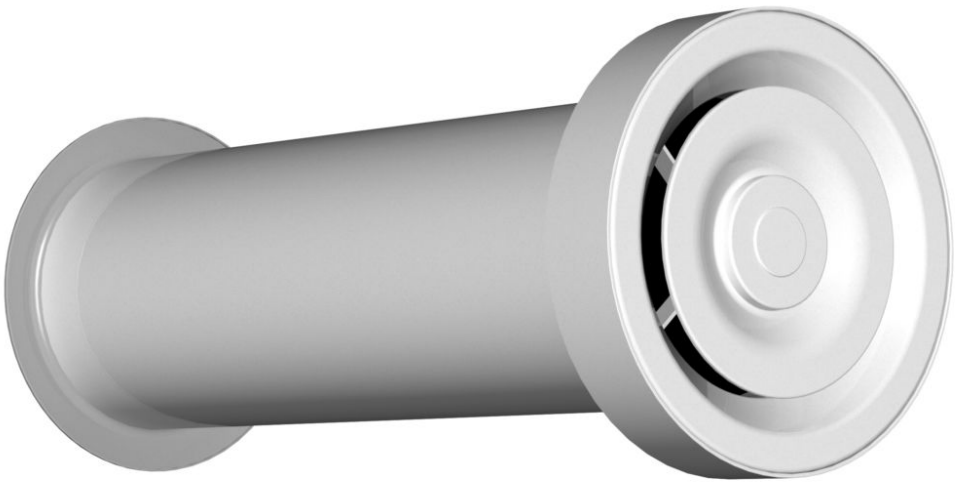
REVENTA RV-2

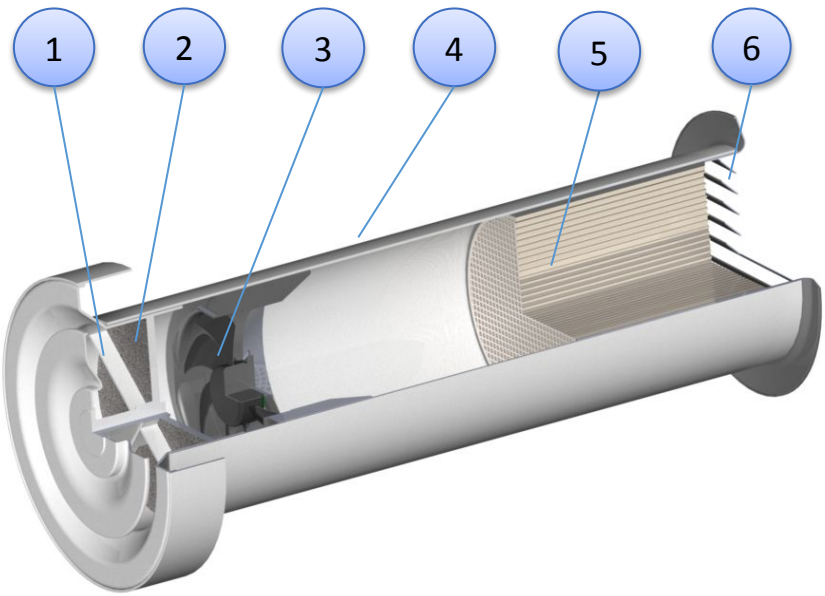
Ventilation System.
User Manual



Reventa RV-2 performance specification

No. of modes	11
No. of speeds in reverse	3
Ventilation volume, m³/h	17-46
Recovery efficiency, %	67
Noise level, dB(A)	17-45
Voltage	230 VAC or 12 VDC
Operating voltage, VDC	12
Power consumption, W	1.6-2.7
Rotary speed, min^{-1}	825/2205
Heat exchanger type	high-tech heat accumulator (Germany)
Bore diameter, mm	at least 160
Thermal mode of operation, °C	-20 to +50
Dimensions	Length of pipe 500 mm. Diameter – 150 mm. Inner cover: diameter – 230 mm. Outer cover: diameter – 180 mm.
Method of installation	horizontal installation in an external wall
Maintenance	Filter does not require replacement. The heat accumulator' and filter cleanness is to be checked every 3 months.
Filter	G2
Energy efficiency class	A

