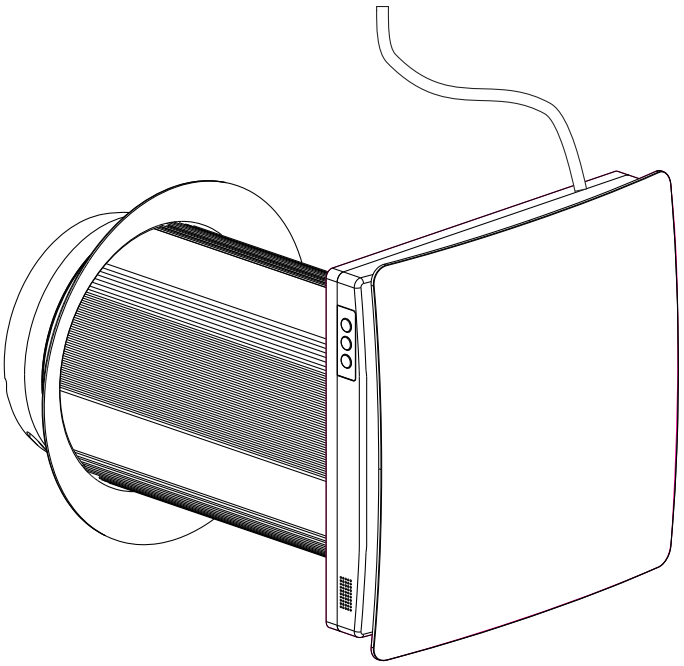
ENGLISH

CONTROLLED MECHANICAL VENTILATION UNIT

VT501, VT501-WF, VT125, VT125-WF



INDEX

ENGLISH

EN

SAFETY WARNINGS

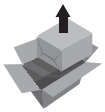
- Read this manual with attention before installing and operating the product.
- Follow the safety instructions to avoid any type of damage to the product or to persons.
- Installation and operation of the product shall be done in accordanceto the present manual and with regulations and Standard present in each country.
- We recommend you to check the state of the device and that it works as soon as you take it out from the wrap.
- It must be installed in accordance with the regulations in force in each country.
- If the product works as an extractor in a room in which a boiler or other type of system needing air for its combustion system is installed, be surek that the room' air intake is correctly dimensioned.
- The product exhaust cannot be connected to a pipe used to discharge fumes from devices powered by gas or other fuels.
- Do not insert any objects through the protective grille.
- Do not remove the front grille when the product is working.

SYMBOL LEGEND

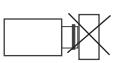
	WARNING!
	DO NOT!
	The device must only be installed, serviced and electrically connected by a qualified electrician and in compliance with regulations and laws in force.
	The product must be disconnected from the power supply prior to every installation or repair operation

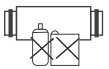
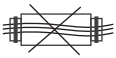
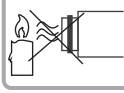
	The product can not be operated outside the temperature rangestatedintheuser'smanualorinaggressiveor explosive environments
	Do not position any heating devices or other equipment in close proximity to the product power cable

An omnipolar switch with a contact opening distance of 3 mm or higher should be provided for installation.

	While installing the product use only appropriate tools
	While installing the ventilator follow the safety regulations specific to the use of electric tools
	Unpack the ventilator with care. The packing materials must be kept out of children
	Use the product only as detailed in this manual.

SAFETY PRECAUTIONS

	Do not touch the product panel control with wet hands. Do not carry out the ventilator maintenance withwet hands
	Do not let children operate the product
	Do not wash the ventilator with water. Protect the ventilator electric parts from water contact
	Don’t obstruct the grille and air ducts
	Disconnect the ventilator from power supply before maintenance and cleaning
	Don't damage the power cable. Don't put any object on the cable

	Keep explosive and inflammable products away from the appliance
	Do not open the operating ventilator
	In case of unusual sounds, or smoke, disconnect the ventilator from power supply and contaci the service centre
	Do not let air flow exiting the be directed to the open flame devices

WIFI WARNINGS

Radio-frequency waves emitted from the Wi-Fi device do not pose a risk to human and animal health.

offline

Important : the manufacturer shall not, under any circumstances, be liable if the products fail to operate due to the interruption of the internet network or unavailability of these resources:
Cloud, Server, Portal.

