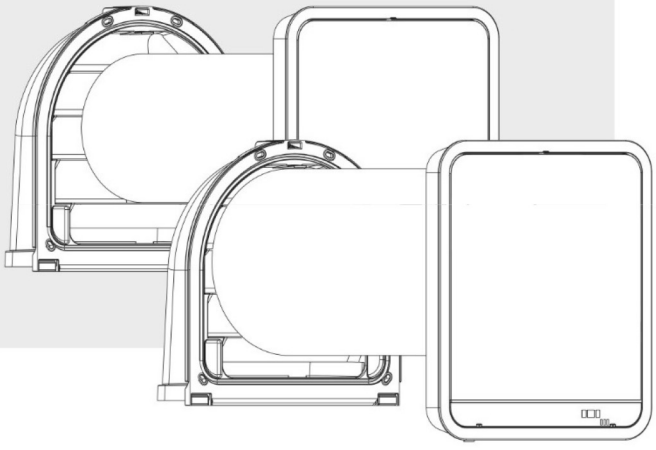
fitt agix®

Designing wellness

FITT Agix Panel 60 WL
FITT Agix Panel 100 WL

Installation, operation and maintenance manual.

For delocalized ventilation units with reverse-flow heat recovery.



fitt agix®

FITT VENTILATION SOLUTIONS

GENERAL INDEX

INTRODUCTION - GENERAL WARNINGS

This product is manufactured in a workmanlike manner, in accordance with the applicable EC directives, and its intended use is to carry out air exchange in the rooms, compartments or the like in which it is installed. Follow all these directions to ensure its durability, electrical and mechanical reliability, so always keep this booklet. Do not use this product for a function other than that set forth in this booklet.

1. After removing the packaging, ensure the integrity of the device. Packaging items (plastic bags, expanded polystyrene, nails, etc.) should not be left within the reach of children as they are potential sources of danger.
2. Before connecting the appliance make sure that the nameplate data correspond to those of the electrical distribution network, install the product so that the blades are at least 2.3m above the floor.
3. This equipment shall be intended only for the use for which it is expressly designed. The manufacturer cannot be held responsible for any damage resulting from improper, erroneous and unreasonable use.
4. Do not use the product in the presence of corrosive or explosive vapors.
5. Before carrying out any cleaning or maintenance, disconnect the appliance from the power supply. Maintenance and cleaning of the product requiring its disassembly should only be carried out by qualified personnel.
6. Make sure the product is fully assembled before putting it into operation.
7. Periodically, at least 1 time per year or more frequently for heavy use, remove dirt and scale from the fan, motor casing and grilles, it is also, important to check that the

fan has no deformations or cracks, that it turns freely, without oscillation, and that it is firmly attached to the motor shaft. Failure to comply with the above may compromise the safety of the equipment and the user.

8. When the device is decommissioned, it is recommended to make it inoperative by removing the power cord. It is also recommended that potentially dangerous parts be made harmless, especially for children who might use them for their own games.
9. Installation must be carried out according to the manufacturer's instructions by professionally qualified personnel. Incorrect installation may cause damage to people, animals or property for which the manufacturer cannot be held responsible.
10. As the appliance is for fixed installation, connection to the mains must be made by flexible cable with an omnipolar plug or switch having a contact opening distance of not less than 3 mm.
11. It is essential to ensure the necessary reentry of air into the room to ensure the operation of the product. Where there is a solid, liquid, or gas fuel-using appliance in the same room (e.g. water heater, stove, boiler, etc.), not the "watertight" type, make sure that the air return also ensures the perfect combustion of such an appliance. Intake air must not be fed into ducts used for exhausting hot air; example: combustion exhaust of gas water heaters. The appliance must discharge into single exhalation flue or directly to the outside.
12. The appliance may be used by children not less than 8 years of age and by persons with reduced physical, sensory or mental capabilities, or lacking the necessary experience or knowledge, provided that they are supervised or after they have received instructions regarding the safe use of the appliance and understanding of the inherent dangers. Children

Should not play with the device. Cleaning and maintenance intended to be carried out by the user should not be done by unsupervised children.

INTRODUCTION - INTENDED USE

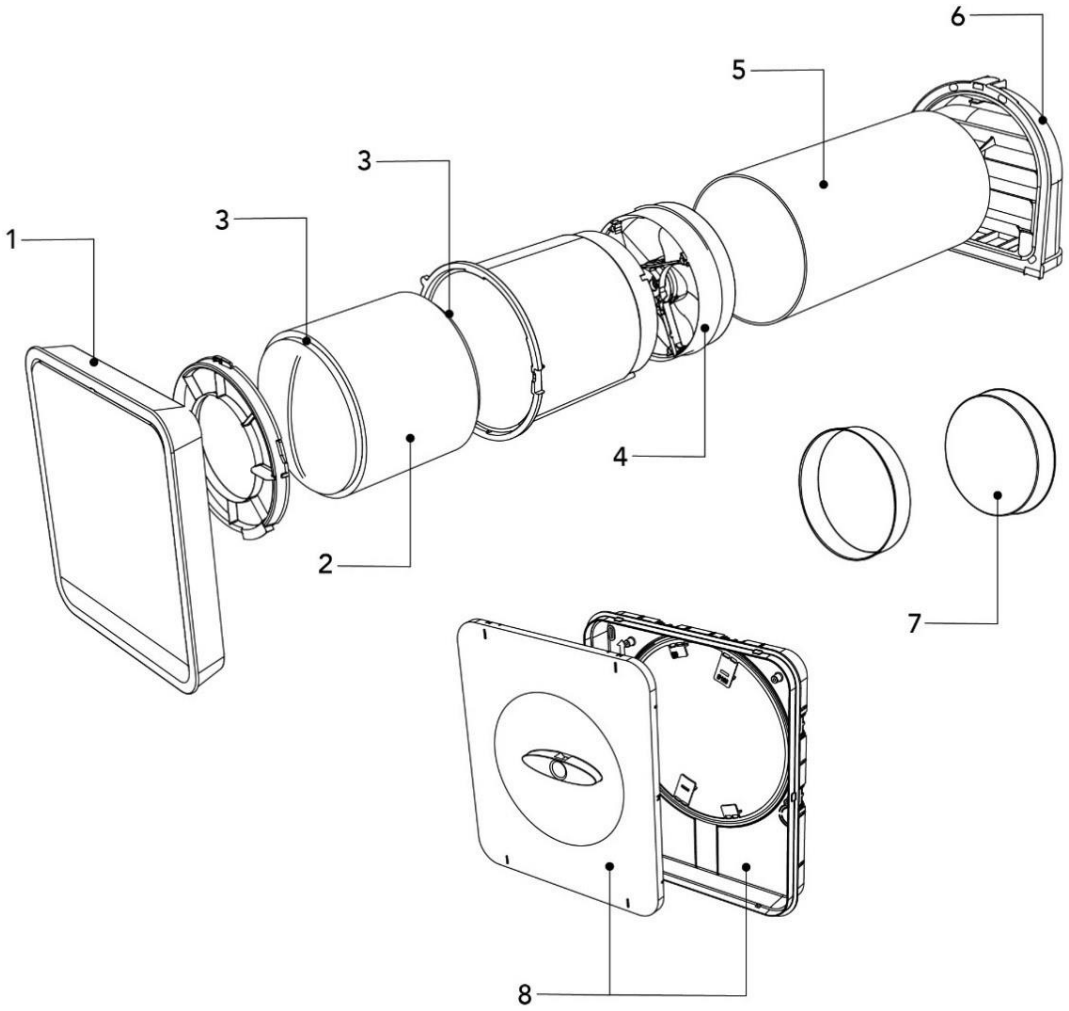
The product is professionally constructed and installed to give the possibility of constant air exchange within the room. The recuperator can be installed in homes and general domestic and public places.
The product is equipped with a ceramic-type heat exchanger that stores heat during the extraction of air from the room, while during the intake of air from outside, the unit gives up the heat stored in the exchanger to the incoming cold air.
The product must be installed on the wall. The pipe inside which the ceramic exchanger will be placed is supplied (as an optional accessory) for walls up to a maximum thickness of 500mm; the pipe can be shortened to a minimum of 250mm for the external wall version and to a minimum of 300mm for the built-in version.
The air extracted or injected from the product must not contain flammable or explosive mixtures, chemical vapors, dusts, oils and other pathogenic substances in general.

INTRODUCTION - PRODUCT OVERVIEW

The product consists of a main unit with a closing damper that will be placed inside the room, a recessed tube containing the ceramic exchanger and filters, and an external sound-absorbing grille.

