



OPERATING AND INSTALLATION INSTRUCTIONS

WIFIMODULE

MODBUS RTU / WI-FI CONVERTER

FOR XHOUSE, XFLAT HEAT RECOVERY UNITS

TABLE OF CONTENTS

1. General information	4
1.1. Introduction	4
1.2. Warnings and Symbols	4
1.3. Using the WifiModule converter	5
1.3.1. The purpose of the converter and the WifiModule web application – basic information	5
1.3.2. Prohibited environment, use, installation of the WifiModule converter:	5
1.4. Transport, Delivery Control, and Storage	5
1.4.1. Transport	5
1.4.2. Delivery Inspection	5
1.4.3. Storage	5
1.5. Contents of the WifiModule Converter Packaging	6
1.6. Before Starting the Installation	6
2. Technical Parameters	6
2.1. Design of the WifiModule Converter	6
2.1.1. Converter body (position 1.)	6
2.1.2. Front panel of the converter (position 2)	6
2.1.3. Wi-Fi antenna (position 3.)	6
2.1.4. CON – RS485 connector (position 4.)	6
2.1.5. +5V DC - converter power supply (position 5.)	6
2.1.6. RESET – reset button (position 6.)	6
2.1.7. STATUS – green LED indicator (position 7.)	6
2.1.8. WIFI – blue LED indicator (position 8.)	7
2.1.9. Rear part of the converter body (position 9.)	7
2.2. Main Dimensions of the WifiModule Converter	7
2.3. Technical Parameters of the WifiModule Converter	7
2.3.1. Basic Technical Parameters	7
3. Unit Installation	7
3.1. General information, recommendations, and safety when installing the WifiModule converter	7
3.1.1. Electrical safety before installation of the converter	7
3.1.2. Unpacking the converter with its accessories	7
3.1.3. Placement of the Converter	8
3.1.4. Minimum Installation Distances	8
3.1.5. Installing the WifiModule Converter on a Wall	8
3.1.6. Installing the WifiModule Converter “freely” in open spaces	8
4. Connecting the WifiModule converter to a heat recovery unit – Xflat, Xhouse	9
4.1. Creating an Account in the Web APP	9
4.2. Confirming the Registration E-mail	10
4.3. Logging into the Application	11
4.4. Initial application settings	12
4.4.1. Creating a Building	12
4.4.2. Adding a Unit	13
4.5. Connecting the WifiModule Converter to the Unit	15
4.6. Pairing the WifiModule Converter with the Unit	15
4.6.1. Checking the Correct Settings – Pairing of the Converter to the Unit	17

5.	Controls of the WifiModule Web Application	18
5.1.	Description of the Home Screen Elements	18
5.1.1.	Timed Control of the Unit	19
5.1.2.	Manual Control of the Unit	20
5.1.3.	Display of the actual status of the unit	22
5.2.	Description of the Application Menus	24
5.2.1.	Home	24
5.2.2.	Schedules for timed control	24
5.2.2.1.	Changing the Active Profile – Schedule	26
5.2.3.	Changing the Login Password	27
5.2.4.	Settings	28
5.2.4.1.	Modes	28
-	Creating a New Mode	29
5.2.4.2.	Profiles	30
-	Changing the Login Password	30
5.2.4.3.	Units	31
5.2.4.4.	Buildings	31
5.2.4.5.	User Settings	32
5.2.5.	Sign out	32
5.3.	Creating a custom – new time profile	33
6.	Regular maintenance and cleaning of the converter	37
7.	Servicing	38
7.1.	Error Messages in the App – Unit Status	38
7.2.	Status and Error Messages of the Converter	39
7.3.	Malfunction persists	39
7.3.1.	Power supply disconnected	39
7.3.2.	Restart the convertor	39
8.	Final Decommissioning, Dismantling, and Disposal	39
9.	Warranty	40
10.	In Conclusion	40

1. General information

1.1. Introduction

- This document “Operating and Installation Instructions” is intended for a signal converter for conversion between the Modbus RTU protocol and a Wi-Fi wireless network called WifiModule (hereinafter referred to as the converter). WifiModule is intended for use with Xhouse and Xflat central heat recovery units (hereinafter referred to as units) with subsequent control via a web application (hereinafter referred to as the APP). At the same time, it takes precedence over the brief manual included directly in the WifiModule packing, so-called “Quick Guide”.



