

Breezy 160-E
Breezy 160-E-Smart

Breezy 200-E
Breezy 200-E-Smart



Single Room Heat Recovery Ventilation Unit

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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 Breezy 160-200-E (Smart) unit and all its modifications.

Technical and maintenance staff must have theoretical and practical training in the field of ventilation systems and should be able to work in accordance with workplace safety rules as well as construction norms and standards applicable in the territory of the country.

SAFETY REQUIREMENTS

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

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

Cleaning and user maintenance shall not be made by children without supervision. Children shall not play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a safety hazard.

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

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

Ensure that the unit is switched off from the supply mains before removing the guard.
Do not attach the product to the support using glue or adhesives. Use only the fastening method specified in the «User's manual».

All operations described in this manual must be performed by qualified personnel only, properly trained and qualified to install, make electrical connections and maintain ventilation units.
Do not attempt to install the product, connect it to the mains, or perform maintenance yourself. This is unsafe and impossible without special knowledge.

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

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

Disconnect the unit from the power supply prior to any connection, servicing, maintenance, and repair operations.

Connection of the unit to power mains is allowed by a qualified electrician with a work permit for the electric units up to 1000 V after careful reading of the present user's manual.

Check the unit for any visible damage of the impeller, the casing, and the grille before starting installation. The casing internals must be free of any foreign objects that can damage the impeller blades.

While mounting the unit, avoid compression of the casing! Deformation of the casing may result in motor jam and excessive noise.

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

Transported air must not contain any dust or other solid impurities, sticky substances, or fibrous materials.

Do not use the unit in a hazardous or explosive environment containing spirits, gasoline, insecticides, etc.

Do not close or block the intake or extract vents in order to ensure the efficient air flow.

Do not sit on the unit and do not put objects on it.

The information in this user's manual was correct at the time of the document's preparation.

The Company reserves the right to modify the technical characteristics, design, or configuration of its products at any time in order to incorporate the latest technological developments.

Never touch the unit with wet or damp hands.

Never touch the unit when barefoot.

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



THE PRODUCT MUST BE DISPOSED SEPARATELY AT THE END OF ITS SERVICE LIFE.

DO NOT DISPOSE THE UNIT AS UNSORTED DOMESTIC WASTE

PURPOSE

The ventilator is designed to ensure continuous mechanical air exchange in flats, cottages, hotels, cafés and other domestic and public premises. The ventilator is equipped with a regenerator that enables supply of fresh filtered air heated by means of extract air heat energy recovery.

The ventilator is designed for installation on external walls.

The ventilator is rated for continuous operation.

DELIVERY SET

Name	Quantity
The unit	1 pc.
Remote control	1 pc.
Mounting kit	1 pc.
Mounting wedges	1 set
Mounting template	1 pc.
User's manual	1 pc.
Packing box	1 pc.

DESIGNATION KEY

Breezy 160 - E Smart

Modification

_ – without CO₂/VOC sensor

Smart – with CO₂/VOC sensor

Electric heater

Air duct diameter

160 – 160 mm

200 – 200 mm

Model with copper recuperator

TECHNICAL DATA

The temperature in the room where the indoor unit of the ventilator is installed must be in the range from +1 °C to +40 °C and relative humidity up to 70% (without humidity condensation). If the conditions for using the ventilator exceed the specified limits, switch off the ventilator. Provide fresh air through the windows.

The temperature of the transported air should be in the range from -30 °C to +40 °C.

The power consumption of the product depends on the use of the built-in heaters. The power consumption ranges without the use of the heaters (mode 1) and with the use of the heaters (mode 2) are indicated on the label.

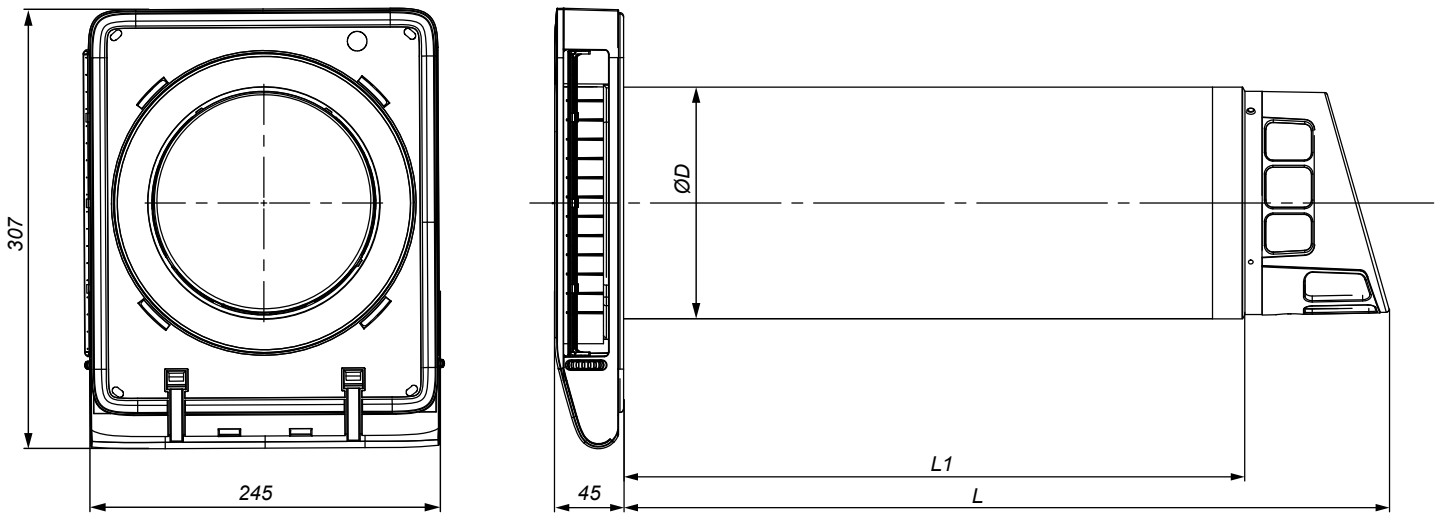
The unit is rated as a class II electric appliance.