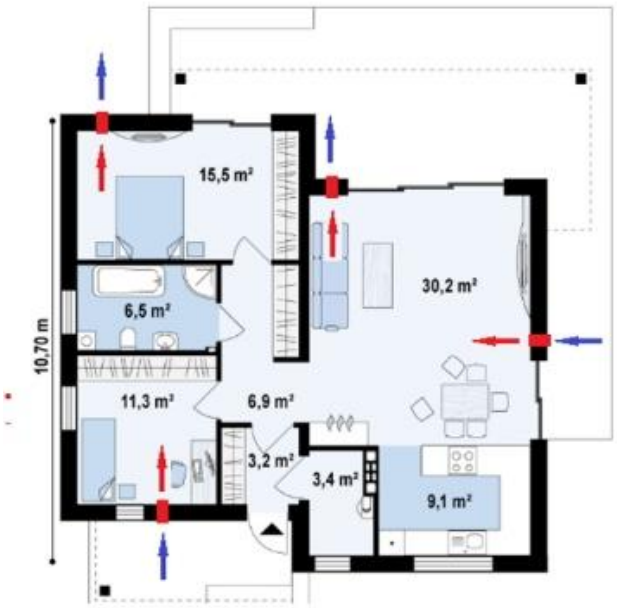
Reventa RV-2 recuperator components



1. Inner cover
2. Air filter
3. Controllable reversible fan
4. PVC air duct
5. Ceramic thermal regenerator
6. Outer grate

Ventilation system positioning.

The Reventa RV-2 system is a stationary general ventilation system. Therefore, its total output and operating efficiency depend on the correct positioning and installation within a room. To obtain free system calculations, contact the manufacturer or his official representative.



General provisions to be taken into account while choosing the mounting position.

- **Mounting height:** The Ventoxx devices should, as a rule, be placed near the ceiling (if possible). Such positioning improves the system operation.
- **The distance between the devices** should be not less than 2 m.
- **Distance to the door:** to provide for maximum effect of the system operation within a room, place the device as far as possible from the door.
- **Opening inner cover:** Make sure that the chosen installation site allows trouble-free removal of the inner cover. Provide a space of at least 150 mm between the cover and the ceiling.
- **Installation over beds**: we recommend to avoid installing the devices directly over the bed since insignificant flow of fresh air can be felt during sleep.
- When constructing a new building, we recommend leaving necessary holes in the house framework. If you leave the holes sized 170 mm x 170 mm, say, in a brick masonry, it will help you to avoid subsequent core drilling.

Installation tools.

- builder’s level
- multipurpose knife
- perforating machine with diamond coated box (if bores are to be drilled)
- assembly foam
- screwdriver «-» flat 3 mm
- cable stripper (for cable works)

- wear safety goggles
- wear protective gloves
- use hearing protection tools
- wear protective helmet
- use protective footwear

Preparation for device installation.

Installation inside a new building – mounting holes.
When constructing a new building, we recommend leaving necessary holes in the house framework. If you leave the holes sized 170 mm x 170 mm, say, in a brick masonry, it will help you to avoid subsequent core drilling.

Installation inside a ready-built house; mounting holes.
To minimize the volume of dirty and unnecessary work, we recommend you to use the diamond drilling procedure during installation, to create mounting holes for the Reventa RV-2 device. This will also make the following stages easier. Make sure that the boring bit can make holes 160-180 mm in diameter. The bore should also feature a 2 degree slope facing outwards.

Before drilling hole in a wall, make sure that:

- *no one will be injured and/or no items will be damaged due to pieces falling off the wall*
- *there are no wires of pipes in the wall where the hole is being drilled*
- *the hole does not affect the wall's supporting capacity*
- *the drilling of the hole does not affect the physical characteristics of the building, e.g., the penetration of vapors or rain protection features*
- *all the necessary personal protection equipment is used.*

Unpack the device. Make sure that your delivery contains the following items:

- ✔ 1x heat accumulator
- ✔ 1x fan
- ✔ 1x PVC channel
- ✔ 1x outer grate (or metal cover)
- ✔ 1x inner cover
- ✔ 1x remote control unit
- ✔ 1x user manual, warranty card

