

EN AXIAL FAN USER'S MANUAL

VENTS Simple





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THE UNIT IS NOT TO BE USED BY CHILDREN AND PERSONS WITH REDUCED PHYSICAL, MENTAL OR SENSORY CAPACITIES, WITHOUT PROPER PRACTICAL EXPERIENCE OR EXPERTISE, UNLESS THEY ARE CONTROLLED OR INSTRUCTED ON THE UNIT OPERATION BY THE PERSON(S) RESPONSIBLE FOR THEIR SAFETY. KEEP THE UNIT OUT OF REACH OF CHILDREN OR SUPERVISE THE CHILDREN TO AVOID THEIR PLAYING WITH THE UNIT.



This user's manual is a main operating document intended for technical, maintenance, and operating staff.

The manual contains information about purpose, technical details, operating principle, design, and installation of the VENTS Simple unit and all its modifications.

Technical and maintenance staff must have theoretical and practical training in the field of ventilation systems and should be able to work in accordance with workplace safety rules as well as construction norms and standards applicable in the territory of the country.

The information in this user's manual is correct at the time of the document's preparation.

The Company reserves the right to modify the technical characteristics, design, or configuration of its products at any time in order to incorporate the latest technological developments.

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READ THE USER'S MANUAL CAREFULLY BEFORE PROCEEDING WITH INSTALLATION WORKS.

COMPLIANCE WITH THE MANUAL REQUIREMENTS ENSURES RELIABLE OPERATION AND LONG

SERVICE LIFE OF THE UNIT.

KEEP THE USER'S MANUAL AVAILABLE AS LONG AS YOU USE THE UNIT. YOU MAY NEED TO RE-READ THE INFORMATION ON THE PRODUCT SERVICING.





FOLLOW THE USER'S MANUAL REQUIREMENTS TO ENSURE DURABLE AND TROUBLE-FREE OPERATION OF THE UNIT.

Disconnect the unit from power supply prior to any connection, servicing, maintenance, and repair operations.

Only qualified electricians with a work permit for electrical units up to 1000 V are allowed for installation and maintenance. The present user's manual should be carefully read before beginning works.

- Single-phase power mains must comply with the acting local electrical norms and standards.
- Fixed electrical wiring must be equipped with an automatic circuit breaker.
- The unit must be connected to power mains through a QF automatic circuit breaker integrated into the fixed wiring system. The gap between the circuit breaker contacts on all poles must be not less



than 3 mm. Check the unit for any visible damages of the impeller and the casing before starting installation. The casing internals must be free of any foreign objects that can damage the impeller blades.

- While mounting the unit, avoid compression of the casing! Deformation of the casing may result in the motor jam and noisy operation. Misuse of the unit and any unauthorised modifications are not allowed.
- Take steps to prevent ingress of smoke, carbon monoxide, and other combustion products into the room through open chimney flues or other fire-protection devices. Sufficient air supply must be provided for proper combustion and exhaust of gases through the chimney of fuel burning equipment to prevent back drafting. Transported air must not contain any dust or other solid impurities, sticky substances, or fibrous materials.
- Do not use the unit in a hazardous or explosive environment containing spirits, gasoline, insecticides, etc.
- Do not close or block the intake or extract vents in order to ensure the



efficient air flow.

- Do not sit on the unit and do not put objects on it.
- The unit is allowed to be used by children aged from 8 years old and above and persons with reduced physical, sensory, or mental capabilities or no experience and knowledge provided that they have been given supervision or instruction regarding safe use of the unit and understand the risks involved.
- Do not allow children to play with the unit.



THE PRODUCT MUST BE DISPOSED SEPARATELY AT THE END OF ITS SERVICE LIFE.

DO NOT DISPOSE THE UNIT AS UNSORTED DOMESTIC WASTE.



DELIVERY SET

Fan	— 1 рс.
Screws and dowels	— 4 pcs
Plastic screwdriver (only for the models with a timer)	— 1 pc.
User's manual	— 1 pc.
Packing box	— 1 pc.