Ingress protection rating against access to hazardous parts and water ingress is IP24.



The unit design is constantly being improved, thus some models may slightly differ from those described in this manual.

The figure below shows the overall dimensions of the product.



	ØD	L	L1
Breezy 160-E	162	540	439
Breezy 200-E	206	553	447

Attention! The recommended minimum wall thickness is 400 mm.

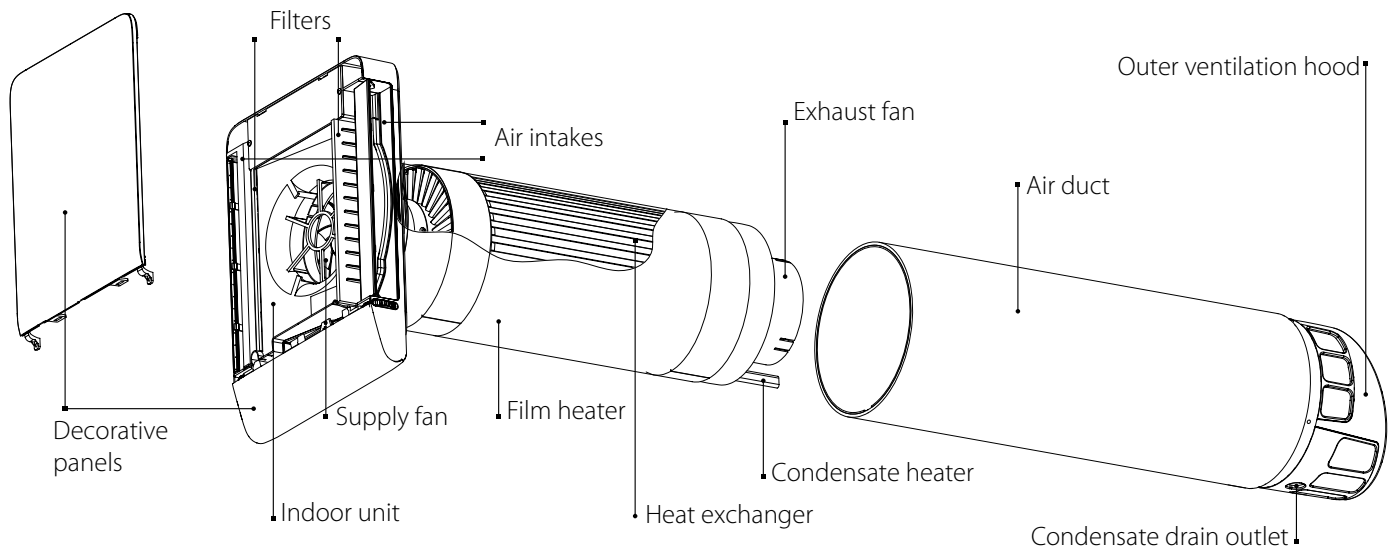
DESIGN AND OPERATING PRINCIPLE

The unit consists of an air duct and a work module with an indoor unit. The work module contains fans, a heat exchanger, and heaters. The indoor unit is equipped with filters. The filters are designed to clean the air and prevent dust and foreign objects from entering the heat exchanger and the fan.

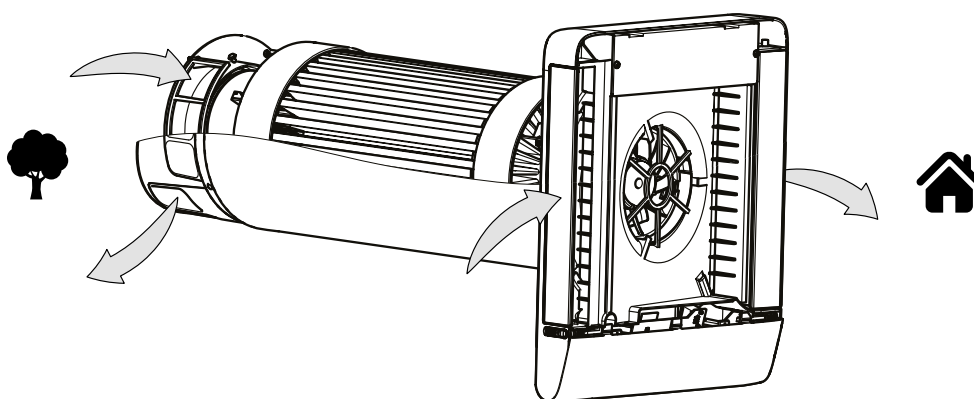
The heat exchanger uses the heat energy contained in the exhaust air to heat the supply air.

The unit is installed from inside the room.

On the outdoors side, there is an outer ventilation hood to provide directional airflow and prevent water and large foreign objects from entering the unit.



During the operation of the unit, the air flows through the heat exchanger located in the work module. This allows the exhaust air to transfer heat to the cooler supply air, ensuring high quality ventilation.



