



Quiet



Quiet-Mild



Quiet-Disc



AXIAL FANS
User's manual

www.ventilation-system.com



CONTETNT

| | |
|---|----|
| Delivery set..... | 8 |
| Brief description | 8 |
| Operation guidelines | 8 |
| Designation key | 9 |
| Installation..... | 9 |
| Fan operation setup..... | 10 |
| Operation indication | 12 |
| Technical maintenance..... | 13 |
| Troubleshooting..... | 13 |
| Storage and transportation regulations..... | 14 |
| Manufacturer's warranty | 15 |

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 Quiet 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.**

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.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Cleaning and user maintenance shall not be made by children without supervision.

Children shall not play with the appliance.

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.

The appliance may adversely affect the safe operation of appliances burning gas or other fuels (including those in other rooms) due to back flow of combustion gases. These gases can potentially result in carbon monoxide poisoning. After installation of the unit the operation of flued gas appliances should be tested by a competent person to ensure that back flow of combustion gases does not occur.

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.

All operations described in this manual must be performed by qualified personnel only, properly trained and qualified to install, make electrical connections and maintain ventilation units.

Do not attempt to install the product, connect it to the mains, or perform maintenance yourself.

This is unsafe and impossible without special knowledge.

Disconnect the power supply prior to any operations with the unit.

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.

Connection of the unit to power mains is allowed by a qualified

electrician with a work permit for the electric units up to 1000 V after careful reading of the present user's manual.

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.

BEFORE INSTALLING ADDITIONAL EXTERNAL DEVICES, READ THE RELEVANT USER MANUALS.



**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 pc.

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.

Sealing gasket – 1 pc.

BRIEF DESCRIPTION

The product is an axial fan for exhaust ventilation of small and medium-sized premises.

The fan is designed for connection to $\varnothing 150$ mm air ducts.

OPERATION GUIDELINES

The fan is rated for connection to single-phase AC power mains.

Power supply parameters are stated on the unit packaging and/or the label on the unit casing.

Ingress protection rating against access to hazardous parts and water ingress is IP45.

WARNING! The IP rating is indicated for an assembled unit.

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

WARNING! Do not operate the fan outside the specified temperature range.

The product meets Class II requirements to electric shock hazard protection (220-240 V, 50 Hz).

DESIGNATION KEY

Quiet 150 T

Additional options

V: pull cord switch
T: turn-off delay timer
VT: pull cord switch and turn-off delay timer
TH: humidity sensor and turn-off delay timer
VTH: pull cord switch and humidity sensor
TP: motion sensor

Outlet duct diameter [mm]

150

Fan series

Quiet/Quiet-Mild/Quiet-Disc
Quiet Extra/Quiet-Mild Extra/Quiet-Disc Extra*

*Extra – fans with a high-powered motor

INSTALLATION

The fan is designed for wall or ceiling mounting with direct air discharge to the ventilation shaft or into the round air duct of matching diameter (Fig. 2). Fan installation with direct air discharge upwards is not allowed (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 front panel from the fan. Then remove the circuit board cover (Fig. 5).

Step 4. Mark and drill holes for mounting the fan, fasten the sealing gasket, and then install the fan (Fig. 6-8).

Step 5. Connect the fan to power mains according to the wiring diagram (Fig. 12-20).

Step 6. Install the circuit board cover (Fig. 9) and the front panel on the fan casing (Fig. 10).

Step 7. Supply power voltage to the fan (Fig. 11).

TERMINAL DESIGNATIONS ON WIRING DIAGRAMS

L: phase; **N:** neutral; **S:** external switch

FAN OPERATION SETUP



**THE TIMER BOARD IS UNDER MAINS VOLTAGE.
MAKE SURE THE FAN IS COMPLETELY DISCONNECTED FROM THE POWER MAINS BEFORE
ADJUSTING**

 **T_{on}** — To adjust the fan turn-on delay time, turn the control knob **T_{on}** clockwise to increase and counter-clockwise to decrease the turn-on delay time respectively, adjustable from 0 up to 2 minutes.

 **T_{off}** — To adjust the fan turn-off delay time, turn the control knob **T_{off}** clockwise to increase and counter-clockwise to decrease the turn-off delay time respectively, adjustable from 2 up to 30 minutes.