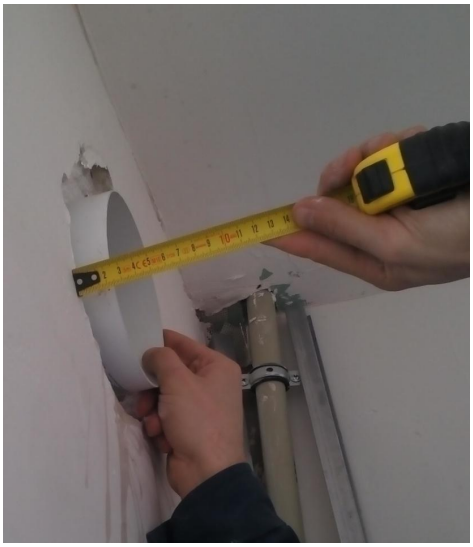
The heat exchanger is ceramic and can be easily damaged if it falls or is hit!

The standard pipe can be installed in a wall that is maximum 485 mm thick. If walls in your building are thicker, you have to order 1 m long pipe.

Device installation.

Step 1.

After choosing the installation sites and drilling the mounting bore, lay 220 V energy wire to it.

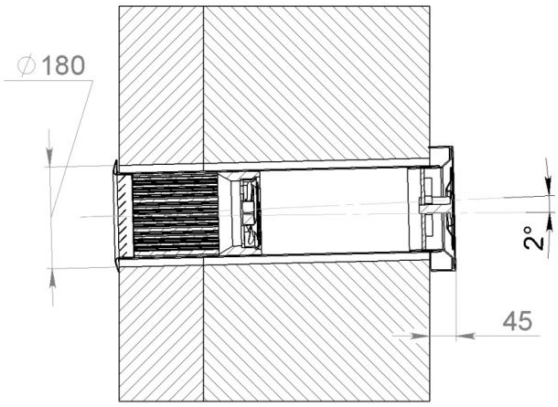


Step 2.

Measure wall thickness and add 15 mm to the value. Accurately cut off the section of the resulting length from the recuperator pipe.

Step 3.

Insert the ceramic block into the pipe for about half of its depth. Fix the pipe at the center of the orifice with the 2% slope facing outwards. In so doing, a 15 mm long section of the pipe should protrude from the wall to the room.



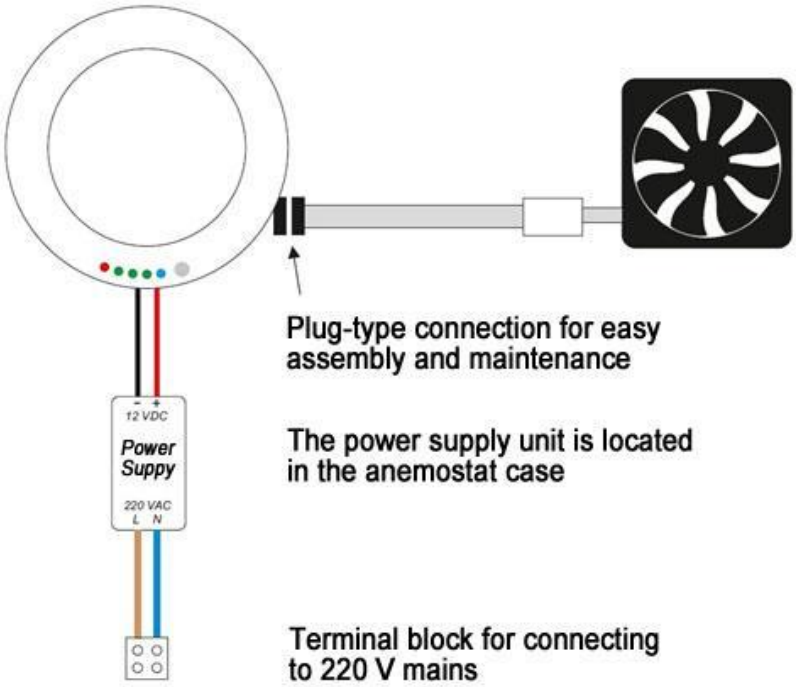
Put on appropriate protective gloves and the goggles to protect your eyes from dust and damage that could be caused by the *PU assembly foam! Please, make sure the product you use is safe.*

Step 4.

After the pipe has been set in the wall in the right position, fix it with the assembly foam.