MOUNTING AND SET-UP

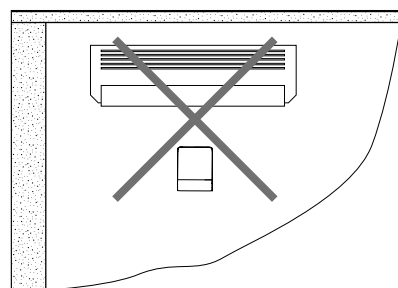
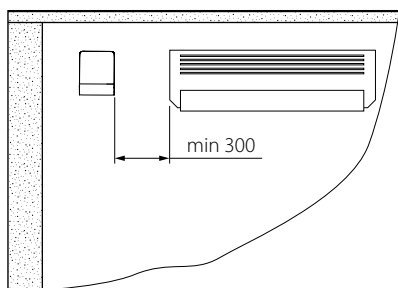
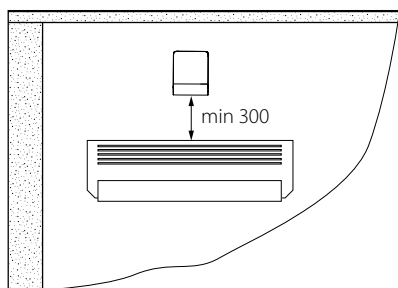


READ THE USER'S MANUAL BEFORE INSTALLING THE UNIT.

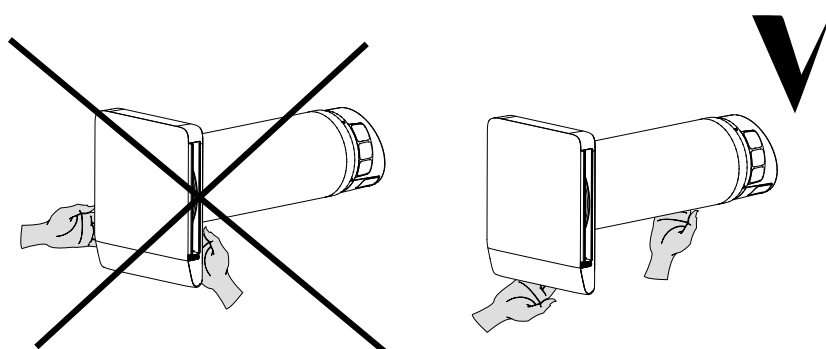
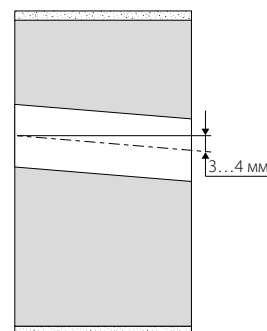
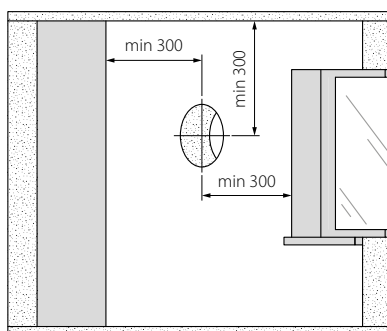


DO NOT BLOCK THE AIR DUCT OF THE INSTALLED VENTILATOR WITH DUST ACCUMULATING MATERIALS, SUCH AS CURTAINS, CLOTH SHUTTERS, ETC. AS IT PREVENTS AIR CIRCULATION IN THE ROOM.

1. An air conditioner and the product can work in the same room at the same time and complement each other: while the air conditioner cools the air, the product helps to keep the air in the room cool and fresh and, in the same way, keeps the heat generated by the air conditioner in the room during the cold season. If the product is installed in the same room as an air conditioner, ensure that the recommended distance between the two appliances is maintained to ensure that both operate efficiently.

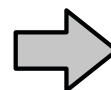
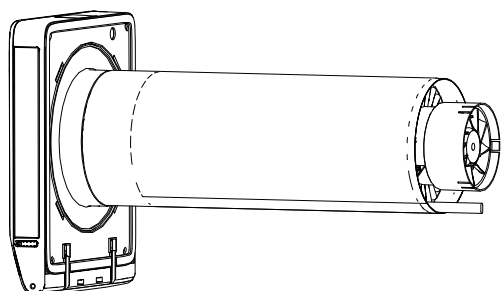


2. Prepare a circular opening in the outside wall of the room with a minimum diameter of 162 mm for Breezy 160-E and 206 mm for Breezy 200-E, sloping downwards towards the street.

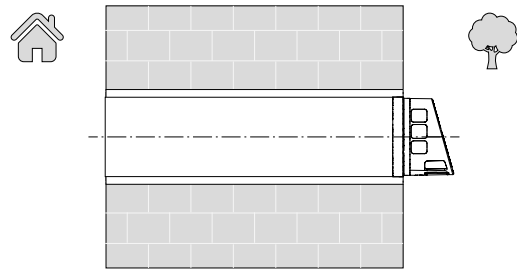


3. Disconnect the air duct and the work module.

WARNING. Do not connect the product to the power mains when it is disassembled.



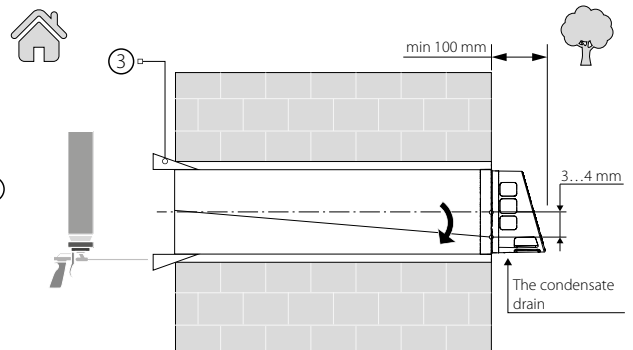
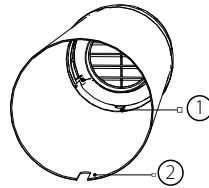
4. Install the air duct in the hole so that the end of the air duct is flush with the inside surface of the wall.
The condensate drain (item 1) and the cut-out in the air duct (item 2) must face downwards.



