered quartz clock is built into the fan casing.
- Both Arabic and Roman hour plates are available on the front panel.
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP 34.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
LD Fresh time R – fan with a Roman hour plate.
- LD Fresh time K – fan is equipped with a backdraft damper for back flow preventing.
- LD Fresh time L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- LD Fresh time turbo – high-powered motor.
- LD Fresh time 12 – modification with low-voltage motor. 12 V AC power supply.
- LDT Fresh time – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- LDTH Fresh time – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60% to 90%.
- LDV Fresh time – equipped with a pull cord switch.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125, 150 mm air ducts.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
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- LDT Fresh time – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- LDTH Fresh time – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60% to 90%.
- LDV Fresh time – equipped with a pull cord switch.

Control
Manual:
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Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 LD Fresh time</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
<td>0,085</td>
<td>2300</td>
<td>88</td>
<td>33</td>
<td>0,60</td>
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<tr>
<td>VENTS 100 LD Fresh time turbo</td>
<td>50/60</td>
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<td>16</td>
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<td>2300</td>
<td>115</td>
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<tr>
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<td>2400</td>
<td>255</td>
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<td>VENTS 150 LD Fresh time 12</td>
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<td>2400</td>
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<td>0,92</td>
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<td>30</td>
<td>0,13</td>
<td>2400</td>
<td>310</td>
<td>36</td>
<td>0,92</td>
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Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
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<tr>
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Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
AXIAL DECORATIVE FANS

VENTS Modern Series

Axial fans for exhaust ventilation with the capacity up to 310 m³/h

Applications

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The front panel from organic glass.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP 34.

Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options

- Modern K – fan is equipped with a backdraft damper for back flow preventing.
- Modern L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- Modern turbo – high-powered motor.

- Modern 12 – modification with low-voltage motor. 12 V AC power supply.
- Modern T – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- Modern TH – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90%.
- Modern V – equipped with a pull cord switch.
- Modern VT – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.

Control

Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TR, VT, VTH modification.

Automatic:

- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Accessories

- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
## Aerodynamic characteristics

![Aerodynamic characteristics graph](image)

## Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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## Mounting example

![Mounting example](image)

## Overall dimensions

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<th>L [mm]</th>
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<td>157</td>
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## Certificates

![Certificates](image)

The fans meet the applicable safety and electromagnetic compatibility standards.
VENTS Modern Auto Series

Exhaust axial decorative fans with automatic louvre shutters with air capacity up to 345 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- Front panel is made of white or black organic glass.
- The fan and motor are specially designed for silent operation.
- The impeller design enhances the fan efficiency and prolongs the motor service life.
- Protection rating IP 24

Motor
- Reliable motor with low energy demand
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and options
Modern Auto L - the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
Modern Auto turbo - high-powered motor.
Modern Auto press - 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.
Modern Auto 12 - equipped with a reliable low-voltage motor, 12 V.
Modern Auto T - equipped with a turn-off delay timer adjustable from 2 to 30 minutes.
Modern Auto TH - equipped with a turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.
Modern Auto V - equipped with a pull cord switch.
Modern Auto VT - equipped with a pull cord switch and a turn-off delay timer adjustable from 2 to 30 minutes.
Modern Auto VTH - equipped with a pull cord switch, turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.

Control
Manual:
- The fan is controlled with a room light switch (not included into delivery set).
- The fan is controlled with a built-in pull cord switch "V". This option is not applicable for ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers cannot be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- Speed control with a an electronic control unit BU-1-60, refer Electric accessories. The control unit is available upon separate order.
- Fan control with a turn-off delay timer "T" that enables fan running from 2 to 30 minutes after turning the fan off.
- Fan control with a humidity sensor and turn-off delay timer "TH" that enables fan switching on and running until the indoor humidity drops below the set point adjustable from 60% to 90% and subsequent fan running within the set time before turning off.

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing with screws.
- Suitable for ceiling mounting.
- The step-down transformer (TRF 220/12-25) enables connection of a low-voltage fan 12 V / 50 Hz to 220 V / 50 Hz power mains. Available upon separate order.