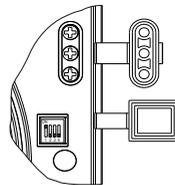
 **H** — To adjust the humidity set point, turn the control knob **H** clockwise to increase and counter-clockwise to decrease the humidity sensor set point, adjustable from 60 % up to 90 %.

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**

| | Operation mode 1 | Operation mode 2 | Operation mode 3 | Operation mode 4 | Operation mode 5 |
|---------------|---|---|---|---|---|
| Quiet 150 T | | | | | |
| Quiet 150 VT | | | | — | — |
| Quiet 150 TP |  |  |  | | |
| Quiet 150 TH | | | |  | |
| Quiet 150 VTH | | | | |  |



The choice of operating mode is carried out by setting the DIP switch to a certain position. Use the plastic screwdriver from the delivery set to set the DIP switch to a required position.

Operation mode 1 (single-speed)

The fan is turned off by default. The fan starts operating at speed 1 when the switch is turned on or one of the sensors is activated.

Operation mode 2 (single-speed)

The fan is turned off by default.

The fan starts operating at speed 2 when the switch is turned on or one of the sensors is activated.

Operation mode 3 (two-speed)

The fan operates at speed 1 by default.

The fan switches to the speed 2 when the switch is turned on or a sensor is activated.

Operation mode 4 (two-speed)

The fan is turned off by default. The fan starts operating at low speed when the switch is turned on and switches to high speed when the humidity sensor is activated.

Operation mode 5 (two-speed)

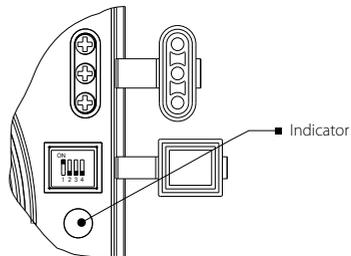
The fan is turned off by default. The fan starts operating at speed 1 when the switch is turned on or when the humidity sensor is activated. If during the operation at low speed the humidity sensor is activated and the switch is turned on, the fan switches to high speed.

Caution! The operation mode 1 is set by default. The operating mode may be changed during the fan mounting or operation. Setting the DIP switch to any position other than stated in the table results in the emergency mode communicated by the red light indication. In such a case disconnect the fan from power supply and set the DIP switch to a correct position.

OPERATION INDICATION

Only for T, TH, VT, VTH, TP models

1. The light indicator blinks green once in 5 seconds – the fan operates with minimum speed in standby mode.
2. The light indicator blinks green once in a second – the turn-on delay time is activated (60 seconds).
3. The light indicator glows red – the humidity sensor is activated and the fan runs at high speed.
4. The light indicator glows green — the switch is turned on and the fan runs at high speed.
5. The indicator light blinks green and red once in 1 second — the turn-off delay timer is activated.



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. 21).
- Remove the front panel, wipe the fan with a dry cloth or a brush (Fig. 22).
- Clean the front panel under running water (Fig. 24).
- Wipe the fan surfaces dry.
- Cover the fan with the front panel.
- Connect power supply to the fan (Fig. 24).

WARNING! 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.

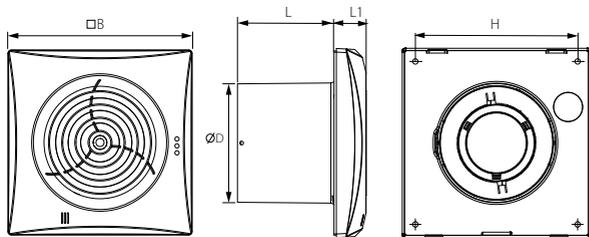
- Replacement and use of any assemblies, parts and components not approved by the manufacturer.
- Unit misuse.
- Violation of the unit installation regulations by the user.
- Violation of the unit control regulations by the user.
- Unit connection to power mains with a voltage different from the one 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

