**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

### 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 (appr. 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%.

### 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. 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**

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**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**
- **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°.

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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>
<th>Sound Pressure Level at 3 m [dB(A)]</th>
<th>Weight [kg]</th>
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<tbody>
<tr>
<td>VENTS 100 MA</td>
<td>50/60</td>
<td>220-240</td>
<td>18</td>
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Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.