Important : internet access costs are charged to users according to the rates of their mobile phone provider.

Important: the manufacturer reserves the right to make all technical and manufacturing modifications deemed necessary without prior notice.

IMPORTANT!

For a proper setting and operation of the WI-FI system and for a correct installation, consult the following specific chapters.

The accessory parts, spare parts and FAQ refer to the Internet site .

RADIO RANGE WARNINGS

EN

During installation, some precautions must be taken in order not to limit or, in some cases, inhibit the range of the radio waves between the Router and the connected devices.

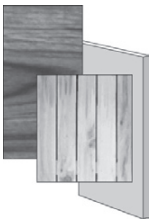
If there are no obstacles between the devices and the Router, the “open air” range is approximately 70 m; indoors with the presence of walls, the range is approximately 20 m.

The radio range decreases significantly when there are obstacles between the elements.

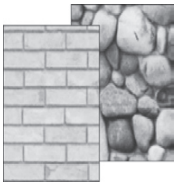
This reduction varies to different extents, depending on the type of material of the walls or the obstacles to be crossed.

Also the presence of interference of electromagnetic origin can reduce the indicated radio range.
At the side are a few examples of reduction related to the materials, which impact the flow in "Open air" as declared above.

THICK VEGETATION
radio range reduction 10%÷25%

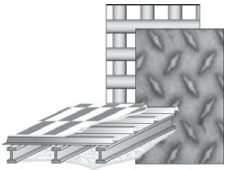


WOOD OR GYPSUM WALLS
radio range reduction 10%Ã·30%



BRICK OR STONE WALLS
radio range reduction 40%÷60%

REINFORCED CONCRETE WALLS
radio range reduction 50%÷70%



METAL WALLS and/or FLOORS
radio range reduction 65%÷90%

EN INTRODUCTION

This user's manual includes technical description operation, installation and mounting guidelines, technical data for the heat recovery ventilator

USE

- Theventilatorisdesignedtoarrangepermanentcontrollableairexchangeinapartments, villas,hotels,cafesandotherdomesticandpublicbuildings.Theventilatorisequipped with a ceramic heat exchanger that enables supply of fresh air and extract air with heat energy recovery.
- The ventilator is designed for through-the-wall mounting.The telescopic ventilator design enables its installation in the walls from 250mm to 600mm thickness for the recuperator.
- The ventilator is rated for continuous operation always connected to power mains.
- Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, coarse dust, soot and oil particles, sticky substances, fibrous materials, pathogens or any other harmful substances.

ATTENTION: The appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capability 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.
Children shall not play with the appliance.
Cleaning and user maintenance shall not be made by children without supervision.

DELIVERY SET

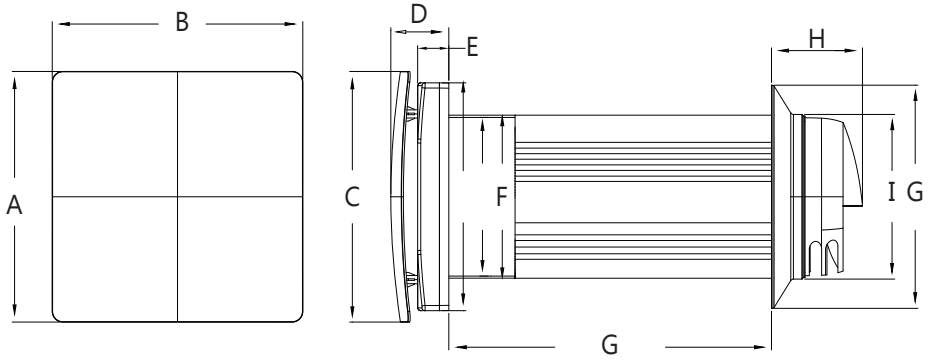
	Quantity
Ventilator	1
Fastening set	1
Remote controller	1
User's manual	1

