OXYGEN

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INSTALLATION, OPERATION AND MAINTENANCE MANUAL

HRV: OXYGEN Easy 150, 200, 250
ERV: OXYGEN Easy 150E, 200E, 250E

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CONTENT

1. INTRODUCTION

Carefully read this manual to ensure the safe installation and commissioning of the ventilation unit. Before using the device, be sure to perform all the necessary installation and commissioning actions. In order to ensure safe operation, it is necessary to follow the instructions for use and the safety instructions contained in this document. Keep this guide safe for future reference and make sure it's available to all users.

2. SECURITY MESSAGES AND INFORMATIONAL CHARACTERS

	**Danger!** Ignoring warnings marked with this sign can cause serious injuries or even death.

	**Caution!** Ignoring warnings marked with this sign can damage the device or other nearby items and the environment.

	**Important information** Recommendations

	**Recycling symbol**

2.1. General safety precautions

Using controllers or settings which are not described in this documentation increase the risk of electric shock or other hazards caused by electrical voltage or current and (or) may damage other components of the device. **Life-threatening risk due to electric shock! To ensure your safety, it is necessary to follow all the instructions provided in this manual. Incorrect installation and (or) initialization process can cause serious injuries.**

2.2. General safety precautions for installation, maintenance and cleaning

This product is manufactured in compliance with electrical equipment standards and regulations. Installers and maintenance technicians must have theoretical and practical training in the field of ventilation systems and should be able to work in accordance with workplace safety regulations and the construction norms and standards applicable in the country.

- Installation, maintenance and cleaning work can only be carried out by qualified specialists.
- Before carrying out any installation, maintenance, maintenance or electrical work, make sure that the power supply of the unit is disconnected. Remove the plug from the power outlet or, if it is not possible to do this, turn off the automatic breaker. Make sure outsiders don't turn on your device again.
- All work related to electrical wiring must be carried out by a qualified electrician, since there is a danger to life due to electric shock.
- Take measures to prevent outsiders from entering the working area, as an accidentally falling tool or component can injure them.
- The fasteners of the unit (screws, plastic dowels, anchors, etc.) must be selected by the installer according to the material of the building structure and the load-bearing load. The installer is responsible for the safe attachment of the unit to the building structure.
- The power cord must be laid in such a way that no one gets behind it and does not tear it out of the outlet.
- Never use your device if the power cord is damaged. If you notice such a malfunction, turn off the power circuit breaker to disconnect the electrical power from the unit and immediately contact a qualified technician or the manufacturer's service center.
- The device can be operated by children from 8 years of age and older, as well as persons with disabilities or persons without experience and knowledge, provided that they are supervised or instructed to operate the device safely and understand the dangers associated with it. Children do not have to play with the device. Children cannot do cleaning or other work related to the maintenance of the unit unattended.

2.3. Intended use

The device is designed and manufactured for ventilation in residential and office premises, with some restrictions in the industrial space, when the ambient air temperature from >5°C to +35°C, and the relative humidity of the air up to 60% (non-condensing).

All C-series products are supplied with a built-in preheating element, which protects the counterflow heat exchanger from freezing. This ensures continuous operation at low outdoor temperatures.

3. TRANSPORTATION, STORAGE AND UNPACKING

The device is packed in a cardboard box and ready for transportation and storage. Packaging provides protection against environmental dust. The unit must be stored and transported in such a way as to protect it from physical damage.

Transportation conditions: -20°C - +40°C
Conditions for long-term storage: +5°C - +40°C, relative humidity <= 60% (non-condensing).

	Dispose of the packaging material in an environmentally friendly way.

Checking the shipment

Carefully check the received shipment and if you notice that the package is damaged or the identification number of the delivered device does not correspond to the one on the invoice, you should immediately contact your supplier.

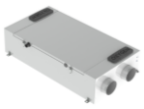
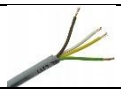
Explanation of the identification label:

Example: **Easy C 200 E**

Label	Meaning
Easy	Product name
C	Product type (ceiling-mounted)
200	Maximum air flow
E	Enthalpy heat exchanger built into the unit

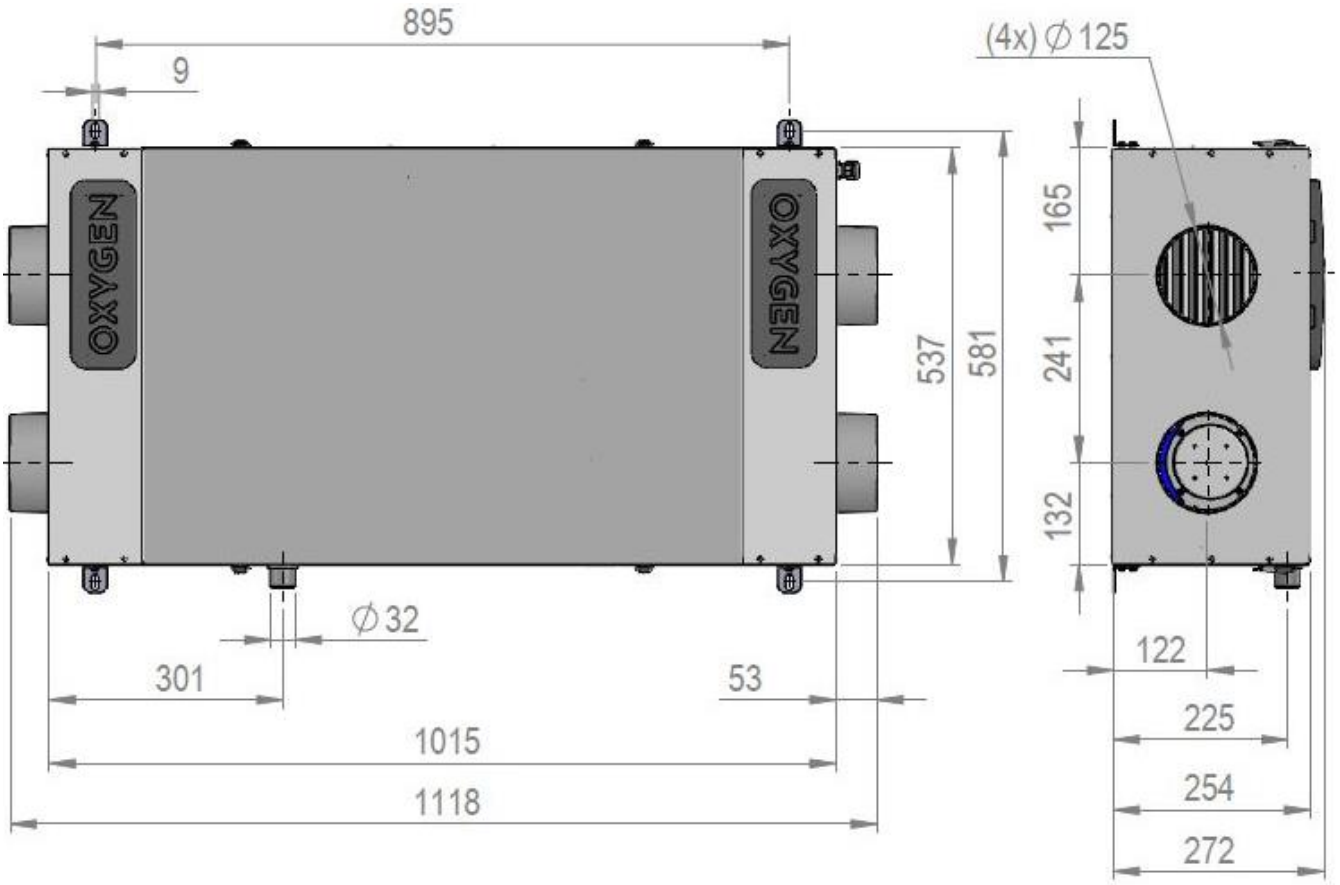
Package contents:

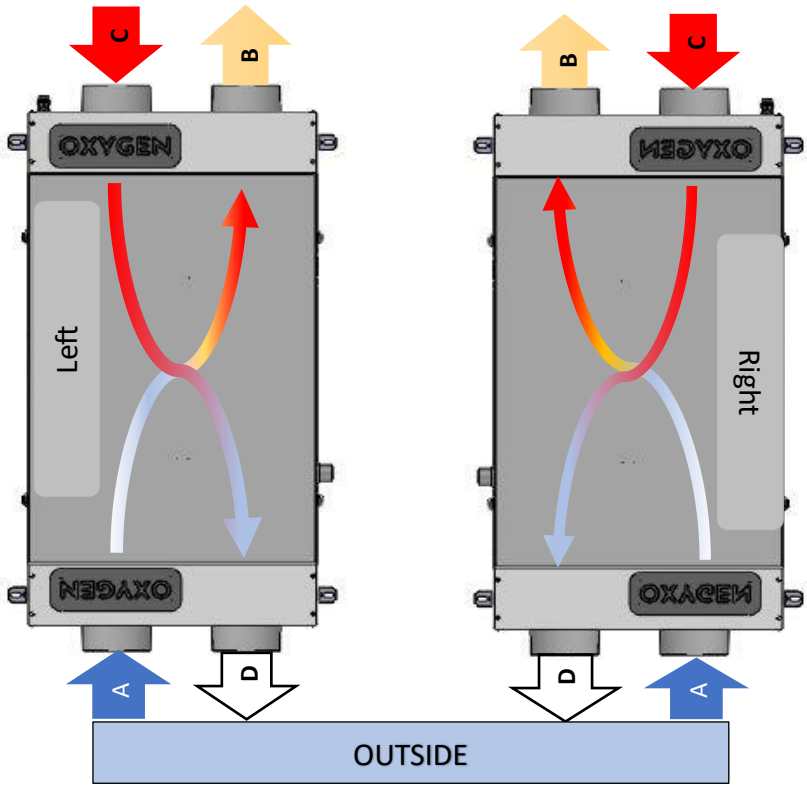
Table 1 Kit

	Ventilation unit. Check the identification label.	1 pc.
	Brackets for fixing the device to the ceiling	4 pcs.
	Screws M5x12 (DIN 7985) for fastening brackets to the unit	8 pcs.
	Drain nozzle D32mm with rubber "O" shaped sealing gasket (only for C150, C200 and C250 units)	1 pc.
	Instruction manual	1 pc.
	Data transmission cable	10 meters.

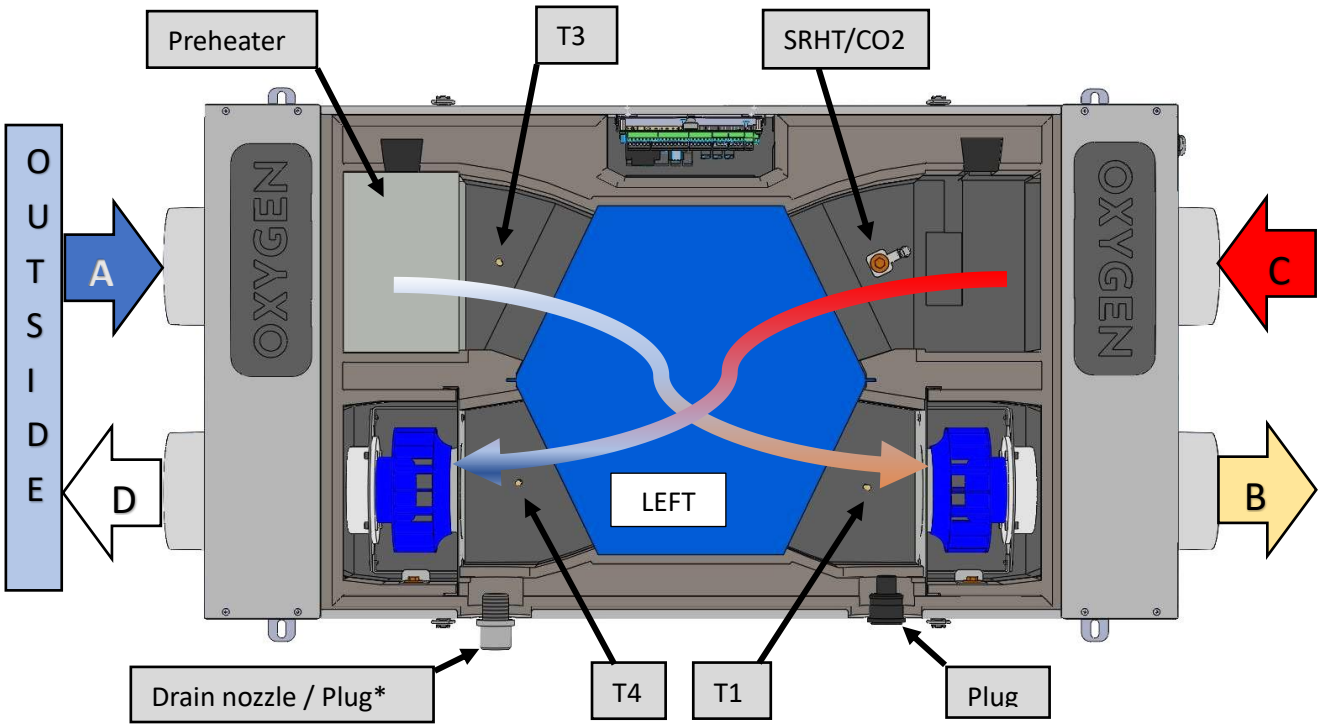
4. INSTALLATION OF THE DEVICE

4.1. Dimensions and orientation



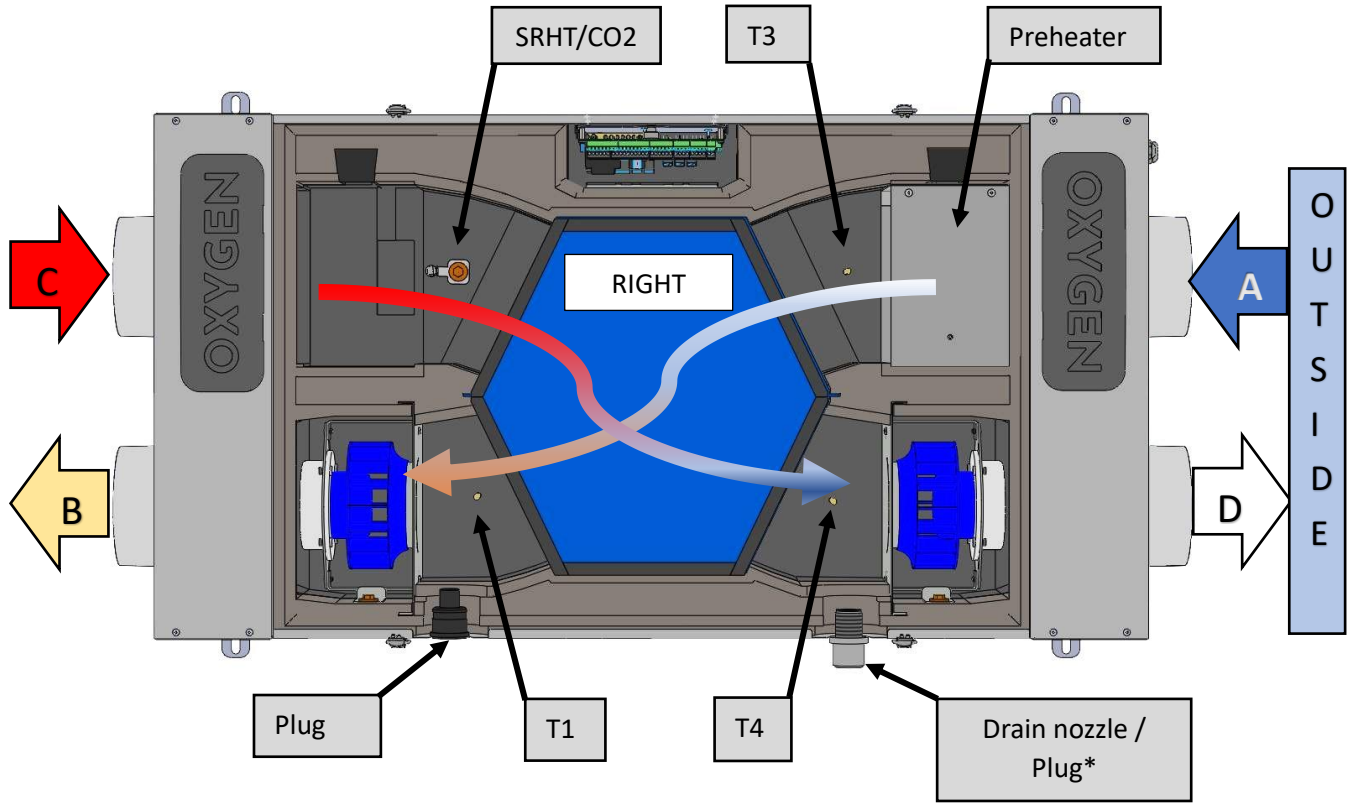


A – Air extracted from outside
B – Air supplied to inside
C – Extraction
D – Air exhausted to outside



A – Air supplied from outside
B – Air supplied to inside
C – Air extracted from inside
D – Air exhausted to outside

T1	Indoor supply air temperature sensor
SRHT/CO2	Relative humidity, temperature and CO2 (if installed) sensor
T3	Outdoor air (after heater) temperature sensor
T4	Outdoor exhaust air temperature sensor



4.2. List of main service components

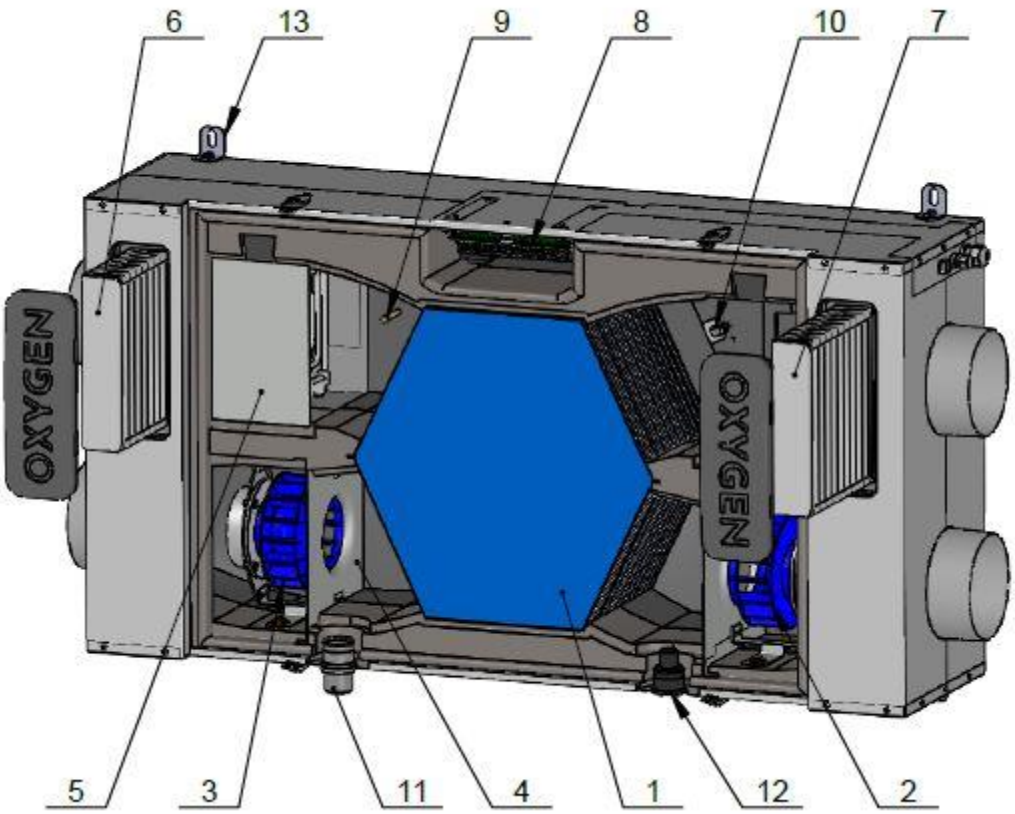


Table 2. List of components

It's a while. No.	Name of the part	Quantity
1	Heat exchanger	1
2	Supply air fan	1
3	Exhaust air fan	1
4	Fan bracket	2
5	Heater	1
6	Supply air filter	1
7	Exhaust air filter	1
8	Controller	1
9	Air temperature sensor	3
10	Combined humidity and temperature sensor	1
11	Condensate drain nozzle*	1
12	Condensate drain plug**	1

⚠	*C150, C200 and C250 models come with one condensate drain nozzle and one blind. **C150E, C200E, C250E complete with two plugs.