Mounting:
- Suitable for ceiling mounting.
- The step-down transformer (TRF 220/12-25) enables connection of a low-voltage fan 12 V / 50 Hz to 220 V / 50 Hz power mains. Available upon separate order.

Accessories
- Air ducts
- Grilles and hoods
- Back valves
- Speed controllers
- Control unit
- Transformer
- Clamps

Architectural fans with automatic change of the airflow direction
- Suitable for remote ventilation shaft connections. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing with screws.
- Suitable for ceiling mounting.
- The step-down transformer (TRF 220/12-25) enables connection of a low-voltage fan 12 V / 50 Hz to 220 V / 50 Hz power mains. Available upon separate order.

Modern Auto L
- The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- Protection rating IP 24

Modern Auto turbo
- High-powered motor.

Modern Auto press
- 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.

Modern Auto 12
- Equipped with a reliable low-voltage motor, 12 V.

Modern Auto T
- Equipped with a turn-off delay timer adjustable from 2 to 30 minutes.

Modern Auto TH
- Equipped with a turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.

Modern Auto V
- Equipped with a pull cord switch.

Modern Auto VT
- Equipped with a pull cord switch and a turn-off delay timer adjustable from 2 to 30 minutes.

Modern Auto VTH
- Equipped with a pull cord switch, turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.
### Aerodynamic characteristics

![Graphs showing aerodynamic characteristics of VENTS fans.](image)

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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<tbody>
<tr>
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<td>18</td>
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<td>307</td>
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<td>1,31</td>
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</table>

### Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ø D B H L L1</td>
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<tr>
<td>VENTS 100 Modern Auto</td>
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<tr>
<td>VENTS 125 Modern Auto</td>
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<tr>
<td>VENTS 150 Modern Auto</td>
<td>150 242 242 139 81</td>
</tr>
</tbody>
</table>

### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
Design
- Modern design and original look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- Front panel is made of white, black or red organic glass in various combinations.
- The impeller design enhances the fan efficiency and prolongs the motor service life.
- Protection rating IP 34.

Motor
- Reliable motor with low energy demand.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and options
- Domino K – the fan is equipped with a back valve to prevent air backdrafting.
- Domino L – the motor is equipped with ball bearings for long service life (approx. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- Domino turbo – high-powered motor.
- Domino 12 – equipped with a reliable low-voltage motor, 12 V.
- Domino T – equipped with a turn-off delay timer adjustable from 2 to 30 minutes.
- Domino TH – equipped with a turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.
- Domino V – equipped with a pull cord switch.
- Domino VT – equipped with a pull cord switch and a turn-off delay timer adjustable from 2 to 30 minutes.
- Domino VTH – equipped with a pull cord switch, turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60% to 90%.

Control
Manual:
- The fan is controlled with a room light switch (not included into delivery set).
- The fan is controlled with a built-in pull cord switch "V". This option is not applicable for ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- Speed control with a an electronic control unit BU-1-60, refer the Electric accessories. The control unit is available upon separate order.
- Fan control with a turn-off delay timer "T" that enables fan running from 2 to 30 minutes after turning the fan off.
- Fan control with a humidity sensor and turn-off delay timer "TH" that enables fan switching on and running until the indoor humidity drops below the set point adjustable from 60% to 90% and subsequent fan running within the set time before turning off.

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing to wall with screws.
- Suitable for ceiling mounting.
- The step-down transformer (TRF 220/12-25) enables connection of a low-voltage fan 12 V / 50 Hz to 220 V / 50 Hz power mains. Available upon separate order.

Accessories
- Air ducts
- Grilles and hoods
- Back valves
- Controllers
- Control unit
- Transformer
- Clamps
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
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<td>220-240</td>
<td>14</td>
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Overall dimensions

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</table>

Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial design fans for exhaust ventilation with the capacity up to 358 m³/h

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**
- Modern design and aesthetic look.
- The polished steel front panel with various ornamental modifications.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP 24.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**
- **Z L** – The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **Z turbo** – high-powered motor.
- **Z 12** – modification with low-voltage motor. 12 V AC power supply.