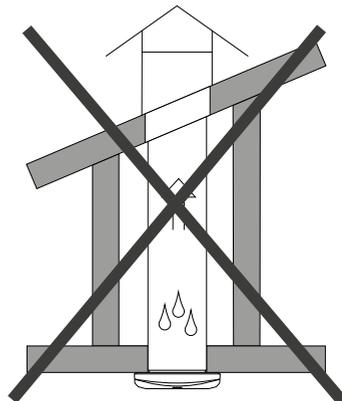
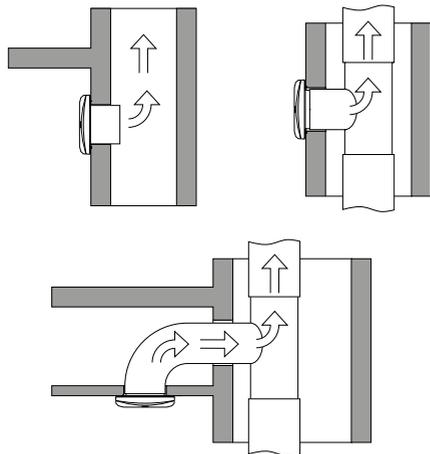


USER'S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE PURCHASE DATE STAMP

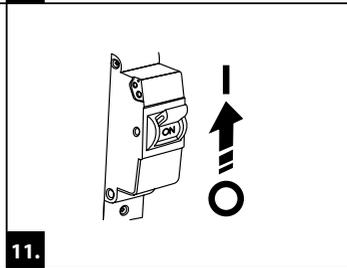
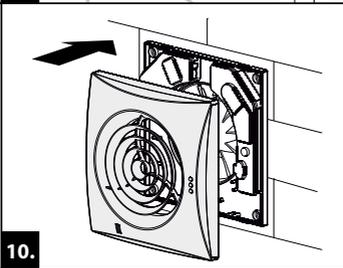
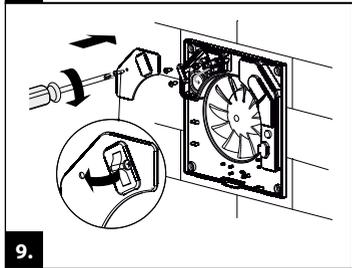
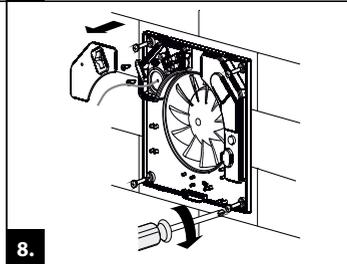
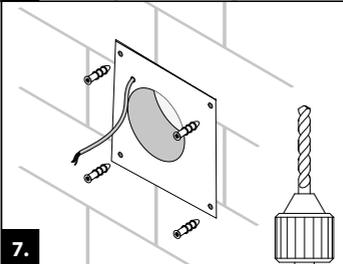
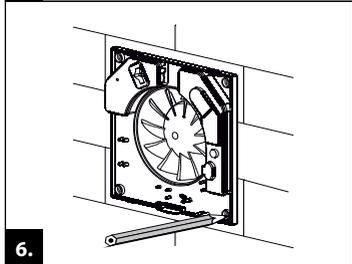
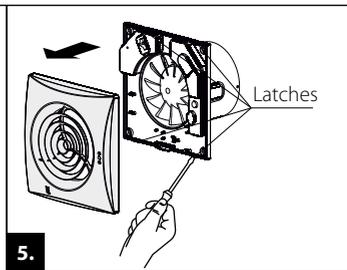
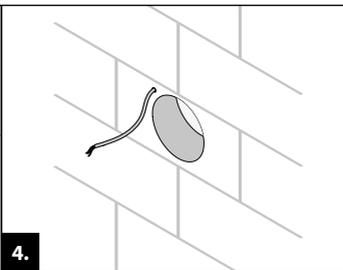
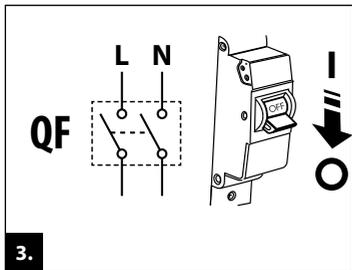


| | Dimensions [mm] | | | | |
|----------------|-----------------|-----|-----|-----|----|
| | ØD | B | H | L | L1 |
| Quiet 150 | | | | | 32 |
| Quiet-Mild 150 | 148 | 214 | 190 | 111 | 32 |
| Quiet-Disc 150 | | | | | 57 |

1.

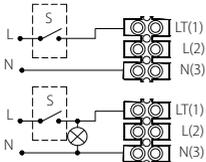


2.