4.3. Installation of the device

When ordering a device, always specify the correct type (left or right side, see page. No.7). Make sure that there is enough space to install not only the device itself, but also auxiliary components of the ventilation system, such as noise dampers or air distribution boxes.
The unit must be installed in such a way that there is enough space for service and maintenance, for example. for changing the filter or accessing the controller and heat exchanger.

⚠	Models C150, C200 and C250 can only be mounted on the ceiling. Models C150E, C200E and C250E can be mounted both on the wall and on the ceiling.

📝	For all models, it is recommended, but not mandatory, to use rubber vibration isolation pads (not included) so that the sound does not pass to the installation surface.

⚠	Valid only for C150, C200, C250 models
⚠	Make sure that in the C150, C200 and C250 models there is an opportunity to connect the condensate drainpipe of the device to the sewage system of the building and install a siphon.
	A minimum inclination of at least 1° must be ensured so that the condensate accumulating inside the device can flow out through the discharge outlet.
	When installing the unit, appropriate distances must be maintained from the ceiling plane in the same way as shown in fig. 1., 9p.

OXYGEN Easy C150, C200, C250 left version.	OXYGEN Easy C150, C200, C250 right version.

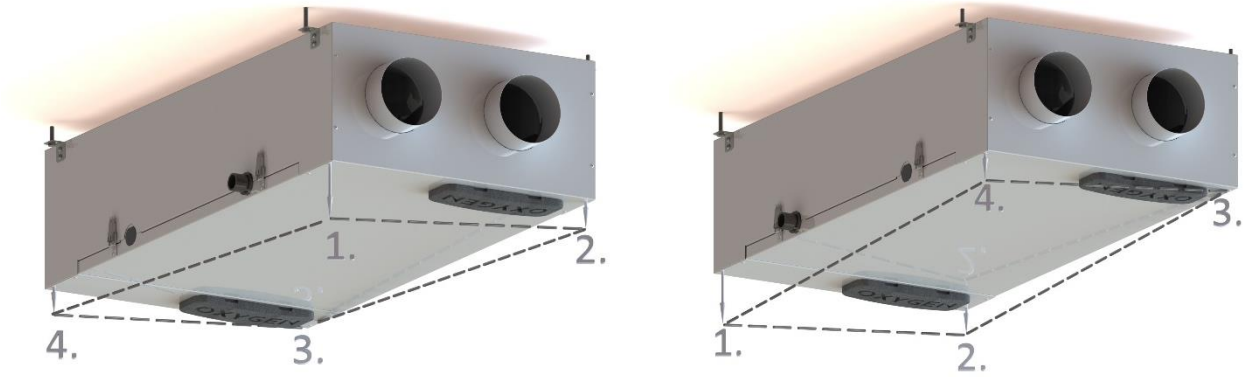


Figure. 1. Installation of models C150, C200, C250

No.	Distance from the horizontal plane
1.	20 mm
2.	10 mm
3.	0 mm
4.	10 mm

- We recommend installing sound attenuators both on the supply and on the exhaust air ducts.
- The condensate drainage nozzle should be screwed into the device with a maximum torque of 10 Nm.

For draining condensate into the sewage system, use only a siphon with a check valve (dry type). We recommend, but not mandatory, to use a "U" shaped siphon for additional protection along with a dry siphon.

When the device is fitted with an **Enthalpy Exchanger** the humidity from the extracted air is partly transferred to the fresh air supply. In this case there is no condensate that must be drained from the unit Thus a dry siphon is not necessary with an enthalpy exchanger.

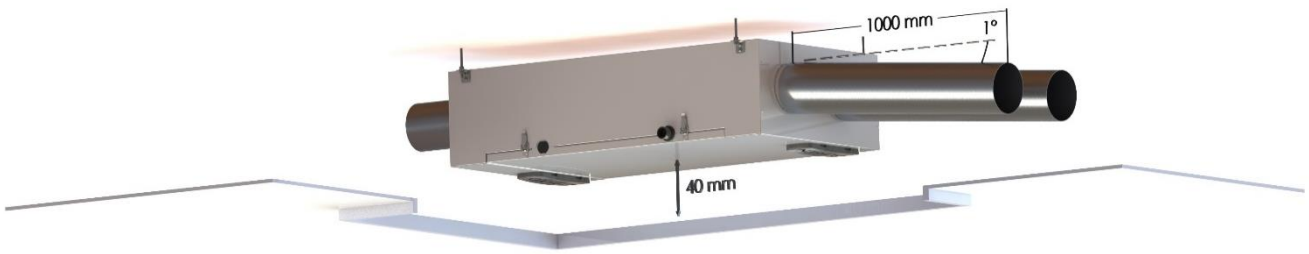
4.4. Duct installation

To ensure the reliable operation and aerodynamic characteristics of the installed ducts, the correct connection of the ducts is of great importance. The efficiency of the system largely depends on the smoothness, diameter of the inner surface of the ducts, the number of elbows and the length of the duct system.

It is recommended to install air intake and removal channels at the largest possible distance from each other – this way you will avoid the ingress of contaminated air removed from the room back into the room. **Take into account the current legislation.**

By connecting the air intake and removal channels of the ventilation device, ensure that outside moisture or atmospheric precipitation does not get inside the unit. Make sure that the openings in the outdoor wall are installed lower than on the ventilation device. The air intake hole in the outdoor wall from the ingress of atmospheric precipitation into the ventilation duct must be protected by a grille or canopy.

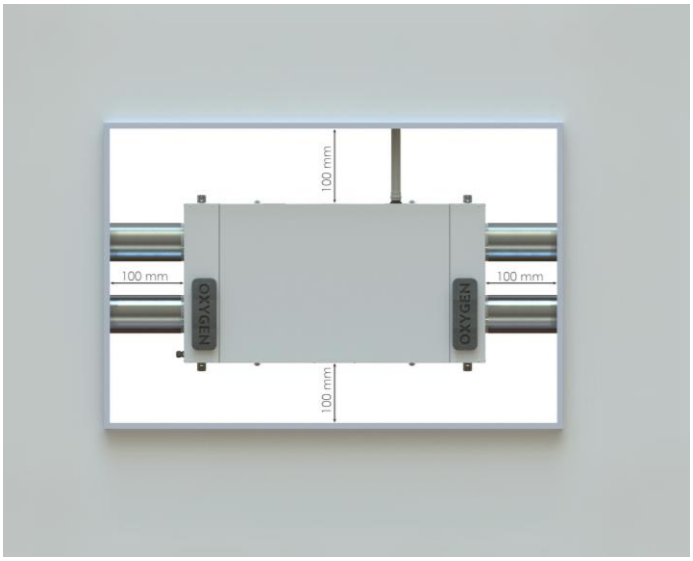
⚠	In order to avoid the formation of condensate on the ducts brought outside, it is necessary to insulate the ducts with an insulation material with a thermal conductivity coefficient λD not less than 0.044 W / mK at +10 °C. For the required thickness, read the instructions of the manufacturer of insulation.



⚠	In order not to get outside moisture or precipitation inside the unit, it is necessary to ensure a slope of at least 1° of the ventilation duct.
	Air intake and removal channels must be covered with a layer of thermal insulation material of sufficient thickness, ensuring that moisture does not condense on their walls due to the difference in outdoor and indoor air temperatures.
	We do not recommend using an outdoor grill with a dense grid - it can quickly become clogged with dust, complicating the supply of fresh air. Dust and insects are trapped by air filters of the ventilation device.

4.5. Installation of a maintenance and service hatch

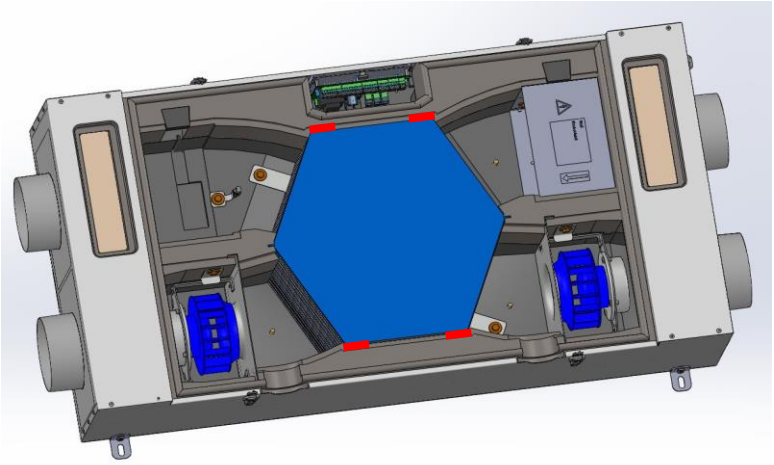
When installing the unit, provide enough space for its maintenance. The maintenance and service hatch installed in the ceiling must be of such a size as to allow convenient access to all components of the unit. Ensure a distance of at least 100 mm from each edge of the ventilation unit. The ceiling of the suspended room must be installed at a distance of at least 30 mm from the body of the unit, ensuring that the filter caps of the unit do not lean on the maintenance and service hatch.



⚠	The owner of the device must ensure the possibility of servicing the unit. In the absence of enough space for the maintenance of the device, the manufacturer's representative has the right to refuse to carry out maintenance or repairs.

4.6. Unit cover inspection

If the cover was removed during installation, before replacing the cover, it is necessary to apply sealant at 4 points near the heat exchanger as shown in red in the photo.



4.7. Balancing the ventilation system

During the commissioning of the ventilation system, we recommend balancing the supply and exhaust air flows of the ventilation device. Only a correctly balanced ventilation system in the cold season will ensure impeccable operation of the unit, optimal heat recovery and the lowest possible cost of electricity.

Operating an unbalanced ventilation system during the cold season increases the risk of the heat exchanger freezing, potentially leading the unit to supply cold air indoors. This can permanently alter the heat exchanger's properties and damage the unit's internal integrity.

- Entrust the balancing of the system only to a qualified specialist who has the necessary, accordingly calibrated technical equipment to perform this work.
- Require the specialist who carried out the balancing of the system to prepare a ventilation system passport.

4.8. Connection of the electrical circuit

- Before carrying out any installation, maintenance or electrical work, make sure that the power supply of the unit is disconnected. Remove the plug from the power outlet or, if there is none, disconnect the circuit breaker (automatic switch). Make sure that third parties do not turn on the device again.
- Any electrical installation work can only be performed by a qualified electrician.

The device is designed to connect to a single-phase AC ~230 V/50 (60) Hz power supply network.
To connect the ventilation device, use only the power cord included in the kit of the device.
The electrical circuit must be equipped with an automatic circuit breaker of 10A - 16A, which protects the circuit from overload or short circuit. Free access to the circuit breaker must also be ensured so that, if necessary, it is possible to quickly disconnect the device from the power circuit.
When connecting the device to the electrical network, earthing should be installed in compliance with the applicable laws and standards of the country where units are installed

4.9. Electrical characteristics of the controller and remote control

Table 3

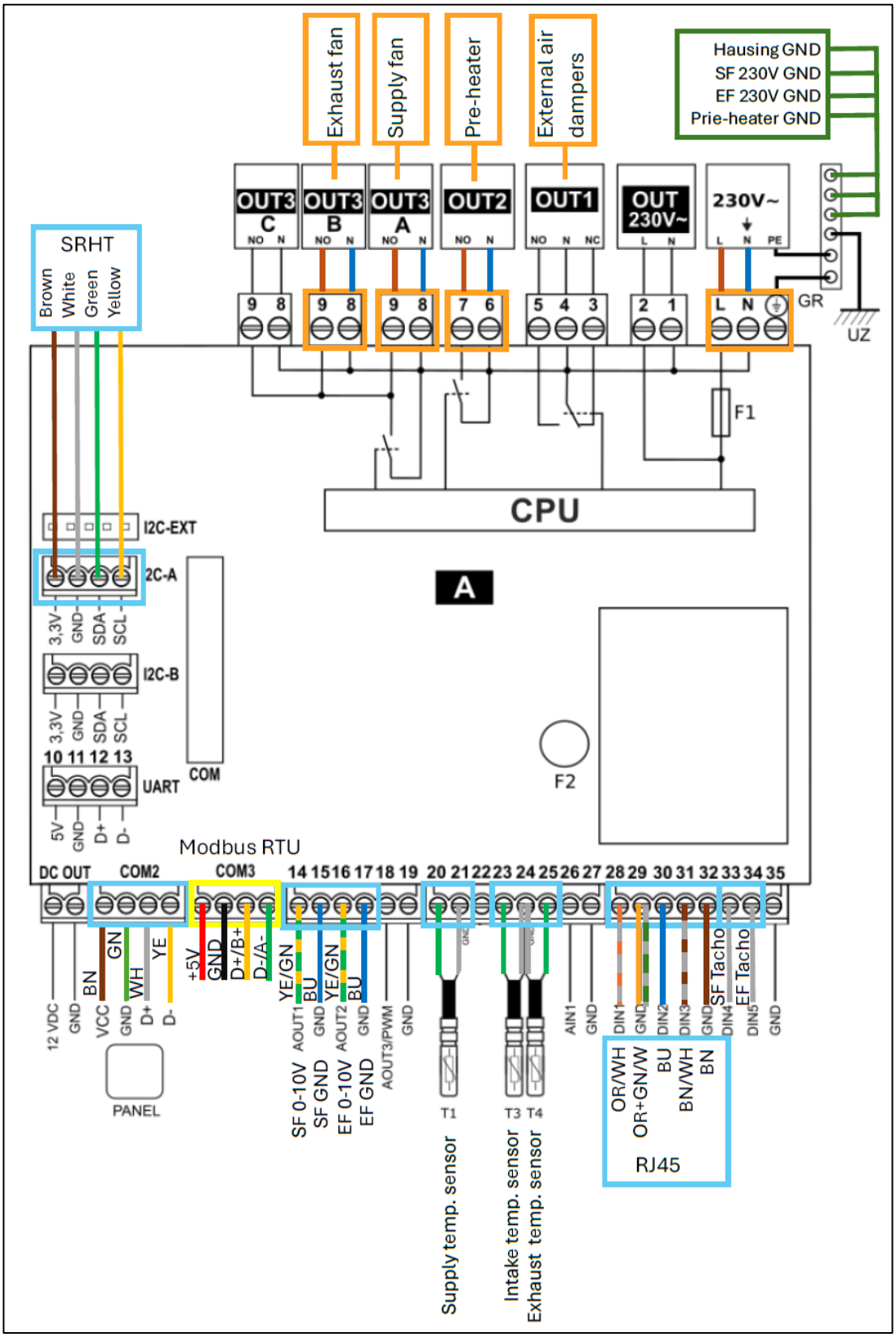
Control			
Power	230 VAC, 50Hz		
Current consumption	0,04 A		
Max. rated current	OUT1	3(3) A	230V
	OUT2	3(3) A	
	OUT3A	3(3) A	
	OUT3B	3(3) A	
	OUT3C	3(3) A	
	OUT-230 V	6(6) A	
Ambient temperature	0… 50°C		
Storage temperature	-25...+60°C		
Relative humidity of the air	5…85%, without steam condensation		
Sensor CT10 (NTC 10K) temp. measurement range / accuracy	-40...+60°C / ±2°C		
Cross-section of the wires to be connected, screw tightening force	0,5… 2.5mm², 0.4Nm		
Motherboard dimensions	150 x 117 x 50mm		
eV-Ex04 module dimensions	70 x 90 x 40mm		
Standards	EN 60730-2-9 EN 60730-1		
Software class	A, EN 60730-1		
Protection class	Suitable for installation in class 1 devices		
Surge voltage	2500V		
Protection degree	IP 00		
SCP_V1 panel			
Power	5… 12 VDC		
Current consumption	0.24W (max. 1.7W)		
Transmission of data	-RS485 (ModBus RTU protocol) with master controller -Wi-Fi B/G/N standard with ecoNET CLOUD -BT v4.2 with mobile application		
Operating conditions	0… 40ºC, 5… 85% RH (no condensation), closed rooms with low dustiness		
Protection degree	IP 20		
Temp. storage	0… 65°C		

SRHT IN1

SCO2 IN1

4.10. Electrical connection diagram

Wire Color Coding (according to IEC 60757).



Resistance input (NTC 10 K):

T1 – supply temperature sensor - before the secondary exchanger (required);
T2 – extraction temperature sensor (required) or air intake sensor on the building facade;
T3 – intake temperature sensor - at the filters (required);
T4 – exhaust temperature sensor (required);

Analog output (0-10 VDC):
AOUT1 – supply air fan;
AOUT2 – exhaust air fan;

Analog output (0-10 VDC or PWM):
AOUT3 / PWM – control of the primary heater via solid state relay (SSR);

Analog input (0 - 10 VDC):
AIN1 – analog humidity sensor;

Digital input (additional device connection):
DIN1 – "Away" function (NC contact);
DIN2 – for an external CO2 sensor (NC contact);
DIN3 – for fire alarm;

Voltage output:
OUT 230 V ~ - non-controllable mains voltage output to power the Ev-Ex04 module;
DC OUT - 24 VDC non-controlled voltage output;

Relay output (potential):
OUT1 – change of the direction of rotation of the exchanger actuator;
OUT2 – pre-heater;
OUT3A... OUT3C – supply and exhaust air fans and ionizer;

Data transmission bus:
RJ - ecoNET300 internet module;
COM - eV-Ex04 expansion module;
UART - RS232 transmission - empty;
COM2 – remote control panel (12 VDC supply voltage);
COM – socket for connecting expansion module B;
I2C-A – socket for differential pressure sensor SRHT IN1 or air quality sensor SCO2 IN1, or humidity sensor SRHT IN1;
I2C-B - socket for differential pressure sensor SRHT IN1 or air quality sensor SCO2 IN1, or humidity sensor SRHT IN1;
I2C-EXT – I2C transmission, in parallel with I2C-A and I2C-B;
CPU - controller;
L, N, PE - 230 V ~ controller power supply;
F1 – main line fuse T6.3 A / 250 VAC;
F2 - TR5 mains fuse, 630 mA / 250 VAC;
UZ – grounding;

For multicore wires, it is necessary to use insulated nozzles.

Bolt tightening force – 1,2Nm

4.11. Cable selection and control panel installation

The remote-control panel is designed to be mounted in a dry indoor area by fixing it to the wall. It cannot be used in areas where water vapor condensation is present.

Installation of the control panel must be carried out in accordance with the instructions below.

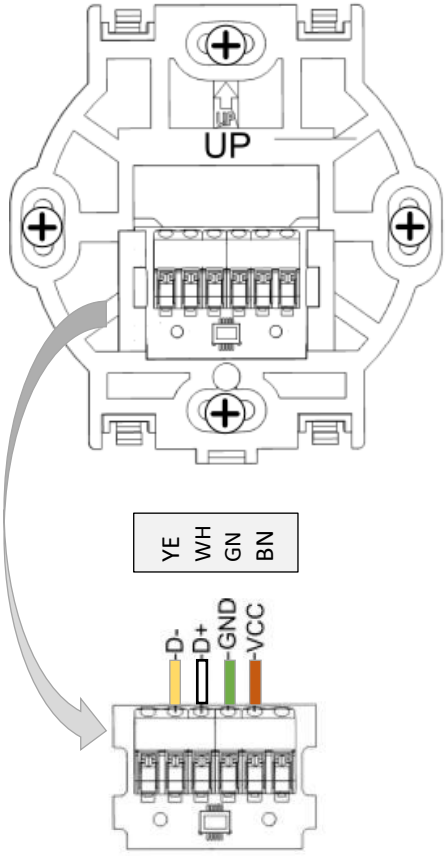
Remove the mounting frame from the back panel body. To remove the frame, use a flat screwdriver. The cable cannot be laid together with the cables of the building's electrical network. The cable should not go near devices emitting strong electromagnetic fields.