FITT Agix Panel 60 / 100

1. Main unit
2. Ceramic exchanger
3. Filters
4. Motor fan
5. Recessed pipe 500mm (**EXCLUDED**)
6. External grid
7. Caps (**supplied with PANEL 60 tube only)**
8. Recessed kit

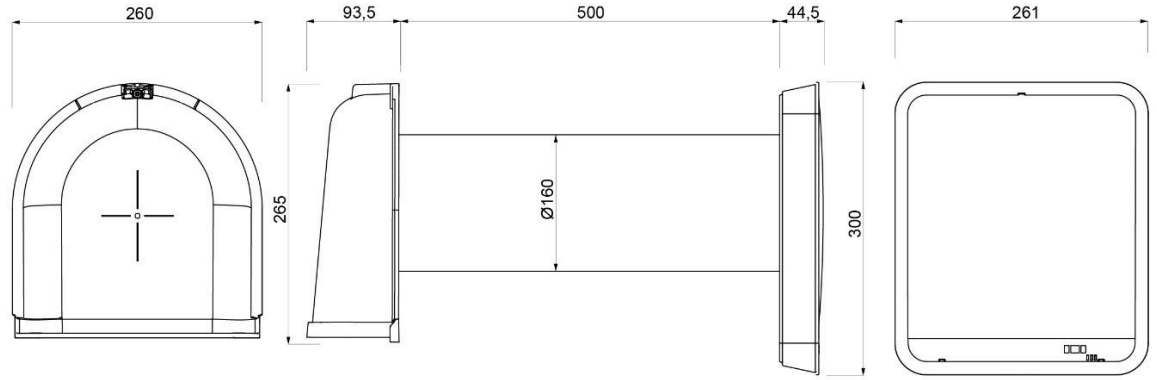


INTRODUCTION - TECHNICAL DATA

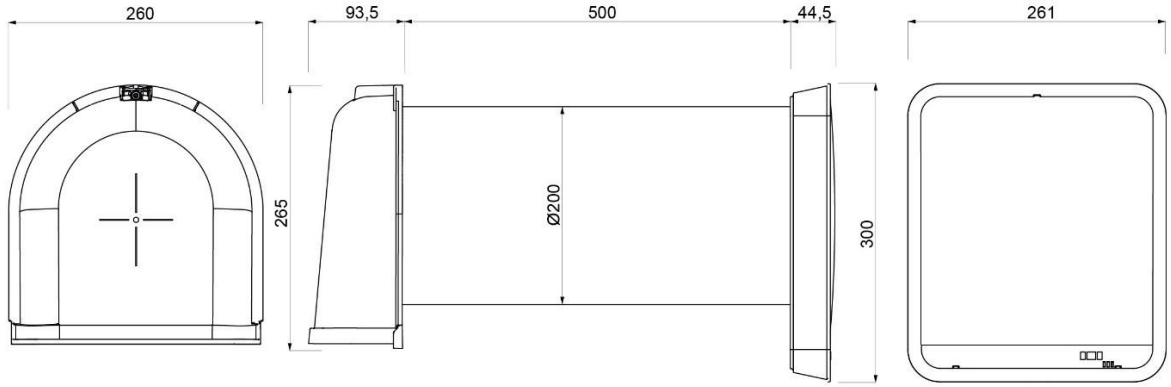
The recuperator is classified as a class II product with an IPX4 degree of protection.
The recuperator is designed for indoor installations with operating temperatures ranging from -30°C to +50°.
The design of the recuperator is constantly changing, therefore, some models may differ from what is described in this manual.

DIMENSIONS (mm)

FITT Agix Panel 60



FITT Agix Panel 100



TECHNICAL FEATURES

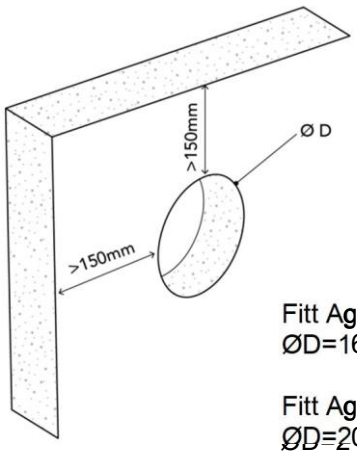
FITT Agix Panel 60				
Voltage at 50Hz [V]	220-240			
Max yield	93%			
Speed	N	1	2	3
Flow rate [m3/h]	10	20	40	60
Power [W]	3,9	4,1	4,9	6,5
Noise dB(A)3m	4	8	18	25
FITT Agix Panel 100				
Voltage at 50Hz [V]	220-240			
Max yield	93%			
Speed	N	1	2	3
Flow rate [m3/h]	20	40	70	100
Power [W]	3,9	4,9	7,4	11,9
Noise dB(A)3m	6,5	14	22	32

INSTALLATION - INTRODUCTION

Installation of the device is intended only and exclusively for qualified personnel. Ensure that the network connection in the installation room is disconnected before electrical assembly operations.
The unit should not be installed near curtains, drapes, etc., as these may impair its proper operation.
Ensure that when installed, the fan blades are placed no less than 2.30m away from the floor below the product. If more than one appliance is installed, the distance between each product should be at least 3 meters.
Before assembling the product, carefully read and strictly follow the instruction manual and make sure you have all the materials needed for installation.

INSTALLATION - PREPARATION

1



Fitt Agix Panel 60
ØD=160mm

Fitt Agix Panel 100
ØD=200mm

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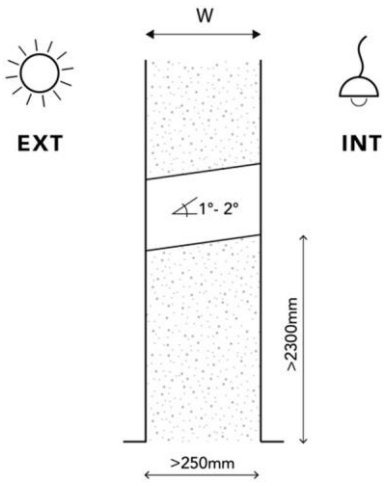

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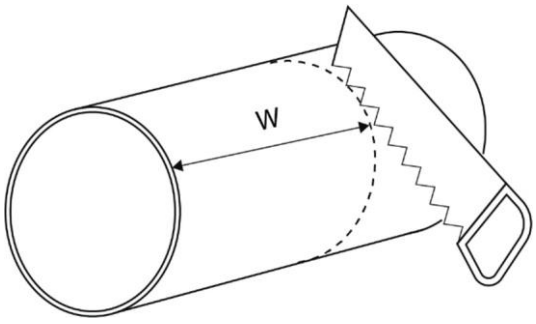

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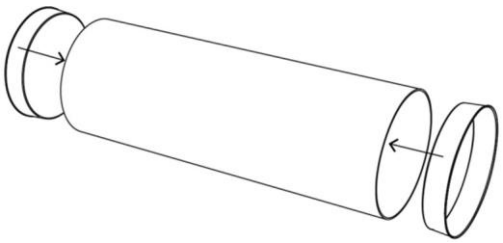

ONLY FOR FITT AGIX PANEL 60 PIPE Ø160

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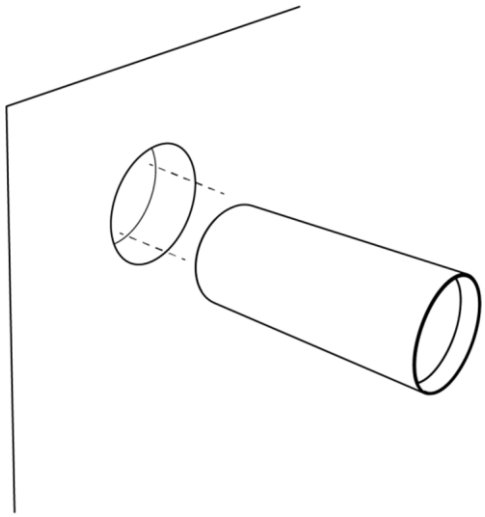

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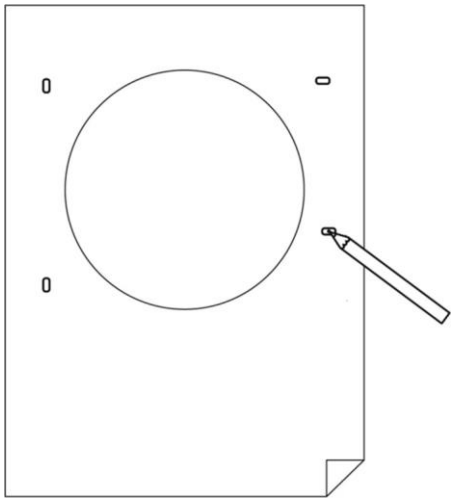

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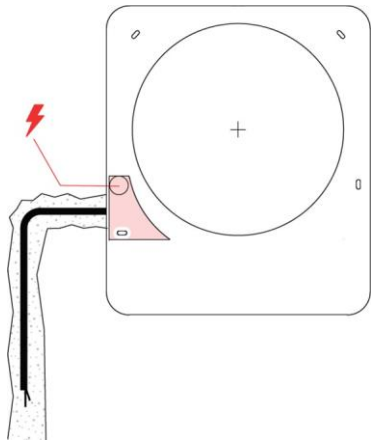

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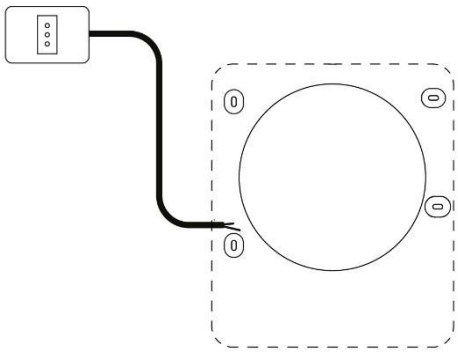

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BUILT-IN VERSION

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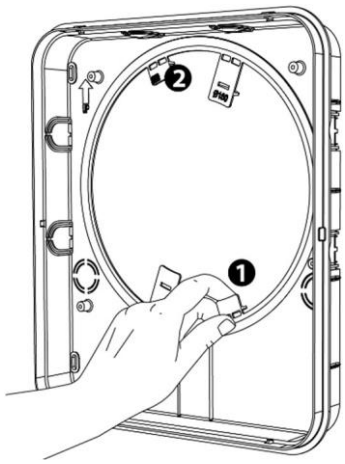