MAIN TECHNICAL PARAMETERS

- The ventilator is designed for indoor application with the ambient temperature ranging from -20°C (-4°F) to + 50°C (122°F) and relative humidity up to 80%.
- The product is classified as class II electric appliance.
- Ingress Protection (IP) rating from solid objects and liquids: IPX4.
- The ventilator design is regularly improved, so some models may slightly differ from those ones described in this manual.

OVERALL DIMENSIONS (mm)

EN



Model	A	B	C	D	E	F	G	H	I	G
VT125	245	245	245	63.3	43.5	Φ125	320-500	86	Φ119	Φ183
VT501	242	242	242	56	30.1	Φ157.6	250-500	87.87	Φ 159	Φ215.5

TECHNICAL DATA OF VT125

Speed	Sleep	I	II	III
Voltage	100 ~ 240V 50/60Hz			
Max Power(W)	12			
Ventilator Total Power (W)	5.5	5.8	7.3	9.5
Max. Ventilator Current (A)	0.018	0.035	0.051	0.06
Max. Air Capacity (m^3/h)	20	30	45	60
RPM [min]	995	1475	2085	2535
Max. Transported Air Temperature	-20°C (-4°F) to +50°C (122°F)			
Heat Exchange Efficiency	up to 90%			
Heat Exchanger core	Ceramic			

TECHNICAL DATA OF VT501

Speed	I	II	III
Voltage	100 ~ 240V 50/60Hz		
Ventilator Total Power (W)	1.8	3.9	7.0
Max. Ventilator Current (A)	0.019	0.034	0.0533
Max. Air Capacity(m^3/h)	48	54	60
RPM [min]	651	956	1261
Max. Transported Air Temperature	-20°C (-4°F) to +50°C (122°F)		
Heat Exchange Efficiency	up to 90%		
Heat Exchanger core	Ceramic		

DESIGN AND OPERATING

The ventilator consists of the telescopie air duct with adjustable length regulated by position of the inner air duct inside the outer air duct, the ventilation unit and the ventilation hood.

Two filters and the ceramic core are locateci inside the inner duct.

The filters are designed to purify supply air and prevent foreign object ingress to the heat exchanger.

The ventilator unit is equipped with automatic shutter flap, the shuttershut off when the ventilation system is switched off and thus prevent the air return current.

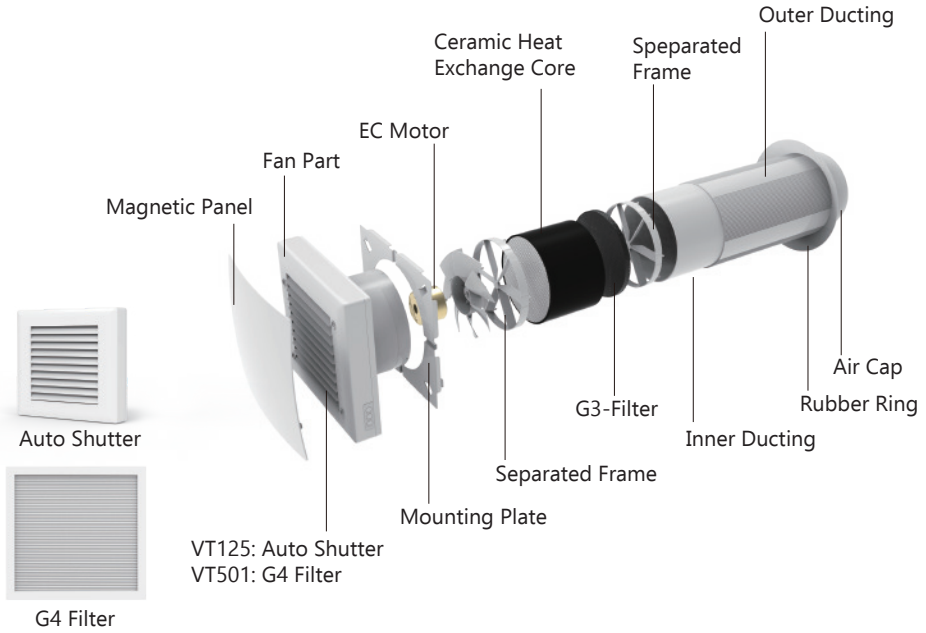
The ceramic heat exchanger extract air heat energy to warm up or cool down supply airflow.