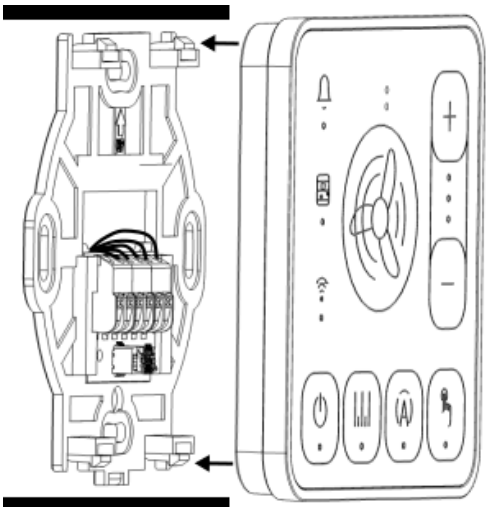
The device is supplied with a 10-meter data transmission cable, LIYY 4x0.14 mm². If you need a longer cable or wish to lay the cable before purchasing the device, we recommend:

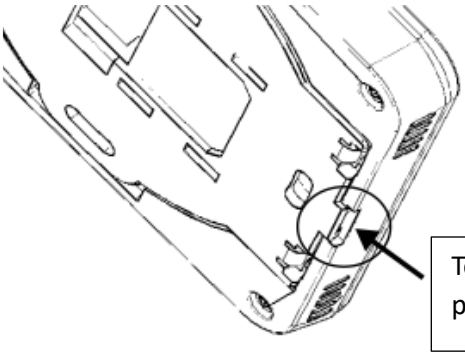
- Using a similar type of cable, e.g., LIYY 4x0.14 mm², if the cable length does not exceed 15–20 meters.
- If a greater length is required (more than 20 meters), use a cable with a larger cross-section, e.g., LIYY 4x0.25 mm², to reduce voltage drop.
- If the cable is laid near strong sources of electromagnetic interference (e.g., power cables), we recommend choosing a shielded cable, e.g., LIYCY 4x0.14 mm² or 4x0.25 mm², ensuring proper grounding of the shield.

Please note that when using longer cables, it may be necessary to check the signal quality and make adjustments if required.

If you have any questions or need assistance selecting a cable, please feel free to contact us at **info@oxygen.lt**.







⚠	After the recuperator is plugged into the power supply network, the LEDs will begin to flash in turn, which means that the controller software is loading. If this time is much longer, check the connection of the **D +** and **D-** wires of the transmission cable connecting the control to the controller board.

4.12. Connection of additional devices (comfort connector)

⚠	Contacts of additional devices and switches that are connected to the DIN connector must be without potential (dry contact), i.e. not have voltage

To expand the capabilities of the device, the installer can select several auxiliary devices. By connecting the corresponding contacts of the RJ45 connector by a short circuit, it is possible to activate different DIN functions.

Table 4. DIN connector

Contact No.	Digital signal settings
1 - 2	DIN1
3 - 4	DIN2
7 - 8	DIN3

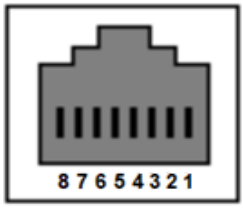


Table 5. Features of the available DIN (Digital Signal Settings):

Function	**What does it do**
Input BOOST1	This feature has several choices: 1. Close – According to the established contact, NO/NC, the recuperator raises its revs to 100% and will return to its old working mode when the contact is turned off. The speed of the revs can be adjusted. 2. Signal - According to the established contact, NO/NC, the recuperator raises its revs to 100% and when the contact is turned off, the timer is activated after a while the recuperator will return to its former operating mode. The speed of the revs can be adjusted.
Input BOOST2	Copy of BOOST1, it is possible to set different times.
FAS fire alarm system	NO contact, Disables recuperator
ALARM control panel	Several configurations are available: 1. Changes the speed of the recuperator (reduces to 25% or increases to 100%). 2. Completely turns off the recuperator. It is also possible to activate the Airing function, which, according to the selected time, turns on ventilation for a certain time according to the selected settings, whether the recuperator is turned off or turned on.
Relative humidity sensor	Having a special humidity sensor that can give a NO/NC signal increases the air flow for ventilation up to 90s
CO2 sensor	Having a special CO2 sensor that can give a NO/NC signal increases airflow for guidance up to 90s

	Only a passive electrical switch or relay contact without voltage should be used to activate the function.	
	Feature activation devices	
	To activate the functions can be used: • Various keyboard switches, • Humidity and CO2 sensors, • Relay modules, • Flow and pressure sensors, • And so forth.	
	For connecting external sensors or switches via RJ45, we recommend that you additionally purchase the RJ45 adapter.	

5. STARTING, CHECKING, AND MANAGING YOUR DEVICE

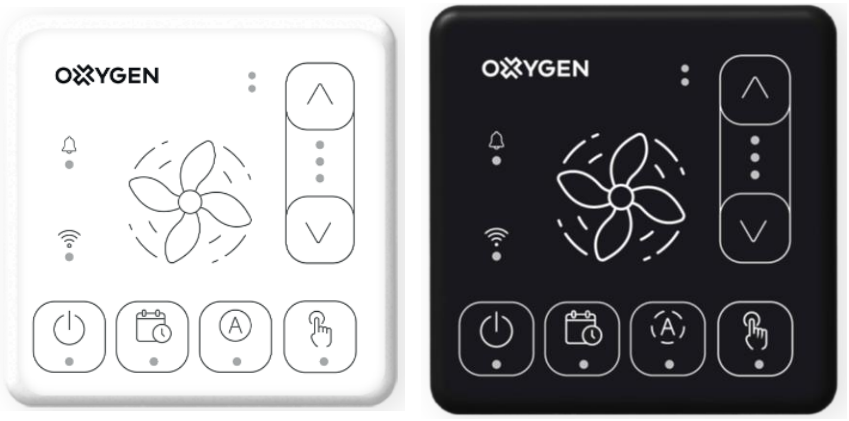
⚠	Before turning on the device, check if there are any foreign objects, debris or tools left inside it. Check that air filters are inserted, whether condensate drainage is connected (if necessary). Inspect the duct system for unnecessary obstacles, such as fully closed diffusers and adjusting dampers, or clogged outdoor air intake grilles.

The ventilation device can be equipped with one of two control panels:

1) Wired **SCP** (System control panel) control panel with touch-sensitive buttons, which can only be used to switch between basic ventilation modes and settings.
2) Wired **LCD SimpleTouch** control with touch-sensitive color display. Many functions and settings of the device can be seen and changed on the remote control.

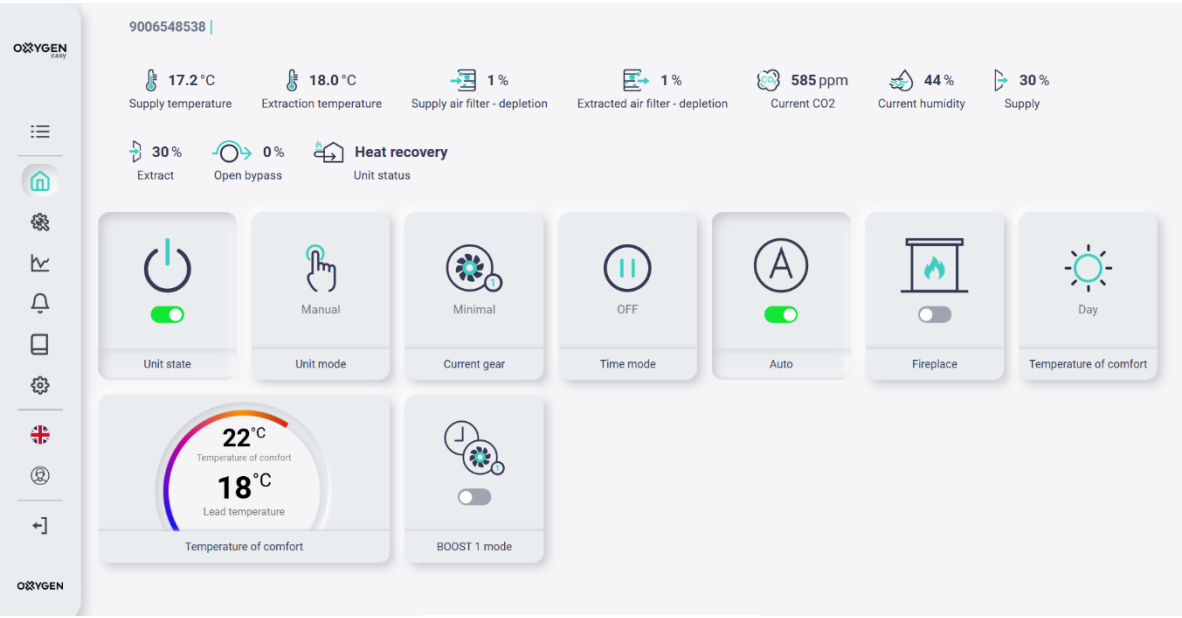
The device can be controlled in the following ways:

1) a wired control **SCP** or **an LCD SimpleTouch** control panel,
2) by smartphone via **Oxygen Installer** application (Bluetooth connection) or **Oxygen Easy** application (Wi-Fi connection).
3) computer through **easy.oxygenvent.com** website.



SCP control panel

LCD SimpleTouch control panel



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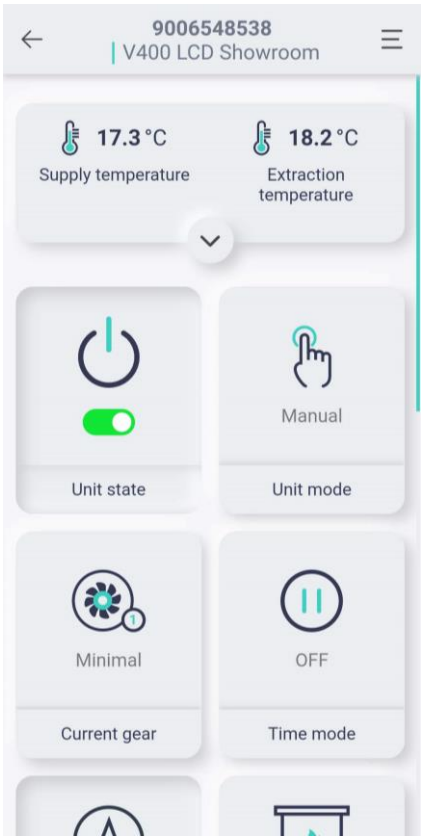

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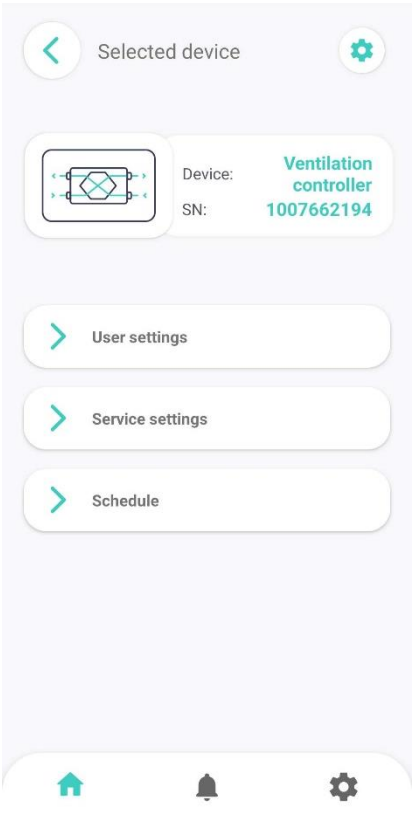
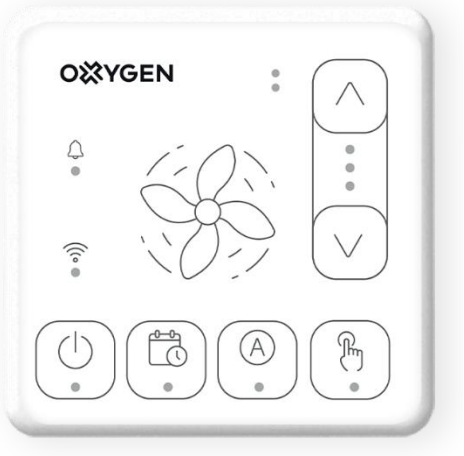


Oxygen Installer

5.1. Control of the device with the SCP control

The SCP control panel can only control the basic ventilation modes and settings.



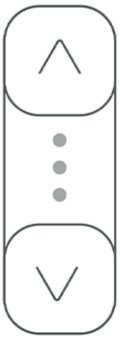
Control of the device is carried out by touching the selected button for the required function of the SCP control panel. Button symbols and LED alarm values:

- The illuminated LED diode means that the device is turned on and works in manual mode. Other LEDs also inform about the status of the switched-on device, for example. fan speed is selected, automatic control, schedule, manual control are turned on.

- The illuminated LED diode informs about the operation of the device in accordance with the time schedule set by the weekly operating modes. If the time schedule is not set or is not activated, the diode will blink. When the weekly operating mode is on, the manual LED turns off and vice versa.

- The device will operate according to the data received from the humidity and CO2 (if installed) sensor. With an increase in humidity levels or CO2 levels, the unit will easily increase its speed until it reaches the established norms.

- The recuperator works in manual mode, which allows you to set the desired fan speed.



- Increasing or decreasing fan speed. The function works only when manual control is turned on.

• 3 LEDs are lit: 70% intensity
• 2 LEDs are lit: 50% intensity
• 1 LED is lit: 30% intensity

- Fault signaling.

- A fast-flashing symbol means that a Bluetooth signal is being emitted.
- The constantly burning symbol means that there is an active connection to the Wi-Fi network and the Internet.
- Slowly flashing symbol means that it has not been possible to connect to the Wi-Fi network, but it works in Wi-Fi mode.

After turning on the device into the power supply network, the first 40 seconds after switching on, the device automation will evaluate the factory settings, check the automation components.

A quick flashing of the symbol LED  light means that a BT signal is emitted.

If we want to switch between Wi-Fi and Bluetooth, we hold the power button  until all the LEDs of the controller flash and we release it. If after 1 minute the communication mode does not shift, press the power button again.

Turn on the device by touching the  button marked with a symbol. The LED of this button will light up for a short time, and then the LED in manual mode will light up 

Touching  the button marked with a symbol will light up the first LED, and after 20 seconds, the fans will start working.

Later, after turning off the device from the power supply and turning it on again, the device will start operating in the last set ventilation mode.

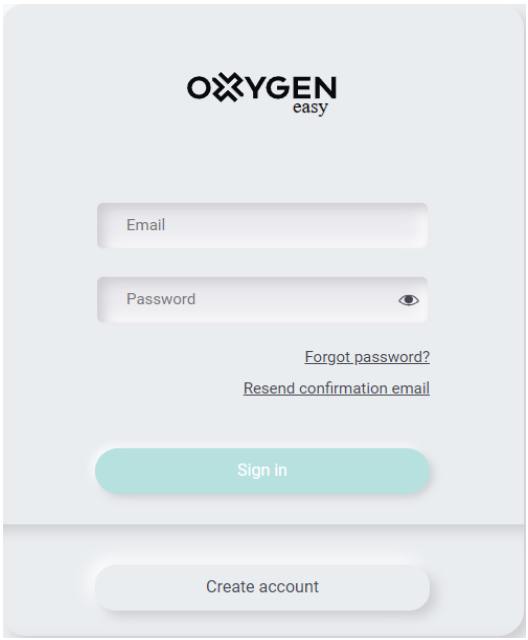
5.2. Configuring a Wi-Fi connection

To control the device remotely via smartphone or through the **easy.oxygenvent.com** website, you will need to perform the steps listed below.

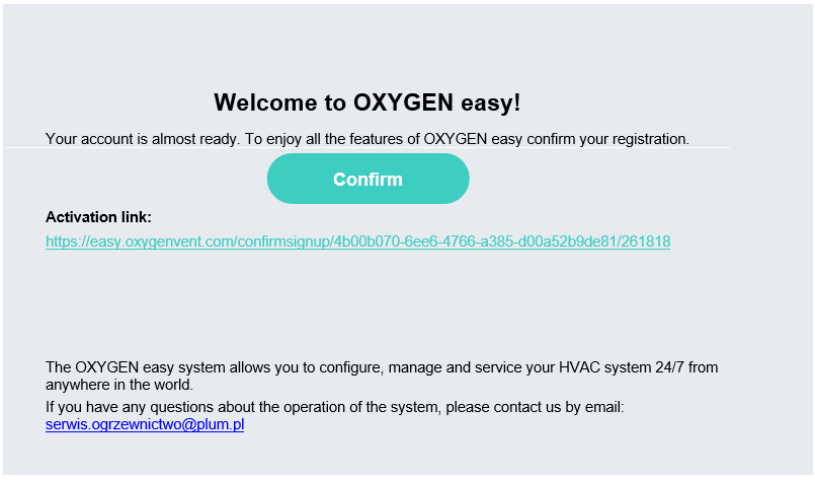
> **The device must be turned off, but operate via Bluetooth, i.e. The BT symbol should blink quickly.** The smartphone must have the **OXYGEN easy** app installed. It can be downloaded for free from Google Play or the App Store:
> Android: https://play.google.com/store/apps/details?id=com.oxygenvent.easy
> iOS: https://apps.apple.com/be/app/oxygen-easy/id6477522929

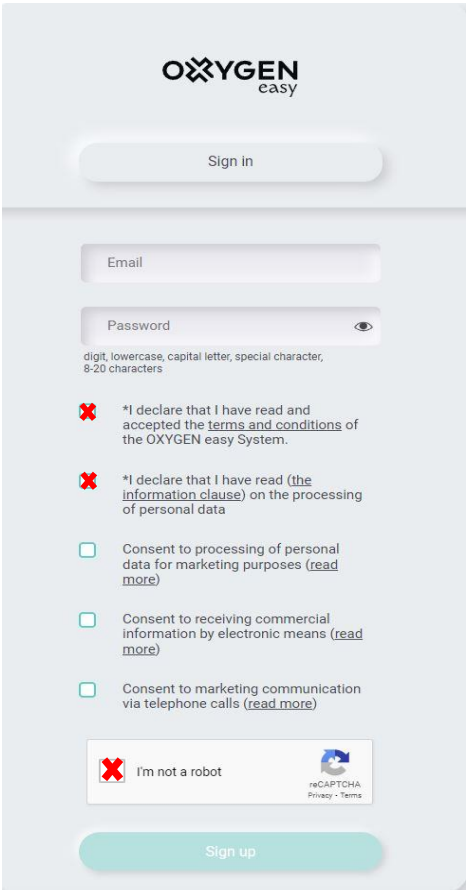
5.2.1. Create an account on **easy.oxygenvent.com** website.

The password must consist of at least eight characters, at least one of which must be a number, a capital letter, a lowercase letter, and a special character.