BUILT-IN VERSION

ONLY FOR FITT AGIX PANEL 60 PIPE Ø160

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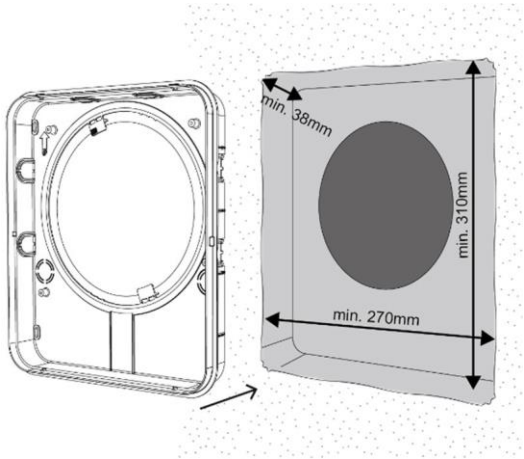

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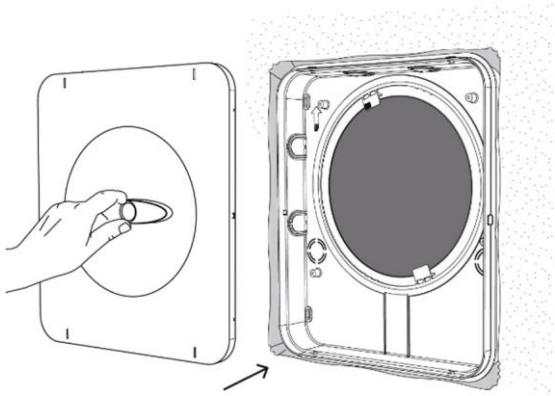

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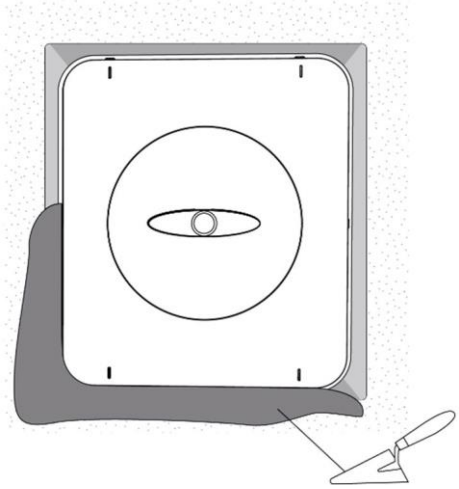

BUILT-IN VERSION

INSTALLATION - PRODUCT ASSEMBLY

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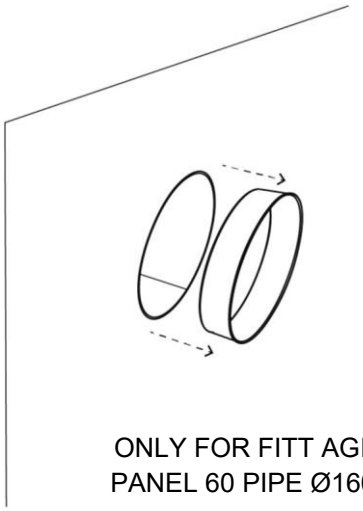

ONLY FOR FITT AGIX
PANEL 60 PIPE Ø160

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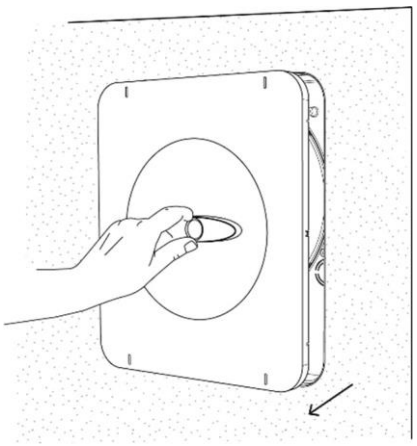

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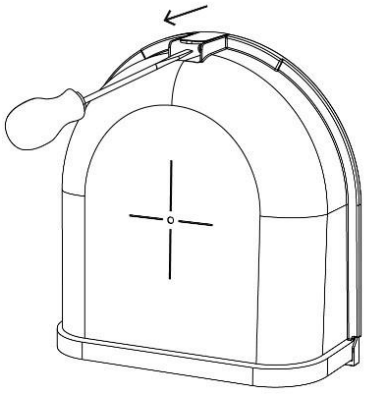

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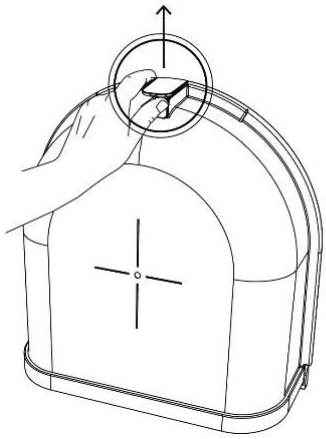

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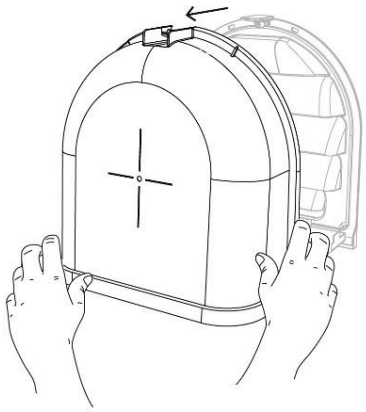

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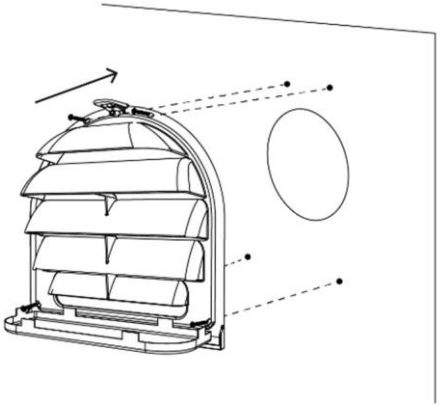

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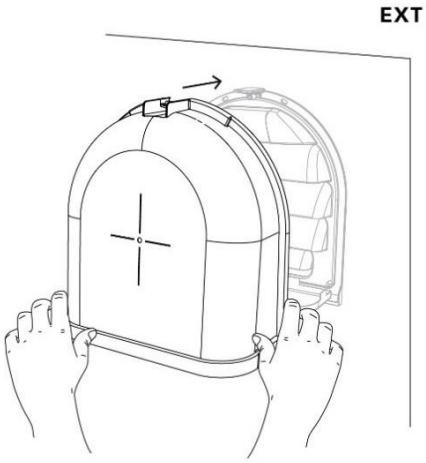

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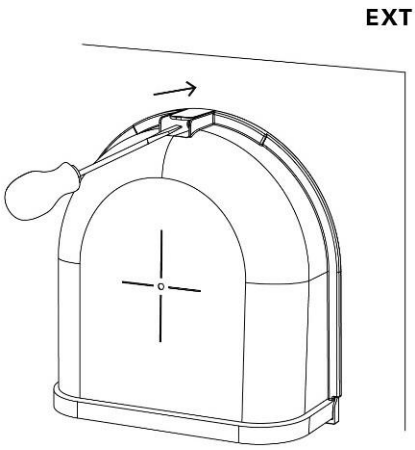

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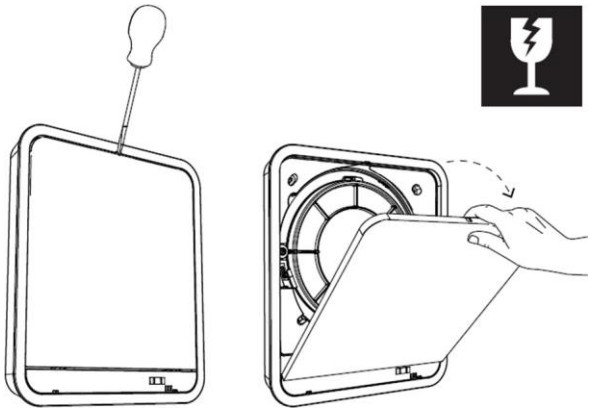

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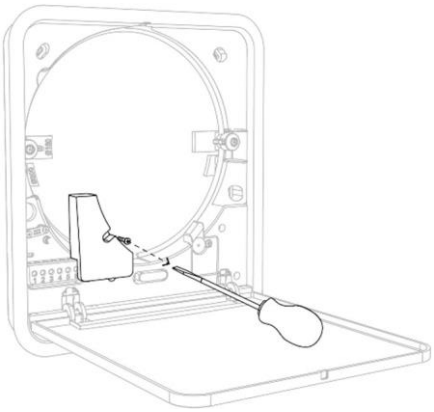

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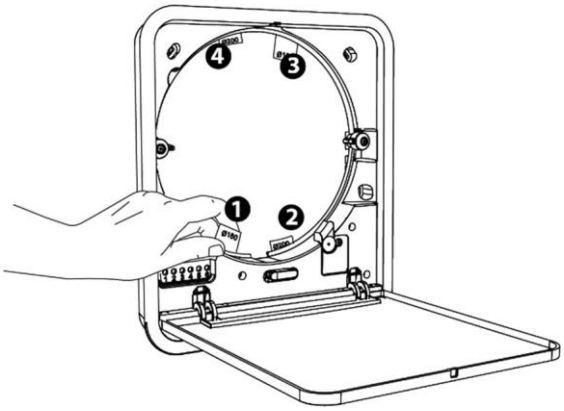