The heat exchanger is equipped with a pull cord inside to facilitate its withdrawal from the ventilator. The heat exchanger is installed on an insulation materiai used as a sealant as well.

The ventilator must be installed on inner side of the wall.

The ventilation hood must be installed on outer side of the wall to prevent ingress of water and other objects to the ventilator.

COMPONENTS



OPERATING MODES

The ventilator has three ventilation modes:

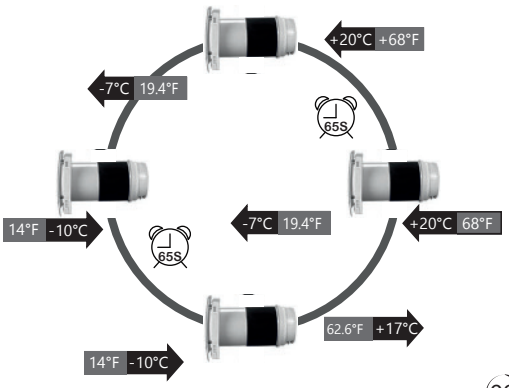
- Fresh Air Mode the ventilator supplies fresh air
- Exhaust Mode the ventilator operates in exhaust mode
- Cycle Mode the ventilator operates in reversible mode with heat and humidity recovery.

In cycle mode the ventilator operates in two cycles, 65 seconds each.

Cycle Ⅰ : Warm stale air is extracted from the room. As it flows through the heat exchanger, it heat and moisturizes the exchanger, transferring up to 90%. In 65 seconds as the ceramic exchanger gets warmed the ventilator is switched to supply mode.

Cycle Ⅱ : Fresh intake air from outside flows through the ceramic exchanger and absorbs moisture and heats up to the roomtemperature.

In 65 seconds as the ceramic regenerator gets cooled down, the ventilator is switched into extract mode and the cycle is renewed.

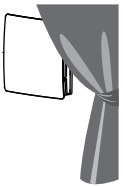


MOUNTING AND SET-UP

EN

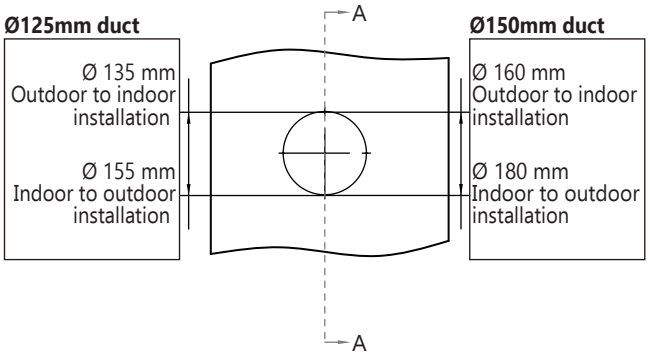
READ THE USER' S MANUAL PRIOR TO MOUNTING THE VENTILATOR.