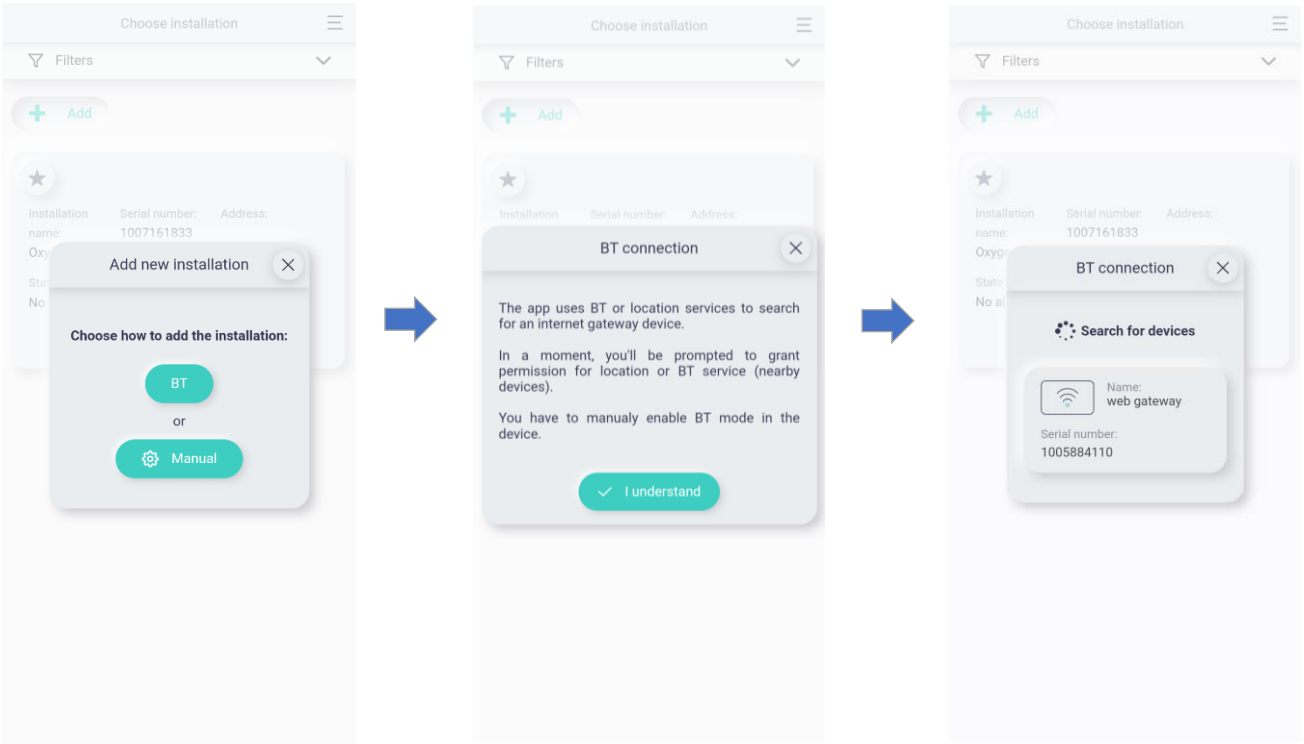


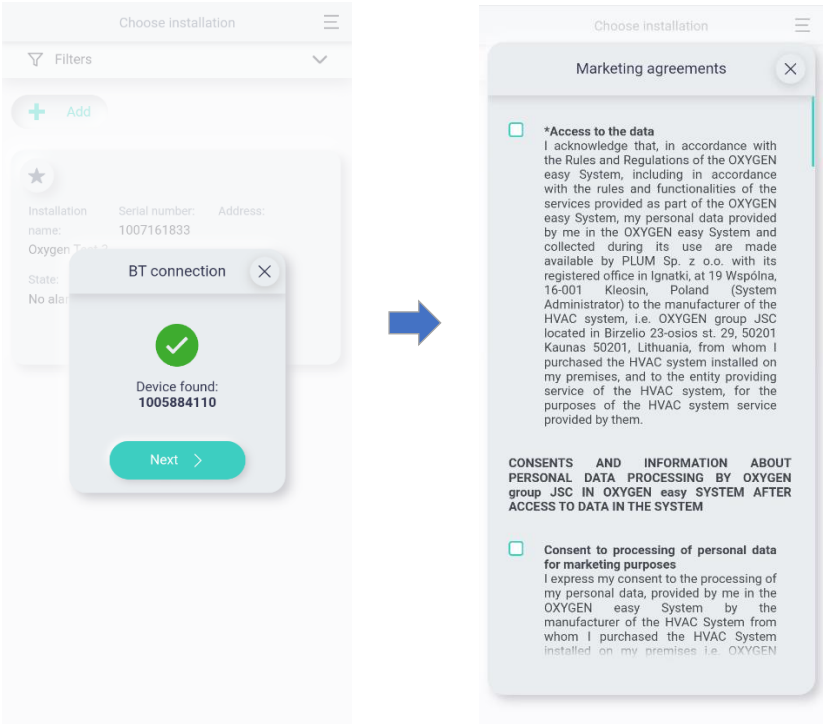
After entering the necessary data, click "Sign up". A message should come to your e-mail with a request to confirm the registration with Confirm. If you don't see a message in the Inbox folder , check the Junk or Spam folder and be sure to move the message to the Inbox directory.





5.2.2. Open the installed app and touch the **ADD** button. In the "Add new installation" window that opens, select the **BT** button, and then follow the app's suggested prompts.



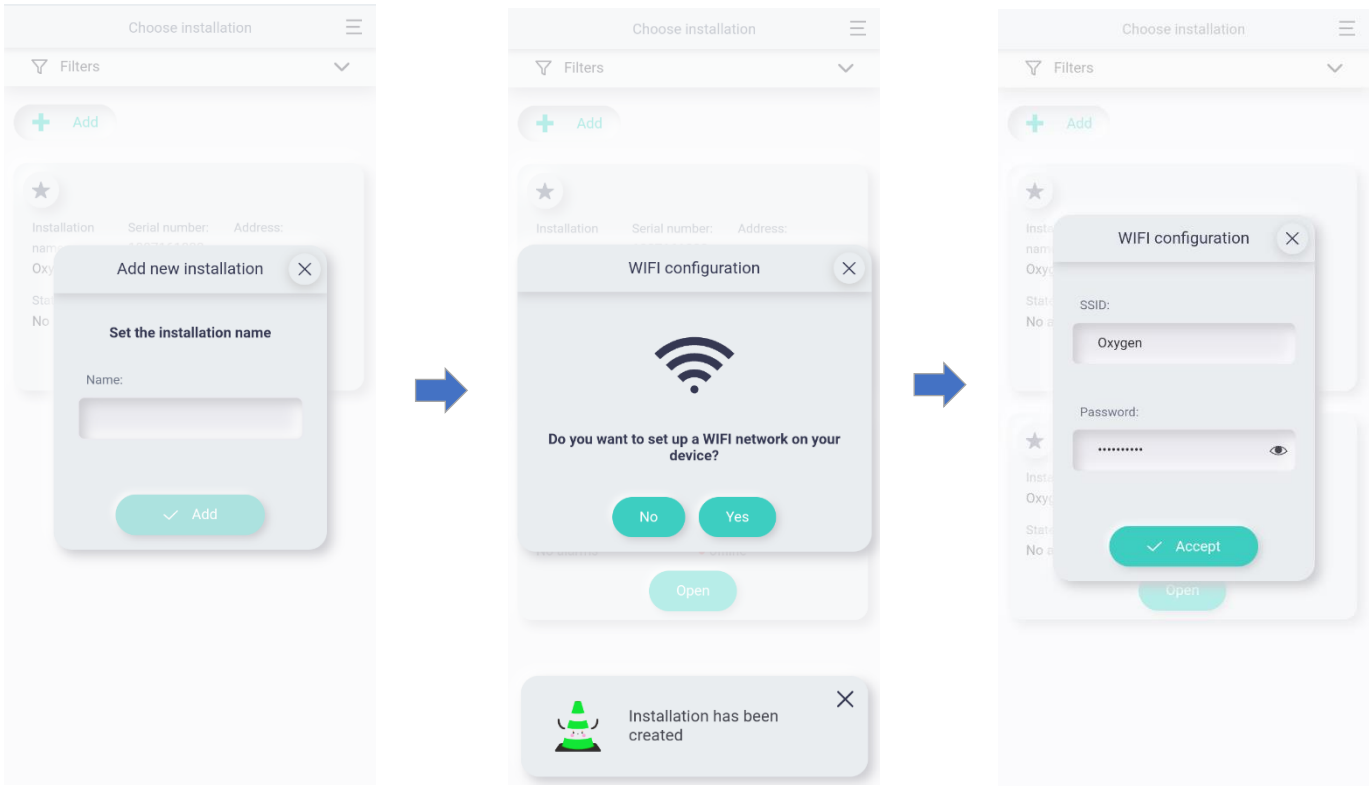


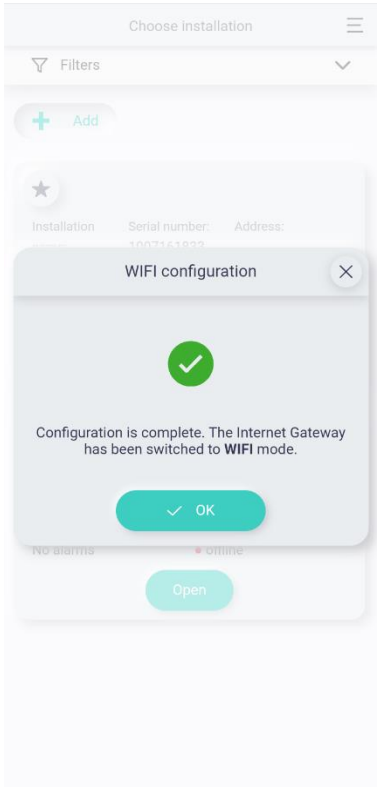
In the “Marketing agreements” section, you will need to accept all the terms marked with asterisks (*) by clicking on Accept.

In the "Set installation name" field, enter your chosen device name, for example: "Oxygen recuperator".

In the "Do you want to set up a Wi-Fi network on your device" field, press "**Yes**".

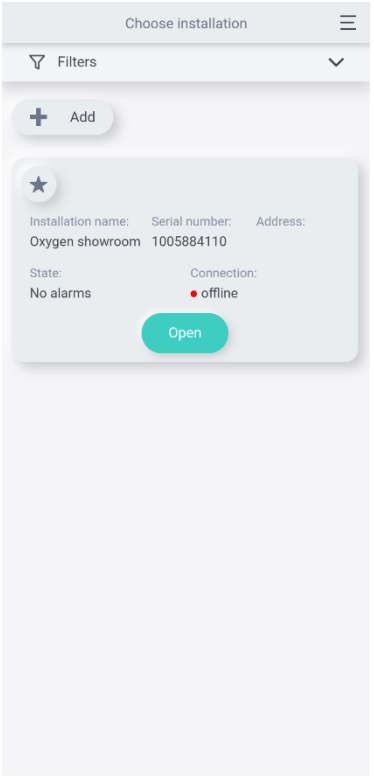
In the "SSID" field, enter the name of your router, for example, "Oxygen" and in the "Password" field, enter the router's password, then touch "Accept".

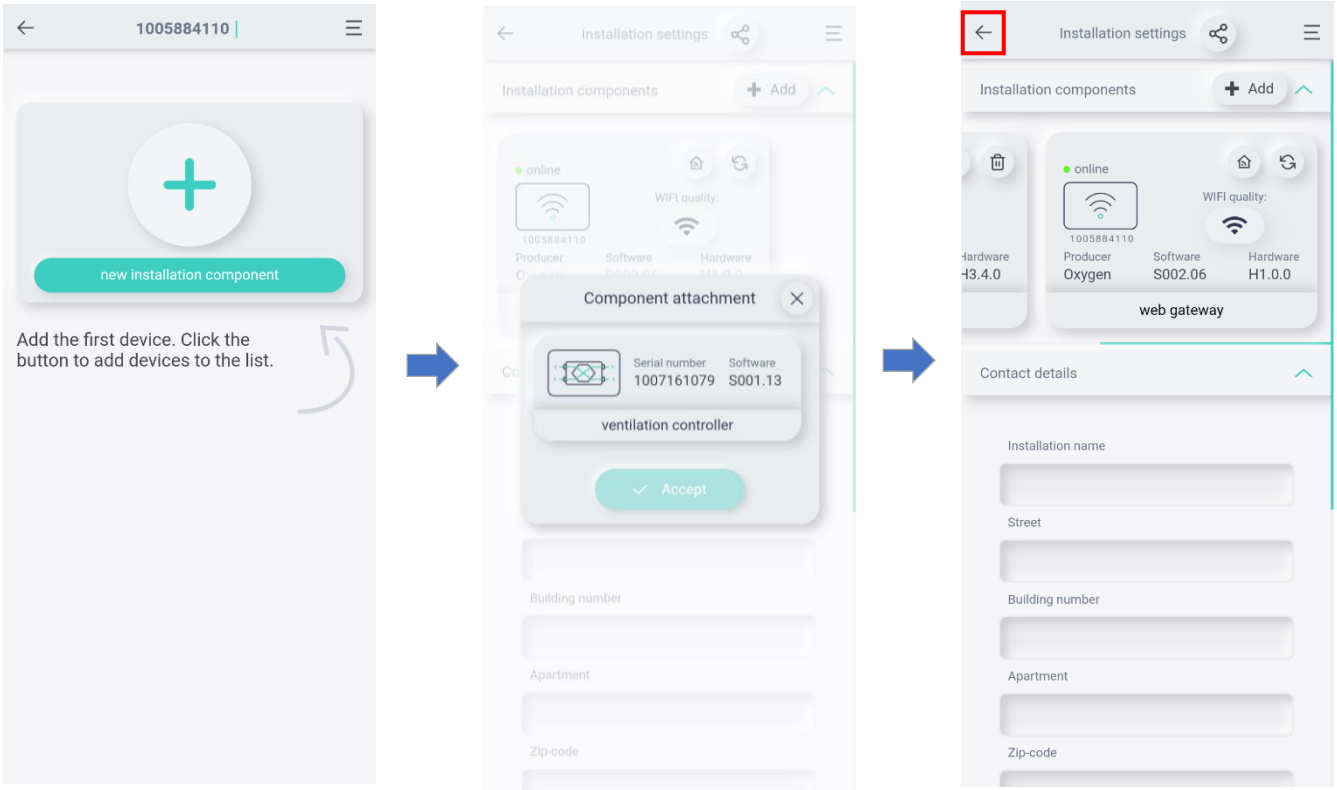


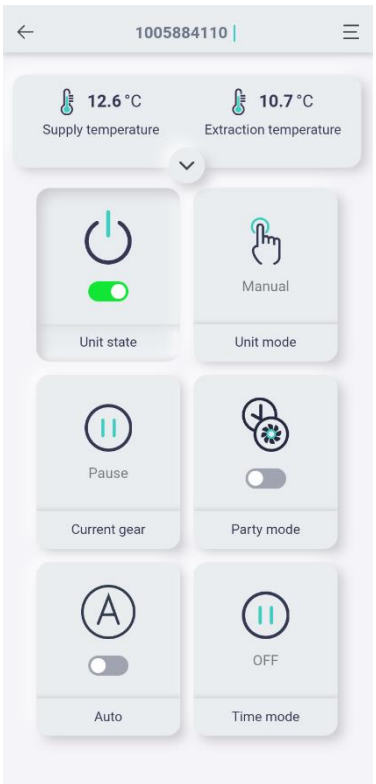


Upon opening the "WI-FI configuration" window, you should wait for the controller to reboot – on the SCP control panel, the LED blinking will stop, and the symbol will change from rapidly blinking to constantly lit. This indicates that the controller has switched from Bluetooth to Wi-Fi connection. Now, you can remotely control the device with your smartphone through the **OXYGEN easy** app or by accessing the **easy.oxygenvent.com** website from your computer.

In the "Choose installation" window that opens, select "**Open**", and in the following window, select the "**+**" symbol.







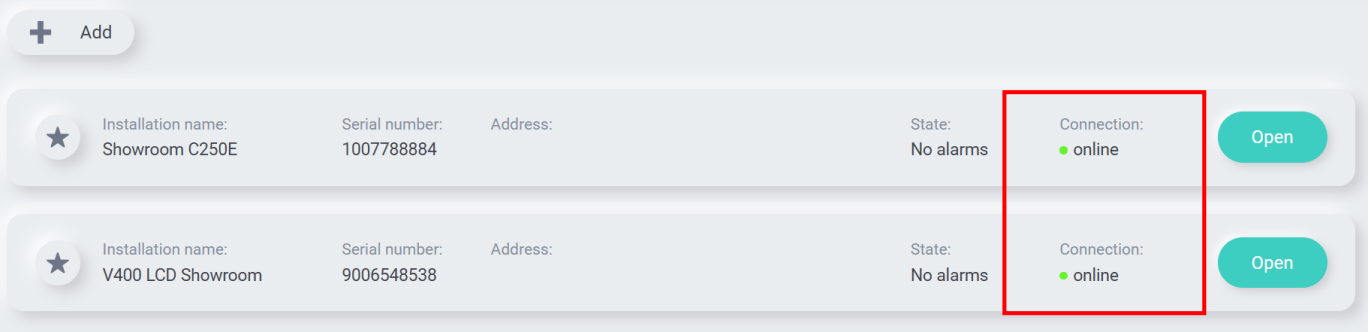
Oxygen Easy app window on your smartphone.

Here you will see the quick access buttons with which you can control the device. Advanced control and information about the device is available through the menu at the top right.

The values of the buttons are listed in Table 5.

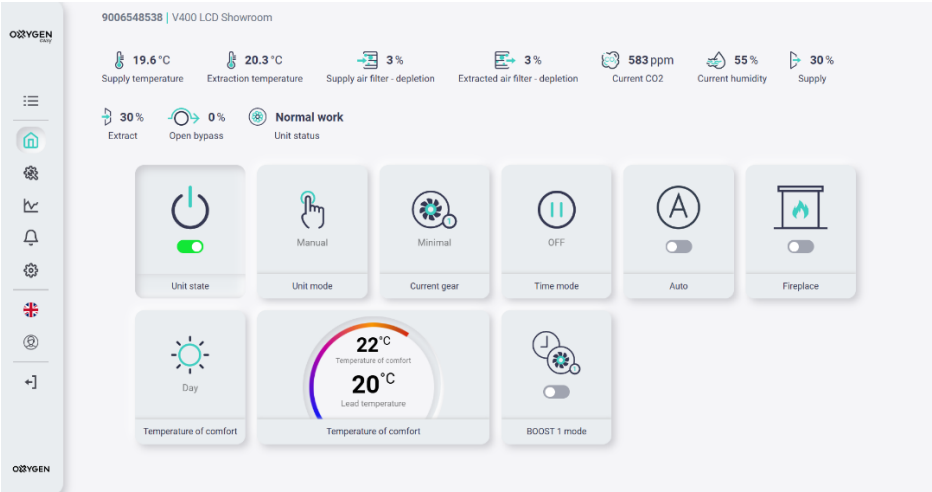
5.2.3. Device management through easy.oxygenvent.com website

Open the **easy.oxygenvent.com** website window. If there is a WI-FI connection - the green "online" point will light up.



5.2.4. Home window.

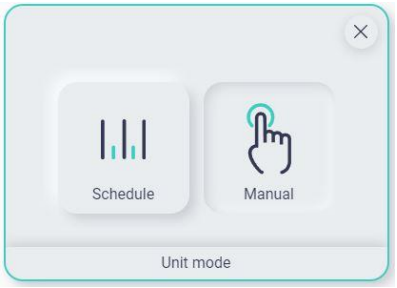
The top row displays only basic information, i.e. the temperature of the air supplied to and from the premises, the contamination of the filters, the relative humidity of the air extracted from the premises, CO2 ppm (if installed), the speed of the fans.