**Control**
**Manual:**
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TR, VT, VTH modification.

**Automatic:**
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

**Front panel modifications**

Z 1  Z 2  Z 3  Z 4  Z 5  Z 6

**Accessories**
- **Air ducts**
- **Grilles and hoods**
- **Backdraft damper**
- **Speed controllers**
- **Clamps**
### Aerodynamic characteristics

![Aerodynamic characteristics](image1.png)

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 Z</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
<td>0,085</td>
<td>2300</td>
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<td>VENTS 100 Z turbo</td>
<td>50/60</td>
<td>220-240</td>
<td>16</td>
<td>0,1</td>
<td>2300</td>
<td>135</td>
<td>38</td>
<td>0,41</td>
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<tr>
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<td>220-240</td>
<td>14</td>
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<td>2200</td>
<td>92</td>
<td>36</td>
<td>0,40</td>
</tr>
<tr>
<td>VENTS 125 Z turbo</td>
<td>50/60</td>
<td>220-240</td>
<td>16</td>
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<td>2400</td>
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<td>0,48</td>
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<td>2300</td>
<td>165</td>
<td>37</td>
<td>0,46</td>
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<tr>
<td>VENTS 150 Z</td>
<td>50/60</td>
<td>220-240</td>
<td>24</td>
<td>0,13</td>
<td>2400</td>
<td>298</td>
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<td>0,80</td>
</tr>
<tr>
<td>VENTS 150 Z turbo</td>
<td>50/60</td>
<td>220-240</td>
<td>29</td>
<td>0,13</td>
<td>2400</td>
<td>358</td>
<td>44</td>
<td>0,80</td>
</tr>
<tr>
<td>VENTS 150 Z turbo (220-240 В/60 Hz)</td>
<td>60</td>
<td>220-240</td>
<td>29</td>
<td>0,13</td>
<td>2400</td>
<td>358</td>
<td>44</td>
<td>0,80</td>
</tr>
<tr>
<td>VENTS 150 Z 12</td>
<td>50/60</td>
<td>220-240</td>
<td>29</td>
<td>2</td>
<td>2300</td>
<td>266</td>
<td>39</td>
<td>0,76</td>
</tr>
<tr>
<td>VENTS 150 Z (220-240 В/60 Hz)</td>
<td>60</td>
<td>220-240</td>
<td>29</td>
<td>2</td>
<td>2300</td>
<td>266</td>
<td>39</td>
<td>0,76</td>
</tr>
</tbody>
</table>

### Mounting example

![Mounting example](image2.png)

### Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ø D B H L L1</td>
</tr>
<tr>
<td>VENTS 100 Z</td>
<td>100 181 120 143 56</td>
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<tr>
<td>VENTS 125 Z</td>
<td>125 208 140 143 56</td>
</tr>
<tr>
<td>VENTS 150 Z</td>
<td>150 231 165 166 56</td>
</tr>
</tbody>
</table>

### Certificates

![Certificates](image3.png)

The fans meet the applicable safety and electromagnetic compatibility standards.
**Design**
- The polished steel front panel with various ornamental modifications.
- A 2 W LED lamp is integrated into the fan casing.
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP 24.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**
- **Z star K** – fan is equipped with a backdraft damper for back flow preventing.
- **Z star L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **Z star turbo** – high-powered motor.
- **Z star 12** – modification with low-voltage motor. 12 V AC power supply.
- **Z star T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- **Z star TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90%.

*only for Ø 100 mm fans

**Control**
**Manual:**
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

**Automatic:**
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
- By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Both parallel or separate switching of the fan and the built-in lamp (refer wiring diagrams).
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

**Front panel modifications**

**Z star 1**

**Z star 2**

**Z star 3**

**Z star 4**

**Z star 5**

**Z star 6**

**Accessories**
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
Aerodynamic characteristics

![Graphs showing aerodynamic characteristics for different models of VENTS fans.]