- **Installation and connection of the converter can only be carried out by a person with the knowledge of use of computer technology and web browsers. At the same time, this person possesses the skills necessary to handle the tools and instruments necessary for the installation. All the instructions and recommendations provided in these instructions must be observed during installation.**
- Detailed familiarisation with this document is important for the correct and safe installation and operation of the converter. Failure to comply with the conditions set out in this document may result in the converter and thus control via the APP not working.
- After reading them thoroughly, keep the instructions for future reference.
- It is forbidden to interfere in any way with the internal wiring of the converter other than as specified in these instructions. Due to the continuous development of our products, we reserve the right to change these instructions without prior notice.
- Children and persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, may only use the APP under supervision or if they were instructed on the use of the APP in a safe manner and understand the potential risks.
- Children must not play with the converter or the APP.

1.2. Warnings and Symbols

- The following names and symbols shall be used in the operating instructions, on the packaging, and on the product for particularly important information:



Warning, pay attention to all the risk alerts and warnings, as well as preventive measure instructions.



Danger, observe all the warnings; there is a risk of electric shock or a situation, which can result in death or serious injury, if not prevented.



Reference to a different section of the instruction.



The arrow shows places in the application that need to be clicked (e.g., by a finger or mouse)



Caution – Read Operating Instructions prior to use



Notification of the correct position when handling and storing the packaging.



Notification of the need for protection against moisture. The product – packaging marked with this symbol must not be transported on open vehicles and stored in roofless buildings and on the ground without a pad.



Notification of the content – product’s fragility and the need for careful handling of the packaged product.

FRAGILE
KEEP DRY

Notification of the need for protection against moisture and of the fragility of the product inside the packaging.

1.3. Using the WifiModule converter

1.3.1. The purpose of the converter and the WifiModule web application – basic information

- The converter and the APP is intended for controlling Xhouse and Xflat central heat recovery units via a web application on the web site www.wifimodule.eu
- Control is possible from any device with access to the internet that uses a web browser.
- Ideally, you should use a device equipped with a camera – easier pairing of the converter to the unit.
- The APP web application allows control of units:
 - o Manual – the same as on the control panel of the unit
 - o Timed – control using time schedules and individual operating profile
- The choice of APP language is automatically set according to your language settings in the device from which you will control the APP. If no language is specified for your geolocation, the application communicates in English language.
- The converter is designed for wall or free-standing installation.
- The converter is designed for continuous operation.
- The converter is intended for indoor covered and dry space with a room temperature of +5 °C to +30 °C and the maximum relative humidity of 70%, non-condensing.
- The maximum working altitude of the unit is 2,000 m above sea level.

1.3.2. Prohibited environment, use, installation of the WifiModule converter:



- **In an environment with an increased incidence or risk of explosion, flammable substances, and increased dust and/or air containing other harmful impurities,**
- **In an environment with higher incidence condensing humidity, such as: bathrooms, swimming pools, saunas, etc.,**
- Neither the manufacturer nor the supplier is responsible for damage caused by improper use of the converter (e.g.: with a unit other than permitted). The user bears the risk.

1.4. Transport, Delivery Control, and Storage

1.4.1. Transport

- During transport, keep the product in the position indicated by the symbol on the packaging.
- The packaging must not be loaded with a weight higher than that permitted by the manufacturer.
- The packaging must not be exposed to ambient effects.
- The transport air temperature must range between -25 to 55 °C.
- The transport relative humidity must range between 10 % and 90 % non-condensing.



- **Use adequate tools to prevent damage to the goods and damage to the health and safety of persons.**
- In the case of further transport without original packaging or with changed original packaging, it must be ensured that the equipment is optimally secured and protected against damage.

1.4.2. Delivery Inspection

- Before starting the installation and before unpacking the converter from the box, it is necessary to check for any signs of damage on the packaging. If the packaging is damaged, write a record of the damage and contact your carrier, please.
- Check if you have received the product actually ordered by you. After unpacking, check that the converter and other components are in order. Please, report any discrepancies with the order to the supplier immediately.