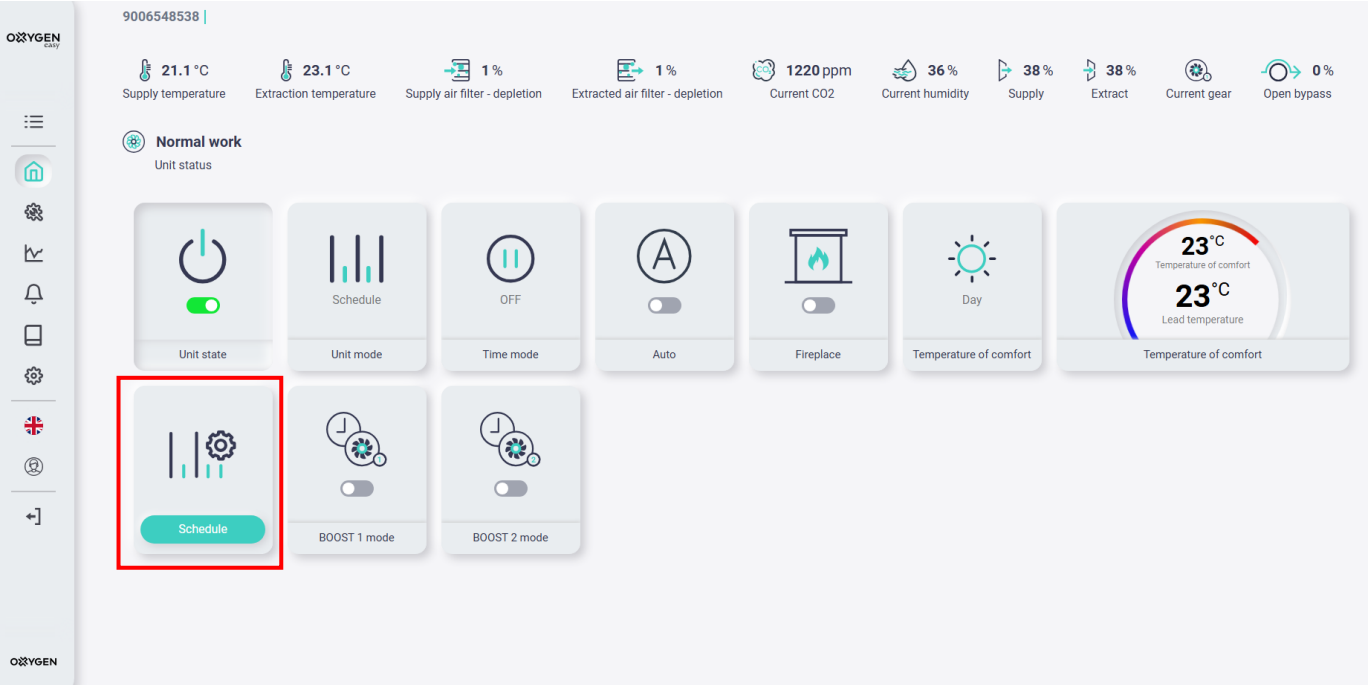


Unit state - Turning the device on / off

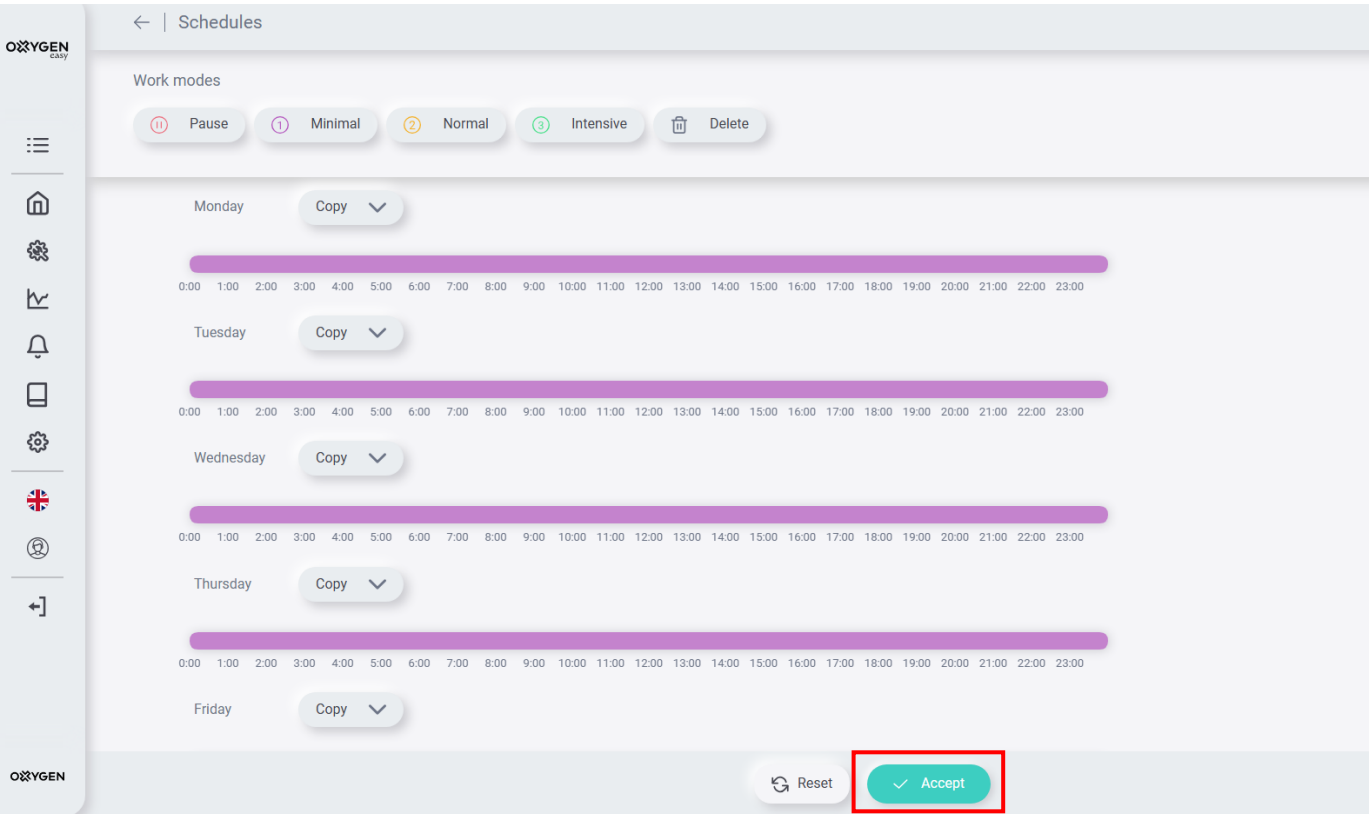
Unit mode - Manual - the device will work in manual mode.

Unit mode - Schedule – The device will work according to the weekly program you have compiled.
In order to make a weekly application, press the "Schedule" button. In the window that opens, an additional box "Schedule" will appear on the right side (pictured in the photo below).

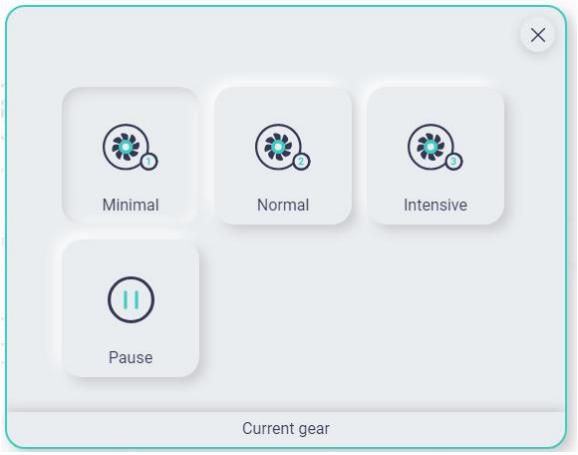




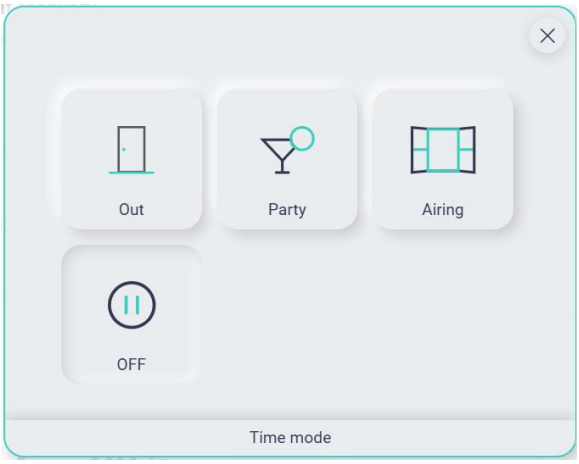
After pressing this button, a window for compiling a weekly program will appear. In it, according to the most suitable need for you, you will be able to arrange a weekly schedule of operation of the device. After the schedule is drawn up for each day, click on the "Accept" button at the bottom of the window.



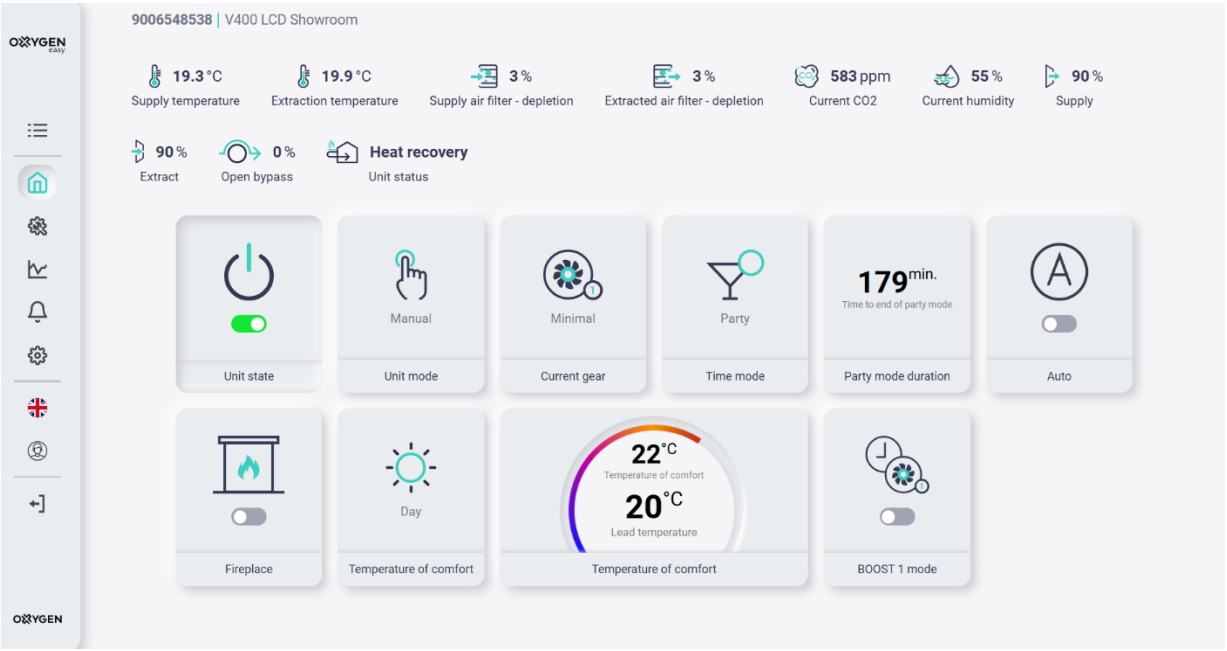
Current gear – fan speed selection



Time mode functions:

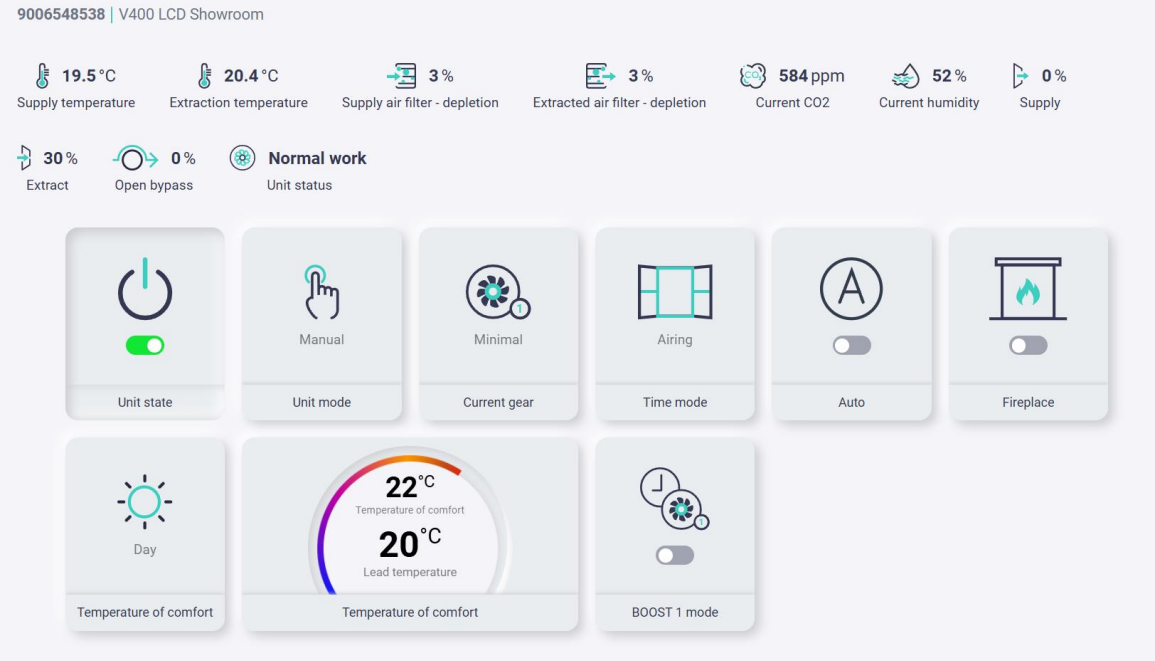


Party mode – The device will work in elevated mode for the selected time frame. The feature is useful when a larger number of people gather indoors.

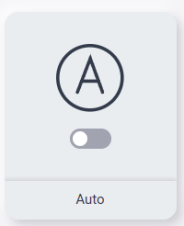


Out mode – Disables the device for a set time.

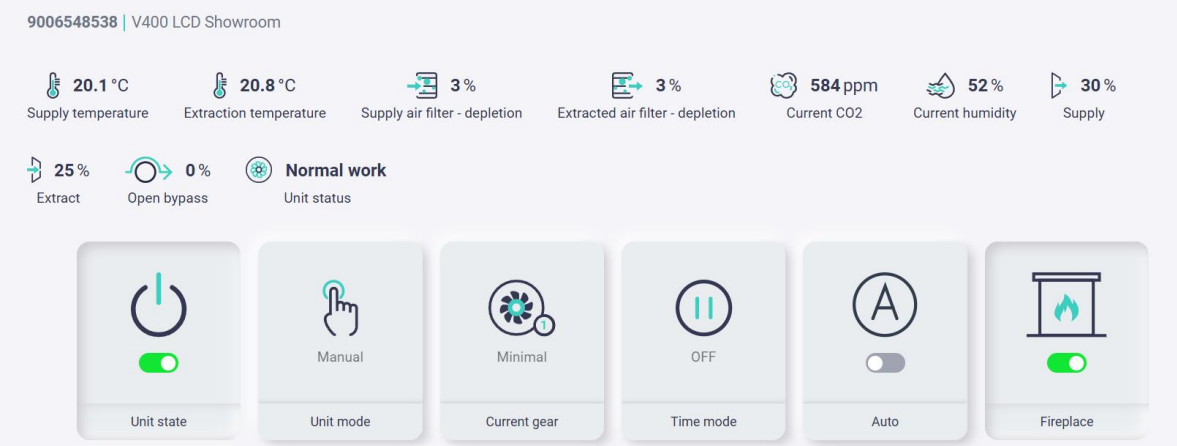
Airing mode – Helps to quickly change the air in the house when the window is opened. The air supply is completely turned off and only the extraction is left.



Auto – the device will work according to the data received by the humidity and CO2 (if installed) sensor. With an increase in humidity levels or CO2 levels, the unit will easily increase its speed until it reaches the established norms.

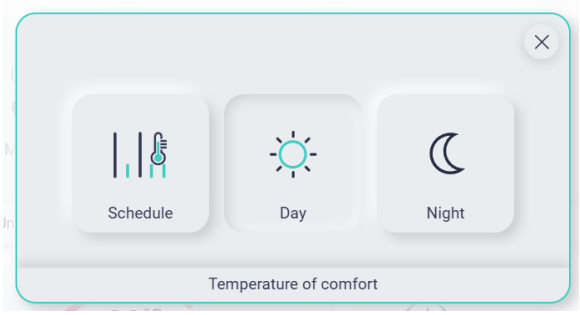


Fireplace – The supply air flow remains the same, but the flow of exhaust air is reduced. This mode does not apply to sealed fireplaces with a separate air supply from the outside, as well as to hoods working in recirculation mode.



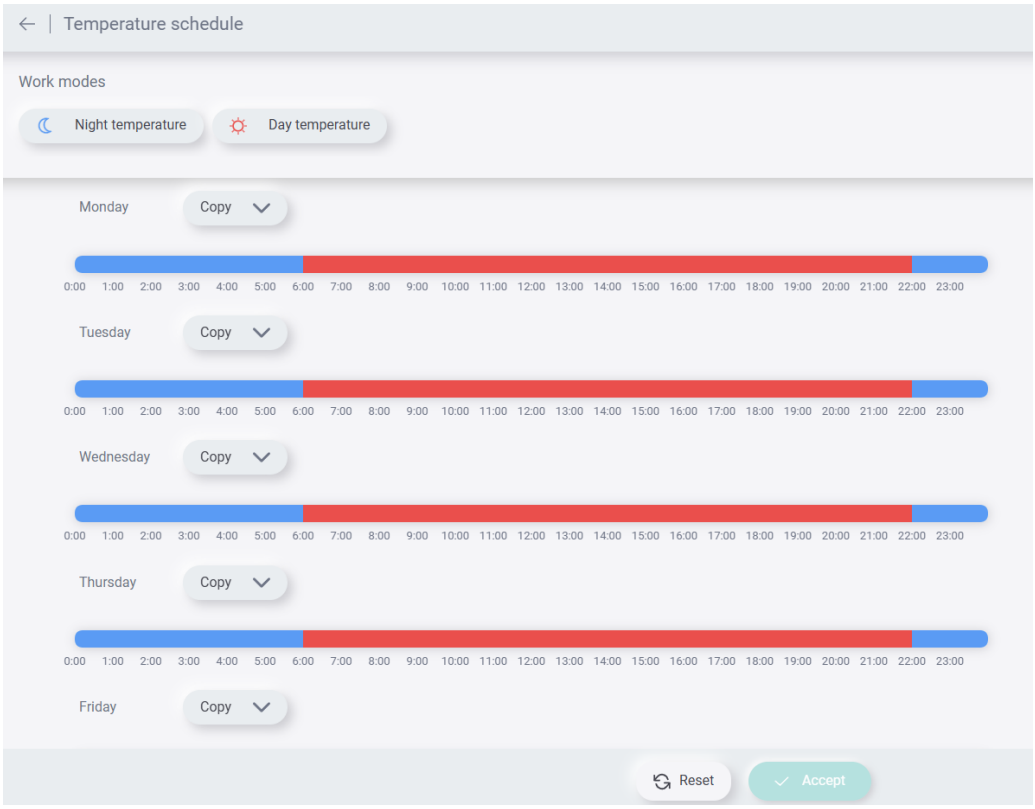
Temperature of comfort – This function can be used during the cold period when a secondary heater is installed. Then the temperature of the supplied air will be close to the set comfort temperature. This feature increases electricity costs.

This feature has several settings:

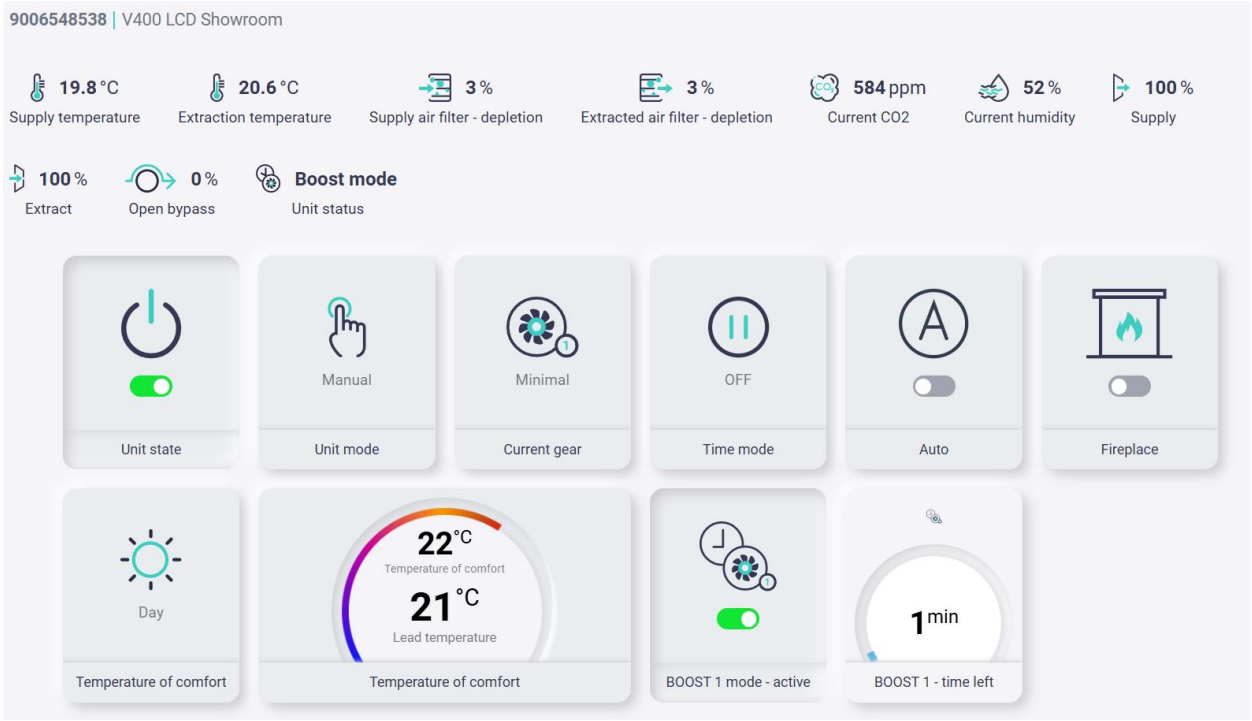


Day – Set comfort temperature during the day.
Night – Set comfort temperature during the night.
Schedule – It is possible to determine at what time in which comfort temperature mode the device is operating.