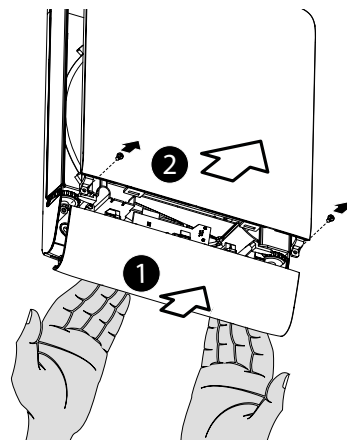
Do not block the air intake grilles or the condensate drain outlet. If necessary, use the supplied mounting wedges (item 3) and sealing foam to ensure that the air duct is fixed in an airtight and immovable manner in the opening.

The outer ventilation hood must not be turned upside down. The condensate drain (item 1) and the cut-out in the air duct (item 2) must face downwards.

WARNING. Do not deform the air duct when using mounting wedges or sealing foam.



5. To remove the bottom panel (item 1), pull the bottom edge towards you.
Remove the upper decorative panel (item 2) from the work module by unscrewing the corresponding screws.

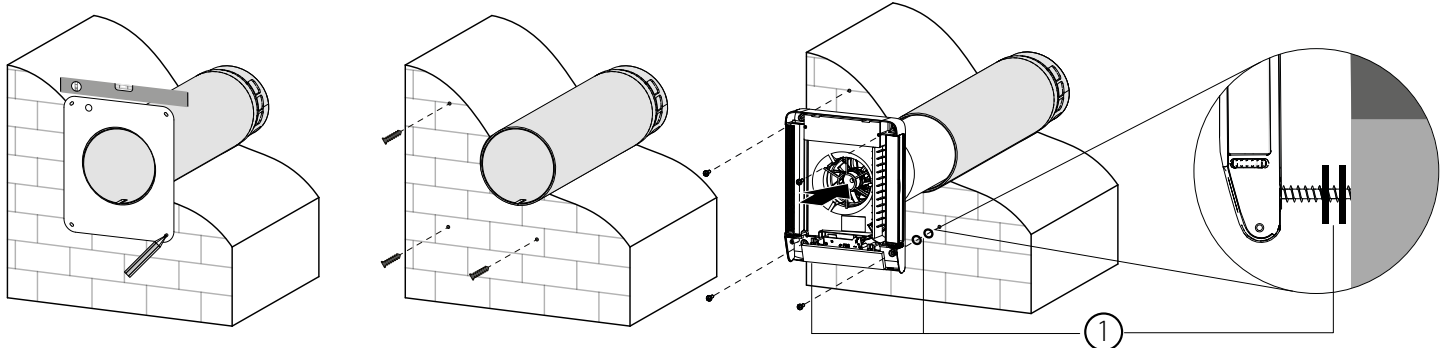


6. Place the mounting template on the wall. Align it with a building level.

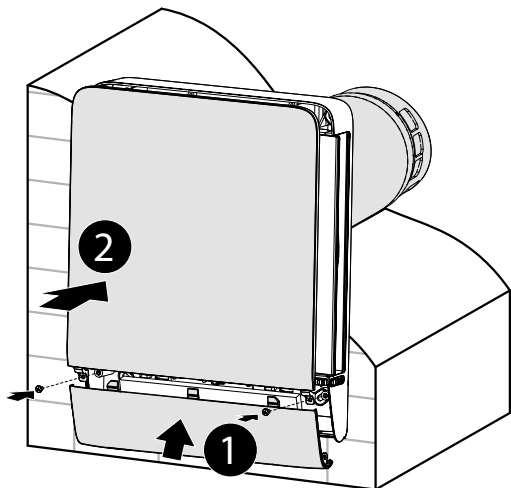
Use a pencil or marker to mark the locations of the dowels. Drill the holes and install the dowels.

7. Install the work module in the opening. Secure the back of the room unit with the screws.

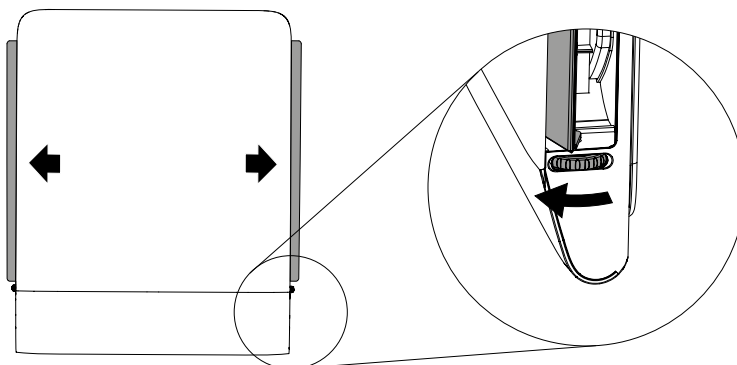
Use the spacers supplied (item 1) to prevent deformation of the room unit parts when tightening the lower fixing screws.



