

VENTS VKO1 Series



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

Application

- 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 IPX4.

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 turn-off delay 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

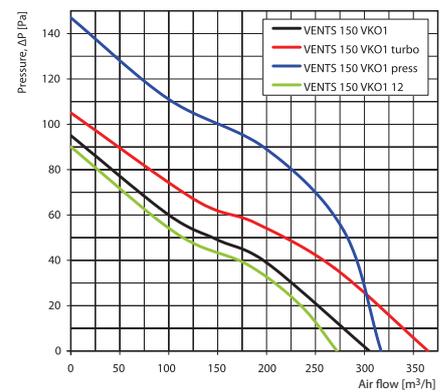
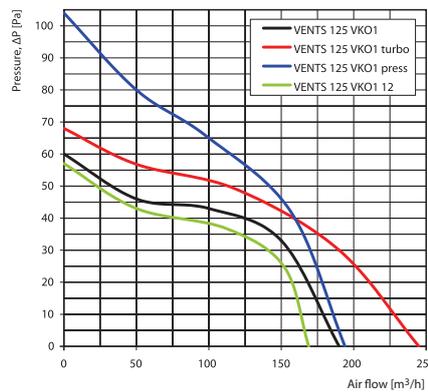
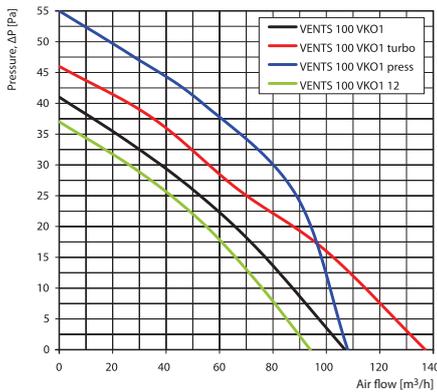


VKO1 fan flat ventilation example

Accessories



Aerodynamic characteristics



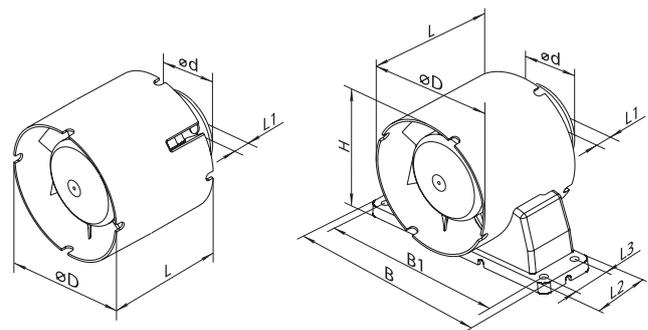
Technical data

| Model | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|------------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 VKO1 | 50 | 220-240 | 14 | 0.085 | 2300 | 107 | 36 | 0.41 |
| VENTS 100 VKO1 (220 V/60 Hz) | 60 | 220 | | | | | | |
| VENTS 100 VKO1 turbo | 50 | 220-240 | 16 | 0.1 | 2300 | 137 | 37 | 0.49 |
| VENTS 100 VKO1 turbo (220 V/60 Hz) | 60 | 220 | | | | | | |
| VENTS 100 VKO1 press | 50 | 220-240 | 16 | 0.1 | 2300 | 108 | 39 | 0.41 |
| VENTS 100 VKO1 press (220 V/60 Hz) | 60 | 220 | | | | | | |
| VENTS 100 VKO1 12 | 50 | 12 | 14 | 1.5 | 2200 | 94 | 35 | 0.40 |
| VENTS 125 VKO1 | 50 | 220-240 | 16 | 0.1 | 2400 | 190 | 38 | 0.43 |
| VENTS 125 VKO1 (220 V/60 Hz) | 60 | 220 | | | | | | |
| VENTS 125 VKO1 turbo | 50 | 220-240 | 24 | 0.105 | 2400 | 245 | 39 | 0.51 |
| VENTS 125 VKO1 turbo (220 V/60 Hz) | 60 | 220 | | | | | | |
| VENTS 125 VKO1 press | 50 | 220-240 | 24 | 0.105 | 2400 | 194 | 39 | 0.43 |
| VENTS 125 VKO1 press (220 V/60 Hz) | 60 | 220 | | | | | | |
| VENTS 125 VKO1 12 | 50 | 12 | 16 | 1.7 | 2300 | 169 | 37 | 0.41 |
| VENTS 150 VKO1 | 50 | 220-240 | 29 | 0.13 | 2400 | 305 | 40 | 0.80 |
| VENTS 150 VKO1 (220 V/60 Hz) | 60 | 220 | | | | | | |
| VENTS 150 VKO1 press | 50 | 220-240 | 36 | 0.16 | 2400 | 317 | 42 | 0.80 |
| VENTS 150 VKO1 press (220 V/60 Hz) | 60 | 220 | | | | | | |
| VENTS 150 VKO1 12 | 50 | 12 | 24 | 2 | 2300 | 272 | 39 | 0.76 |

*Sound pressure level measured in free space at a distance of 3 meters from the fan.

Overall dimensions

| Model | Dimensions [mm] | | | | | | | | |
|-----------------|-----------------|----|-----|-----|-----|-----|----|----|----|
| | ∅D | ∅d | B | B1 | H | L | L1 | L2 | L3 |
| VENTS 100 VKO1 | 100 | 59 | - | - | - | 100 | 10 | - | - |
| VENTS 100 VKO1k | 100 | 59 | 160 | 144 | 110 | 100 | 10 | 45 | 29 |
| VENTS 125 VKO1 | 125 | 59 | - | - | - | 90 | 28 | - | - |
| VENTS 125 VKO1k | 125 | 59 | 185 | 169 | 125 | 90 | 28 | 45 | 29 |
| VENTS 150 VKO1 | 150 | 59 | - | - | - | 100 | 28 | - | - |
| VENTS 150 VKO1k | 150 | 59 | 200 | 184 | 162 | 100 | 28 | 45 | 29 |



Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.