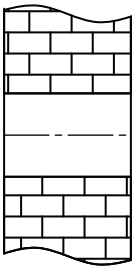
ATTENTION! THE VENTILATOR MUST NOT BE INSTALLED IN SITES WHERE THE AIR DUCT MAY BE CLOGGED BY THE BUNDS, CURTAINS, DRAPES, PLANTS, ETC, T0 PREVENT THE ROOM DUST DEPOSITION AND ACCUMULATION. ALSO, CURTAINS MIGHT OBSTRUCT NORMAL AIRFLOW IN THE ROOM, THUS RENDERING VENTILAIOR OPERATION NOT EFFICENT.



VENTILATOR MOUNTING

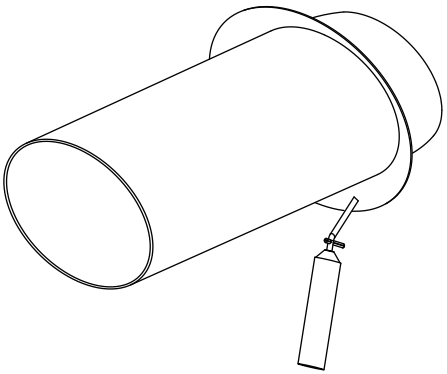
1. Prepare a round hole through in the wall. The hole size is shown below





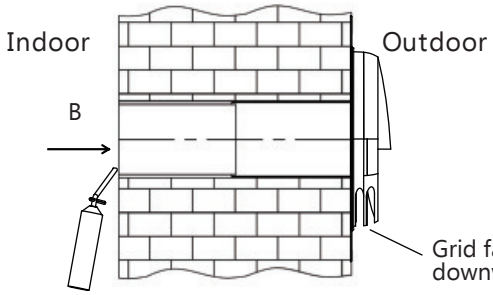
SECTION A-A

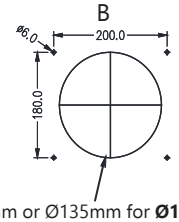
2. Assembly inner duct and outer duct together to adapt to the thinkness of wall.
   Cutting the duct adapt to the thin wall.Paste wateproof sealing glue on the inner side of rubber ring, show as below image.



EN

3. Throughthewallholefromindoor,andpullbacktheducttomaketheinnersiderubberring clingtotheoutsidewall.Filthegapbetweenthewallandductwithfoamglue(Using waterproof sealing glue for the gap dose to indoor to against rainwater). The inner duct should parallel with indoor wall surface.



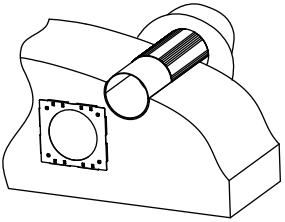


Ø155mm or Ø135mm for **Ø125mm duct**
Ø160mm or Ø180mm for **Ø150mm duct**

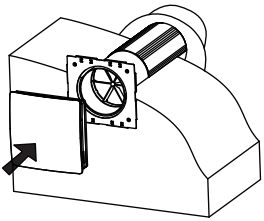
4. Paste the mounting plate on the wall surface.

Pay Attention to the direction to make sure the circle on the mounting plate and duct to be concentric.

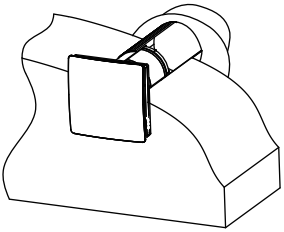
Marking the drilling hole site and remove the location sticker. Make 4 holes Ø 6 mm on the marking piace and put in the rubber plug (as pack accessories).



5. Install the filter, the ceramic exchanger core, another filter and the air flow rectifier in consecutive order inside the telescopie air duct.



6. Install the ventilation unit on the mounting plate. The ventilation unit is fixed with magnets.



CONNECTION TO POWER MAINS

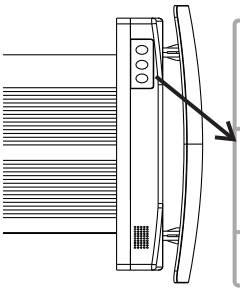
DISCONNECT THE VENTILATION FROM POWER MAINS PRIOR TO ANY ELECTRIC INSTALLATION OPERATIONS.

