



**Quiet-Mild** 





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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 Quiet-Mild 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 perform works 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 MUNICIPAL 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.

# **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 designed for connection to  $\emptyset$  100, 125 and 150 mm air ducts.

The fans are equipped with a single-speed or double-speed motor depending on model.

The fan is equipped with a back valve that prevents air back drafting when the fan is off.

# **OPERATION GUIDELINES**

The fan is rated for connection to single-phase AC 220...240 V/50 Hz power mains. Air flow direction in the system must correspond to the direction arrow on the fan casing. Ingress protection rating against access to hazardous parts and water ingress is IP45. The fan is rated for operation at the ambient temperature ranging from +1  $^{\circ}$ C up to +45  $^{\circ}$ C. The unit is rated as a Class II electrical appliance.



# **FAN OPTIONS**

**Quiet-Mild V:** the fan is switched on and off with a built-in pull cord switch.

## **Quiet-Mild T:**

For 100 and 125 models

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

## For 150 models

After turning on the external switch, for example, a light switch, the fan is turned on or is switched to high speed 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.

#### **Quiet-Mild Duo T**

Only for 100 and 125 models

The fan is equipped with a turn-off delay timer and an interval timer. The operation algorithm is shown in Fig. 19.

#### **Quiet-Mild T1**

# Only for 100 and 125 models

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.

#### **Quiet-Mild TH:**

For 100 and 125 models

The fan is switched on as the indoor humidity exceeds set level, adjustable from 60 % up to 90 %.

As the indoor humidity level drops down to the set point, the fan keeps operating for a set turn-off delay time period, adjustable from 2 to 30 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.

# For 150 models

As the indoor humidity level exceeds the set level, adjustable from 60 % up to 90 %, the fan is turned on or is switched to high speed in a set turn-on delay time period, adjustable from 0 to 2 minutes. As the indoor humidity level drops down to the set point the fan keeps operating for a set turn-off delay time period, adjustable from 2 to 30 minutes. The fan may be manually turned on or switched to high speed with 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.

#### **Quiet-Mild TP:**

#### For 100 and 125 models

Upon activation of the motion sensor the fan is turned on. The motion sensor has a detection range of up to 1-4 m and a viewing angle of 100°. After no more motion is detected the fan keeps operating for a set turn-off delay time period, adjustable from 2 to 30 minutes.

## For 150 models

After the motion sensor is actuated, the fan is switched to high speed in a set turn-on delay time period, adjustable from 0 to 2 minutes. The motion sensor has a detection range of up to 1-4 m and a viewing angle of 100°. After no more motion is detected, the fan keeps operating for a set turn-off delay time period, adjustable from 2 to 30 minutes.

#### **Ouiet-Mild 12:**

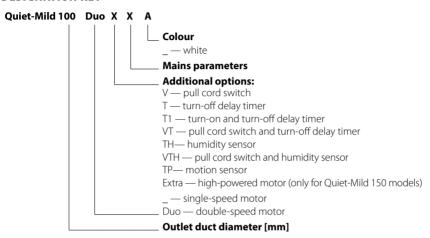
## For 100 and 125 mode

The fan is rated for connection to safe 12 V/50 Hz power mains.

Possible combination of the fan modifications: VT, VTH, V12.



# **DESIGNATION KEY**



#### INSTALLATION AND SET-UP

The fan is designed for vertical and horizontal installation and connection to a ventilation shaft or a round air duct of a matching diameter (Fig. 2).

CAUTION! In case of vertical mounting the fan must be protected against ingress of rainfalls and condensate inside the fan. Fan installation with direct air discharge upwards is not allowed (Fig. 2). The fan mounting sequence is shown in Fig. 3-11. The fan wiring diagrams and operation algorithm are shown in Fig. 12-16, 18-29.

#### CAUTION! Only for Quiet-Mild 100/125 Duo, Quiet-Mild 150 and Quiet-Mild 150 V models.

Parallel power supply to the terminals 1 and 2 (Fig. 16) is not allowed! That will result in the fan breakdown. The operating mode selection for the Quiet-Mild 150 T, TH, VT, VTH, TP fans is shown in Fig. 17.