BRIEF DESCRIPTION

The unit described herein is an axial fan for exhaust ventilation of small to medium-sized premises. The fan is made of white plastic. The fan design can also include a backdraft damper to prevent back flow when the fan is switched off. The fan is designed for connection to Ø 100, 120, 125 and 150 mm air ducts.

OPERATION GUIDELINES

The fan is rated for connection to single-phase AC 220-240 V/50 Hz, 220-240 V/60 Hz or 12 V/50 Hz power mains depending on the fan model (see information on the fan).

Air motion direction in the system must match the pointer on the fan casing.

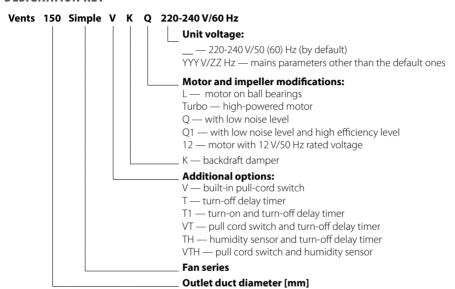
Ingress protection rating against access to hazardous parts and water ingress is IP34.

The fan is rated for operation at the ambient temperature ranging from +1 °C up to +40 °C.

The unit is rated as a Class II electrical appliance (220-240 V) or as a Class III electrical appliance (12 V).



DESIGNATION KEY





INSTALLATION AND SETUP

The fan is designed for wall or ceiling mounting with direct air exhaust to the ventilation shaft or into the round air duct of matching diameter (Fig. 2).

Fan installation sequence:

- **Step 1.** Cut off power supply and make sure electricity has been turned off (Fig. 3).
- Step 2. Run the power cable to the vent hole (Fig. 4).
- **Step 3.** Remove the fixing screw and the front panel of the fan (Fig. 5).
- **Step 4.** Remove the terminal block cover (Fig. 6).
- Step 5. Mark and drill holes for mounting the fan (Fig. 7-8).
- Step 6. Install the fan and connect to power mains (Fig. 9) according to the wiring diagram (Fig. 12-15).
- **Step 7.** Install the terminal block cover (Fig. 9) and the front panel on the fan casing (Fig. 10).
- **Step 8.** Supply power voltage to the fan (Fig. 11).

Terminal designations on wiring diagrams:

L — phase **S** — external switch

N — 0 **QF** — automatic circuit breaker

LT - control terminal

CAUTION! The fans rated for 12 V power voltage (stated on the packing box and on the fan casing) connect to 12 V power mains only!



ELECTRONICS OPERATION ALGORITHM

The fan with the timer T— the fan is started after actuation of the external switch, e.g. the light switch. The control voltage is supplied to the input terminal **LT (ST)**.

After the control voltage is off the fan continues to operate within the set time period adjustable from 2 to 30 minutes by the timer.

The **VT** model is turned on and off by the pull-cord switch.

The fan with the timer T1 — after turning on the switch, for example, a light switch, the fan is switched on in a set turn-on delay time period, adjustable from 0 to 2 minutes.

After the switch is turned off the fan keeps operating for a set turn-off delay time period, adjustable from 2 to 30 minutes.

The fan with the timer and the humidity sensor TH — the fan starts after the control voltage is supplied to the input terminal LT (by using a pull cord switch for VTH models) or if indoor humidity level H exceeds the set point adjustable from \sim 60 % to \sim 90 %.

After the control voltage is off (by using a pull cord switch for VTH models) or the humidity level has decreased the fan will keep running within the time set by the timer ranging from 2 to 30 minutes.

To set the maximum humidity setpoint 90 %, set the potentiometer to \mathbf{H}_{max} position.

To adjust the fan turn-on delay time, turn the control knob **T** clockwise to increase and counter-clockwise to decrease the turn-on delay time respectively.

To adjust the humidity set point turn the control knob \mathbf{H} clockwise to increase and counter-clockwise to decrease the humidity sensor set point.

CAUTION! The timer circuit is live! Disconnect the fan from power mains prior to any adjustment operations. The fan delivery set includes a specially designed plastic screwdriver for fan settings adjustments. Use it to change the turn-on and turn-off delay time and the humidity set point.

Do not use a metal screwdriver, knife, etc. for adjustment operations not to damage the circuit board.