CONNECT THE VENTILATOR CORRECTLY WITH A GROUNDED TERMINAL ANY INTERNAL CONNECTION MODIFICATIONS ARE NOT ALLOWED AND RESULT IN WARRANTY LOSS.

The product is rated for connection to single-phase AC220-240 V~/ 50-60 Hz power mains. Connecttheventilatortothesocketdirectly.Anomnipolarswitchwithacontactopening distance of 3 mm or higher should be provided for installation.

OPERATION BUTTONS ON BOARD

EN

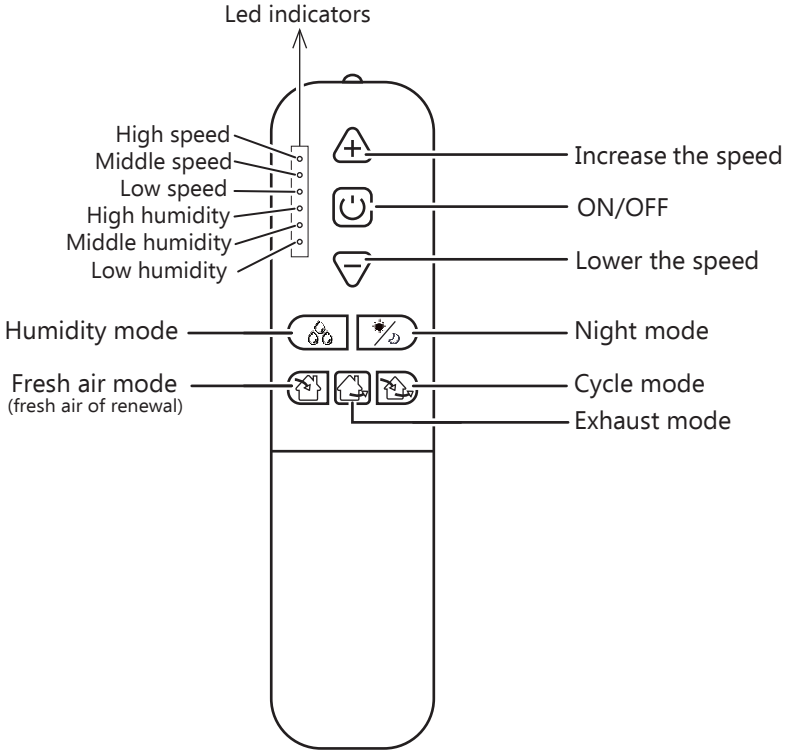


	Mode switching	Press with a beep	Fresh air mode
		Press with two beeps	Exhaust mode
		Press with three beeps	Cycle mode
	Speed switching	Press with a beep	Low speed
		Press with two beeps	Middle speed
		Press with three beeps	High speed
	ON/OFF	ON/OFF	

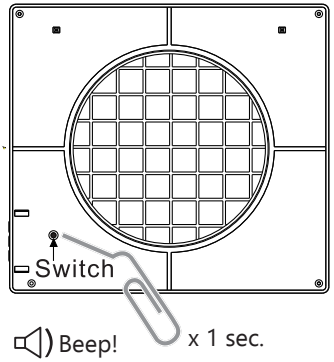
REMOTE CONTROL FUNCTION DESCRIPTION

Electrical parameter

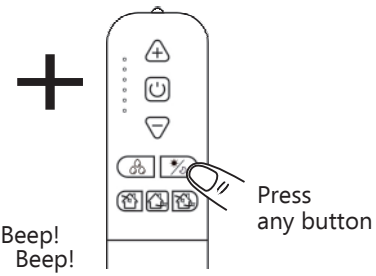
- Operating Voltage: n° 2 Batteries 1,5V type AAA
- Emission current <5mA
- Sleep standby current <10μA
- Effective control distance: walls >15mAir >30m
- Carrier frequency: 433.92M Hz



EN MATCHING THE REMOTE CONTROL TO THE PRODUCT



On the rear side of the product, insert a pin into the hole and gently press the button (Switch) until you hear a "beep". Then press any button on the remote control until you hear a "beep beep".
Active fan indicates successful pairing.