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 Z star</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
<td>0,085</td>
<td>2300</td>
<td>89</td>
<td>33</td>
<td>0,61</td>
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<td>50/60</td>
<td>220-240</td>
<td>16</td>
<td>0,1</td>
<td>2300</td>
<td>116</td>
<td>36</td>
<td>0,69</td>
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<td>0,83</td>
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<td>0,94</td>
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<td>2400</td>
<td>302</td>
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</tr>
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<td>230</td>
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<td>0,90</td>
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</tbody>
</table>

Mounting example

![Image showing a mounting example of a VENTS fan.]

Overall dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>ØD B H L L1</td>
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</tr>
<tr>
<td>VENTS 100 Z star</td>
<td>100 181 120 148 56</td>
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<tr>
<td>VENTS 125 Z star</td>
<td>125 204 140 154 56</td>
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<td>VENTS 150 Z star</td>
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<td>VENTS 100 Z star T</td>
<td>98 183 122 151 65</td>
</tr>
<tr>
<td>VENTS 100 Z star TH</td>
<td>98 183 122 151 65</td>
</tr>
</tbody>
</table>

Certificates

![Certification logos and IP 24 mark.]

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial design fans for exhaust ventilation with the capacity up to 358 m³/h

- **Design**
  - The glass front panel with various ornamental modifications.
  - Modern design and aesthetic look.
  - The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
  - The intellectual impeller design makes the fan efficiency high and the service life long.
  - Protection rating IP 24.

- **Motor**
  - Reliable and low-watt electric motor.
  - Designed for continuous operation and requires no maintenance.
  - Equipped with overheating protection.

- **Modifications and Options**
  - **Vitro L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
  - **Vitro turbo** – high-powered motor.
  - **Vitro 12** – modification with low-voltage motor. 12 V AC power supply.

- **Control**
  - **Manual:**
    - The fan is controlled by a room light switch. It is not included in the delivery package.
    - Speed control is possible through a thyristor speed controller (see Electrical Accessories).
    - Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.
  - **Automatic:**
    - By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

- **Mounting features**
  - The fan is mounted directly into the ventilation shaft.
  - Flexible duct application is recommended in case of remote location of the ventilation shaft.
  - The air duct is connected to the fan exhaust flange through a clamp.
  - Fixed to wall by self-tapping screws.
  - For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

- **Front panel modifications**
  - Vitro 1
  - Vitro 2
  - Vitro 3
  - Vitro 4
  - Vitro 5
  - Vitro 6

- **Applications**
  - Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
  - Ventilation shaft mounting or duct connection.
  - Low to medium air flow motion for short distances at low air resistance.
  - Compatible with Ø 100, 125 and 150 mm air ducts.

---

**Accessories**

- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
**Aerodynamic characteristics**

![Graphs showing aerodynamic characteristics of VENTS fans]

**Technical data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 Vitro</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
<td>0,085</td>
<td>2300</td>
<td>105</td>
<td>37</td>
<td>0,41</td>
</tr>
<tr>
<td>VENTS 100 Vitro turbo</td>
<td>50/60</td>
<td>220-240</td>
<td>16</td>
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<td>2300</td>
<td>135</td>
<td>38</td>
<td>0,41</td>
</tr>
<tr>
<td>VENTS 125 Vitro</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
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<td>2200</td>
<td>92</td>
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<td>2400</td>
<td>243</td>
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<tr>
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<tr>
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<td>24</td>
<td>0,13</td>
<td>2400</td>
<td>358</td>
<td>44</td>
<td>0,80</td>
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<tr>
<td>VENTS 150 Vitro turbo</td>
<td>50</td>
<td>220-240</td>
<td>29</td>
<td>0,13</td>
<td>2400</td>
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<td>358</td>
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<td>0,80</td>
</tr>
<tr>
<td>VENTS 150 Vitro</td>
<td>50</td>
<td>12</td>
<td>29</td>
<td>2</td>
<td>2300</td>
<td>266</td>
<td>39</td>
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<tr>
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<td>0,13</td>
<td>2400</td>
<td>358</td>
<td>44</td>
<td>0,80</td>
</tr>
<tr>
<td>VENTS 150 Vitro turbo</td>
<td>50</td>
<td>12</td>
<td>29</td>
<td>2</td>
<td>2300</td>
<td>266</td>
<td>39</td>
<td>0,76</td>
</tr>
</tbody>
</table>