Attention! Make sure the pipe does not get deformed during installation and before the foam settles. Do not retrieve the heat exchanger until the foam is completely settled.

Before you start, study simple **connection diagram**.



Step 5.

Cut the energy wire leaving about 15 cm of it and strip the leads

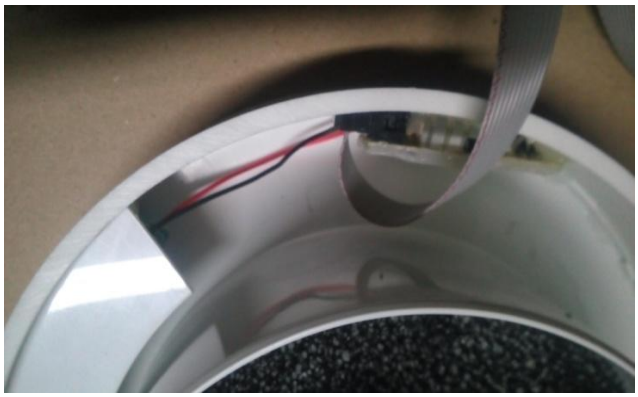
Attention! In the process of recuperator connection its energy wire should be disconnected.

Step 6.

Connect the energy wire to the junction block.

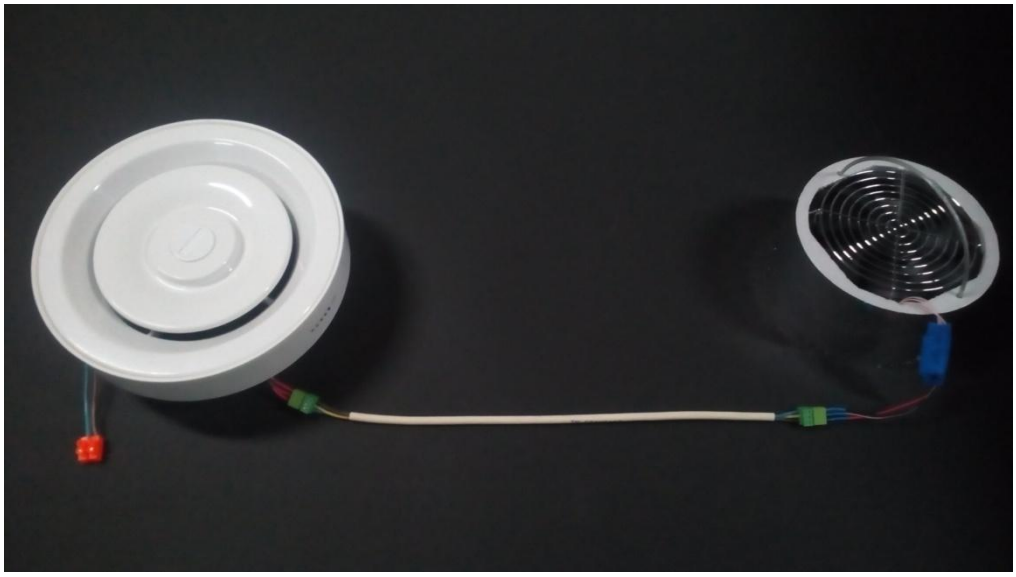
Step 7.

Install cartridge with the fan into the pipe and connect the fan to the connector located on the inner part of the cover.



Attention!

While connecting Reventa RV-2 Kit 2, the slave recuperator is to be connected to the master recuperator with a uniting 3*0.75 wire, as shown on the following illustration:



Step 8.

Insert the inner cover into the pipe so that the indicator is located at the bottom.

Step 9.

Install the outer cover to the pipe from the street side. The area where the cover adjoins the wall should be terminally sealed with a resilient sealant.

This is the end of the recuperator installation procedure. Supply the recuperator with 220 V power. After that, make yourself familiar with the Operation Manual.

Operation Manual.

The recuperator is controlled with the remote control unit. In the process, every function is displayed on the indicator located on the inner cover.

If the assembly and connecting procedures have been carried out correctly, red lamp activates after the power is supplied to the recuperator; this means the recuperator is off.

Ventilation with heat recuperation.