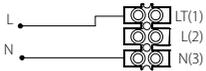


Quiet 150

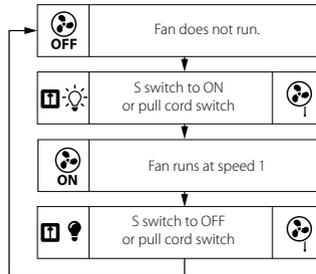
Quiet 150 (speed 1)



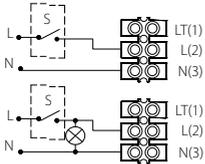
Quiet 150 V (speed 1)



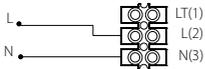
12.



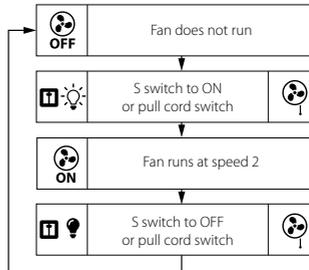
Quiet 150 (speed 2)



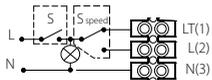
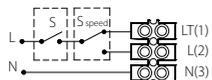
Quiet 150 V (speed 2)



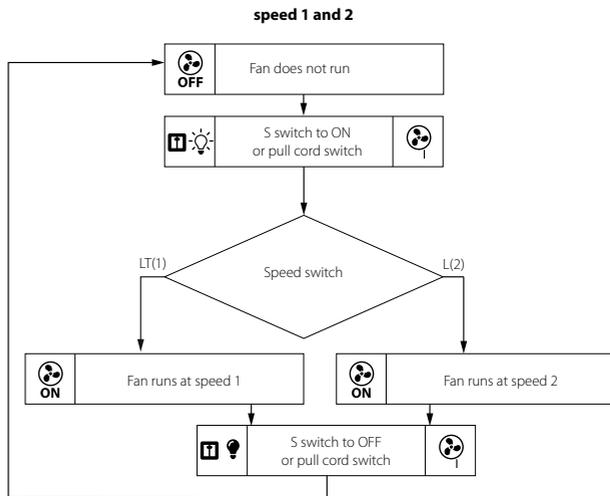
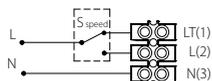
13.



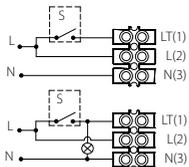
Quiet 150 (speed 1 and 2)



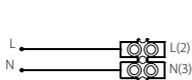
Quiet 150 (speed 1 and 2)