**Mounting example**

![Mounting example of a VENTS fan]

**Overall dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ØD</td>
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<tr>
<td>VENTS 100 Vitro</td>
<td>100</td>
</tr>
<tr>
<td>VENTS 125 Vitro</td>
<td>125</td>
</tr>
<tr>
<td>VENTS 150 Vitro</td>
<td>150</td>
</tr>
</tbody>
</table>

**Certificates**

![Certificates icon]

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial design fans for exhaust ventilation with the capacity up to 302 m³/h

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**
- The glass front panel with various ornamental modifications.
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- A 2 W LED lamp is integrated into the fan casing.
- Protection rating IP 24.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**
- **Vitro star K** – fan is equipped with a backdraft damper for back flow preventing.
- **Vitro star L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **Vitro star turbo** – high-powered motor.
- **Vitro star 12** – modification with low-voltage motor. 12 V AC power supply.
- **Vitro star T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.
- **Vitro star TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90%.

* only for 100 mm fans

**Control**
- **Manual:**
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TR, VT, VTH modification.
- **Automatic:**
  - By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
  - By the timer **T** (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
  - By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Both parallel or separate switching of the fan and the built-in lamp (refer wiring diagrams).
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer **TRF 220/12-25** that is available upon separate order.

**Front panel modifications**
- **Vitro star 1**
- **Vitro star 2**
- **Vitro star 3**
- **Vitro star 4**
- **Vitro star 5**
- **Vitro star 6**

**Accessories**
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
**Aerodynamic characteristics**

**Technical data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTS 100 Vitro star</td>
<td>50/60</td>
<td>220-240</td>
<td>14</td>
<td>0,085</td>
<td>2300</td>
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<td>0,1</td>
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<td>2400</td>
<td>258</td>
<td>37</td>
<td>0,94</td>
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<td>60</td>
<td>220-240</td>
<td>29</td>
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<td>2400</td>
<td>302</td>
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<tr>
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<td>50</td>
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<td>29</td>
<td>0,13</td>
<td>2400</td>
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<tr>
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<td>0,90</td>
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</table>

**Certificates**

The fans meet the applicable safety and electromagnetic compatibility standards.

**Overall dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
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<td></td>
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<tr>
<td>VENTS 150 Vitro star</td>
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</table>
**AXIAL DECORATIVE FANS**

**VENTS X Series**

Axial decorative fans for exhaust ventilation with the capacity up to 302 m³/h

**Applications**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Decorative replaceable colour covers: light blue, bright green, yellow and pink.
- Protection rating IP 24.

**Motor**
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**
- **X alumat** – fan with a matt gray painted front plate.
  - **X K** – fan is equipped with a backdraft damper for back flow preventing.
  - **XL** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
  - **X turbo** – high-powered motor.

**Accessories**
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps

**Applications**
- **Design**
  - Modern design and aesthetic look.
  - The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
  - The intellectual impeller design makes the fan efficiency high and the service life long.
  - Decorative replaceable colour covers: light blue, bright green, yellow and pink.
- **Motor**
  - Reliable and low-watt electric motor.
  - Designed for continuous operation and requires no maintenance.
  - Equipped with overheating protection.
- **Modifications and Options**
  - **X alumat** – fan with a matt gray painted front plate.
  - **X K** – fan is equipped with a backdraft damper for back flow preventing.
  - **XL** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
  - **X turbo** – high-powered motor.

