



**AXIAL FAN  
USER'S MANUAL**

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**Vents D**



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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 D 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.



**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  
REREAD THE INFORMATION ON THE PRODUCT SERVICING.**

All user's manual requirements as well as the provisions of all the applicable local and national construction, electrical, and technical norms and standards must be observed when installing and operating the unit.

Disconnect the unit from the 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. The present user's manual should be carefully read before beginning works.**

Check the unit for any visible damage of the impeller, the casing, and the grille 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 motor jam and excessive noise.

Misuse of the unit and any unauthorised modifications are not allowed.

Do not expose the unit to adverse atmospheric agents (rain, sun, etc.).

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 information in this user's manual was 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.

Never touch the unit with wet or damp hands.

Never touch the unit when barefoot.

This unit is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the unit by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the unit.

Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appliances.

Connection to the mains must be made through a disconnecting device, which is integrated into the fixed wiring system in accordance with the wiring rules for design of electrical units, and has a contact separation in all poles that allows for full disconnection under overvoltage category III conditions.

Ensure that the unit is switched off from the supply mains before removing the guard.



**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  
Screws and dowels  
Plastic screwdriver (for models with a timer)  
User's manual  
Packing box

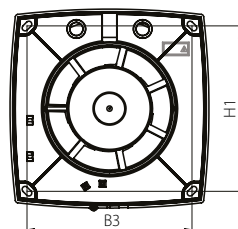
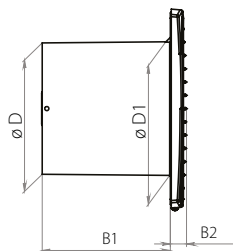
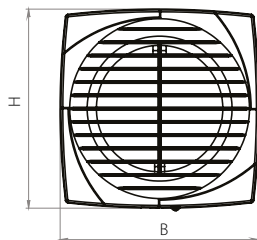
— 1 pc.  
— 4 pcs.  
— 1 pc.  
— 1 pc.  
— 1 pc.

## BRIEF DESCRIPTION

The unit described herein is an axial fan for exhaust ventilation of small to medium-sized premises heated during winter. 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 fits 100, 125, 150 mm air ducts.

### OVERALL DIMENSIONS

| Model       | ØD, mm | B, mm | H, mm | L, mm | L1, mm |
|-------------|--------|-------|-------|-------|--------|
| Vents 100 D | 100    | 150   | 120   | 108,5 | 12,5   |
| Vents 125 D | 125    | 176   | 140   | 114   | 12,5   |
| Vents 150 D | 150    | 205   | 165   | 132   | 13     |



## OPERATION GUIDELINES

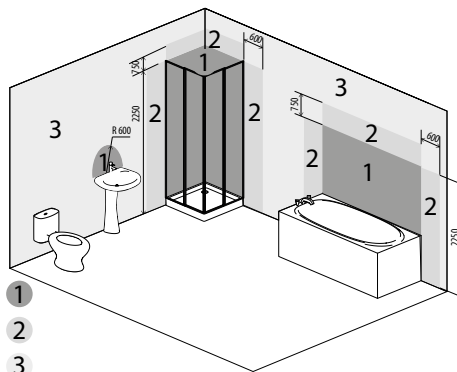
The fan is rated for connection to single-phase AC 127 V/60 Hz or 220 V/60 Hz power mains. Air motion direction in the system must match the pointer on the fan casing.

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.

The unit with a protection rating against access to hazardous parts and water ingress IP34 is allowed to be installed in zone 2, according to IEC 60364-7-701:2019.