8. Install the decorative panels.



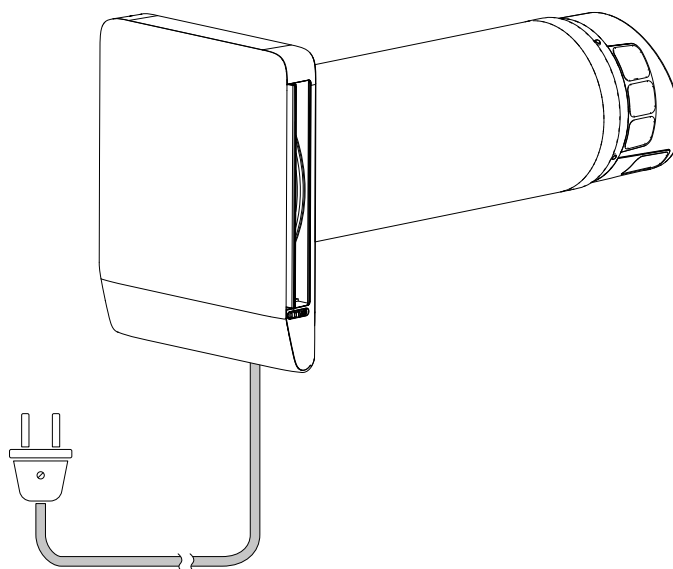
9. Open the air intakes before switching on the system.
If the air intake is not open and the product is running, it may damage the unit and cause it to malfunction.



CONNECTION TO POWER MAINS

The product is connected to a single-phase 230 V, 50 Hz AC mains supply by means of a power cable with a factory-fitted plug.

ATTENTION! Do not connect the product via any type of speed controller - thyristor, autotransformer, frequency controller, etc.



THE PRODUCT CONSISTS OF ELEMENTS THAT ARE AN INTEGRAL PART OF THE PRODUCT.

**THE CORRECT OPERATION OF THE PRODUCT IS ONLY POSSIBLE IN THE CONFIGURATION AND DESIGN SUPPLIED BY THE MANUFACTURER.
IN THE EVENT OF INTERFERENCE WITH THE PRODUCT DESIGN OR CHANGES TO THE WIRING DIAGRAM, THE MANUFACTURER IS NOT RESPONSIBLE FOR THE PRODUCT'S SERVICEABILITY AND DOES NOT ASSUME ANY WARRANTY OBLIGATIONS**

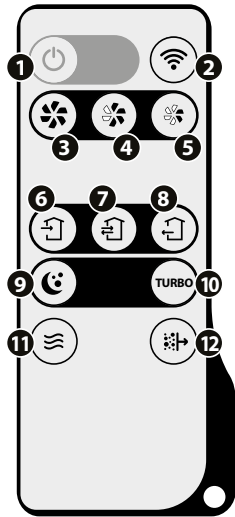
UNIT CONTROL

The product can be controlled using the remote control, a mobile app via Wi-Fi and the Google Assistant voice assistant.

Description of the remote control

The function of the remote control buttons is shown in the figure below.

When the product is turned on using the **ON/OFF** button on the remote control, it will operate in the mode in which it was turned off. The functions of the buttons may vary and depend on the system configuration, for details please refer to this manual for each function or operating mode.



- 1 – Turning ON/OFF
- 2 – Wi-Fi connection mode between the product and smartphone
- 3-5 – Changing speeds
- 6-8 – Supply only / Recovery only / Extraction only
- 9 – Night timer. Speed 1 (8 hours)
- 10 – Turbo timer. Speed 3 (4 hours)
- 11 – Heater activation (film heater)
- 12 – Resetting the filter replacement timer.
To reset the filter timer, press and hold the button for 3 seconds until you hear a beep. Reset is also available in the mobile app.

Resetting to factory default - press and hold button '1' for 10 seconds until you hear a beep.

Connecting your mobile device to the product

When controlling the product from a smartphone, some functions may change after an update.

In the event of a software update, some descriptions in this manual may no longer be relevant.

You can download the app by following the link to the App Store or Play Market, or by using QR codes.

[Home – App Store](#)



[Home – Play Market](#)



Wi-Fi specifications

Standard	IEEE 802,11, b/g/n
Frequency range, GHz	2,4
Transmission power, mW (dBm)	100(+20)
Network	DHCP
WLAN security	WPA, WPA2

To start controlling the product, first connect to it as a Wi-Fi access point with the name FAN: + 16 characters of the ID number indicated on the control board and on the product body.

Wi-Fi access point password: 11111111.

In the app, you can configure the product for connection via your home Wi-Fi network and via a cloud server.

There is a **Setup Mode** to reset the Wi-Fi password or to connect to the product to change settings.

To activate this mode, press and hold the '2' (Wi-Fi) button on the remote control for 3 seconds until you hear a beep and the Wi-Fi indicator on the front of the product starts to flash slowly.

Wi-Fi indicator on the front panel:

Flashes rapidly	Connection problems
Flashes slowly	Setup Mode is active
Stays continuously lit	Wi-Fi is connected to your home network
Does not lit up	Wi-Fi works in the access point mode or is turned off by the user via the mobile app

The main modes, functions, settings available in the mobile application are as follows:**On/Off**

The product can operate in passive ventilation mode when the air intakes are open and the motors are off.

This is achieved by movement of uncontrolled air flows through the heat exchanger.

Changing the speeds: 1, 2, 3

Selecting the appropriate fans speed. It is controlled by pressing the buttons on the remote control or in the mobile app.

Ventilation direction: supply, exhaust, recovery. Selecting the air flow direction.

It is controlled by pressing the buttons on the remote control or in the mobile app.

Weekly schedule

It is activated using the mobile app. It has the lowest priority. It is used to set the product to operate according to a schedule.

To ensure that the mode works properly, make sure that the date and time are set correctly.

Night mode

The minimum and quietest operating mode of the system, which is designed for night operation.

It is activated by pressing the button on the remote control or in the mobile app.

Turbo mode

Activated by pressing the button on the remote control or in the mobile app. Operating mode at the highest fan speed.

The corresponding indicator on the information panel is lit up.

Auto mode

This mode ensures a smooth increase in the fan speed relative to the currently selected speed based on the worst indicator (RH, CO₂, VOC)*. The corresponding indicator on the information panel is lit up.