If an order complaint is not made immediately after delivery, it will not be considered later.

1.4.3. Storage

- If you do not plan on installing the converter immediately after purchase, it must be stored in an indoor, non-condensing environment at temperatures ranging from +5 to +40 °C. If the product is transported at temperatures below 0 °C, it must be put into the operating environment where it is going to be installed for at least 2 hours after unpacking.

1.5. Contents of the WifiModule Converter Packaging

- WifiModule converter 1x
- Wi-Fi Antenna 1x
- Converter power supply 230VAC/5VDC; 0,3A; 50/60Hz 1x
- Flat communication cable, length approx. 0.95m 1x
- Quick guide + safety data sheet 1x

1.6. Before Starting the Installation



- **If you are installing the converter freely into space (by laying it down), make sure the Wi-Fi signal will not interfere with other wireless signals present in the area.**



- **If you are installing the converter on an interior wall, check that there are no electrical or other lines (e.g., gas, water, etc.) at the point of installation that could be damaged during installation.**

- Make sure that the Wi-Fi signal will not be blocked by any obstacle that could disrupt connection of the converter to the modem with the internet connection (router)

2. Technical Parameters

2.1. Design of the WifiModule Converter



Fig. 1

2.1.1. Converter body (position 1.)

- The body of the converter is made of black full-colour ABS plastic.

2.1.2. Front panel of the converter (position 2)

- The front panel of the converter is made of black acrylic glass with engraved descriptions.

2.1.3. Wi-Fi antenna (position 3.)

- The Wi-Fi antenna provides wireless transmission of Wi-Fi signal to the distance of up to 50 m (in empty space)

2.1.4. CON – RS485 connector (position 4.)

- The RS485 connector (CON) is used with the flat communication cable (included in the packaging) to connect the communication between the converter and the heat recovery unit

2.1.5. +5V DC - converter power supply (position 5.)

- Connector for power supply of the converter from the power supply unit (included in the packaging)

2.1.6. RESET – reset button (position 6.)

- The reset button is used to reset the converter settings and subsequent pairing with the APP

2.1.7. STATUS – green LED indicator (position 7.)

- The LED indicator shows the status of communication between the unit, the converter, and the Wi-Fi network, or it indicates an error

2.1.8. WIFI – blue LED indicator (position 8.)

- The LED indicator shows the status of connection to the Wi-Fi network, or it indicates an error

2.1.9. Rear part of the converter body (position 9.)

- The rear part is made of black ABS plastic, it is used to install the box on the wall.