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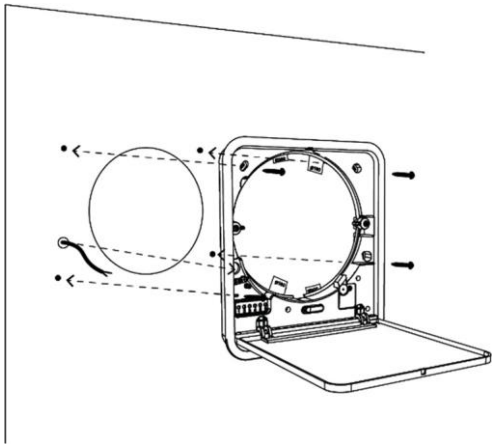

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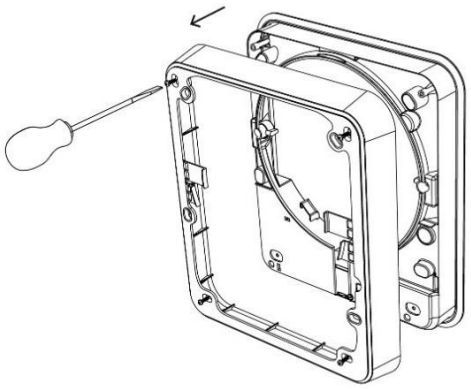

BUILT-IN VERSION

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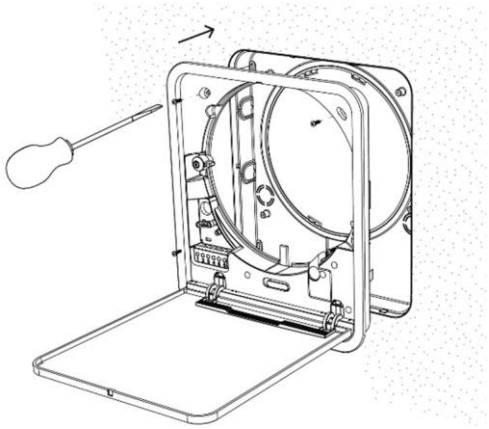

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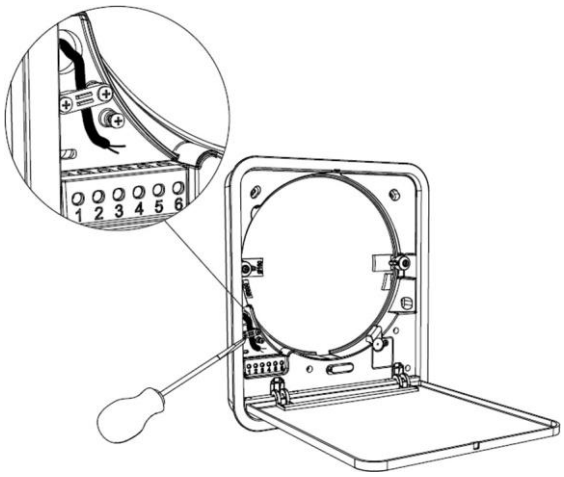
See paragraph ELECTRICAL CONNECTIONS



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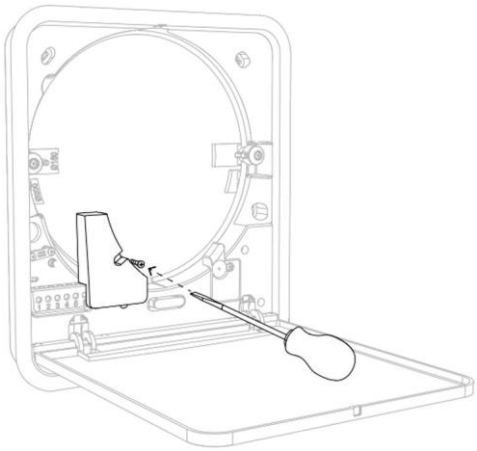

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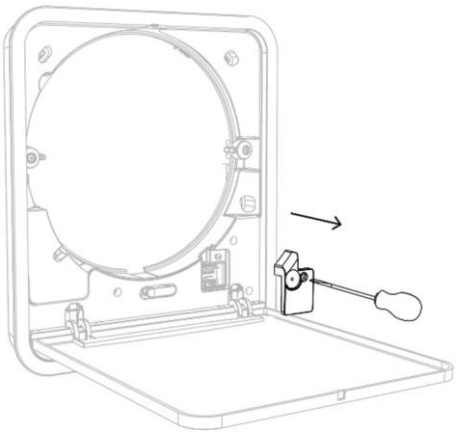

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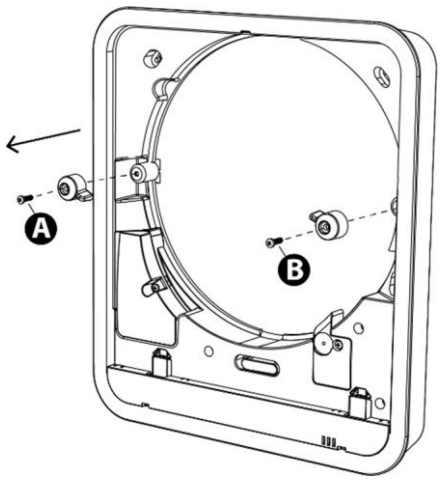

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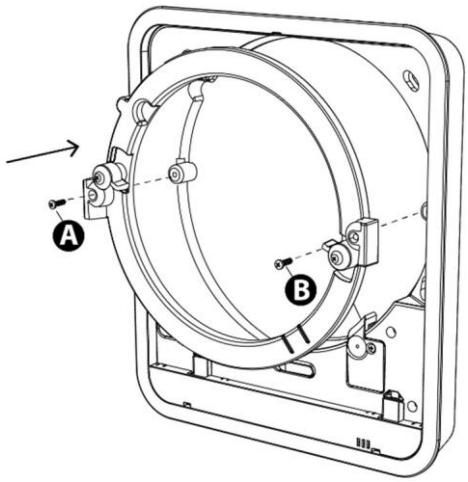

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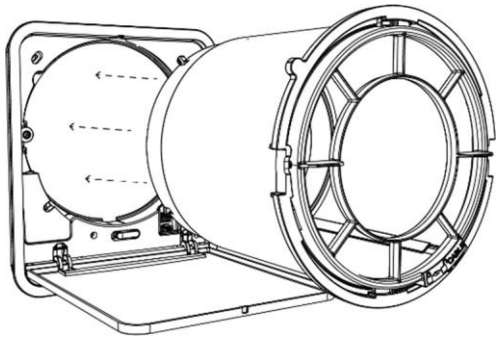

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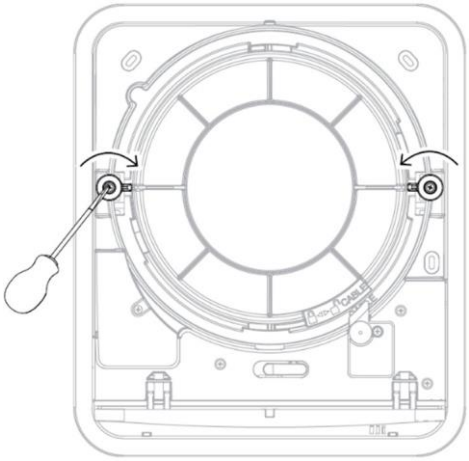

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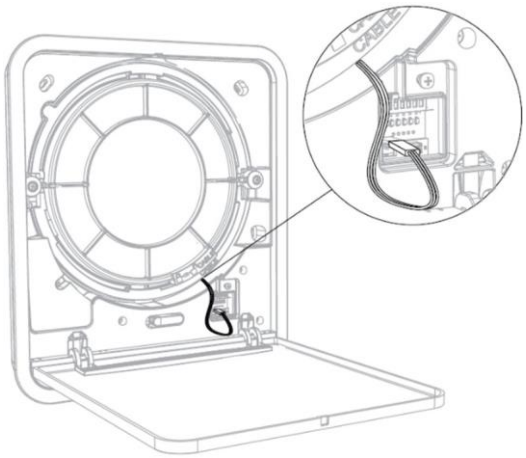

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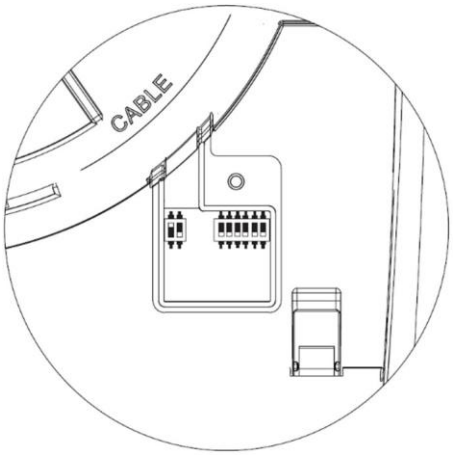
See section
CONFIGURATION