DO NOT USE A METAL SCREWDRIVER, KNIFE, ETC. FOR ADJUSTMENT OPERATIONS NOT TO DAMAGE THE CIRCUIT BOARD.



TECHNICAL MAINTENANCE

The fan maintenance periodicity is at least once per 6 months.

Maintenance steps:

- Disconnect the fan from power supply and make sure electricity has been turned off (Fig. 16).
- Remove the front and the decorative panels, wipe the fan with a dry cloth or a brush (Fig. 17-18).
- Clean the front panel under running water (Fig. 19).
- Wipe the fan surfaces dry.
- · Cover the fan with the front panel (Fig. 20).
- · Connect power supply to the fan (Fig. 21).

CAUTION! Do not allow water or liquid come into contact with electric components!

STORAGE AND TRANSPORTATION REGULATIONS

- Store the unit in the manufacturer's original packaging box in a dry closed ventilated premise with temperature range from +5 °C to + 40 °C and relative humidity up to 70 %.
- Storage environment must not contain aggressive vapors and chemical mixtures provoking corrosion, insulation, and sealing deformation.
- · Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.
- Follow the handling requirements applicable for the particular type of cargo.
- The unit can be carried in the original packaging by any mode of transport provided proper protection against precipitation
 and mechanical damage. The unit must be transported only in the working position.
- · Avoid sharp blows, scratches, or rough handling during loading and unloading.
- Prior to the initial power-up after transportation at low temperatures, allow the unit to warm up at operating temperature for at least 3-4 hours.

PRODUCT SALES

The product is sold in specialized and retail trade organizations.



MANUFACTURER'S WARRANTY

The product is in compliance with EU norms and standards on low voltage guidelines and electromagnetic compatibility. We hereby declare that the product complies with the provisions of Electromagnetic Compatibility (EMC) Directive 2014/30/ EU of the European Parliament and of the Council, Low Voltage Directive (LVD) 2014/35/EU of the European Parliament and of the Council and CE-marking Council Directive 93/68/EEC. This certificate is issued following test carried out on samples of the product referred to above.

The manufacturer hereby warrants normal operation of the unit for 60 months after the retail sale date provided the user's observance of the transportation, storage, installation, and operation regulations. Should any malfunctions occur in the course of the unit operation through the Manufacturer's fault during the guaranteed period of operation, the user is entitled to get all the faults eliminated by the manufacturer by means of warranty repair at the factory free of charge. The warranty repair includes work specific to elimination of faults in the unit operation to ensure its intended use by the user within the guaranteed period of operation. The faults are eliminated by means of replacement or repair of the unit components or a specific part of such unit component.

The warranty repair does not include:

- · routine technical maintenance
- unit installation/dismantling
- unit setup

To benefit from warranty repair, the user must provide the unit, the user's manual with the purchase date stamp, and the payment paperwork certifying the purchase. The unit model must comply with the one stated in the user's manual. Contact the Seller for warranty service.

The manufacturer's warranty does not apply to the following cases:

- User's failure to submit the unit with the entire delivery package as stated in the user's manual including submission
 with missing component parts previously dismounted by the user.
- Mismatch of the unit model and the brand name with the information stated on the unit packaging and in the user's manual.
- User's failure to ensure timely technical maintenance of the unit.
- External damage to the unit casing (excluding external modifications as required for installation) and internal
 components caused by the user.



- · Redesign or engineering changes to the unit.
- · Replacement and use of any assemblies, parts and components not approved by the manufacturer.
- Unit misuse.
- Violation of the unit installation regulations by the user.
- Violation of the unit control regulations by the user.
- Unit connection to power mains with a voltage different from the one stated in the user's manual.
- Unit breakdown due to voltage surges in power mains.
- · Discretionary repair of the unit by the user.
- Unit repair by any persons without the manufacturer's authorization.
- Expiration of the unit warranty period.
- Violation of the unit transportation regulations by the user.
- Violation of the unit storage regulations by the user.
- Wrongful actions against the unit committed by third parties.
- Unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind, blockades).
- · Missing seals if provided by the user's manual.
- Failure to submit the user's manual with the unit purchase date stamp.
- Missing payment paperwork certifying the unit purchase.