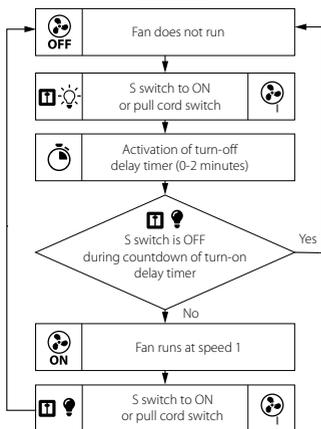
Quiet 150 T



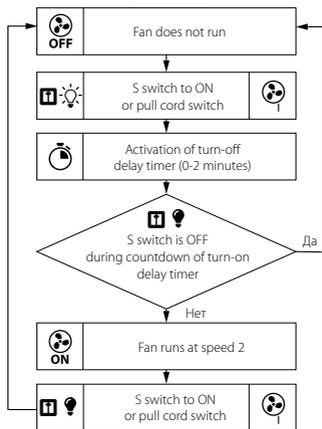
Quiet 150 VT



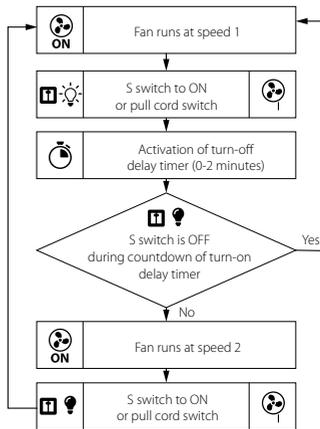
Operation mode 1



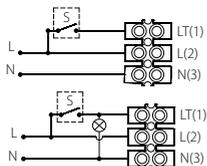
Operation mode 2



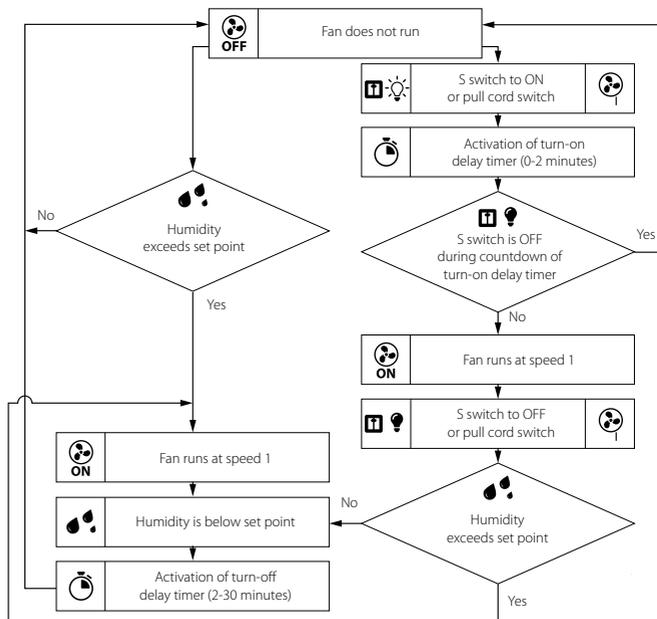
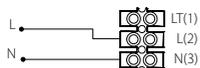
Operation mode 3



Quiet 150 TH



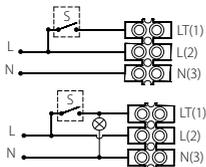
Quiet 150 VTH



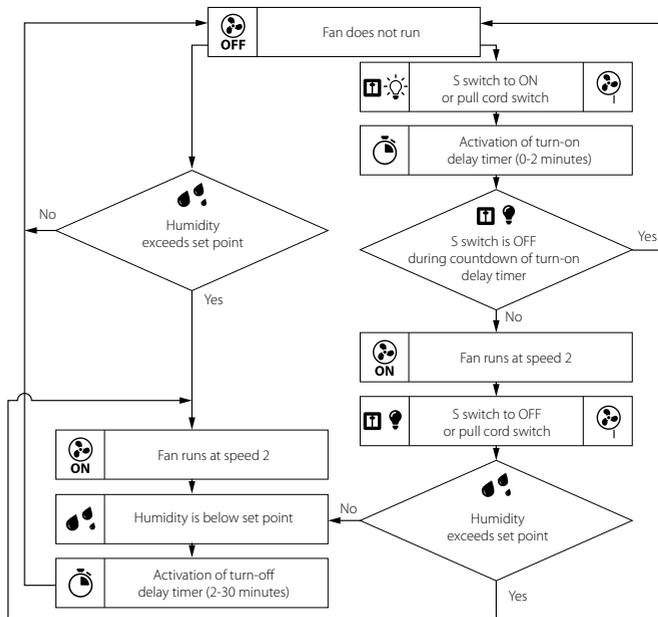
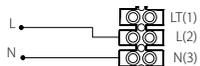
Operation mode 1



Quiet 150 TH



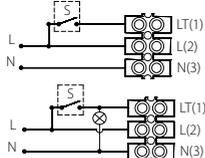
Quiet 150 VTH



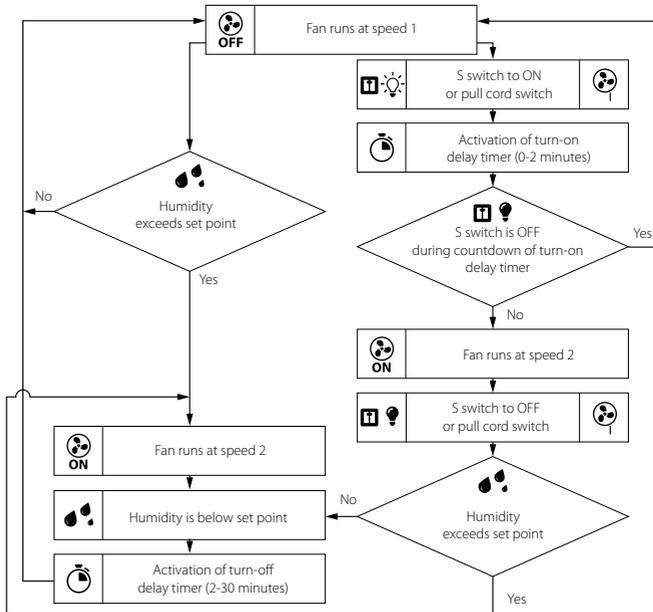
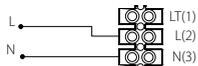
Operation mode 2