**Application**
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Control**
- **Manual**:
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - The fan is controlled by the built-in pull cord switch V. Not applied in case of ceiling mounting.
  - Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.
  - **Automatic**:
    - The fan is controlled by the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off.
    - By the humidity sensor and timer TH (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

**Mounting features**
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.
Aerodynamic characteristics

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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<td>220-240</td>
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<td>2400</td>
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<td>39</td>
<td>1,08</td>
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<tr>
<td>VENTS 150 X turbo (220-240 В/60 Hz)</td>
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<td>VENTS 150 X 12</td>
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<td>29</td>
<td>2</td>
<td>2300</td>
<td>230</td>
<td>36</td>
<td>0,90</td>
</tr>
</tbody>
</table>

Mounting example

Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
Axial decorative fans for exhaust ventilation with the capacity up to 302 m³/h

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- A 2 W LED lamp is integrated into the fan casing.
- Protection rating IP 24.

Motor
- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and Options
X star alumat – fan with a matt gray painted front plate.
X star K – fan is equipped with a backdraft damper for back flow preventing.
X star L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
X star turbo – high-powered motor.
X star 12 – modification with low-voltage motor. 12 V AC power supply.

Control
Manual:
- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

Automatic:
- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- Both parallel or separate switching of the fan and the built-in lamp (refer wiring diagrams).
- For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

Accessories
- Air ducts
- Grilles and hoods
- Backdraft damper
- Speed controllers
- Clamps
### Aerodynamic characteristics

![Aerodynamic characteristics graph]

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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<tbody>
<tr>
<td>VENTS 100 X star</td>
<td>50/60</td>
<td>220-240</td>
<td>16</td>
<td>0,085</td>
<td>2300</td>
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<td>302</td>
<td>39</td>
<td>1,08</td>
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### Overall dimensions

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<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
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<tr>
<td>VENTS 125 X star</td>
<td>125 177 140 143 42</td>
</tr>
<tr>
<td>VENTS 150 X star</td>
<td>150 205 165 160 42</td>
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### Certificates

![Certificates]

The fans meet the applicable safety and electromagnetic compatibility standards.
Exhaust axial fan with integrated light source.
Air capacity up to 115 m³/h

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with 100 mm air ducts.

Design
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The impeller design enhances the fan efficiency and prolongs the motor service life.
- The 10 watt LED backlight lamp is integrated in the casing with a working life of 40 000 hours.
- The lamp colour temperature is 3000 K (warm light).
- Protection rating IP 24

Motor
- Reliable motor with low energy demand.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

Modifications and options
- **Lumis 100 K** – the fan is equipped with a back valve to prevent air back drafting.
- **Lumis 100 L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- **Lumis 100 turbo** – high-powered motor.

Control
Manual:
- The fan is controlled with a room light switch (not included in the delivery).
- Speed control with a thyristor speed controller, refer to the Electric accessories. Several fans may be connected to one controller.

Automatic:
- Speed control with a an electronic control unit BU-1-60, refer to the Electric accessories. The control unit is available upon separate order.

Mounting features
- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing to wall with screws.
- Suitable for ceiling mounting.

Applications
- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with 100 mm air ducts.
### Aerodynamic characteristics

![Aerodynamic characteristics graph]

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Current [A]</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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<tbody>
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<td>115</td>
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</table>

### Mounting example

![Mounting example image]

### Overall dimensions

<table>
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<tr>
<th>Model</th>
<th>Dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>VENTS Lumis 100</td>
<td>178 99,4 133,5 46</td>
</tr>
<tr>
<td>VENTS Lumis 100 turbo</td>
<td>178 99,4 133,5 46</td>
</tr>
</tbody>
</table>

### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.
AXIAL WINDOW FANS

VENTS MAO1 and VENTS MAO1 reverse Series
Axial window fan with automatic louver shutters for exhaust ventilation with the capacity up to 345 m³/h.
Axial window reverse fan with automatic louver shutters for exhaust ventilation with the capacity up to 202 m³/h.