Graph of air quality changes (30 days): room temperature, RH, CO₂, VOC*

The sensors installed in the product are not a metrologically accurate means of measurement.

The sensors are designed to monitor changes in air quality and temperature conditions to control the system accordingly.

The IAQ index is determined based on a VOC sensor.

*Availability of CO₂, VOC sensors depends on the product model.

The indoor air quality (IAQ) classification index for volatile organic compounds in the air is shown in the table below.

IAQ	Air quality	Influence (long term)	Recommended action
0—50	Excellent	Fresh air; best for well-being	No action required
51—100	Good	Does not irritate mucous or respiratory passages and does not affect well-being	No action required
101—150	Mild contamination	May cause a reduction in well-being	Ventilation is recommended
151—200	Medium contamination	More significant mucous membrane and respiratory tract irritation possible	Increase ventilation with clean air
201—250	Strong contamination	Exposure may cause effects such as headache	Optimize ventilation
251—350	Very heavy contamination	More serious health problems possible	Contamination should be identified if this level is reached even without people present; increase ventilation and reduce attendance
> 351	Extreme contamination	Headaches possible, additional neurotoxic effects	Contamination should be identified, avoid presence in the room and ventilate as much as possible

Heat exchanger anti-icing protection

This mode is used to prevent the product from icing up and involves activation of the condensate heater and the heater. The heat exchanger anti-icing protection activates automatically when the outdoor temperature drops to 0 °C and deactivates when the outdoor temperature rises to +2 °C. When the product is operating in this mode, the supply fan speed may decrease. When this mode is activated, a corresponding indicator is displayed in the mobile app.

Re-heater

The heater turns on automatically when the outside temperature drops below +4 °C. If the temperature supplied to the room is higher than +24 °C, the heater turns off automatically. In other cases, the heater can be turned on or off by pressing a button on the remote control or in the mobile app. The corresponding indicator in the information panel lits up red.

Temperature measurement accuracy ± 2 °C.

Filter replacement timer

You can set up a filter replacement timer. This function roughly indicates how dirty the filter is so that it can be cleaned or replaced. After the set time has elapsed (90 days by default), the filter replacement indicator appears.

Light sensor to automatically change display brightness

To make the product easier to use in the dark, there are several levels of display brightness. Display brightness adjusts automatically and can be changed in the mobile app. The indication can be disabled.

Malfunctions	
1	Fans malfunction

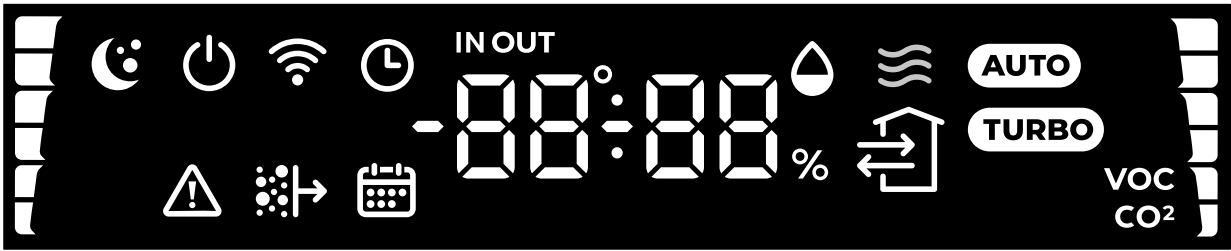
Warnings	
1	Air filter maintenance
2	Temperature sensor problems

Mode priority:













1. Night or Turbo
2. Standby
3. Auto
4. Weekly schedule
5. Normal mode

Description of the system display

Depending on the model, the product can be equipped with a display. The illustration below is an illustration of the screen layout. Indication on the display may differ depending on the system configuration. The display is configured using the mobile app.



The digital segment of the display shows information such as time, temperature, humidity or all of them in sequence. You can also select the temperature sensor to display (outdoor, supply air, indoor) and select a CO₂ or VOC sensor. The scale on the right shows the fan speed. The scale on the left shows the air quality.

	- Error indicator		- Supply only / Recovery only / Extraction only indicator
	- Filter replacement indicator		- Timer
	- Night mode indicator		- Calendar
	- Heater indicator (film heater)		- Indoor/outdoor temperature
	- Auto mode indicator		- Wi-Fi indicator
	- Turbo mode indicator		- Power on indicator
			- Air quality/carbon dioxide indicator

TECHNICAL MAINTENANCE



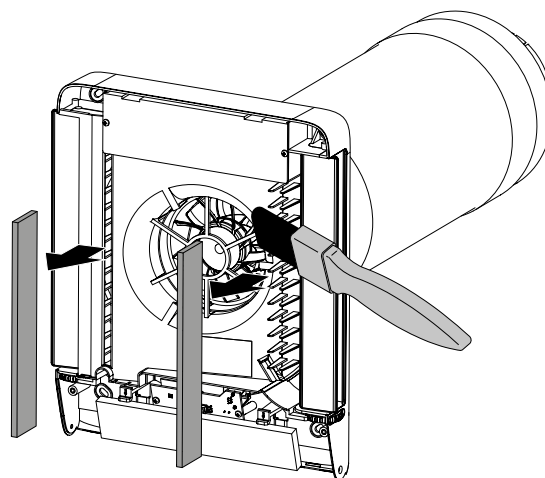
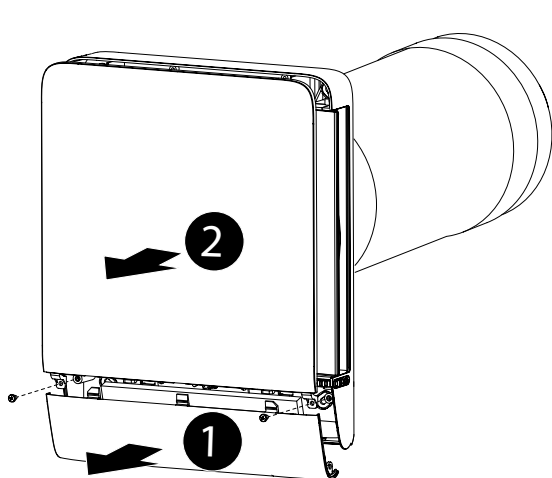
DISCONNECT THE PRODUCT FROM THE POWER SUPPLY BEFORE PERFORMING ANY MAINTENANCE WORK