The comfort temperature schedule can be formed for a whole week:

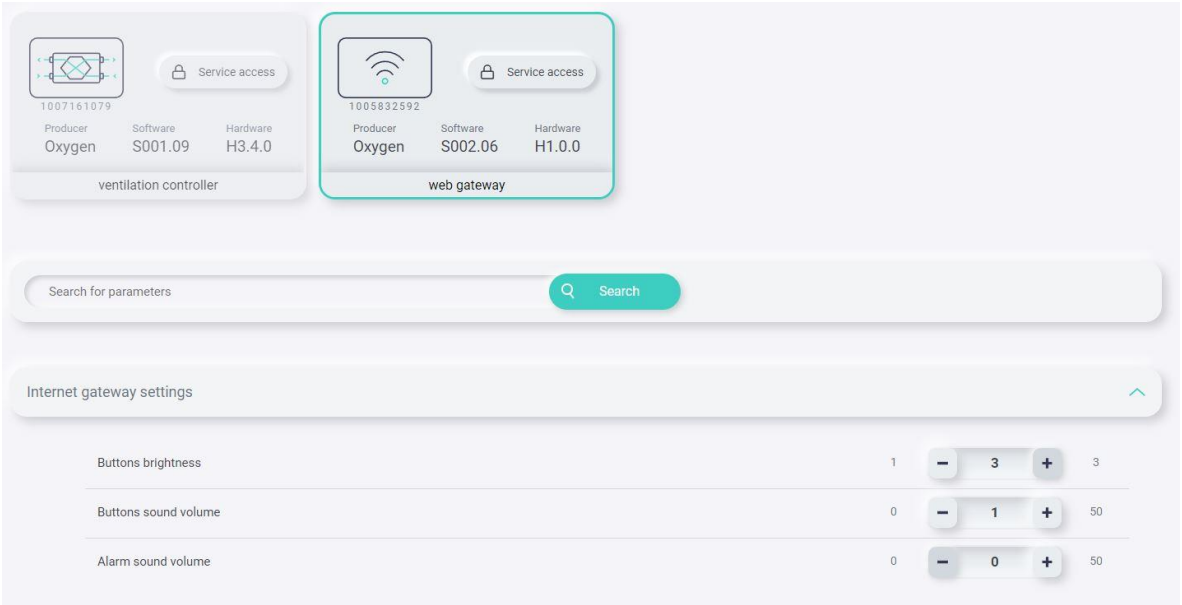


Boost 1 mode – Fan speed (air flow) increases to a maximum (100%), until it is turned off or if a signal is set, then the timer is activated. If there is a need to disable the function earlier, then this can be done by clicking on the function box.

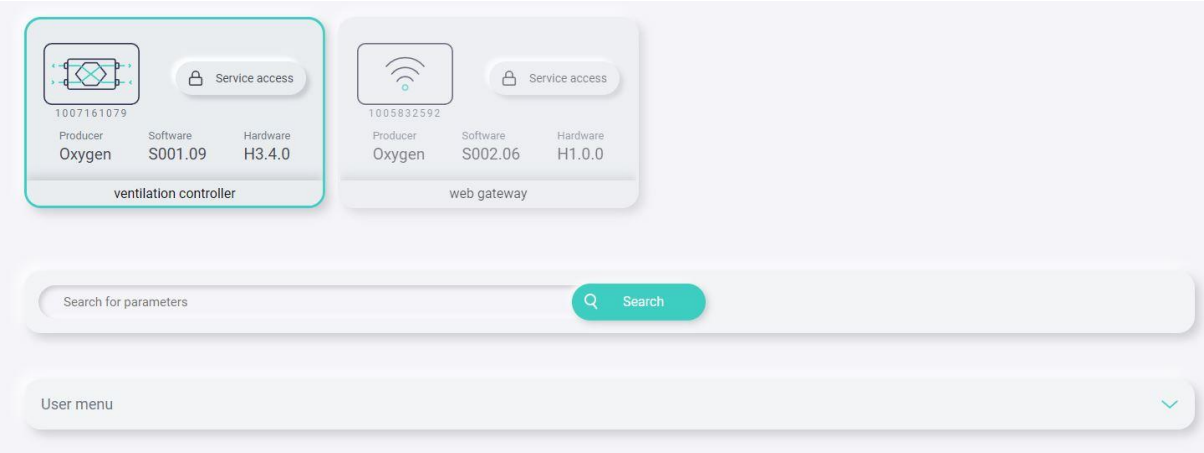


5.2.5. Devices parameters window.

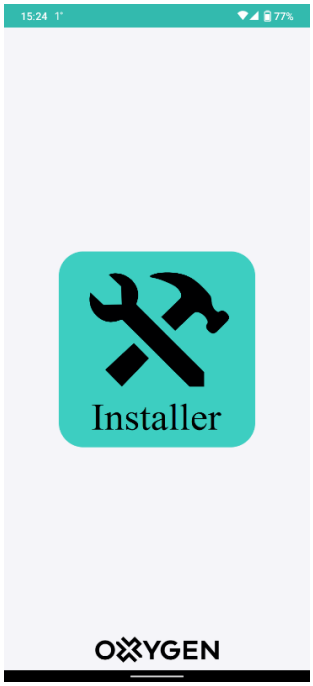
In the **web gateway** window, it is possible to set the brightness of the illumination of the buttons of the remote SCP control, the sound of the buttons and the sound produced by the error identification.



In the Ventilation controller window, the **user menu** drop-down list allows you to see details about the device and perform various configuration actions. A detailed description of "User menu" is in Table 6, point 5.4.



5.3. Controlling the device via “Oxygen Installer” app (Bluetooth connection)



Oxygen Installer app is designed for device control and configuration via Bluetooth when there is no Wi-Fi connection. Note: effective Bluetooth (BT) range is about 10 meters, so if you are in a different room from the device, your smartphone may not detect the device.

To control the device via Bluetooth, you need to install the **Oxygen Installer** app on your smartphone or tablet. You can download it for free from Google Play (for Android devices from version 8 onwards) or the App Store, using the QR code or link provided on the manufacturer's website below.

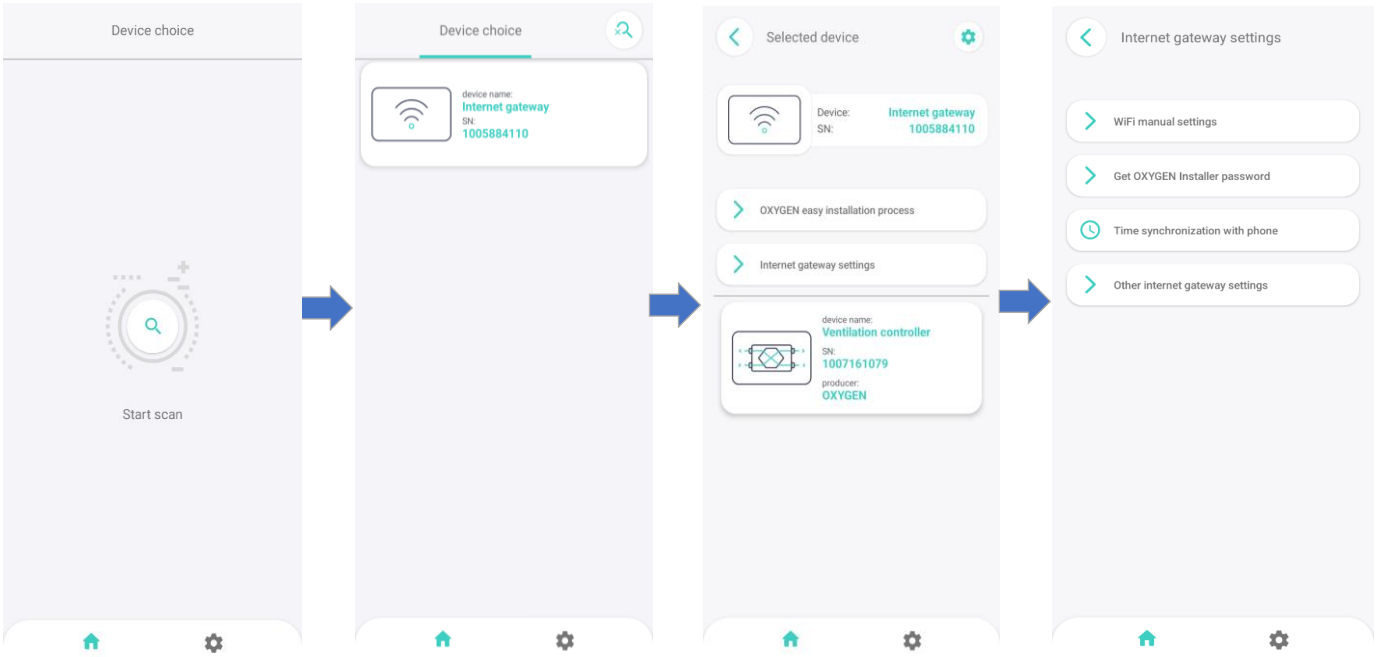
Google play

App Store

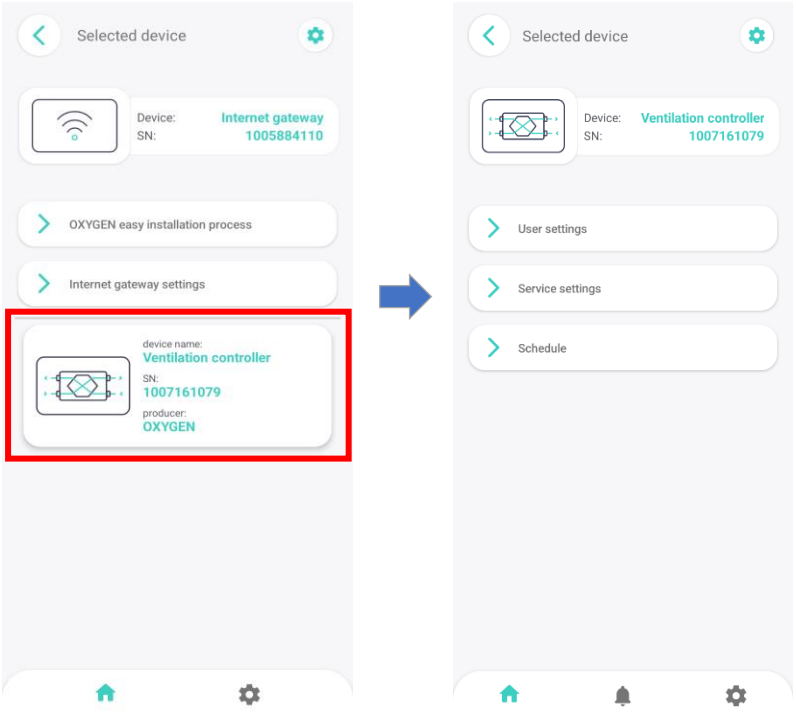
Android: https://play.google.com/store/apps/details?id=com.oxygen.lt.oxygeninstaller

iOS: https://apps.apple.com/be/developer/oxygen-group-uab/id1522780335

After installing the app, open it and initiate the search. The device must be connected to the network, and Bluetooth connection must be active (rapidly blinking BT symbol on the control panel). In the popup window **"Device choice"**, select **"Internet gateway"**, then proceed to **"Internet gateway settings"** > **"Time synchronization with phone"**. The controller will automatically synchronize the date and time with your phone's clock.



Then return to the "**Select device**" window and choose "**Ventilator controller**" (highlighted in red). In this window, you can access one of the three suggested menus: 1) User settings, 2) Service settings, and 3) Creating weekly schedules (Schedule).



5.4. User settings

Below in the table are the values of the user settings. After selecting the desired value, in order for it to be executed, you need to touch the "Accept" button.

Table 6

Work modes		
Unit state	**ON**	Turn on the device
	OFF	Disable the device
Unit mode	**Manual**	The device will work in manual mode
	Schedule	The device will work according to the weekly mode schedule drawn up by the user of the device
Current gear	**Minimal**	Fans will work at the speed set by the device user. Factory settings: Minimal – 30%, Normal – 50%, Intensive – 70%.
	Normal	
	Intensive	
	Pause	Temporary suspension of an installation
Auto	**On**	The device operates according to the data received from the humidity and CO2 (if installed) sensor
	Off	
Time mode	**Out**	This function can be selected when you leave home. The device will be switched off for a set period of time.
	Party	Increases air circulation in rooms for a set period of time. Useful when more people are gathered indoors.
	Airing	When this function is activated, the air supply fan stops. The function can be adapted to quickly ventilate the room, e.g. burnt food in the kitchen.
	Off	Disable activated Time mode
Schedules	**Yes**	Turn the weekly schedule on / off
	No	
Fireplace	**Yes**	The fireplace mode feeds more fresh air into the premises (causes overpressure) and thereby improves the extraction of smoke through the chimney. Connect only when using a fireplace. Factory setting – (-20%). This mode does not apply to sealed fireplaces with separate air supply from the outside, as well as to hoods working in recirculation mode.
	No	
Fan speed difference – fireplace	**-100% to 0%**	The difference in percentages between the supply and exhaust air fan streams
Temperature of comfort	**Comfort temperature Day**	The function works only in summer, when the outside temperature is below the set level. The function is chosen to cool the premises in cooler outdoor air. The schedule allows you to make a temperature schedule for the whole week.
	Comfort temperature Night	
	Schedule	
Auto mode settings	**CO2 sensor** **Humidity sensor**	Allows you to change the hysteresis from when the increase in air flow is activated and when it heals into the set operating mode

BOOST1 fan control	**Supply fan control BOOST 1** **Extraction fan control from BOOST 1**	It is allowed to change the fan speed for the BOOST1 function
User modes *(Device user settings)*		
Minimal	**Supply fan control**	The user of the device can choose for himself the size of the air flow for each fan speed individually. We recommend that the fans of the supplied and exhaust air work at the same speed, otherwise the system may be unbalanced. Recommended rates: 1st speed (minimum) 25 – 35% 2nd speed (normal) 45 – 55% 3rd speed (intense) 65 – 75%
	Extraction fan control	
Normal	**Supply fan control**	
	Extraction fan control	
Intensive	**Supply fan control**	
	Extraction fan control	
Time modes settings *Temporary settings for device operation*		
Airing	**Set fan control**	The function is designed to quickly ventilate rooms, for example when food is burnt, and unpleasant odors are spread throughout the room. When activated, this function stops the supply air fan, so that the window(s) must be opened to allow air to flow freely to prevent a vacuum from forming. The function is more suitable for the warmer seasons.
	Airing mode time duration	
Party	**Party mode duration**	The function is designed for faster air exchange when gathering indoors for a larger number of people. Fans will work at a speed of 90% for a set period of time.
	Supply fan control	
	Extraction fan control	
Out	**Exit mode time duration**	The function is designed to turn off the device for a set time when leaving home
Information		
Current work status		
Current comfort temperature		Displays the comfort temperature set by the user of the device
Current lead temperature		
Control mode		**Heating**
Outdoor temperature		
Work mode		**Auto**
Current work mode		
Main work mode		**Minimal**
Temporary work mode		**OFF / ON**
Schedule		**Inactive / Active**
Temperatures		
Intake air temperature		°C
Exhaust air temperature		°C
Supply air temperature		°C
Extract air temperature		°C
Additional sensor temperature		°C

Fans control		
Controle mode		**Standart**
Supply fan – work state		**ON / OFF**
Supply fan - control		%
Extraction fan – work state		**ON / OFF**
Extraction fan - control		%
Supply fan – revolutions per minute		RPM
Extraction fan – revolutions per minute		RPM
Filters		
Change - supply air filter		**No / Yes**
Change - extraction air filter		**No / Yes**
Filters - information		
Supply air filter – expire state		**15%**
Extract air filter – expire state		**15%**
Operation days - supply filter		Shows how many days the filter is in use
Operation days - extract filter		Shows how many days the filter is in use
Heat recovery *(Heat return)*		
Bypass control		***0%** - fully closed* ***100%** – fully open*
Preheater		
Preheater type		***Electric / 0 – 10VDC / PWM***
Preheater state		***ON / OFF***
Boost mode		
BOOST1 – time left		**Min**
BOOST1 – contact state		**Open/Closed**
Analog air quality sensor		
Current CO2		***Ppm***
CO2 set point		***Ppm***
CO2 hysteresis		***Ppm***
Current humidity		***%***
Humidity set point		***%***
Humidity hysteresis		***%***
Operation hours		
Days of device operation		
Filters		
Start filter change procedure	**No**	Before starting the procedure for changing the filters, you need to switch to "Yes"
	Yes	
Filter change procedure	**Supply air filter – Class**	Select and confirm one by one M5/ePM10 55% G4/Coarse 50% F7/ePM1 70%
	Extraction filter – Class	
	Has the air supply filter been changed?	**Yes/No**

	Has the extraction filter been changed?	**Yes/No**
Has filter change been completed?	**Yes/No**	
Alarm control panel *(Alarm control panel)*		
Alarm control panel enable	**Yes**	The function is connected to ensure that the recuperator responds to the activation of the alarm
	No	
Input logic state	**Normally close**	Selected depending on the scheme of the alarm control panel
	Normally open	
Ventilation unit response	**Switching off the panel**	When alarm control panel enable is turned on and the alarm is triggered, the device will be turned off
	Change of speed	When alarm control panel enable is turned on and the alarm is triggered, the fans will work at the set speed
Extraction fan control	25% - 100%	When you turn on "Alarm control panel enable" and select "Change of speed", and when the alarm is triggered, the fans will work at the set speed
Supply fan control	25% - 100%	
Airing	**Inactive** **Active**	When alarm control panel enable is turned on and the alarm is triggered, the ventilation function can be selected
Airing *(ventilation)*		
Supply fan control	25% - 100%	After activating the Alarm control panel enable function and activating Airing, when the alarm is triggered, the device will ventilate the premises according to the given parameters
Extraction fan control	25% - 100%	
Duration of airing	1min. – 100min.	
Airing time cycle	1h – 24h	

(1) – The temperature sensor is standing behind there, so in the cold season, when the heater is turned on, the temperature of the air supplied to the heat exchanger will be displayed.

6. TECHNICAL MAINTENANCE PERFORMED BY THE USER

In order for the ventilation system to work properly, it is important to regularly inspect and maintain all filters. In case of contamination of the filters, the unit will work louder, since the fans must compensate for the increased resistance. With clean filters, the device will work quieter and consume less power. Depending on the pollution of the environment, it is recommended to inspect the filters every 3 - 6 months.

Filter class by EN 779:2012	Filter class by ISO 16890	Particle size	Percentage of particles removed by the filter	Examples of particulate matter sizes
G4	ISO coarse	>10 µm	> 60%	Pollen: 10 – 100 µm Household dust: 1 – 100 µm Mold spores: 8 – 80 µm Wood smoke: 0.006 – 10 µm Animal dander: 0.1 – 25 µm Allergens of dust mites: 0.2 – 25 µm Bacteria: 0.5 – 10 µm Viruses: 0.005 – 0.3 µm Soot: 0.01 – 0.3 µm Tobacco smoke: 0.01 – 1 µm
		<10 µm	<50%	
M5	ISO ePM_{10}	0.3 - 10 µm	≥ 50%	
	ISO $ePM_{2.5}$	0.3 - 2.5 µm	10 – 45%	
	ISO ePM_1	0.3 – 1 µm	5 – 35%	
F7	ISO ePM_{10}	0.3 - 10 µm	80 – 90%	
	ISO $ePM_{2.5}$	0.3 - 2.5 µm	> 70%	
	ISO ePM_1	0.3 – 1 µm	50 – 75%	

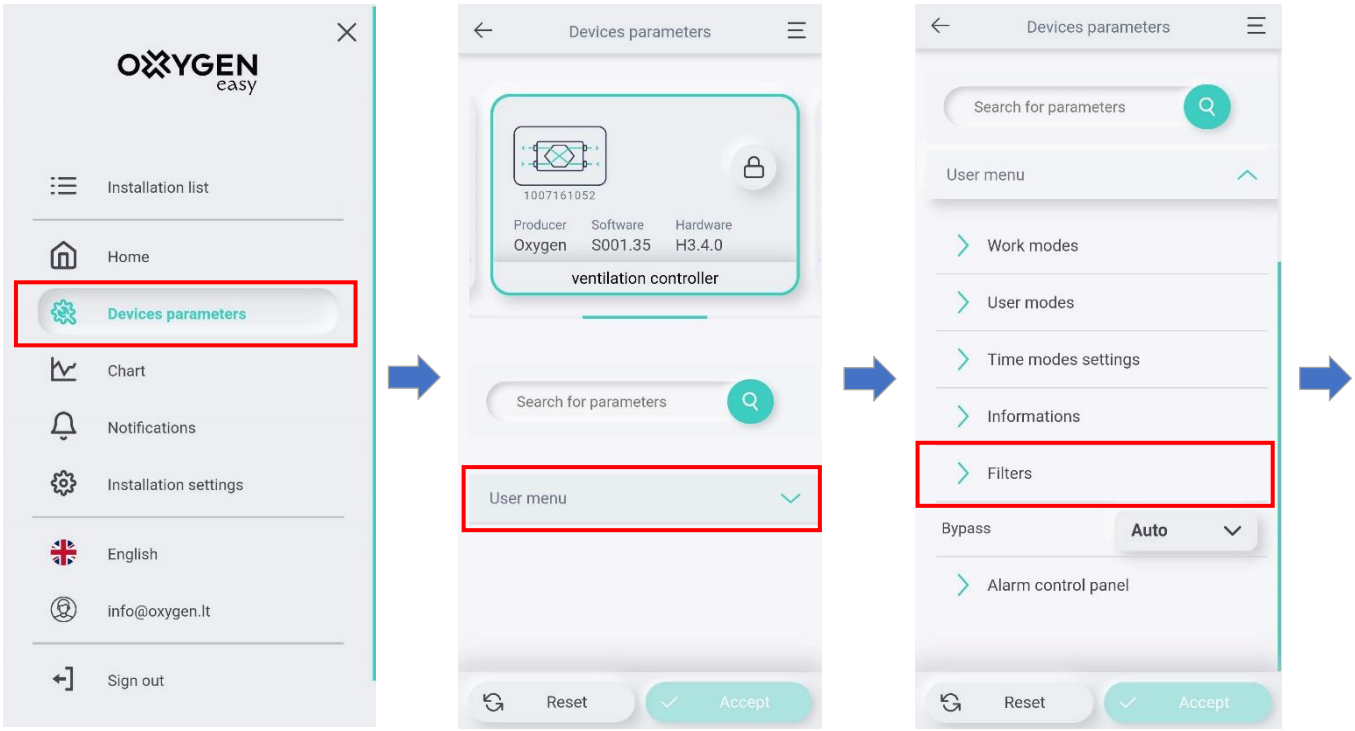
* By filtering the air through a layer of activated carbon, the chemical particles in the air attach to the surface of the carbon and remain there, while cleaner air enters the room. Activated carbon filters can remove many different chemicals, including:

- **Volatile organic matter (LOM)** such as formaldehyde and benzene.
- **Smells** (e.g. smell of tobacco smoke, cooking scents).
- **Chemicals** that are used in household chemicals or other everyday products.