Quiet 150 TH



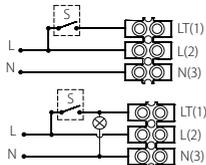
Quiet 150 VTH



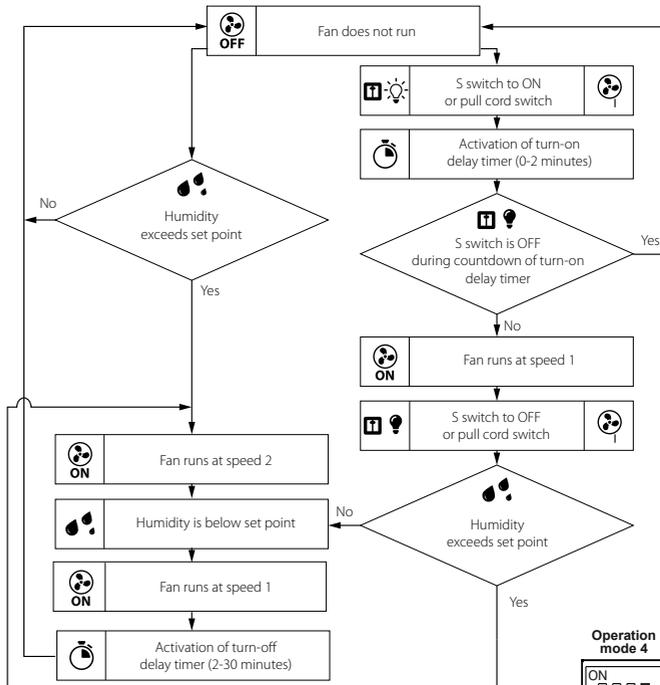
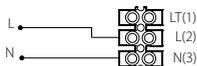
Operation mode 3



Quiet 150 TH



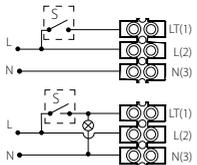
Quiet 150 VTH



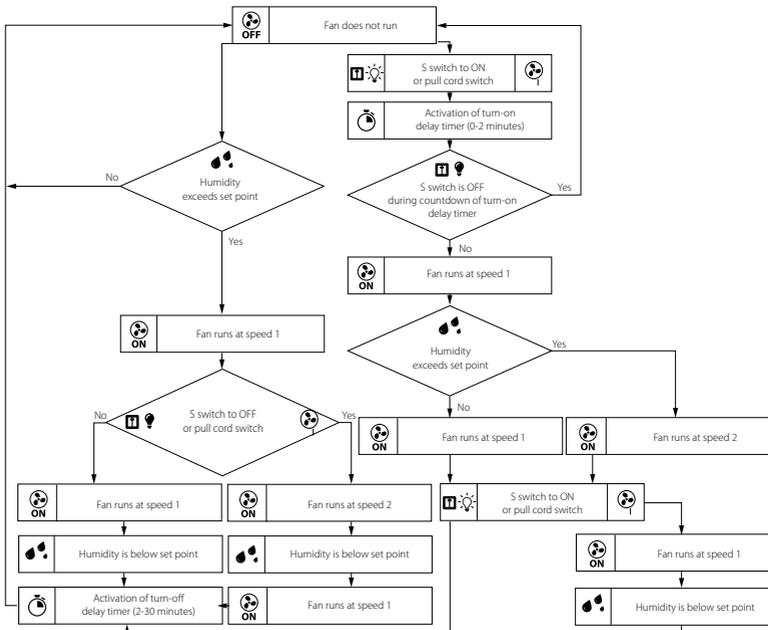
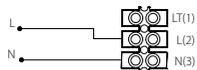
Operation mode 4