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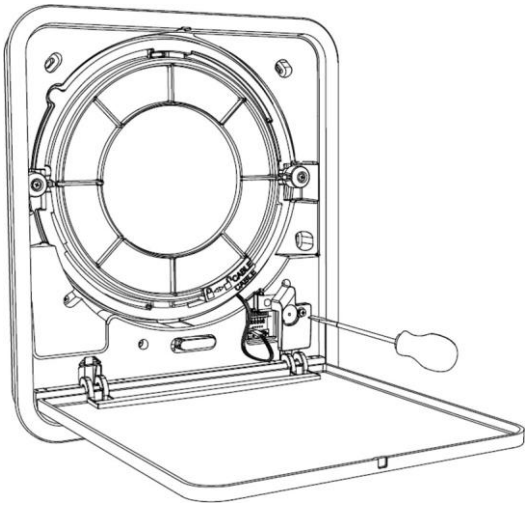

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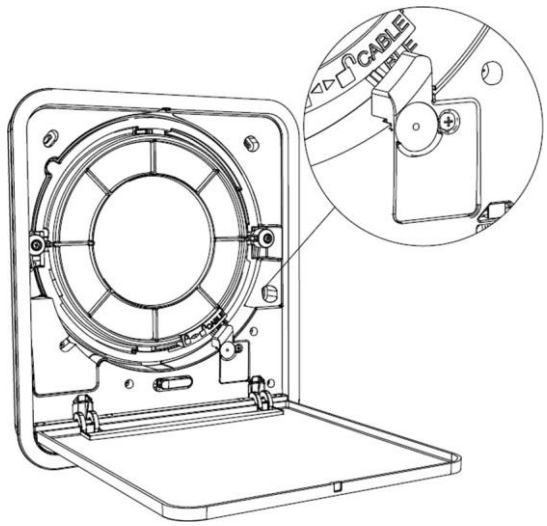

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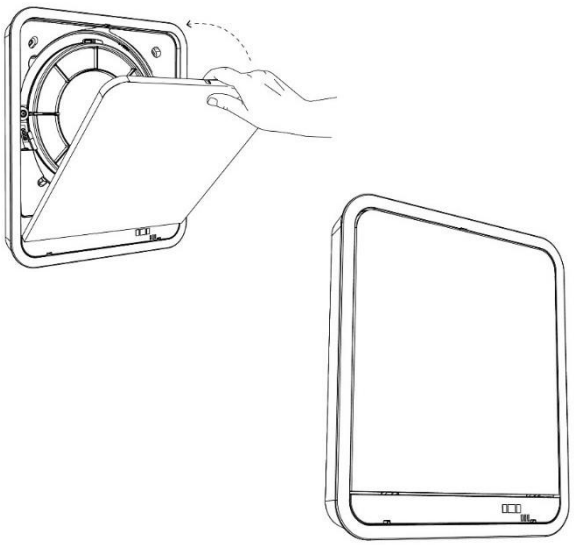
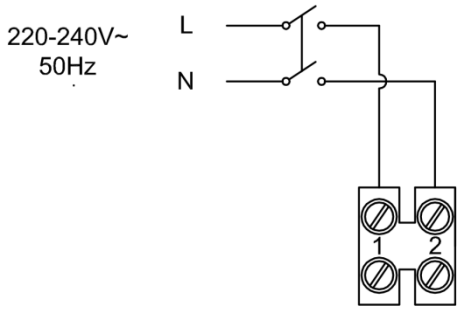


INSTALLATION - ELECTRICAL CONNECTIONS

WIRELESS

Linking products

Attention: during this stage all products must have the main switch set to "0".

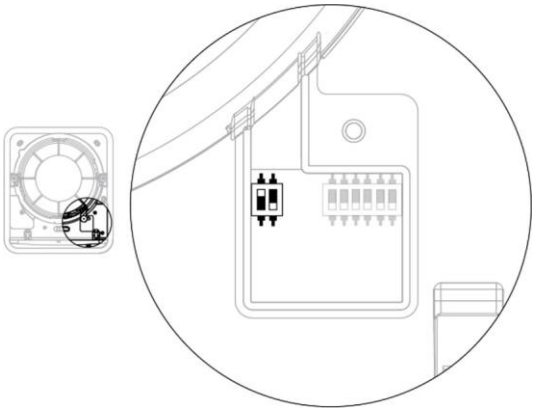


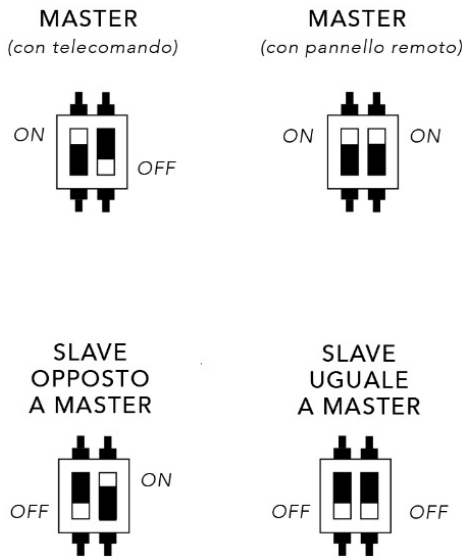
INSTALLATION - CONFIGURATION

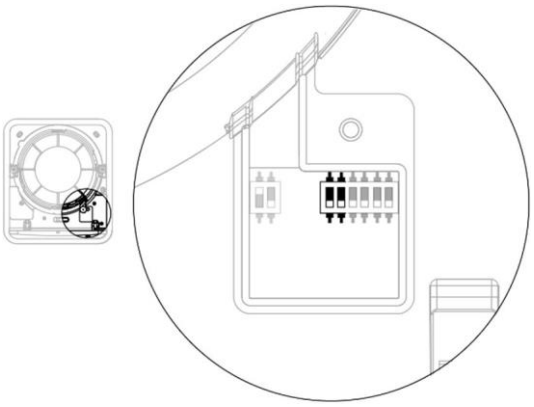
WIRELESS

To configure the products you will need to follow the diagram below, keeping in mind that one of the units installed should be the MASTER unit, and in sequence all the others should be, a SLAVE OPPOSED TO MASTER and a SLAVE EQUAL TO MASTER.

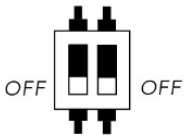
CAUTION: The MASTER unit is the only one that will receive commands from the control and detect environmental conditions via the sensors, and consequently will control everything else in the system. In case you have a remote panel CO2 version, it will be detected directly from the panel.



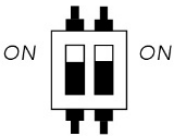




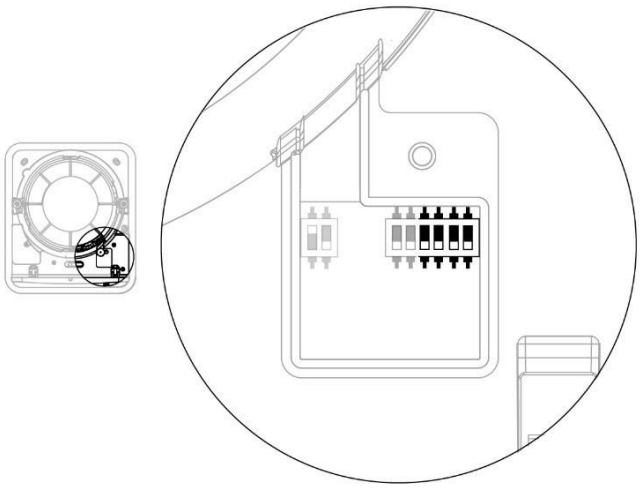
FITT AGIX
PANEL 100



FITT AGIX
PANEL 60



In the case of dwellings with large square footage or installations made on several floors, it is recommended to divide the installation into several zones (living area- sleeping area or 1st floor-2nd floor) so as to be facilitated in control.
In addition to setting up individual units, it is necessary to create unique coding for each plant so that products communicate only with each other and not with adjacent plants.
The diagram below shows the 4 0/1 dip switches that are used to create unique coding for each system.



CAUTION: The factory setting of the dip switches is all to zero (OFF), so it is recommended to set at least one of the dip switches to 1 (ON) to uniquely code the system.

INSTALLATION - RESET CONFIGURATION

In the event of errors in the configuration of the units via dip switches, both in terms of system coding and MASTER-SLAVE configuration of the units, it will be necessary to proceed as follows:

- Turn off the unit via main switch
- Change the dip-switches configuration to the desired one
- Turn on the unit via main switch

At this point the machine will be set up correctly with the new configuration.

CAUTION: If you change the configuration of the dip-switches with the unit turned on, the unit will not acknowledge any changes and will continue to operate with the previous settings.

INSTRUCTIONS FOR USE

The heat recuperator has the ability to be turned on and off using the ON/OFF button on the remote control (A).

The heat recuperator has three main operation modes and six others that can be selected through hot keys.