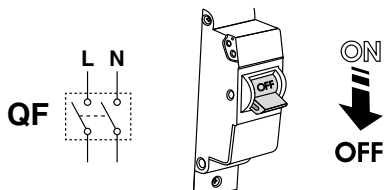
## DESIGNATION KEY

|     |   |                              |
|-----|---|------------------------------|
| 100 | D | (127-220 V/60 Hz)            |
|     |   | Voltage                      |
|     |   | Fan series                   |
|     |   | Exhaust spigot diameter [mm] |

## INSTALLATION AND SET-UP

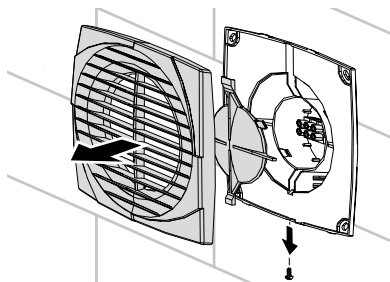
Fan installation sequence:

Cut off power supply and make sure electricity has been turned off.



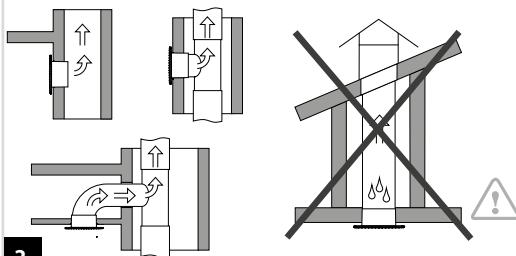
1.

Remove the front panel from the fan. Then remove the terminal block cover.



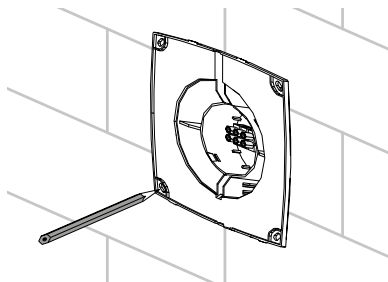
3.

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.



2.

Mark holes for mounting the fan.

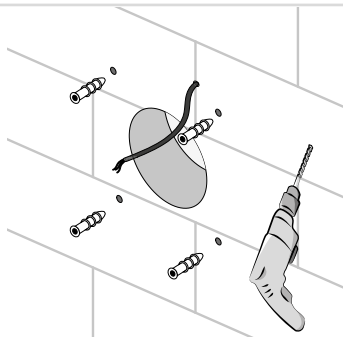


4.



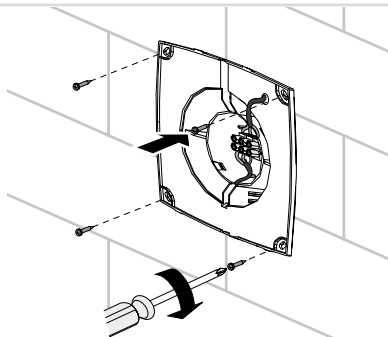
Lead the power cable to the ventilation hole, drill the mounting holes and install the dowels.

5.



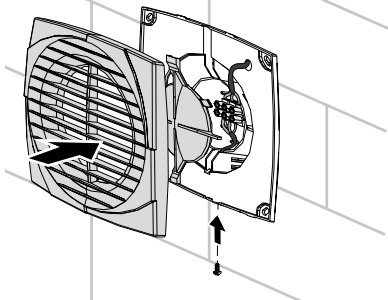
Install the front panel to the fan casing.

6.

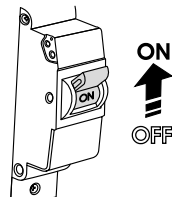


Supply power voltage to the fan.

7.



8.



## CONNECTION TO POWER MAINS

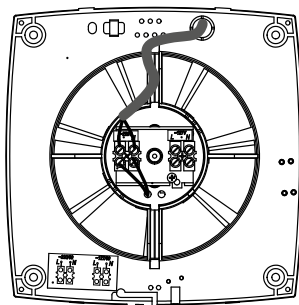
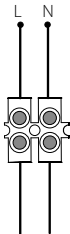
The fan is rated for connection to single-phase AC 127 V/60 Hz or 220 V/60 Hz power mains.