VENTS MAO2 Series
Axial window fan with automatic louver shutters for exhaust ventilation with the capacity up to 232 m³/h. The fan is equipped with an external hood.

VENTS M10K2 Series
Axial window fan with a backdraft damper for exhaust ventilation with the capacity up to 232 m³/h. The fan is equipped with an external hood.

VENTS VV Series
Axial window fan with automatic louver shutters for exhaust ventilation with the capacity up to 455 m³/h. Flange mounting sizes 180 mm and 230 mm.

VENTS VVR Series
Axial window fan with automatic louver shutters and reversing motor for exhaust or supply ventilation with the capacity up to 455 m³/h. Flange mounting sizes 180 mm and 230 mm.
### Axial window fans

**VENTS MAO1 Series**
- Air capacity up to 345 m³/h
  - Page 114

**VENTS MAO2 Series**
- Air capacity up to 232 m³/h
  - Page 114

**VENTS MAO1 reverse**
- Air capacity up to 202 m³/h
  - Page 116

**VENTS M1OK2 Series**
- Air capacity up to 232 m³/h
  - Page 118

**VENTS VV Series**
- Air capacity up to 455 m³/h
  - Page 120

**VENTS VVR Series**
- Air capacity up to 455 m³/h
  - Page 120
### AXIAL WINDOW FANS

#### VENTS MAO1 Series
Axial window fans for exhaust ventilation with the capacity up to 345 m³/h

#### VENTS MAO2 Series
Axial window fans for exhaust ventilation with the capacity up to 232 m³/h

- **Applications**
  - Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
  - For mounting in windows.
- **Design**
  - Modern design and aesthetic look.
  - The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
  - The intellectual impeller design makes the fan efficiency high and the service life long.
  - The fan and motor are specially designed for silent operation.
  - Fan is equipped with a thermal actuator that provides smooth opening and shutting of automatic louver shutters for air back flow preventing.
  - MAO2 Series fans are equipped with an external hood.
  - Protection rating IP 24.
- **Motor**
  - Reliable and low-watt electric motor.
  - Designed for continuous operation and requires no maintenance.
  - Equipped with overheating protection.
- **Modifications and Options**
- MAO1 L / MAO2 L – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.
- MAO1 turbo / MAO2 turbo – high-powered motor.
- **Control**
  - Manual:
    - The fan is controlled by a room light switch. It is not included in the delivery package.
    - The fan is controlled by the built-in pull cord switch V.
    - Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.
  - Automatic:
    - By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
    - By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- **Mounting features**
  - The fan is mounted directly into the window opening.
  - For 12 V low-voltage motor fan connection to 220 V / 50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

#### Control
- Manual:
  - The fan is controlled by a room light switch. It is not included in the delivery package.
  - The fan is controlled by the built-in pull cord switch V.
  - Speed control is possible through a thyristor speed controller (see Electrical Accessories).
- Automatic:
  - By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.
  - By the timer T (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).

#### Accessories
- **Speed controllers**
- **Back side of MAO2 fan**
- **Fan OFF - louver shutters CLOSED**
- **Fan ON - louver shutters OPEN**
- **Ventilation units**
  - MAO1 12 / MAO2 12 – modification with low-voltage motor. 12 V AC power supply.
  - MAO1 T / MAO2 T – equipped with a regulated timer with the operating time from 2 to 30 minutes.
  - MAO1 V / MAO2 V – equipped with a pull cord switch.
  - MAO1 VT / MAO2 VT – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.
### Aerodynamic characteristics

![Aerodynamic characteristics graph](image)

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency [Hz]</th>
<th>Voltage [V]</th>
<th>Power Consumption [W]</th>
<th>Tor, A</th>
<th>R.p.m.</th>
<th>Maximum air capacity [m³/h]</th>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>SEC class</th>
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### Overall dimensions

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### Mounting examples

![Mounting examples](image)

### Certificates

![Certificates](image)