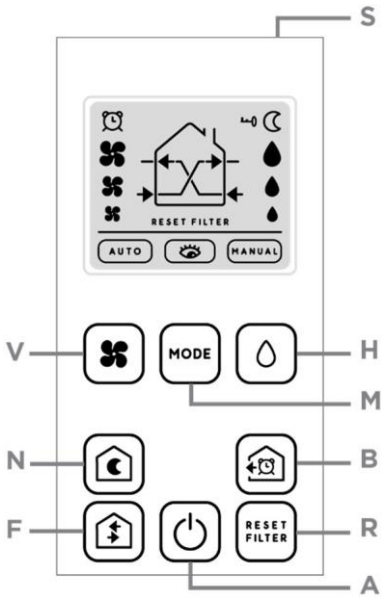
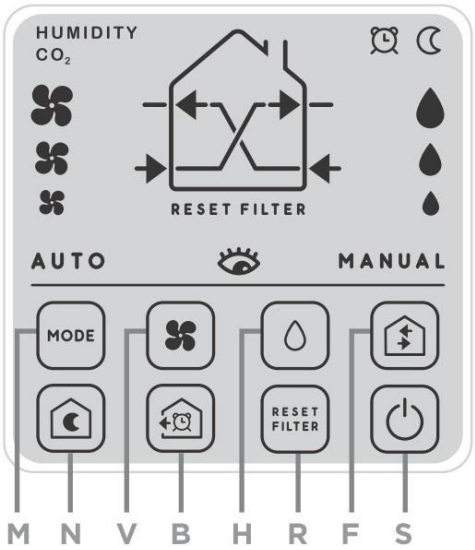
The three main modes selectable via the MODE button are:

- AUTOMATIC mode
- SURVEILLANCE Mode.
- MANUAL mode

The six auxiliary modes that can be selected via the hot keys are:

- NIGHT mode
- TEMPORIZED EXPULSION mode.
- MASTER-SLAVE AIR FLOW MODE.
- SLAVE-MASTER AIR FLOW mode.
- EXPULSION mode
- IMMISSION mode

KEY GLOSSARY

Remote control	Remote panel
	

CAUTION (Remote Control): The remote control enters stand-by after 60sec of inactivity when the key icon appears, in this case you will need to press the UNLOCK button (S) at the top of the remote control to re-enable the keys.

CAUTION (Remote Panel): The remote panel enters stand-by after 60sec of inactivity, in which case you will need to press the UNLOCK (S) button to display the state the machine is in and to re-enable the keys.

WARNING: If the product is part of a system with more than one machine communicating with each other, remember that commands will be received only and exclusively by the MASTER unit, which will then manage all SLAVE units.

AUDIO-VISUAL ALERTS

- Receive Command**:** when the fan unit correctly receives a command it will emit a BIP and the white LED will flash once.
- Surveillance Mode: when the product is in surveillance mode, the red LED will flash every 60sec.
- Humidity Alarm*: when the fan unit goes into humidity alarm during the daytime, the red LED will light steadily.
- Filter Alarm: when the fan unit goes into filter alarm, the red LED will flash every second.

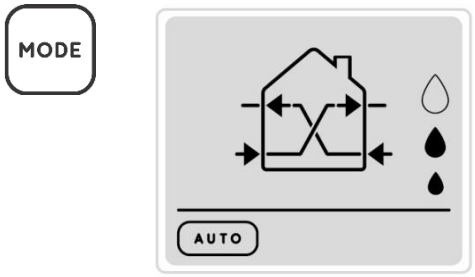
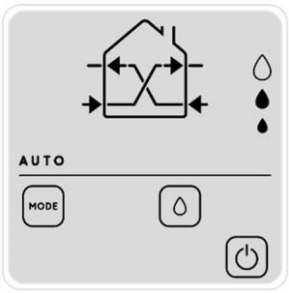
* In case it has a remote panel, the Humidity and CO2 alarm ($CO_{2\ version}$ only) are shown only on the dedicated display.

WARNING: When first turned on and each time the product goes from a stand-by or off state to being turned on, the overhead damper will take about 40 seconds to open.
NOTE**:** When the words "heat recovery operation" will be used, it means that the machines operate cyclically 70sec in extraction and 70sec in supply with the damper open.

AUTOMATIC MODE

To enter this mode you have to press the MODE (M) button repeatedly until the screen shown below will be displayed, each time the MODE button is pressed the mode will be changed with this logic (AUTO, SURVEILLANCE, MANUAL, AUTO, SURVEILLANCE, ...)

In this mode, the HUMIDITY (H) key is active to choose the desired threshold.

Remote control	Remote panel
	

In this mode both the humidity sensor and the twilight sensor are active, the units then self-manage without the need to give further commands.

Listed below are the various conditions in which the machines can be found with their mode of operation:

Under normal humidity (or CO2*) conditions in the daytime, the machines run at the average speed in heat recovery.
Under normal humidity (or CO2*) conditions at night, the machines run at night speed in heat recovery.
Under humidity (or CO2*) alarm condition in daytime, the machines run at the average speed in expulsion with the red LED on.
Under humidity (or CO2*) alarm condition at night, the machines run at night speed in expulsion.

Units go into humidity alarm when the MASTER unit detects ambient humidity above the threshold set among the 3 available (LOW-MEDIUM-HIGH) **.

* Ambient CO_2 is detected only if you have a remote panel with a built-in CO_2 probe.

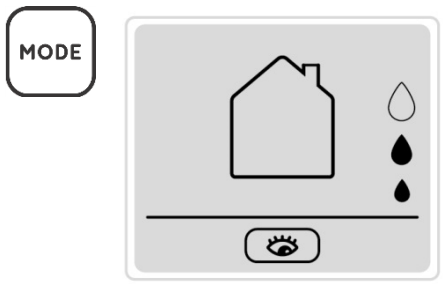
** The stated thresholds are based on tests performed in a climate chamber at a constant temperature of 20°C. The humidity sensor trip threshold may differ from product to product and depends on environmental and atmospheric factors.

Usage advice
Recommended mode in normal use of the product because once the humidity level is set, the system will self-manage without the need for any kind of intervention.

SURVEILLANCE MODE

To enter this mode you have to press the MODE (M) button repeatedly until the screen shown below will be displayed, each time the MODE button is pressed the mode will be changed with this logic (AUTO, SURVEILLANCE, MANUAL, AUTO, SURVEILLANCE, ...)

In this mode, the HUMIDITY (H) key is active to choose the desired threshold.

Remote control	Remote panel
	

In this mode both the humidity sensor and the twilight sensor are active, the units will normally be at rest with the damper closed and the sensors active, so that when the humidity exceeds the set threshold they will start to eject.

Listed below are the various conditions in which the machines can be found with their mode of operation:

Under normal humidity (or CO2*) conditions, the machines are at rest with the damper closed and the sensors active.
Under humidity (or CO2*) alarm condition in daytime, the machines run at the average speed in expulsion with the red LED on.
Under humidity (or CO2*) alarm condition at night, the machines run at night speed in expulsion.

The units go into humidity alarm when the MASTER unit detects ambient humidity above the threshold set among the 3 available (LOW-MEDIUM-HIGH)**.

* Ambient CO2 is detected only if you have a remote panel with a built-in CO2 probe.

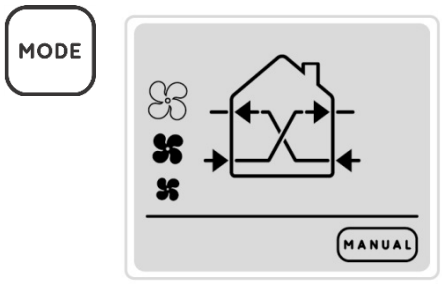
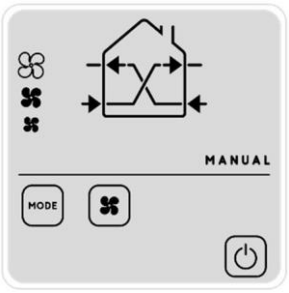
** The stated thresholds are based on tests performed in a climate chamber at a constant temperature of 20°C. The humidity sensor trip threshold may differ from product to product and depends on environmental and atmospheric factors.

Usage advice
Recommended mode in cases where it is not necessary to have heat recovery, but it is necessary to have proper air exchange in the presence of humidity (or CO2).
The typical use is in vacation homes where in the months when it is not inhabited it is not necessary to have heat recovery but only corect air exchange so as to avoid the problems associated with stagnant air inside the rooms.

MANUAL MODE

To enter this mode you have to press the MODE (M) button repeatedly until the screen shown below will be displayed, each time the MODE button is pressed the mode will be changed with this logic (AUTO, SURVEILLANCE, MANUAL, AUTO, SURVEILLANCE, ...)

In this mode, the FAN (V) button is active to choose the desired speed.

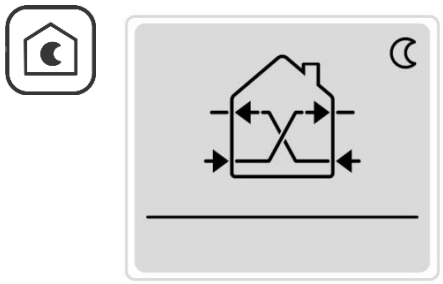
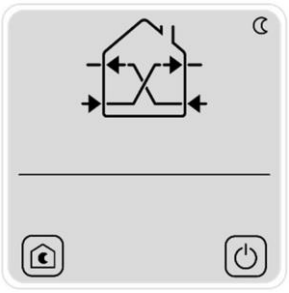
Remote control	Remote panel
	

In this mode the sensors are deactivated and the units will always go into heat recovery mode.
The user can decide at what speed to run the units, which will always go in this condition until a different command is given manually.

Usage tips
Recommended mode in cases where you want to keep the product in heat recovery mode regardless of humidity levels or you want to set a fixed speed to the products.

NIGHT MODE

To enter this mode, you must press the NIGHT (N) key, which will cause the screen shown below to appear.

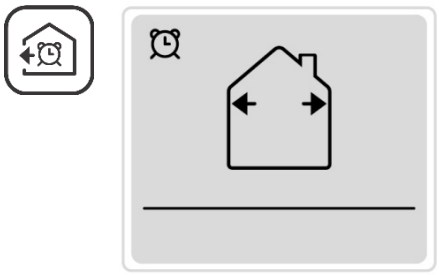
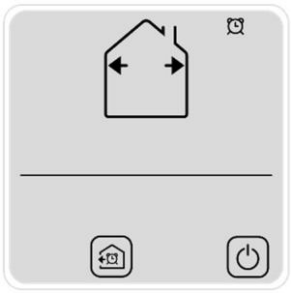
Remote control	Remote panel
	

In this mode, all units will run at night speed in heat recovery until another command is entered.