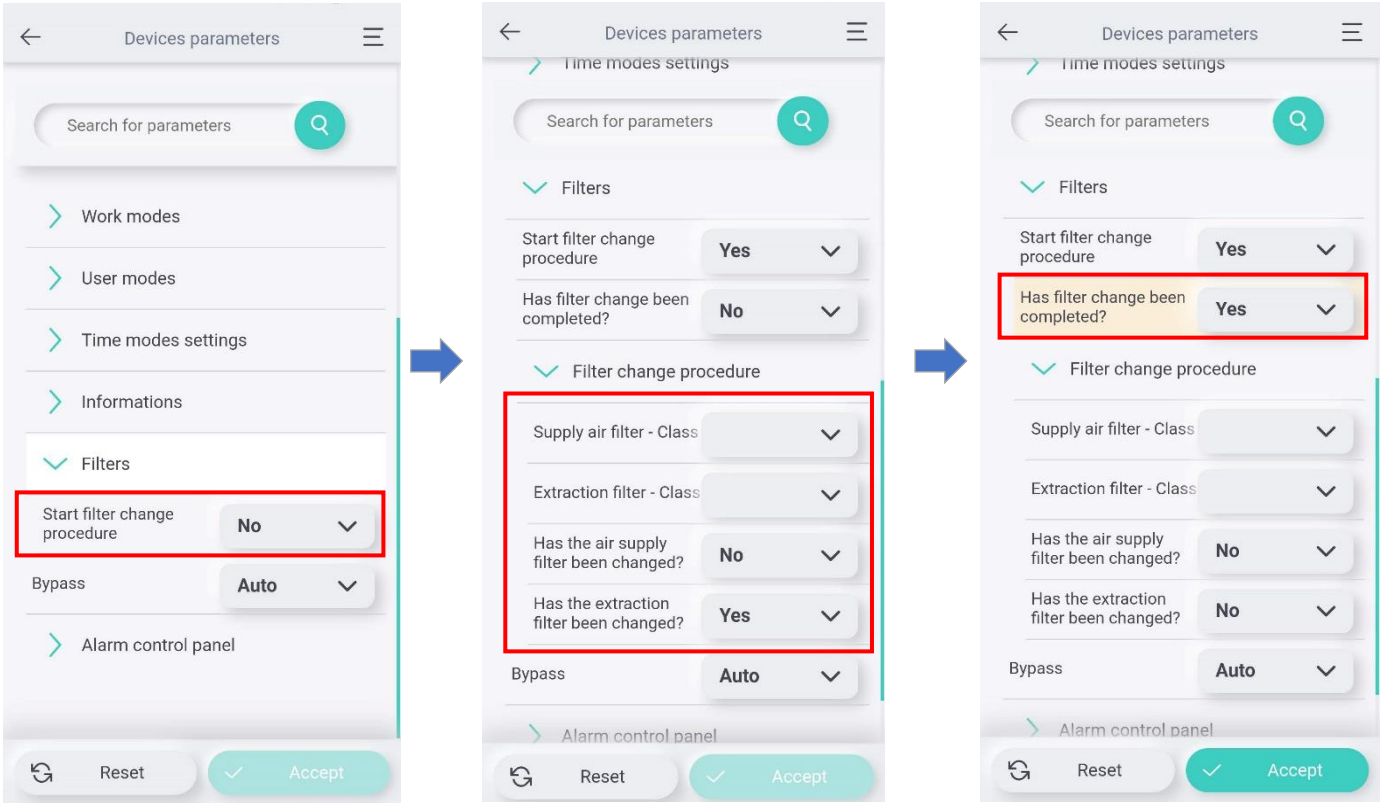
When changing filters, we recommend that you check the outdoor grill at the same time

6.1. How to restart filters:

Go to the "Devices parameters", after selecting the controller we expend the "User menu" view, go to the bottom and open tab "Filters".



In the tab "Start filter change procedure" we select "Yes". After a few seconds, you will see the "Filter change procedure" section. Expand it and select the filter class that will be use and press "Accept". Then, one by one, we confirm that we have changed the filter. After these steps, "Has filter change was completed" will appear, press and select "Yes". The filter replacement process is complete.



7. MAINTENANCE AND REPAIR BY A QUALIFIED PERSON

Maintenance and repair should be carried out only by qualified personnel. Maintenance and repair measures include checking and cleaning the fan and heat exchanger. Cleaning the heat exchanger is carried out depending on the degree of dirt. The care interval should not exceed two years.

The procedure for cleaning the heat exchanger:

- Immerse the heat exchanger several times in warm (max. 40 °C) water.
- After that, rinse the heat exchanger thoroughly with warm tap water (max. 40°C).
- When drying, place the heat exchanger in such a way that the remaining water can escape from the openings.
- Before reinstalling, let the heat exchanger dry completely.

It is very important not to use any detergents that are aggressive or have a strong odor!

Changing the type of heat exchanger:
The unit can be equipped and operated with two different types of heat exchangers:

- Standard counterflow heat exchanger
- Enthalpy heat exchanger for counterflows

8. TROUBLESHOOTING GUIDE

Problem	Possible reason	Solution
The ventilation device is turned on, but the fans do not work	No feeding.	Make sure that power is coming to the controller of the device, otherwise eliminate the malfunction.
	Jammed fan impeller.	Turn off the device. Eliminate the cause of engine jam.
	The control panel shows the recorded malfunction	Turn off the device, contact the seller.
The automatic circuit breaker turns off after the device is turned on	Short circuit or current leakage in the electrical circuit.	Turn off the device, contact the seller
Low air flow	Set to low fan speed	Set higher speed.
	Clogged air filters.	Replace filters with new ones.
	Tucked fan grilles, diffusers	Clean the fan grill and diffusers.
During the operation of the ventilation device, excessive noise is heard, vibration is felt	Contaminated fan impeller	Clean fan impellers
	The fastening bolts of the ventilation device came loose. No mounted anti-vibration gaskets	Install anti-vibration gaskets, check for loosening of the mounting bolts of the unit.
Unreasonably high temperature of the supplied air, extremely high electricity consumption	It is possible that the heater is defected.	Turn off the device, contact the seller.
Water leak (only for devices with standard heat exchangers)	The condensate drainage system is contaminated, damaged or incorrectly installed.	If necessary, clean the drainage line. Check the slope of the drainage line. Make sure that the sewer pipes are protected from the cold.
Condensate on the body of the unit and / or on the ducts	The device is installed in a room with increased humidity, for example, in a bath	Nothing needs to be done

9. WARRANTY AND LIABILITY

9.1. Warranty conditions

The device is subject to a 24-month manufacturer's warranty from the date of purchase of the item. Claims for the warranty can be made only for material failures that have arisen during the warranty period. In the event of a warranty claim, the device cannot be dismantled without the written permission of the manufacturer. Spare parts are covered by the warranty only if they have been supplied by the manufacturer and installed by an installer approved by the manufacturer.

	The warranty shall expire when: • The warranty period has expired; • The unit was used without air purification filters; • At least one installation /operation condition from the user's instructions is violated; • The device is equipped with parts that have not been provided by the manufacturer (with the exception of filters); • Modifications or modifications not approved by the manufacturer have been made; • The installation is installed without complying with the current Construction Technical Regulations and the mandatory requirements specified in this instruction; • Defects are due to incorrect connection, improper use or contamination of the system.

The warranty does not apply to normal wear of the ventilation unit. JSC "Oxygen group" reserves the right to change the design and / or configuration of its products at any time, without having to change the previously delivered equipment.

9.2. Liability

The ventilation unit is designed and manufactured for ventilation of indoor spaces with balanced air flows. Any other use shall be considered as improper use and may cause damage to the unit or to the premises for which the manufacturer cannot be held responsible. The manufacturer shall not be liable for any damage caused by:

- Failure to comply with the safety, use and maintenance instructions in this document;
- Use of components not supplied or recommended by the manufacturer. The use of such components is the sole responsibility of the installer;
- Defects due to incorrect connection or improper use of the system;
- Normal wear and tear;

10. TECHNICAL SPECIFICATION ACCORDING TO ECODESIGN (ERP), NO. 1254/2014

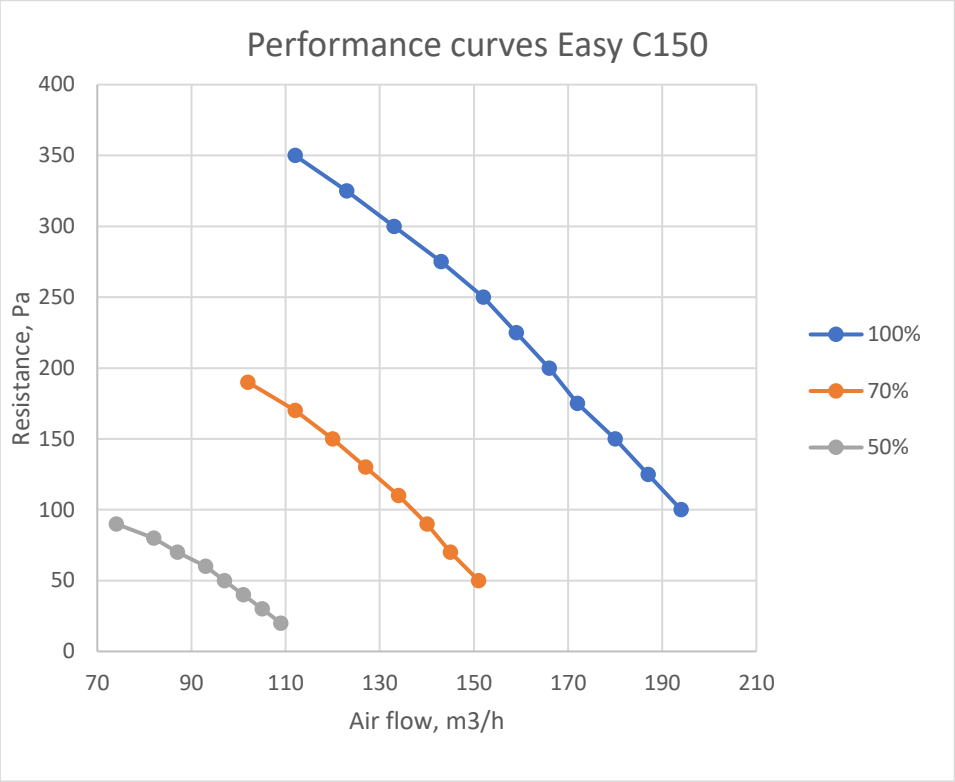
Product model	Easy C150	Easy C150E	Easy C200	Easy C200E	Easy C250	Easy C250E
Brand	Oxygen Group					
Specific Energy Consumption (SEC) class	A+	A+	A+	A	A	A
Specific Energy Consumption (SEC) value						
Cold climate (kWh/m2/a)	-83.5	-82	-81,6	-77,3	-79,9	-75,2
Temperate climate (kWh/m2/a)	-43,3	-42,9	-42	-39,6	-41,4	-38,2
Warm climate (kWh/m2/a)	-13	-17,9	-16,8	-15,4	-16,8	-14,4
Type of ventilation unit	Ventilation device with heat recovery					
Fan	Variable speed EC fan					
Heat exchanger type	Counterflows	Counterflows, Enthalpy	Counterflows	Counterflows, Enthalpy	Counterflows	Counterflows, Enthalpy
Thermal efficiency	93%	87.9%	90%	80.8%	84.7%	77.3%
Maximum air flow rate, (m3/h)	143	143	200	200	230	240
Electrical power input of the fan at maximum flow rate (W)	76	76	110	110	110	142,8
Specific fan power (SFP), kW/(m3/s)	0,99	0,99	1,16	1,16	1,04	1,53
Sound power level (LWA)	49	49	49	49	49	48
Reference flow rate, (m3/s)	0.028	0.028	0.039	0.039	0.045	0.046
Reference pressure difference, (Pa)	50	50	50	50	50	50
Specific power input (SPI), W/(m3/h)	0.29	0.24	0.34	0.38	0.3	0.42
Controller factor	0.65					
Control type	Local demand sensor					
Leakage level*						
Internal	1.4%	1.4%	1.4%	1.4%	1.4%	2.07%
External	2.5%	2.5%	2.5%	2.5%	2.5%	0.2%
Dirty filter replacement alert	Options described in the user manual					
Internet address for disassembly instructions	www.oxygen.lt					
Annual electricity consumption (AEC) in the temperate climate zone, kWh/100m2.a	198	172	223	245	203	267
Annual heating savings (AHS)						
Cold climate, kWh/100m2.a	9172	9096	9182	8809	8967	8655
Temperate climate, kWh/100m2.a	4689	4650	4693	4503	4584	4424
Warm climate, kWh/100m2.a	2120	2103	2122	2036	2073	2001
Bypass damper	Not included					

* - Measurements made according to EN 13141-7 standard (TNO-report TNO 2014 R10659, April 2014)

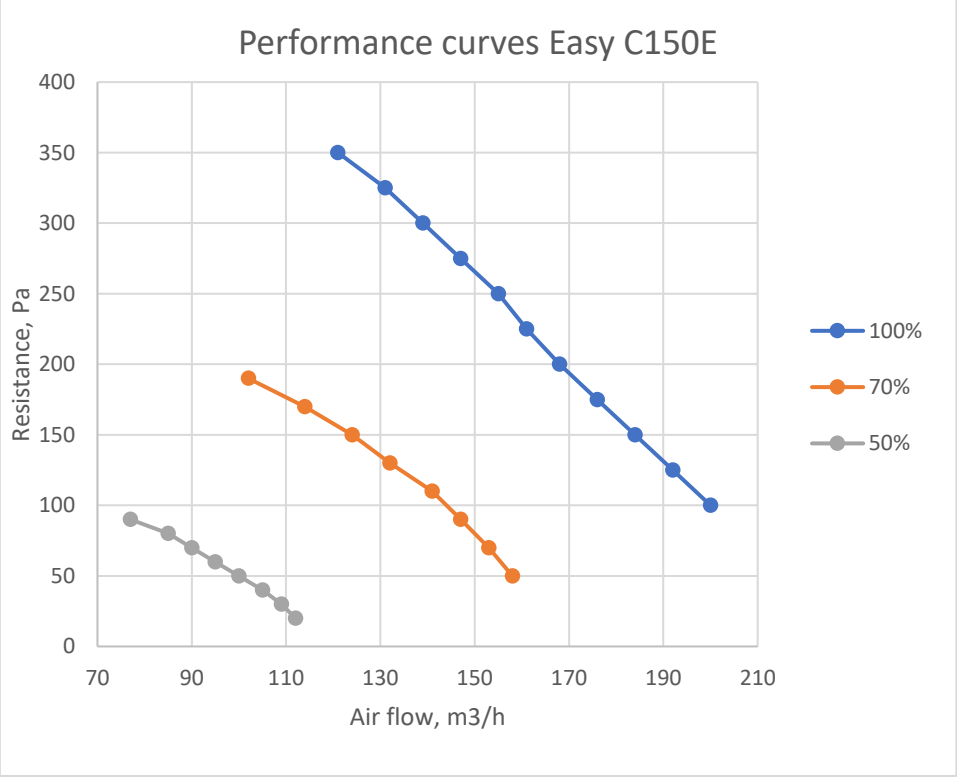
11. PERFORMANCE CHARACTERISTICS AND ELECTRICITY CONSUMPTION

Power setting	Resistance, Pa	Easy C150		Easy C150E	
		Air flow rate, m^3/h	El. cost, W	Air flow rate, m^3/h	El. cost, W
100%	100	194	76.9	200	77.2
	125	187	76.9	192	77.2
	150	180	76.8	184	77.1
	175	172	77.0	176	77.1
	200	166	77.1	168	77
	225	159	76.9	161	77.2
	250	152	76.6	155	77.3
	275	143	76.9	147	77.1
	300	133	77.1	139	76.9
	325	123	76.8	131	78.4
	350	112	76.5	121	79.9
70%	50	151	41.4	158	43.1
	70	145	42.4	153	43
	90	140	42.6	147	42.9
	110	134	42.8	141	42.8
	130	127	42.7	132	42.7
	150	120	42.6	124	42.6
	170	112	42.3	114	42.5
	190	102	42.0	102	42.4
50%	20	109	23.0	112	23.1
	30	105	23.0	109	23.0
	40	101	23.0	105	22.9
	50	97	23.0	100	23.0
	60	93	23.0	95	23.1
	70	87	23.0	90	23.0
	80	82	23.0	85	22.9
	90	74	22.9	77	22.8

Table 7 Performance and power consumption. Measured according to LST EN13141-7 with M5 installed (EN 779:2012), ISO ePM10 (ISO 16890-1) class filters



Graph 1 The dependence of the ventilation power on the resistance of the installed ventilation system



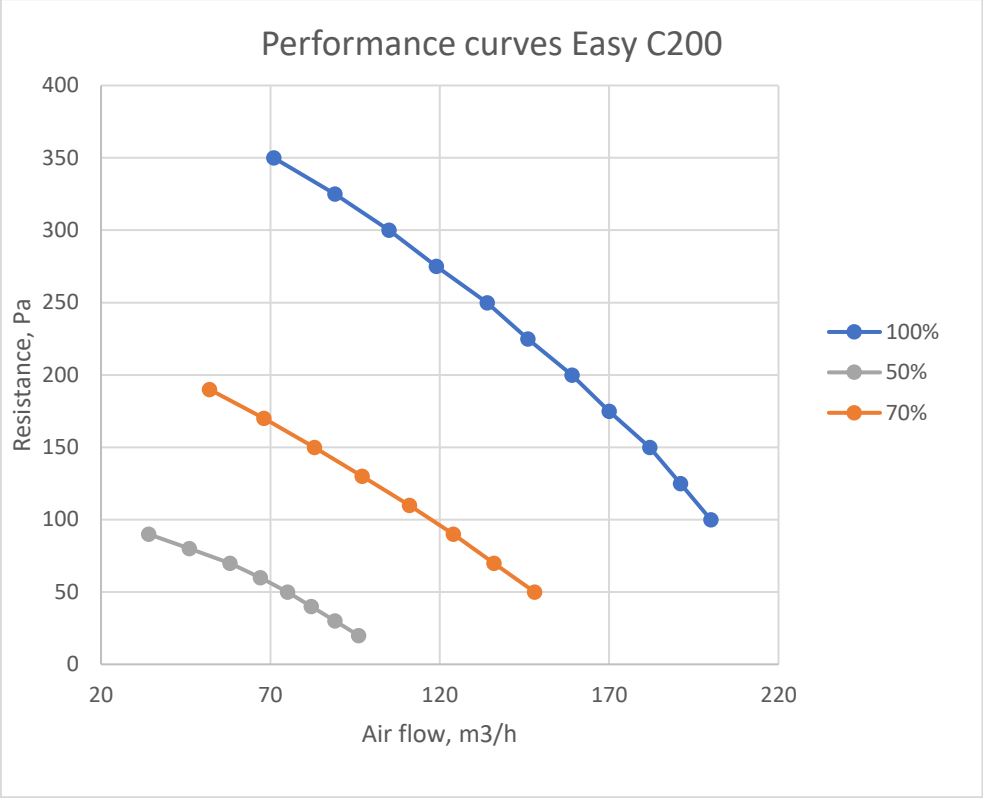
Graph 2 The dependence of the ventilation power on the resistance of the installed ventilation system