Maintenance of the ventilator means regular cleaning of the ventilator surfaces of dust and cleaning and replacement of the filters. To access the filters, remove the decorative panels from the work unit. Remove the filters.

Clean the filter as soon as it becomes dirty, but at least once every 3 months.

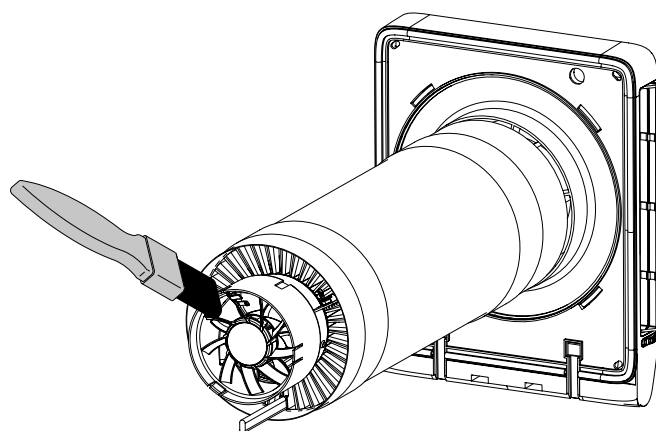
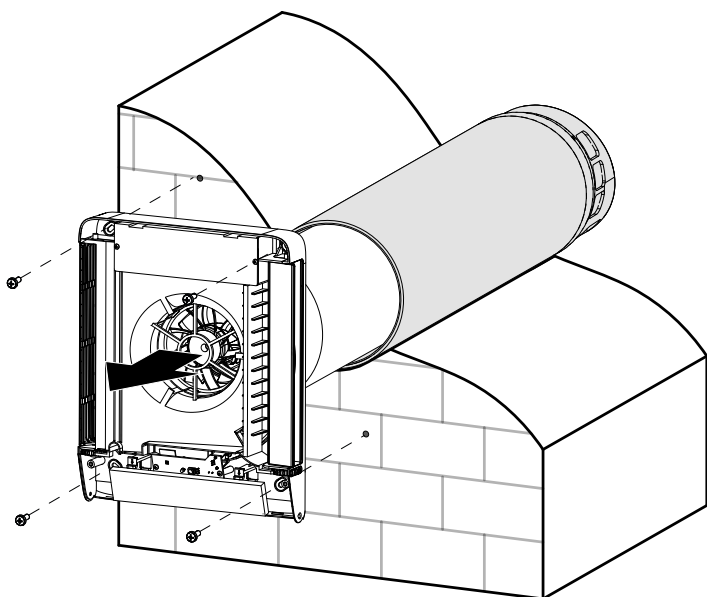
- The filter must be washed and dried, then reinserted into the air intake when dry.
- Cleaning with a vacuum cleaner is permitted.
- Filter service life is 3 years.
- To purchase new filters, contact your dealer.

To access the main assemblies for service, follow these steps:



Remove the front panel from the work module. Disconnect the cable and wires.

Remove the cover. Unscrew the four screws holding the indoor unit, then remove it from the air duct.



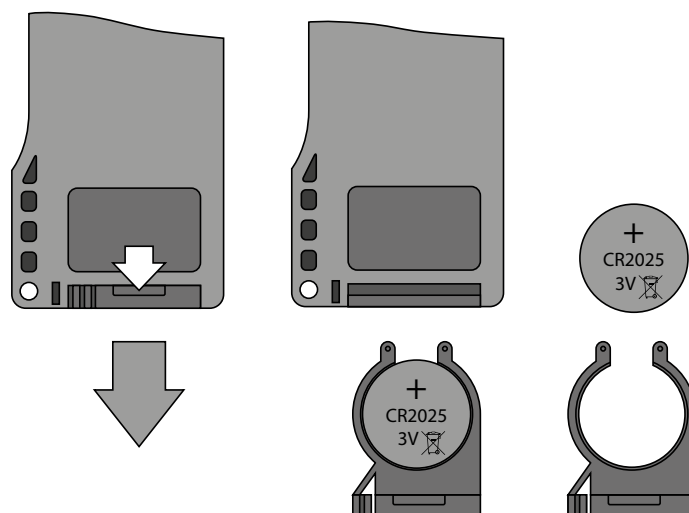
If necessary, the remote control battery may be replaced.

No response of the unit for pressing the remote control buttons indicates the need to replace the battery.

The battery type is CR2025.

Remove the holder with the battery from the lower part of the remote control.

Replace the battery and install the holder with a new battery back to the remote control.