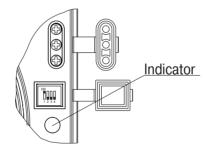
#### CAUTION! Only for Quiet-Mild 100/125 T1 and Quiet-Mild 150 T, TH, VT, VTH, TP models.

If the turn-on delay timer was activated by the external switch, light switch, motion sensor or the humidity sensor but during the timer countdown such action is cancelled, i.e. the external switch is turned off, no more motion is detected or the indoor humidity level drops down below the set point, then the fan operates in the previous operation mode.

# **OPERATION INDICATION**

#### Only for Quiet-Mild 100/125 T1 and Quiet-Mild 150 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.





# **FAN SETUP**

Ton — interval timer turning on and adjustment is performed with the potentiometer  $T_{on}$ . To turn the interval timer off set the potentiometer  $T_{on}$  into the leftmost position. Rotation of the potentiometer for 1/3 clockwise sets the interval timer operation for 6 hours, rotation of the potentiometer for 2/3 clockwise sets the interval timer operation for 12 hours, and rotation of the potentiometer clockwise in the rightmost position sets the interval timer operation for 24 hours.

 $^{\circ}$   $^{\circ}$   $^{\circ}$  to adjust the fan turn-off delay time, turn the control knob  $^{\circ}$  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 %.

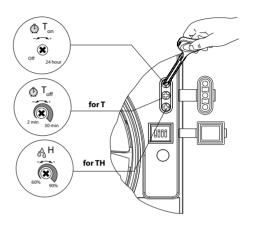
CAUTION! If the switch is turned off or the indoor humidity falls below the set point within 60 seconds after activation of the switch or the humidity sensor, the fan continues operation at low speed.



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



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.





# **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. 30).
- Remove the front and the decorative panels, wipe the fan with a dry cloth or a brush (Fig. 31-32).
- Clean the front panel under running water (Fig. 33).
- · Wipe the fan surfaces dry.
- · Cover the fan with the front panel.
- · Connect power supply to the fan (Fig. 35).

# WARNING! 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 operation 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 Council Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and CE-marking 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.

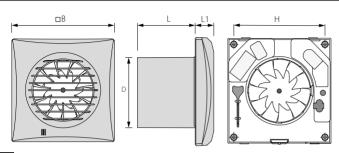


FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT.

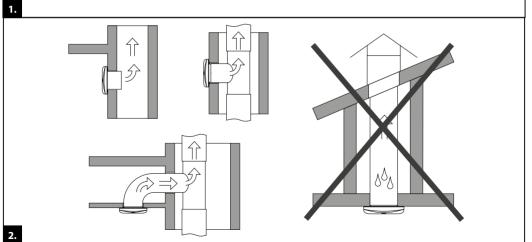


USER'S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE PURCHASE DATE STAMP.

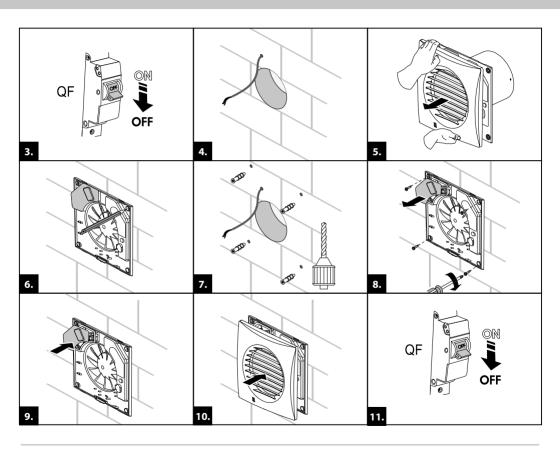




	Quiet-Mild 100	Quiet-Mild 125	Quiet-Mild 150
D, mm	99	124	148
B, mm	158	182	214
H, mm	136	158	190
L, mm	81	91	111
L1, mm	26	27	32