Power setting	Resistance, Pa	Easy C200		Easy C200E		Easy C250	
		Air flow rate, m^3/h	E-consumption, W	Air flow rate, m^3/h	E-consumption, W	Air flow rate, m^3/h	E-consumption, W
100%	100	200	109.9	200	109.9	237	103.5
	125	191	109.5	191	109.5	227	103.9
	150	182	109.0	182	109.0	216	104.3
	175	170	108.5	170	108.5	203	104.3
	200	159	108.0	159	108.0	191	104.3
	225	146	107.0	146	107.0	176	102.4
	250	134	106.0	134	106.0	159	100.4
	275	119	104.8	119	104.8	142	98.9
	300	105	103.5	105	103.5	123	97.3
	325	89	102.0	89	102.0	103	94.9
	350	71	100.5	71	100.5	80	92.4
70%	50	148	47.6	148	47.6	166	48.0
	70	136	46.9	136	46.9	155	47.6
	90	124	46.1	124	46.1	146	46.3
	110	111	45.8	111	45.8	133	46.3
	130	97	45.4	97	45.4	119	46.3
	150	83	44.9	83	44.9	98	45.0
	170	68	44.3	68	44.3	74	43.7
	190	52	43.2	52	43.2	51	43.4
50%	20	96	24.2	96	24.2	116	25.2
	30	89	24.1	89	24.1	111	24.7
	40	82	23.9	82	23.9	104	24.2
	50	75	23.7	75	23.7	94	24.1
	60	67	23.4	67	23.4	82	23.9
	70	58	23.1	58	23.1	67	23.6
	80	46	22.8	46	22.8	52	23.2
	90	34	22.6	34	22.6	39	23.1

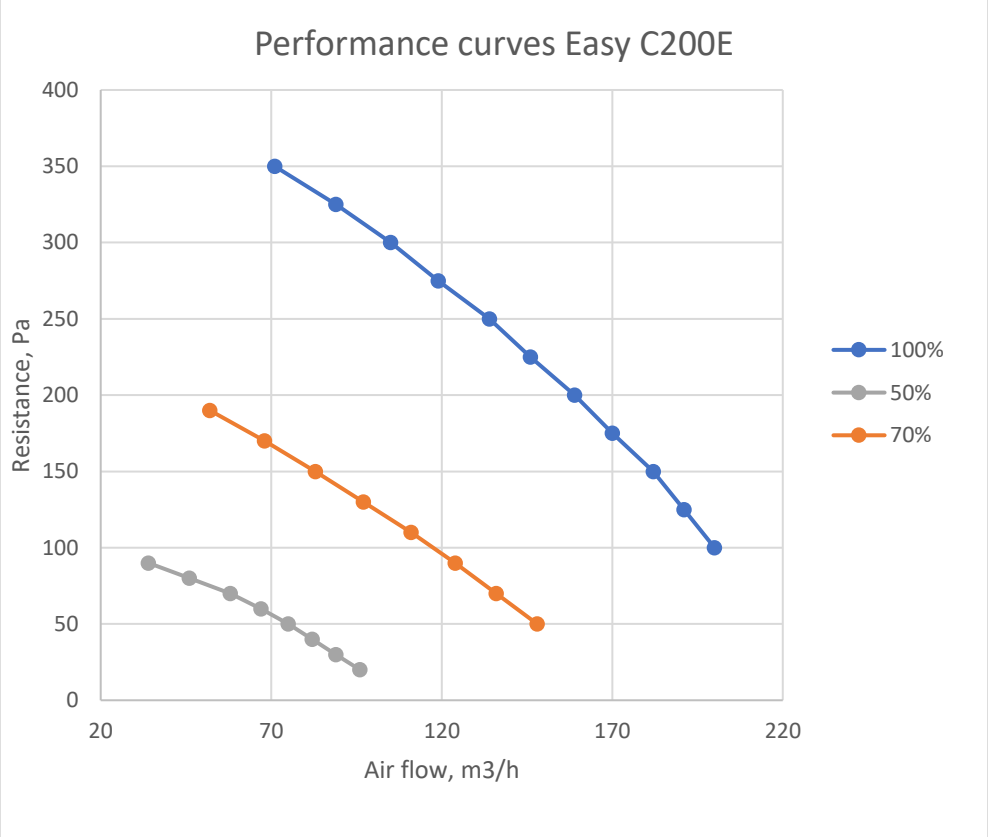
Table 8 Performance and power consumption. Measured according to LST EN13141-7 with M5 installed (EN 779:2012), ISO ePM10 (ISO 16890-1) class filters

Power setting	Resistance, Pa	Easy C250E	
		Air flow rate, m^3/h	E-consumption, W
100%	4.2	267.6	168.1
	48	255.2	168
	99.7	240.8	167.2
	148.7	231	166.5
	202.4	212.5	165.4
	252.5	196.3	165.4
	324.9	170.5	161.3
	402.6	148.1	158.1
	451.3	132.8	157.2
	511.5	117.7	154.5
	572.2	97.1	150.2
70%	1.2	189.1	72.9
	23.5	179.3	72.1
	50	167.6	71.4
	75	157.4	70.1
	100.8	145.8	69.3
	139	127.9	67.5
	172.4	119.9	65.3
	200.3	103.5	63.2
	240.7	79.4	59.8
	279.2	54.3	55.8
50%	1.9	110.8	27.4
	15.8	100.7	27
	33.3	88.4	26.7
	50	75.8	26.2
	68.1	61.2	25.3
	85.9	46.4	24.4
	104.5	28.9	23.3
	116.5	16.5	22.3

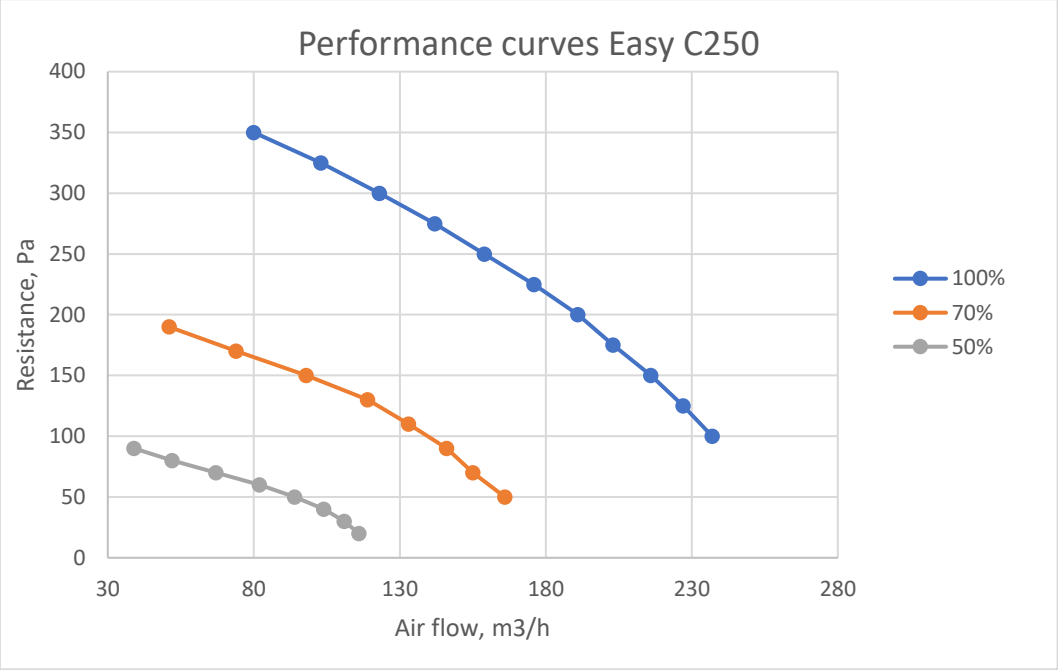
Table 9 Performance and power consumption. Measured according to LST EN13141-7 with M5 installed (EN 779:2012), ISO ePM10 (ISO 16890-1) class filters



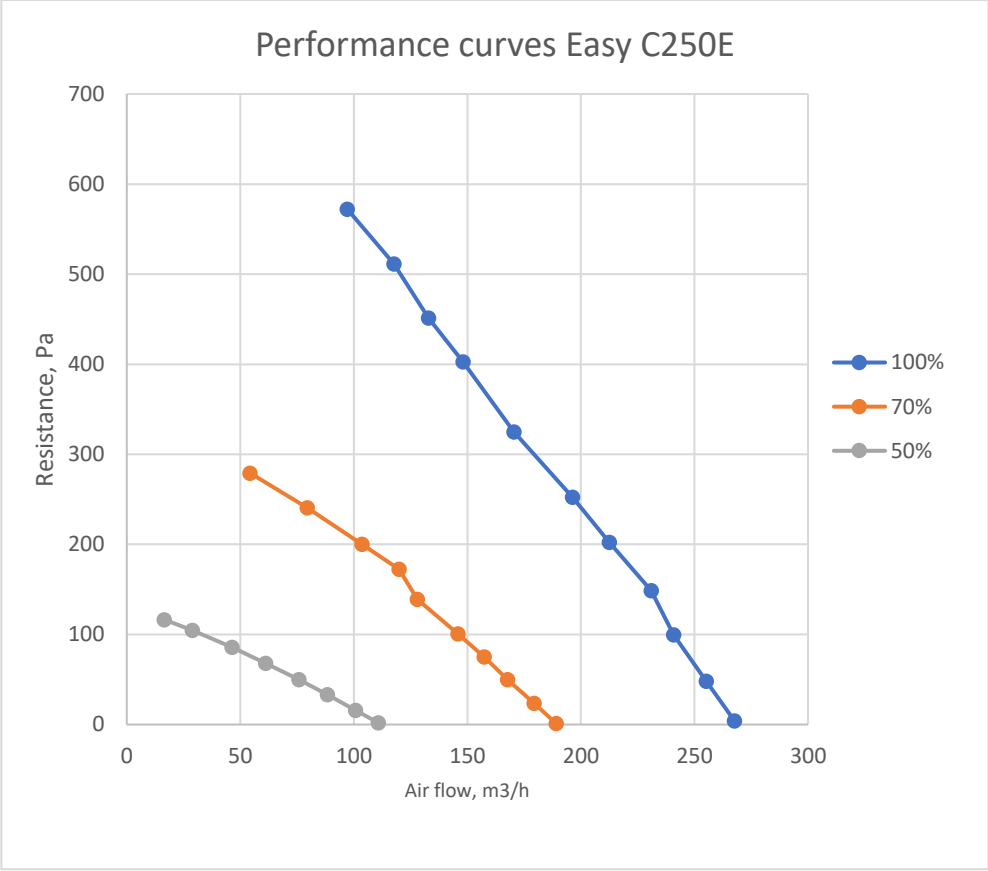
Graph 3 The dependence of the ventilation power on the resistance of the installed ventilation system



Graph 4 The dependence of the ventilation power on the resistance of the installed ventilation system



Schedule 5 Dependence of ventilation power on the resistance of the installed ventilation system



Schedule 6 Dependence of ventilation power on the resistance of the installed ventilation system

12. SOUND CHARACTERISTICS

Easy C150, Easy C150E, Easy C200, Easy C200E, Easy C250									
Power setting	Air channel	A-weighted sound power levels (reference level 1 pW). Db							
		Octave, Hz							Common
		125	250	500	1000	2000	4000	8000	
50%	Supplied	34.1	42.8	42.2	41.7	40.9	30.6	17.5	48.2
	Room	13.3	35.6	35	26.8	22.4	14.8	12.6	38.8
	Outdoor	15.1	36.7	32.1	26.9	21.8	14.4	12.6	38.5
	Removing	28.9	39.7	42	40.7	38.5	28.6	16	46.6
70%	Supplied	39	51.1	51.8	51.2	49.9	43.8	30.4	57.3
	Room	21.5	45.2	44.5	36.6	33.2	22.5	14.2	48.4
	Outdoor	22	44.6	42.8	36.1	33.1	21.7	13.7	47.3
	Removing	35.4	51.1	51.6	50.4	48.4	41.8	28.7	56.8
100%	Supplied	43	56.1	63.3	58.5	58.7	53.6	41.3	66.3
	Room	30.1	47.7	55.3	46.5	42.4	32.1	21.6	56.7
	Outdoor	29.7	48.1	54.3	45.7	42.4	30.7	20.7	55.9
	Removing	41.2	53.3	62	58.4	57.6	52.7	40	65.2

Table 10. Sound characteristics. Measured by LST EN13141-7

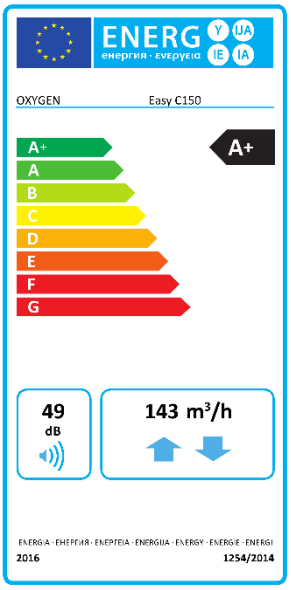
Easy C250E										
Sound power, Hz		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Common
Fresh	$L_W Db$	66,6	61,5	61,6	56,5	42,2	35,5	21,5	5,0	69,0
	L_{WA}, dB (A)	37,8	45,4	52,2	52,1	42,0	36,6	22,6	4,7	55,9
Supply	L_{WA}, dB (A)	84,7	76,9	71,3	66,6	58,5	52,1	47,2	37,6	85,6
	L_{WA}, dB (A)	57,8	60,2	62,4	62,7	58,2	53,3	48,3	37,3	67,9
Extract	L_{WA}, dB (A)	65,4	61,3	62,2	53,3	43,0	35,6	21,6	5,0	68,3
	L_{WA}, dB (A)	37,3	45,4	52,7	49,2	42,7	36,6	22,7	4,7	55,2
Exhaust	L_{WA}, dB (A)	83,2	75,4	70,2	64,4	58,6	52,2	47,7	38,7	84,1
	L_{WA}, dB (A)	56,6	58,7	61,4	61,7	58,2	53,3	48,8	38,4	67,0

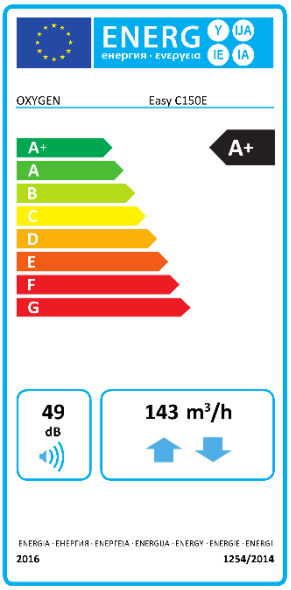
Table 11 Sound characteristics. Measured according to ISO 13347-1:2004, ISO 13347-3:2004, LST EN ISO 3744:2011, LST EN ISO 5136:2010

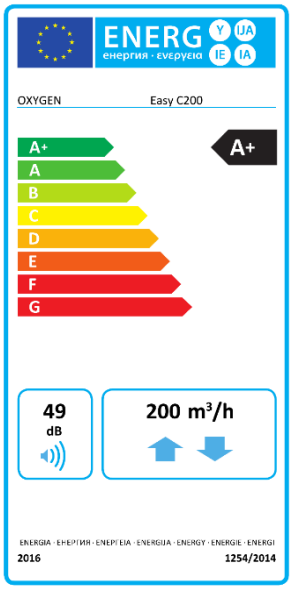
13. ENERGY PERFORMANCE LABELS FOR PRODUCTS

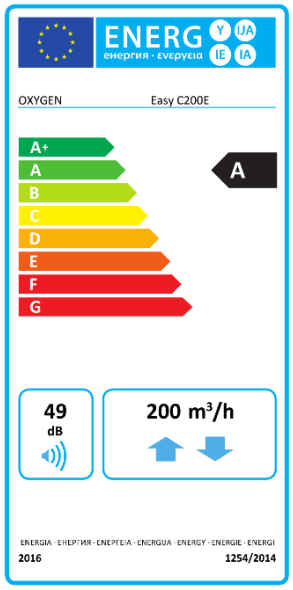
The energy efficiency label applied to the ventilation device of the product corresponds to the installation of the installation and the model identifier of the product data sheet. The product label shall contain the following information from the product data sheet:

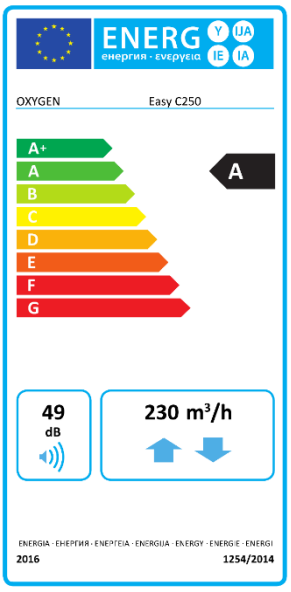
- Energy efficiency class for the temperate climate;
- Indoor sound power level in dB (LWA);
- Maximum air flow;

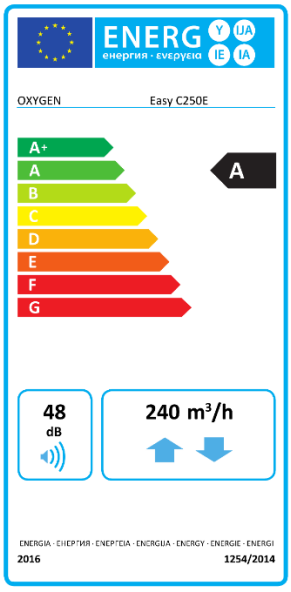












14. DATA SHEET FOR STARTING THE VENTILATION DEVICE

Buyer's details	
Name and surname:	Phone:
Device installation address:	Email:
Total area of ventilated space:	

Model of the ventilation device:		**Idenification No:**

Installer data	
Name and surname of engineer:	
Company:	Phone:
Company address:	**Date of installation:**

Indoor supply air data			
Room	Design data (m^3/h)	Measured data (m^3/h)	
		Maximum flow rate	Minimum flow rate
Living Room 1			
Living Room 2			
Bedroom 1			
Bedroom 2			
Bedroom 3			
Bedroom 4			
Other premises...			
Other premises...			
Other premises...			

Outdoor exhaust air data			
Room	Design data (m^3/h)	Measured data (m^3/h)	
		Maximum flow rate	Minimum flow rate
Kitchen			
Bath 1			
Bath 2			
WC			
Closet			
Laundry			
Other premises...			
Other premises...			
Other premises...			

15. QUALITY ASSURANCE

We strive to ensure that our documentation is accurate and clear. If you notice any errors or inaccuracies, we kindly ask you to notify us by e-mail help@oxygen.lt.

Your feedback is extremely valuable because it helps us to constantly improve our work and provide higher quality products and services.

Thanks for your help!

16. DECLARATION OF CONFORMITY

Ltd. "OXYGEN group"
Birželio 23-osios g. 29
50201 Kaunas
LITHUANIA

Confirms that the following ventilation units with heat exchangers:

OXYGEN Easy C150
OXYGEN Easy C150E
OXYGEN Easy C200
OXYGEN Easy C200E
OXYGEN Easy C250
OXYGEN Easy C250E

Comply with the requirements of the following European Community Directives and Standards:

2009/125/EC – Ecodesign Directive
ES 1253/2014
ES 1254/2014
ES 2017/1369
EN 13141-7:2010

2010/30/ES – Energy Labeling Directive
ES 1254/2014
2011/65/ES – Restriction of Hazardous Substances (RoHS) Directive
EN 50581(2012)
2014/35/ES – Low Voltage Directive
EN 60335-1:2012
EN 60335-1:2012/A11:2014

Director
Aidas Šetikas
2024-11-18, Kaunas