POSSIBLE REASONS AND TROUBLESHOOTING

Problem	Possible reasons	Troubleshooting
When switching on the ventilator, the fan does not start.	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot the connection error.
	The motor is jammed, the impeller blades are soiled.	Turn the ventilator off. Troubleshoot the motor jam and impeller clogging. Clean the blades. Restart the ventilator.
Circuit breaker tripping during the ventilation unit start-up.	Overcurrent as a result of short circuit in the electric line.	Turn the ventilator off. Contact the Seller for further information.
Low air flow.	Low set fan speed.	Set higher speed.
	The filters, the fan or the regenerator are clogged.	Clean or replace the filter. Clean the fan and the regenerator.
Noise, vibration.	The impeller is clogged.	Clean the impeller.
	Loose screw connection of the unit casing or the outer ventilation hood.	Tighten the screws of the ventilator or the outer ventilation hood.

STORAGE AND TRANSPORTATION REGULATIONS

- Store the unit in the manufacturer's original packaging box in a dry closed ventilated premise with temperature range from +5 °C to + 40 °C and relative humidity up to 70 %.
- Storage environment must not contain aggressive vapors and chemical mixtures provoking corrosion, insulation, and sealing deformation.
- Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.
- Follow the handling requirements applicable for the particular type of cargo.
- The unit can be carried in the original packaging by any mode of transport provided proper protection against precipitation and mechanical damage. The unit must be transported only in the working position.
- Avoid sharp blows, scratches, or rough handling during loading and unloading.
- Prior to the initial power-up after transportation at low temperatures, allow the unit to warm up at operating temperature for at least 3-4 hours.

MANUFACTURER'S WARRANTY

The product is in compliance with EU norms and standards on low voltage guidelines and electromagnetic compatibility. We hereby declare that the product complies with the provisions of Electromagnetic Compatibility (EMC) Directive 2014/30/EU of the European Parliament and of the Council, Low Voltage Directive (LVD) 2014/35/EU of the European Parliament and of the Council and CE-marking Council Directive 93/68/EEC. This certificate is issued following test carried out on samples of the product referred to above.

The manufacturer hereby warrants normal operation of the unit for 24 months after the retail sale date provided the user's observance of the transportation, storage, installation, and operation regulations. Should any malfunctions occur in the course of the unit operation through the Manufacturer's fault during the guaranteed period of operation, the user is entitled to get all the faults eliminated by the manufacturer by means of warranty repair at the factory free of charge. The warranty repair includes work specific to elimination of faults in the unit operation to ensure its intended use by the user within the guaranteed period of operation. The faults are eliminated by means of replacement or repair of the unit components or a specific part of such unit component.

The warranty repair does not include:

- routine technical maintenance
- unit installation/dismantling
- unit setup

To benefit from warranty repair, the user must provide the unit, the user's manual with the purchase date stamp, and the payment paperwork certifying the purchase. The unit model must comply with the one stated in the user's manual. Contact the Seller for warranty service.

The manufacturer's warranty does not apply to the following cases:

- User's failure to submit the unit with the entire delivery package as stated in the user's manual including submission with missing component parts previously dismantled by the user.
- Mismatch of the unit model and the brand name with the information stated on the unit packaging and in the user's manual.
- User's failure to ensure timely technical maintenance of the unit.
- External damage to the unit casing (excluding external modifications as required for installation) and internal components caused by the user.
- Redesign or engineering changes to the unit.
- Replacement and use of any assemblies, parts and components not approved by the manufacturer.
- Unit misuse.
- Violation of the unit installation regulations by the user.
- Violation of the unit control regulations by the user.
- Unit connection to power mains with a voltage different from the one stated in the user's manual.
- Unit breakdown due to voltage surges in power mains.
- Discretionary repair of the unit by the user.
- Unit repair by any persons without the manufacturer's authorization.
- Expiration of the unit warranty period.
- Violation of the unit transportation regulations by the user.
- Violation of the unit storage regulations by the user.
- Wrongful actions against the unit committed by third parties.
- Unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind, blockades).
- Missing seals if provided by the user's manual.
- Failure to submit the user's manual with the unit purchase date stamp.
- Missing payment paperwork certifying the unit purchase.



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



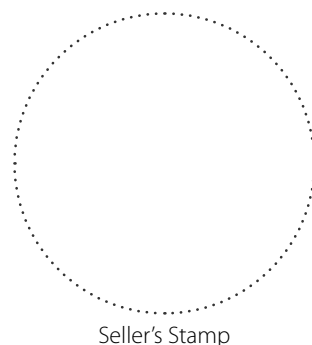
USER'S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE PURCHASE DATE STAMP

CERTIFICATE OF ACCEPTANCE

Unit Type	Single Room Heat Recovery Ventilation Unit
Model	
Serial Number	
Manufacture Date	
Quality Inspector's Stamp	

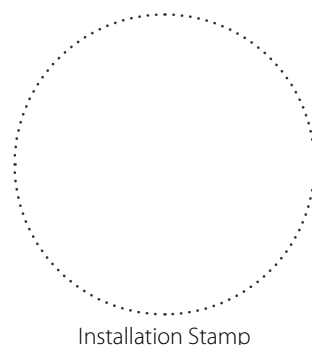
SELLER INFORMATION

Seller	
Address	
Phone Number	
E-mail	
Purchase Date	
This is to certify acceptance of the complete unit delivery with the user's manual. The warranty terms are acknowledged and accepted.	
Customer's Signature	



INSTALLATION CERTIFICATE

The _____ unit is installed pursuant to the requirements stated in the present user's manual.	
Company name	
Address	
Phone Number	
Installation Technician's Full Name	
Installation Date:	Signature:
The unit has been installed in accordance with the provisions of all the applicable local and national construction, electrical and technical codes and standards. The unit operates normally as intended by the manufacturer.	
Signature:	



WARRANTY CARD

Unit Type	Single Room Heat Recovery Ventilation Unit
Model	
Serial Number	
Manufacture Date	
Purchase Date	
Warranty Period	
Seller	