### Terminal designations on the wiring diagram:

**L** — Line for 127 V or 220 V power mains

**N** — Neutral

~220 V/60 Hz



~127 V/60 Hz

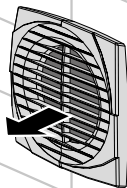
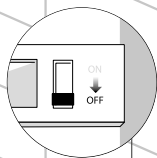


## TECHNICAL MAINTENANCE

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

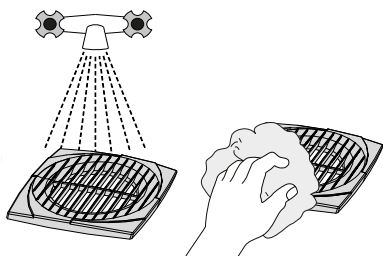
Maintenance steps:

Disconnect the fan from power supply and make sure electricity has been turned off. Remove the front panel.



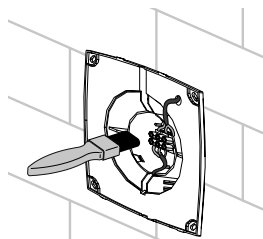
1.

Wash the front panel under running water.  
Wipe the fan surfaces dry.



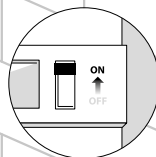
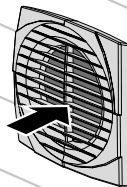
3.

Clean the fan with a soft dry cloth or a brush.



2.

Attach the decorative and front panel to the fan. Connect power supply.



4.

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

## TROUBLESHOOTING

| Problem                                                                                                  | Possible reasons                                        | Troubleshooting                                                                                      |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| When the unit is connected to power mains, the fan does not rotate and does not respond to any controls. | No power supply.                                        | Make sure the power supply line is connected correctly, otherwise troubleshoot the connection error. |
|                                                                                                          | Internal connection fault.                              | Contact the Seller.                                                                                  |
| Low air flow.                                                                                            | The ventilation system is clogged.                      | Clean the ventilation system.                                                                        |
| Increased noise, vibration.                                                                              | The impeller is clogged.                                | Clean the impeller.                                                                                  |
|                                                                                                          | The fan is not secured well or is not mounted properly. | Troubleshoot the installation error.                                                                 |
|                                                                                                          | The ventilation system is clogged.                      | Clean the ventilation system.                                                                        |

## 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.

## 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 dismantled 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.

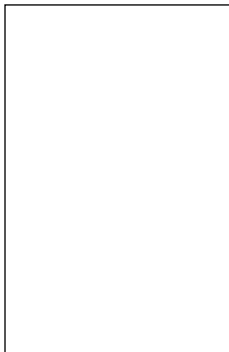


**FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT.**

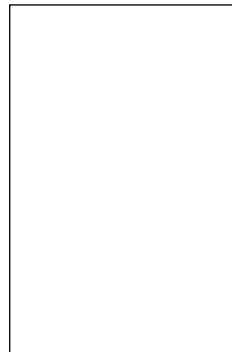


**USER'S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE PURCHASE DATE STAMP.**

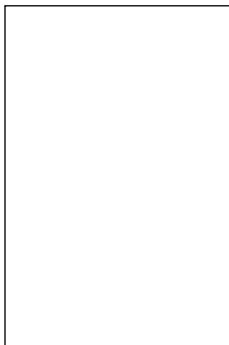
Quality Inspector's Stamp



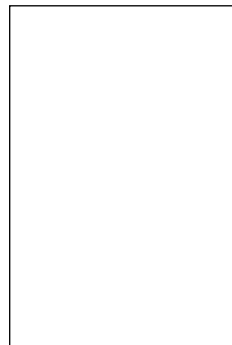
Sold by  
(name and stamp of the seller)



Manufacture Date



Purchase Date



## Certificate of acceptance

Vents D \_\_\_\_\_

The fan is recognized as serviceable.