Usage tips
This mode is recommended in cases where the outdoor environment is very quiet and even the minimum speed of the product is felt.

TIMED EJECTION MODE

To enter this mode you must press the TIMER button (B) which will cause the screen shown below to appear.

Remote control	Remote panel
	

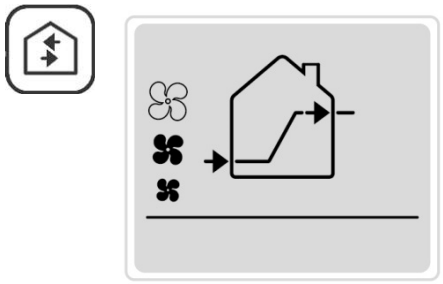
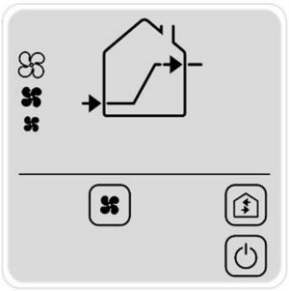
Pressing this button in any of the modes will cause all products to start ejecting at maximum speed for 20 minutes, at the end of the cycle they will return to the previously set mode.

Usage tips
This mode is recommended for extracting unhealthy air or air with strong odors quickly without having to reprogram the machines later.

MASTER-SLAVE AIRFLOW MODE

To enter this mode, you have to press the FLOW (F) key repeatedly until the screen shown below is displayed, each time the FLOW key is pressed, the mode will be changed with this logic (MASTER-SLAVE FLOW, SLAVE-MASTER FLOW, EXPULSION, IMMITTANCE, MASTER-SLAVE FLOW, ...).

In this mode, the FAN (V) button is active to choose the desired threshold.

Remote control	Remote panel
	

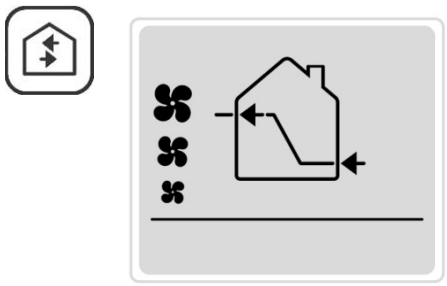
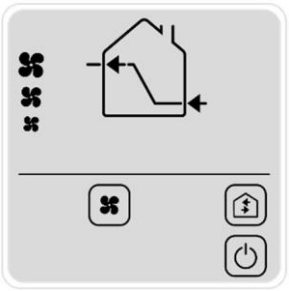
In this mode, products create a continuous air flow from MASTER or SLAVE EQUAL TO MASTER units to SLAVE OPPOSITE TO MASTER units excluding heat recovery.

Usage tips
This mode is recommended for isolating odors, for example from the kitchen, in a room by creating a continuous airflow to it.
It is also very useful as free-cooling in the summer period, in fact, in summer when the outdoor temperature is lower than the indoor temperature at night, heat recovery is not necessary but it is convenient to feed fresh air directly into the house.
Pressing the relevant button will cause the units to operate steadily in the desired direction with the ability to change the operating speed to suit your needs.

SLAVE-MASTER AIRFLOW MODE.

To enter this mode, you have to press the FLOW (F) key repeatedly until the screen shown below is displayed, each time the FLOW key is pressed the mode will be changed with this logic (MASTER-SLAVE FLOW, SLAVE-MASTER FLOW, EXPULSION, IMMITTANCE, MASTER-SLAVE FLOW, ...).

In this mode, the FAN (V) button is active to choose the desired threshold.

Remote control	Remote panel
	

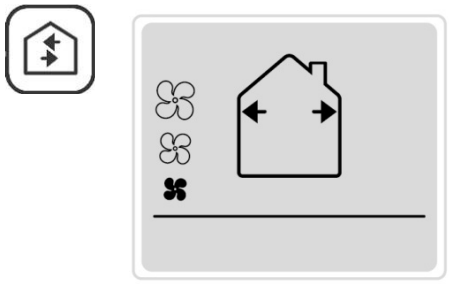
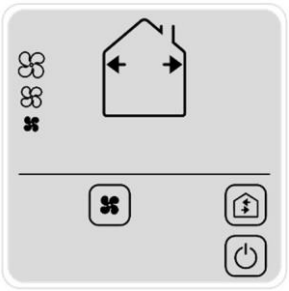
In this mode, products create a continuous air flow from SLAVE units OPPOSITE TO MASTER to MASTER or SLAVE units EQUAL TO MASTER excluding heat recovery.

Usage tips
This mode is recommended for isolating odors, for example from the kitchen, in a room by creating a continuous airflow to it.
It is also very useful as free-cooling in the summer period, in fact, in summer when the outdoor temperature is lower than the indoor temperature at night, heat recovery is not necessary but it is convenient to feed fresh air directly into the house.
Pressing the relevant button will cause the units to operate steadily in the desired direction with the ability to change the operating speed to suit your needs.

EXPULSION MODE

To enter this mode, you have to press the FLOW (F) key repeatedly until the screen shown below is displayed, each time the FLOW key is pressed, the mode will be changed with this logic (MASTER-SLAVE FLOW, SLAVE-MASTER FLOW, EXPULSION, IMMITTANCE, MASTER-SLAVE FLOW,...).

In this mode, the FAN key (V) is active to choose the desired threshold.

Remote control	Remote panel
	

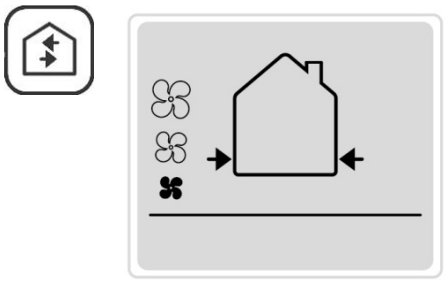
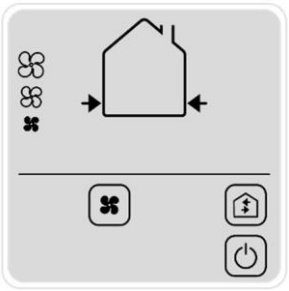
Pressing the relevant button will cause all units to run constantly in ejection with the possibility of changing the operating speed to suit your needs.

Usage tips
This mode is recommended in cases where there is a need to extract a lot of stale air at the expense of heat recovery, such as when rooms are frequented by many more people than in normal use (parties, celebrations, etc.).

INPUT MODE

To enter this mode, you have to press the FLOW (F) key repeatedly until the screen shown below is displayed, each time the FLOW key is pressed, the mode will be changed with this logic (MASTER-SLAVE FLOW, SLAVE-MASTER FLOW, EXPULSION, IMMITTANCE, MASTER-SLAVE FLOW,...).

In this mode, the FAN (V) button is active to choose the desired threshold.

Remote control	Remote panel
	

Pressing the relevant button will cause all units to run constantly in input with the ability to change the operating speed to suit your needs.

Usage tips
This mode is recommended in cases where there is a need to input a lot of fresh air at the expense of heat recovery, such as when rooms are frequented by many more people than in normal use (parties, celebrations, etc.).

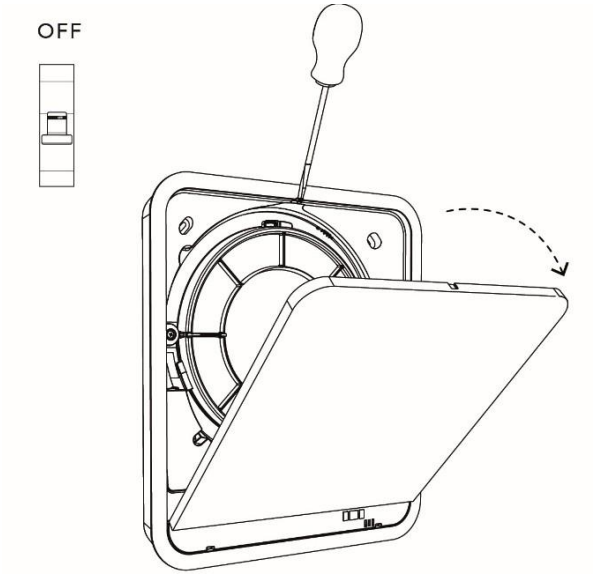
MAINTENANCE - PERIOD DIRECTIONS

Every 3,000 hours of operation, the indicator light on the MASTER fan unit will flash to remind you to service the products, at which point the products will continue to work in the function already set without the ability to change it until maintenance is done.
Once maintenance has been performed to reset the alarm you will need to press the FILTER (R) button on the remote control.
It is recommended that filters be changed when their wear and tear impairs air passage or their effectiveness has failed, or at most within 2 years.
Contact your dealer for a replacement filter kit.

MAINTENANCE - HOW TO PERFORM IT

All servicing of the equipment is intended only and exclusively for qualified personnel.
Ensure that the network connection in the installation room is disconnected before performing maintenance operations.