CONTROL KEYS OF THE PRODUCT WITH THE REMOTE CONTROL

1. «Turning ventilator ON/OFF» Key.

	ON/OFF

2. «**Night Mode**» key .

	Night mode ON/OFF

Activation of the night mode is confirmed by a long sound signal. Exiting the night mode is confirmed by a short sound signal.

3. «Speed setting ventilator» keys.

	Press to increase speed
	press to decrease speed

At each setting (Low, Middle, High) the corresponding LED on the remote control lights up, see the figure on the previous page.

4. Operating mode keys.

	Fresh Air mode (fresh air of renewal) Air is supplied to the room at a set speed regardless.
	Exhaust mode Air is extracted (factory setting) at a selected speed.
	Cycle mode The ventilator operates 65 seconds in Supply mode and then 65 seconds in Exhaust mode with heat regeneration.

5. Humidity control key.
Humidity control is possible only in Regeneration mode (can be activated by remote control or APP).

	Humidity mode

On the remote control, press the pulse button to sequentially set the desired humidity threshold, see the table below.
At each setting (Low, Middle, High) the corresponding LED on the remote control lights up, see the figure on the previous page.

LOW	Setting humidity threshold 50%.
MEDIUM	Setting humidity threshold 60%.
HIGH	Setting humidity threshold 70%.

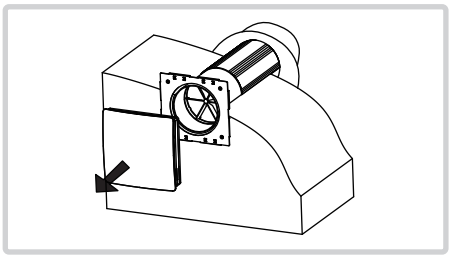
MAINTENANCE

DISCONNECT THE VENTILATOR FROM 230V~ POWER SUPPLY PRIOR TO ANY MAINTENCE OPERATIONS.

Maintenance of the ventilator means regular cleaning of the ventilator surfaces of dust and cleaning or replacement of the filters.

1. Fan maintenance
(Once per year)

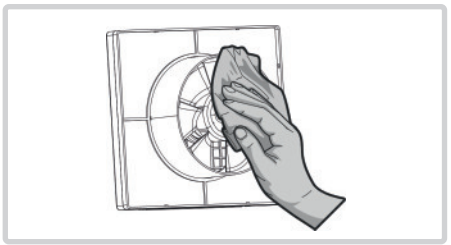
Pull the ventilator to remove.



Clean the impeller blades.

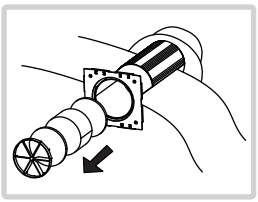
To remove dust use a soft brush, doth or a vacuum cleaner. Do not use water,abrasive detergents, solvents, sharp objects.

The impeller blades must be cleaned once in year.



2. Regenerator and filter maintenance
(4 times per year).

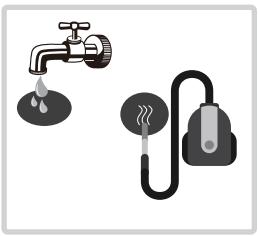
Remove the air flow rectifier. Remove the filter in front of the regenerator. Pull the exchanger cord to remove from the air duct. Be careful while pulling the Excharger to avoid damage.



Remove the filter after the exchanger.

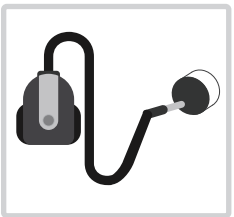
Clean the filter as often as it gets dirty, but at least 3-4 times a year. Clean the filters, let them get dry and install the dry filters inside the air duct Vacuum cleaning is allowed.