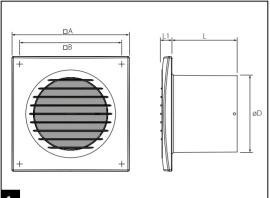


FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT.



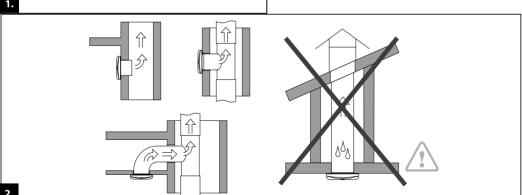
USER'S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE PURCHASE DATE STAMP.



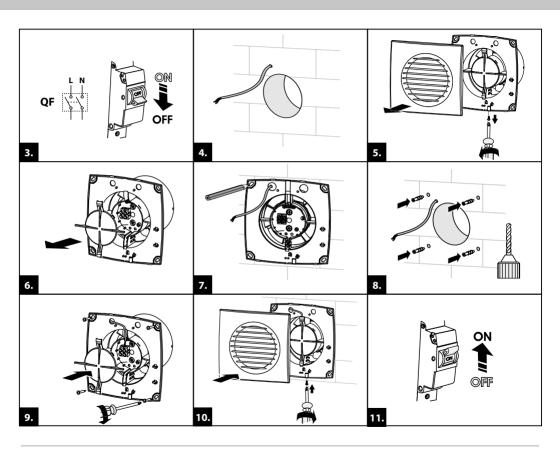


OVERALL DIMENSIONS [MM]

Model	Α	D	L	L1	В
100 VENTS Simple	150	100	97	15	125
120 VENTS Simple	175	120	94	15	140
125 VENTS Simple	175	125	101	15	140
150 VENTS Simple	205	150	119	13	165

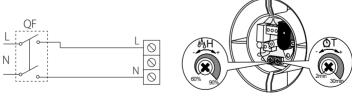






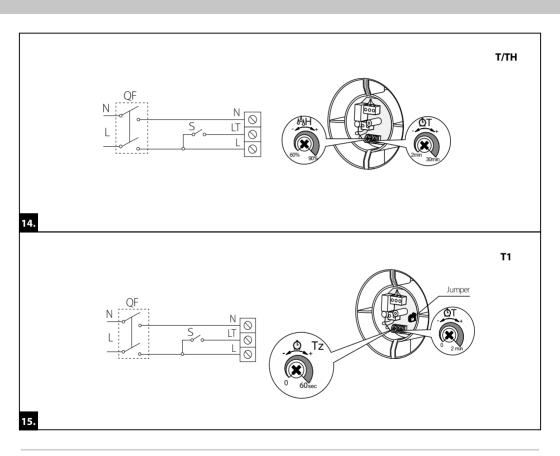


-/V 100 Simple V 100 Simple 12. VT/VTH

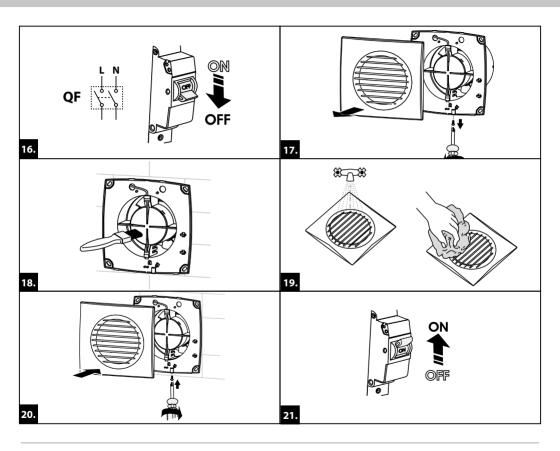


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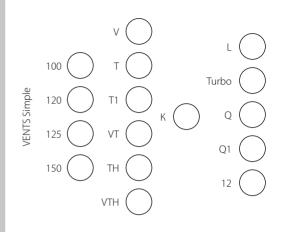






Quality Inspector's Stamp	Sold by (name and stamp of the seller)	
Manufacture Date	Purchase Date	

Certificate of acceptance



220-240 V/60 Hz

The fan is recognized as serviceable