1



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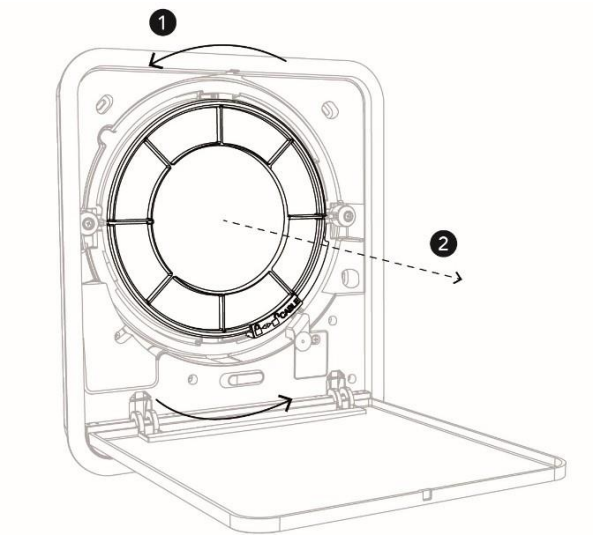

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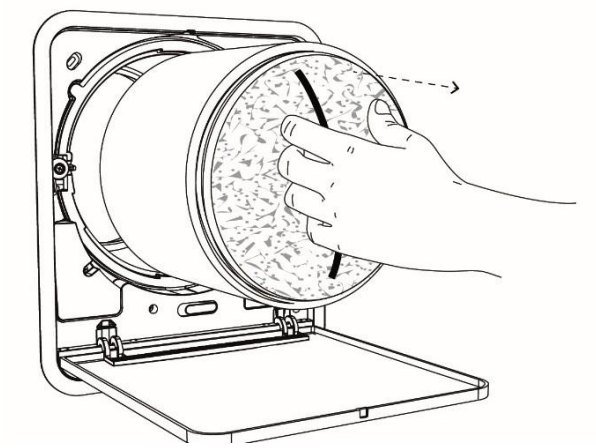

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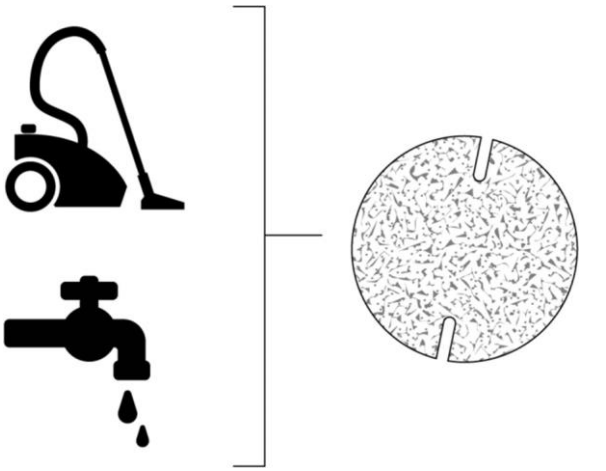

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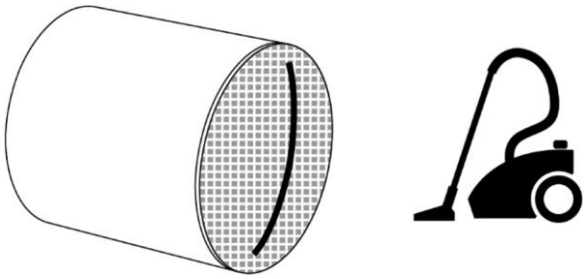

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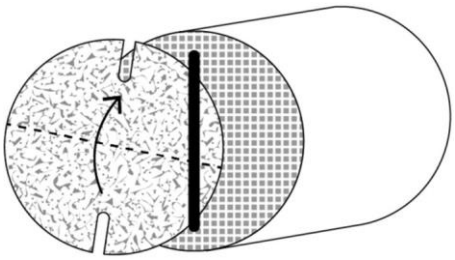

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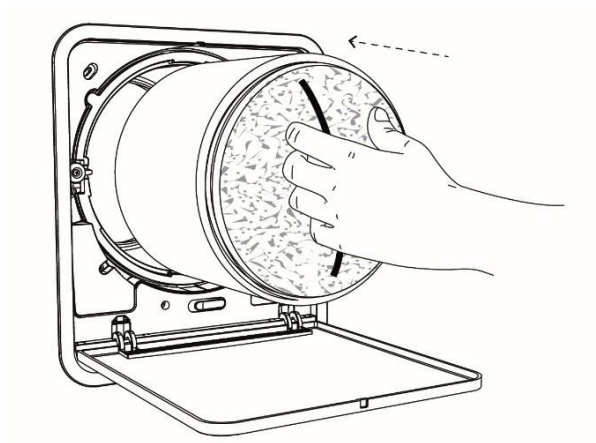

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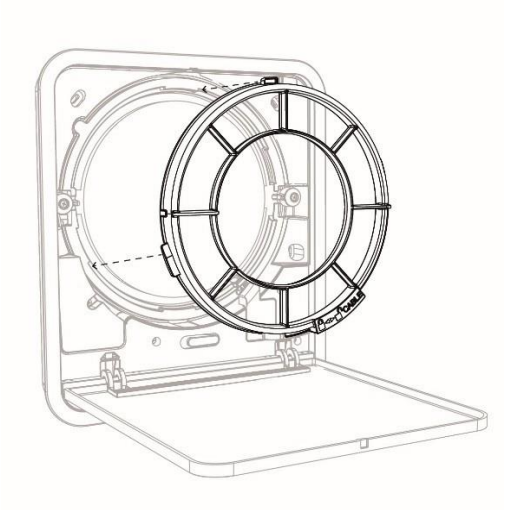

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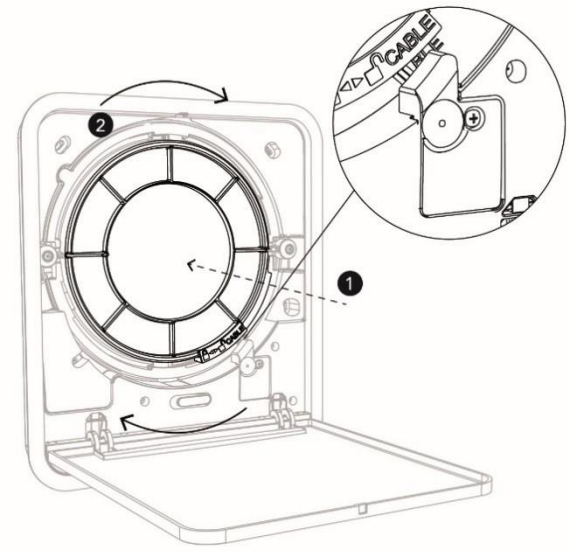

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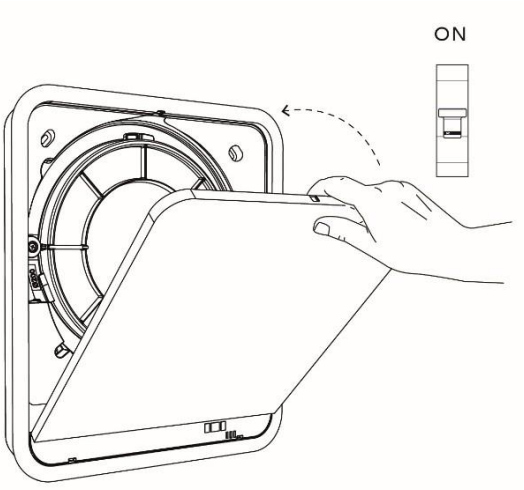


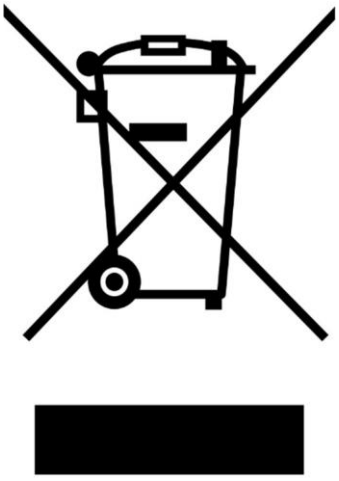
FAQ

The product does not turns on	Make sure the product is connected to the power supply properly Verify that the ON/OFF (I/O) switch is in the position of. ON (I)
The product turns on correctly but does not receive any signal from the remote control	Check that the remote control has the battery in it Check that the battery inside the remote control is charged Commands are received only from the MASTER unit of the system, be careful to send the command to the correct unit Check that the dip switches are set correctly (MASTER).
The product turns on, receives signals from the remote control but the fan does not run	Wait 40 seconds for the automatic damper to open Check that the product is not in surveillance mode Check that the fan is not blocked
The product receives no signal from the remote control and the red LED flashes	Perform maintenance and filter reset as indicated in the manual Check that the remote control has the battery in it Check that the battery inside the remote control is charged
The product works only in ejection mode and the red LED remains on	Raise the intervention threshold of the hygrostat with the H key.
The red LED on the SLAVE units flashes	MASTER-SLAVE communication interrupted Check that the products are properly connected to each other Check that the dip switches are set correctly

WARNING: In case the problem encountered is different from those listed or in case it is not solved by following the above steps, contact an authorized service center.

RECYCLING

This device was made from sustainable materials. Dispose of packaging responsibly and in accordance with local legal requirements.



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VERS. 09/2024

FITT VENTILATION SOLUTIONS
This is the business area of the FITT Group that develops professional solutions, manufacturing complete HRV (Heat Recovery Ventilation) and air distribution systems for the air quality of residential environments, for energy saving and the comfort of people.

For more information:

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