The filter rated service life is 3 years.



Contact the Seller for spare filters.

Even regular technical maintenance may not completely prevent dirt accumulation on the regenerator assemblies. Subject the exchanger to regular cleaning to ensure high heat exchange efficiency. Clean the exchanger with a vacuum cleaner at least once in a year.

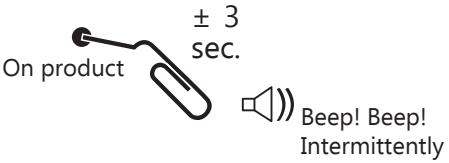


EN

MATCHING WITH SMARTPHONE (APP)

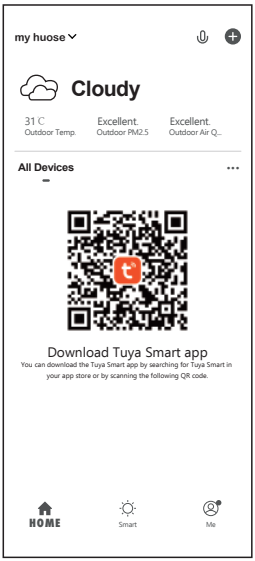
For downloading the APP scan the QR code below.

On the rear side of the product there is an hole, press the button inside for an extended time, then release the pressure. The product will emit intermittent acoustic signals.



Be sure that the Smartphone Bluetooth is activated, then enter the APP Perry Smart and add the product to the APP selecting +.

When the product is in proximity it will appear available for selection, then select AGGIUNGI for sharing the WI-FI network to be associated. The connection procedure is finished. and now it is possible to control the product with smartphone.



TROUBLESHOOTING

Fault	Possible reasons	Fault handling
The fan does not start up during the ventilator start-up	No power supply	Make su re that the ventilator is properly connected to the Power mains and make any corrections, if necessary
	Motor is jammed, the impellers are clogged	Turn the ventilator off. Troubleshoot the motor jam and the impeller dogging. Clean the blades. Restart the ventilator
Automatic switch tripping following the ventilator turning on.	Overcurrent resulted from short circuit in the electric circuit.	Turn the ventilator off. Contact the service center
Low air flow	Low set fan speed	Set higher speed
	The filter, the fan or the exchanger are dirty.	Clean or replace the filter, clean the fan and the exchanger. For the exchanger and the filter maintenance, refer to page 29
The ventilator generates sound signals	The operating time meterfor filter replacement is activated.	For the exchanger and the filter maintenance, refer to page 29
High noise, vibration	The impeller is soiled	Clean the impeller
	Loose screw connection of the ventilator casing or the ventilation hood	Tighten the screws of the ventilator or the outer ventilation hood.
Remote control is not working	Batteries are not inserted correct and they discharged	Control the polarity is correct or sobstitute the batteries

STORAGE AND TRANSPORTATION RULES

EN

Store the product in the manufacturer originai packing box in a dry storage environment must not contain EN aggressive vapours and chemical mixtures provoking corrosion, insulation and sealing deformation.

Use hoist machinery for handling and storage operations to prevent the ventilator damage in consequenceof failing or excessive oscillation.

Fulfil the handling requirements applicable for the applicable freight type.

Transportation with any vehicle type is allowed provided that the ventilator is protected against mechanical and weather damage

Avoid any mechanical shocks and strokes during handling operations.

DISPOSAL OF OLD ELECTRICAL & ELECTRONIC EQUIPMENT

This symbol on the product or its packaging to indicates that this product shall not be treated as household waste.

Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment, such as for example:

- sales points, in case you buy a new and similar product.
- local collection points (waste collection centre, local recycling center, etc...).

By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handing of this product.

The recycling of materials will help to conserve natural resources.

For more detailed information about recycling of this product, please contact your localcityoffice,yourhouseholdwastedisposalserviceortheshopwhereyou purchased the product.