Buttons “1”, “2” and “3” let you select a speed in the heat recuperation mode. In the process, the recuperator fan changes its rotation direction every 60 seconds.
One, two or three green LEDs light up.
Buttons “4” to “9” duplicate button “3”.
Also, ventilation intensity can be changed by pressing “up” and “down” buttons.
Recuperator deactivation: press any red button.

Airing mode.

In this mode, there is no heat recuperation; air of the ambient temperature will be sent to the room. Avoid overcooling the room in a cold season.

It is possible to choose the ventilation direction in airing mode: a “fresh air inflow only” or a “venting only”. There is no heat recuperation in this case.

In recuperation mode, press “0” button at any speed. After that, blue LED activates in addition to the green one. Recuperator will start operating as a venting device at the speed at which it was operating in the recuperation mode. If “0” button is pressed a second time, the recuperator will operate in the inflow mode, and the blue LED will start blinking.

Activation of any function deactivates the previous one.

Attention! Venting mode at the speeds of 1, 2 and 3 is active continuously; it can be deactivated only when another operating mode is selected.

Intensive ventilation mode.

To activate this mode, it is necessary to turn recuperator off and press “0” button. After this, only blue LED will light up.
Description of the function:
The fan operates with double capacity for 10 minutes. After this, the fan is switched to speed 2 in the heat recuperation mode automatically.
In the process, **only** blue LED is active.
As is the case in the airing mode, you can choose the ventilation direction: if “0” button is pressed a second time, the blue LED starts blinking and the recuperator will operate in the inflow mode.

Turning the indication off and on.

The “left” button turns the indication off. That is, the recuperator continues to operate in the selected mode, but the LEDs are inactive. If any other ventilation mode is activated in this state, the selected mode will be indicated for 1 second after which the indication will be deactivated again. By pressing the “right” button you can turn the indication on again.

If the device is deenergized and energized back unexpectedly, the recuperator continues operate in the mode that was active at the moment the power supply was cut.

Below follows a **brief description of the control panel buttons operation**
(just to remind you of what was described earlier).

1,2,3 – selection of speed in the recuperation mode.
4...9 – duplicate button “3”.
0 – airing mode control.
Red buttons – device deactivation.
“Up” – successive speed increase (0, 1, 2, 3).
“Down” – successive speed reduction (3, 2, 1, 0).
“Left” – indication deactivation.
“Right” – indication activation.

Maintenance

Attention! Before you perform maintenance operations, disconnect the device from the mains.

The maintenance operations consist of regular air filter and ceramic accumulator cleaning. Their mandatory cleaning procedure should be performed twice annually: before and after the heating season. Also, the air filter should be checked every 2-3 months while in operation; if necessary, perform additional cleaning.

Air filter cleaning.

Retrieve the inner cover and press the two latches located on the rear side as shown on the illustration. Remove the inner part of the cover.

Then, push out two fastening brackets as shown on the illustration to remove the air filter.
Wash the air filter with flowing water and shake off the water drops. Then install the air filter at its place and assemble the inner cover in reverse order.

Cleaning the ceramic heat accumulator.

The heat accumulator is ceramic and can be easily damaged in case of shock or falling!

After the inner cover has been removed, pull the heat accumulator handle and remove the heat accumulator from the pipe.
Then thoroughly wash it in flowing water. Do not miss a single cell.
Dry the heat accumulator.
After this it is ready to be used again.

WARRANTY CARD

Dear customer!

VENTOXX LLC thanks you for buying this product. Please, read the assembly and operation instructions carefully before you use the device.

The manufacturer guarantees normal operation of the device used in accordance with the instructions for the whole warranty period.

The warranty will be invalidated in the following cases:

- If the device operated without a filter;
- If the filter or heat accumulator were not cleaned timely;
- If non-original parts were used or the design/settings of the device have been changed without manufacturer's approval.

If necessary, you can apply for a post-warranty service by contacting our dealer/representative who will check the device, repair it or will give you advice on device maintenance.

The warranty package is valid only if the guarantee card is produced!

KEEP THE WARRANTY CARD!

Customer:

Full name:_____

Address of the installation site:_____

_____

Date of sale: "___"_____ 20___

Date of installation: "___" _____ 20___

Warranty period: "___" _____ 20___

Additional 8 year heat accumulator warranty. Valid until: "___"_____ 20___

Assembly organization: _____

Warranty card issued by: _____