Quiet 150 TH



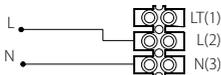
Quiet 150 VTH



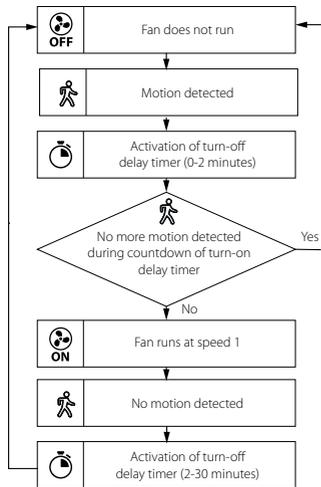
Operation mode 5



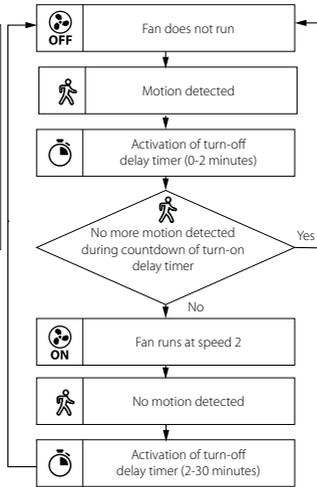
Quiet 150 TP



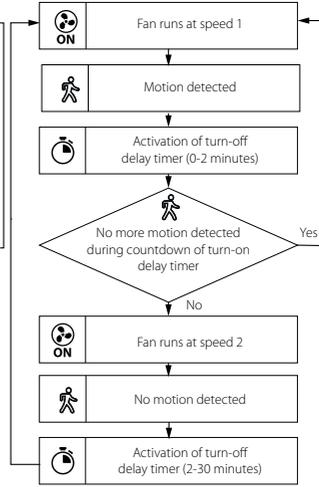
Operation mode 1



Operation mode 2

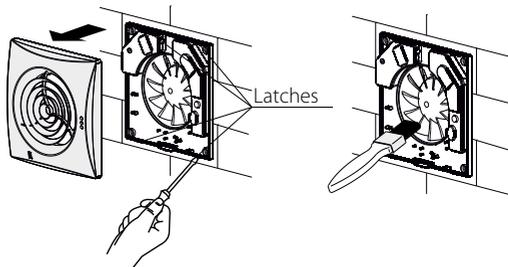


Operation mode 3

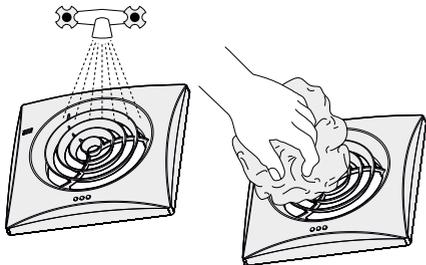




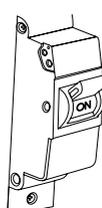
22.



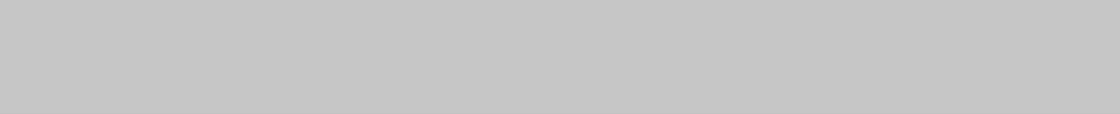
23.

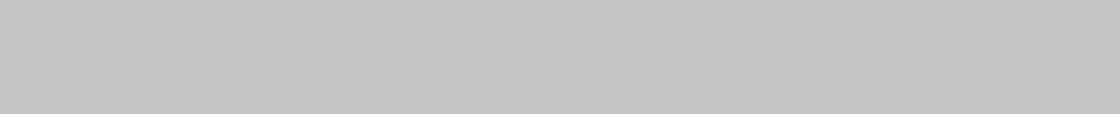


24.

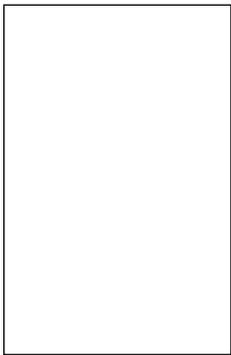


25.





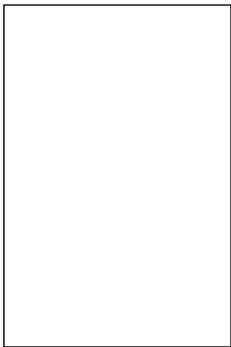
Quality Inspector's Stamp



Sold by
(name and stamp of the seller)



Manufacture Date



Purchase Date



Certificate of acceptance

Quiet _____

The fan is recognized as serviceable.