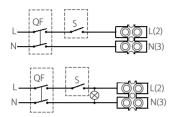






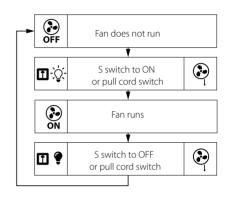


# Quiet-Mild 100/125

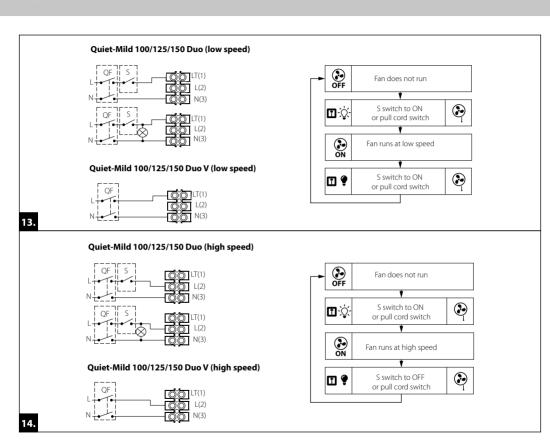


# Quiet-Mild 100/125 V



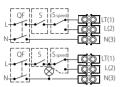




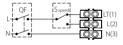


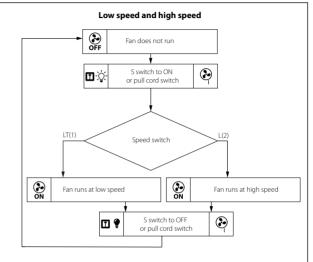


#### Quiet-Mild 100/125/150 Duo (low and high speed)

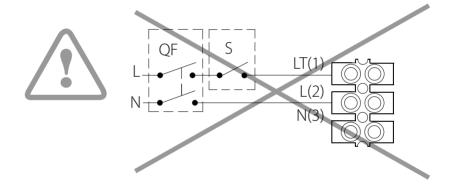


#### Quiet-Mild 100/125/150 Duo V (low and high speed)

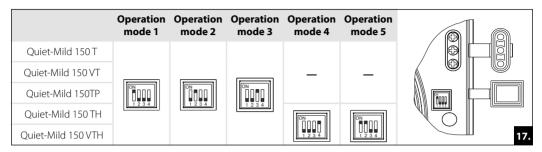












The choice of operating mode is carried out by setting the DIP switch to a certain position. Use the plastic screwdriver from the delivery set to set the DIP-switch to a required position.

# Operation mode 1 (single-speed)

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

#### Operation mode 3 (two-speed)

The fan operates at low speed by default. The fan switches to the high speed 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)

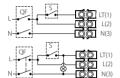
The fan is turned off by default. The fan starts operating at low speed when the switch is turned on.

If during the operation at low speed the humidity sensor is activated or the switch is turned on, the fan switches to high speed.

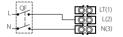
**CAUTION!** The operation mode 1 is set by default. The operation mode may be changed during the fan mounting or operation. Setting the DIP switch to any position other than stated in the table results in the emergency mode communicated by the red light indication. In such a case disconnect the fan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

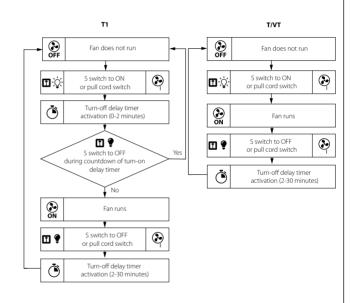


#### Quiet-Mild 100/125 T/T1

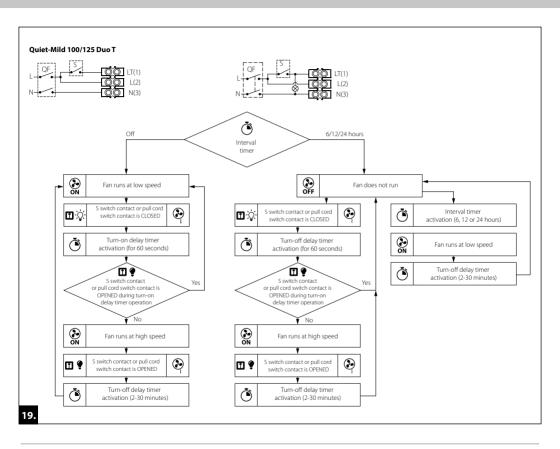


#### Quiet-Mild 100/125 VT

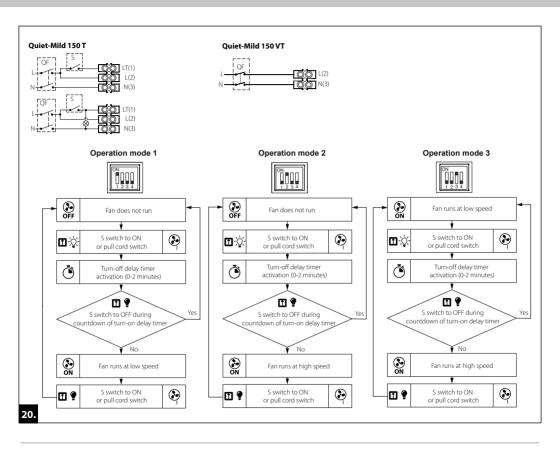






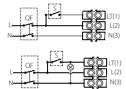






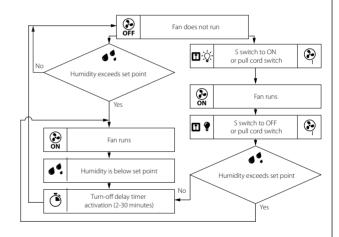


#### Quiet-Mild 100/125 TH

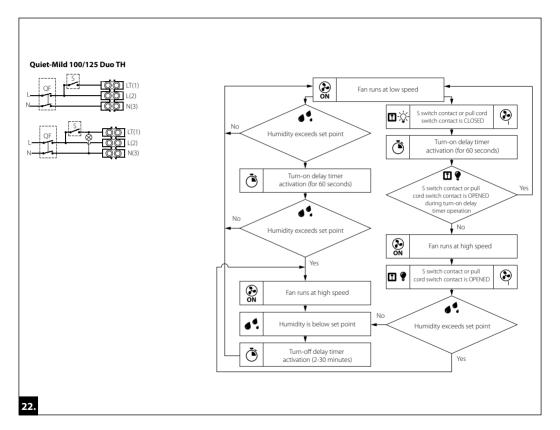


#### Quiet-Mild 150 VTH

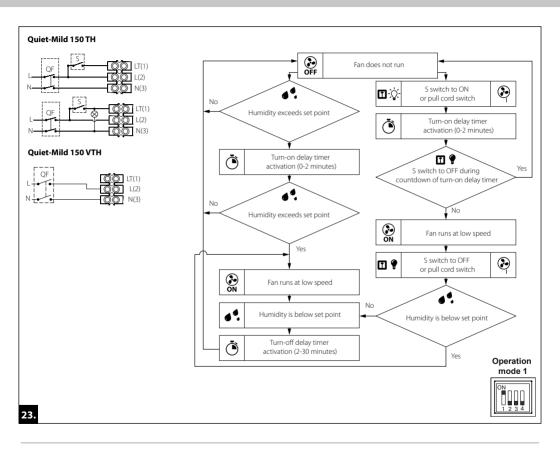




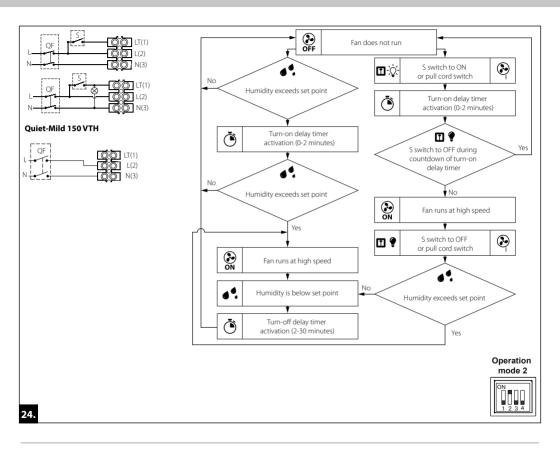




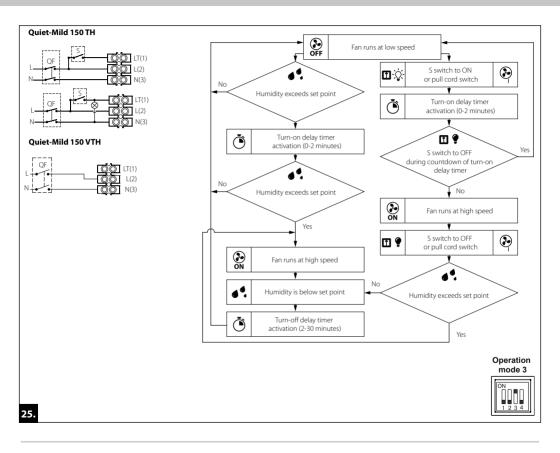




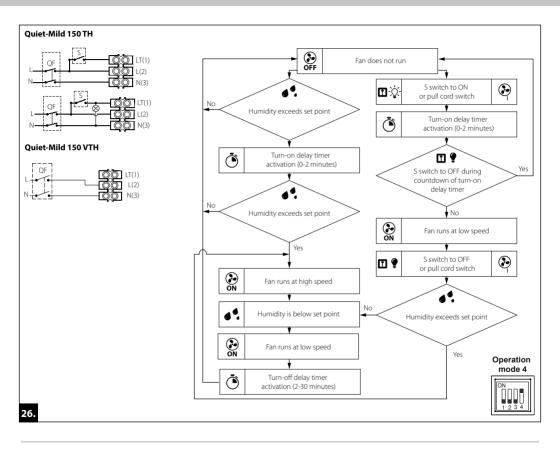




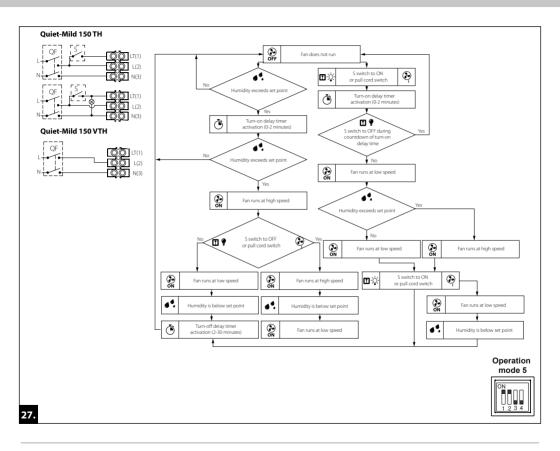






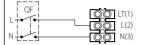


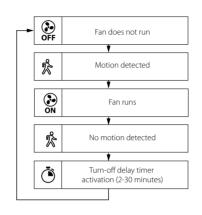




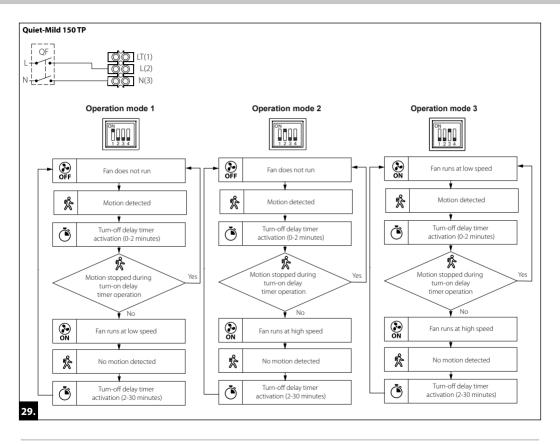


#### Quiet-Mild 100/125 TP

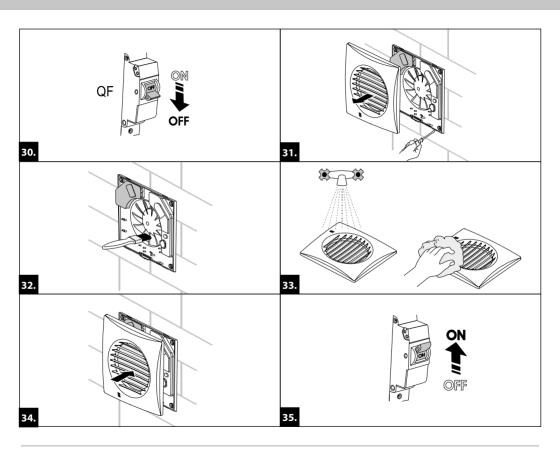














Quality Inspector's Stamp	Sold by (name and stamp of the seller)	
Manufacture Date	Purchase Date	

Certificate of acceptance

		V	
		Т	
Quiet-Mild	100	T1	
	125 Duo	VT	
		TH	$\bigcap^{A}$
	150	VTH	
		TP	
		Extra	

The fan is recognized as serviceable