2.2. Main Dimensions of the WifiModule Converter

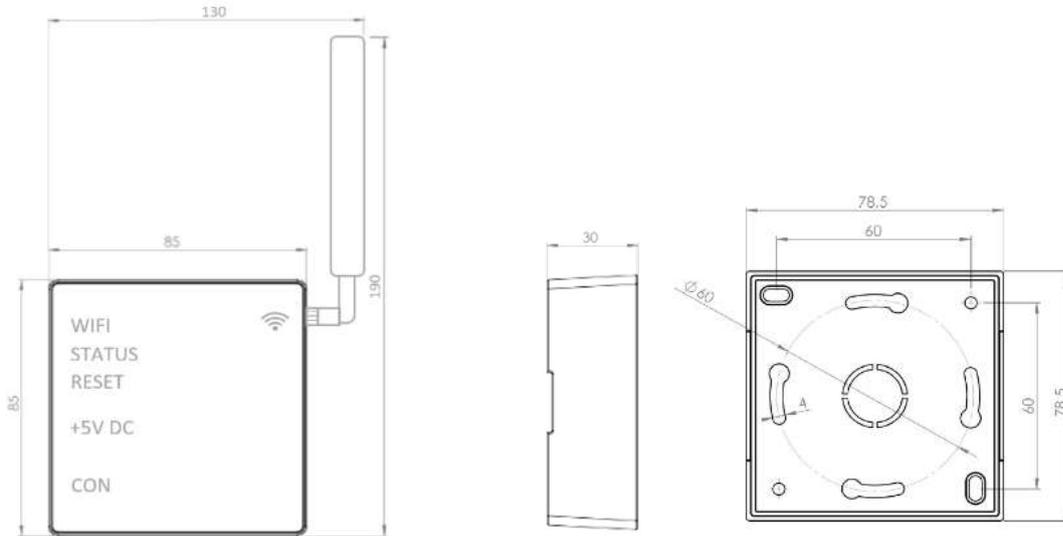


Fig. 2

2.3. Technical Parameters of the WifiModule Converter

2.3.1. Basic Technical Parameters

Tab. 1

Power supply	Input	230V / 0,3A / 50/60Hz
	Output	5VDC / 0,55A
Transmission frequency		2.4 GHz (the device conforms to standards IEEE802.11/b/g/n)
Output	Serial interface	RS485 (modbus RTU communication protocol)

EC Declaration of Conformity – the current, full version of the EC Declaration of Conformity can be found on our website www.xvent.cz in the “Documents to Download” section for the WifiModule product

3. Unit Installation

3.1. General information, recommendations, and safety when installing the WifiModule converter

3.1.1. Electrical safety before installation of the converter



- Make sure that the electrical connection point (outlet) meets the unit power supply requirements (voltage, current, etc.) specified on the nameplate of the unit.

3.1.2. Unpacking the converter with its accessories

- Unpack the converter and the accessories included from all the packaging.
- Sort all of the packaging based on the materials used



Fig. 3

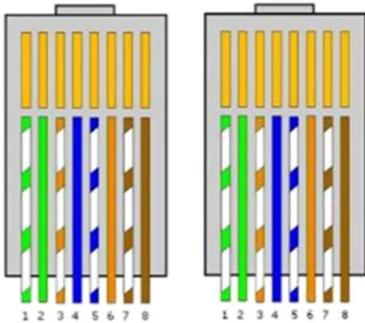


Please, return all the not needed packaging to the appropriate recycling points where they will be disposed of professionally. Only packaging recycled in this way can be reused properly and returned to utility.



3.1.3. Placement of the Converter

- You can place – install the converter either on a wall, or free-standing in the vicinity of the unit
- The converter can be connected to the unit using the flat communication cable (hereinafter referred to as the communication cable) with the length of approx. 0.95 m (included in the packaging). Therefore, the converter can be placed at the distance of 0.95 m from the unit.
- If necessary, the length of the communication cable can be up to 20 m (not included in the delivery or accessories)



- Fit the communication cable with connectors – RJ45 8/8 connectors
- The RJ connectors on the UTP cable must be wired as a direct connection (both connectors are wired the same way)



Make sure the connection is correct – the cable positions are observed and the cables are correctly inserted into the connectors.

Fig. 4



- **When choosing the place to install the converter, consider the layout of the building with regards to the range of your Wi-Fi network between the converter and your Wi-Fi router.**
- **The controller must be installed in a place that provides sufficient and safe access for control, maintenance, and servicing.**
- The converter is intended for installation in indoor covered and dry space with a room temperature of +5°C to +30 °C and the maximum relative humidity of 70%, non-condensing.

3.1.4. Minimum Installation Distances

- The installation of the controller must be carried out so that the minimum clearance distance of 100 mm from any construction structures and flammable substance, or the distance based on local regulations, is maintained.

3.1.5. Installing the WifiModule Converter on a Wall

- Screw the Wi-Fi antenna included in the packaging on the converter



Fig. 5



Fig. 6

- Open the converter box
- Measure or drill holes for mounting the back of the controller to the box with 3 x 13 mm self-tapping hex head screws (not included) into the prepared holes in the box.

Fig. 7



PRESS AND DRAG

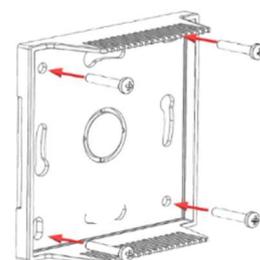


Fig. 8



Keep the front part of the converter with the antenna separated for subsequent setting – pairing of the converter to the unit, see Chapter 4.4.

3.1.6. Installing the WifiModule Converter “freely” in open spaces

- The converter can also be placed freely on a solid surface; however, you have to ensure it is set in a stable manner and allows access for control and servicing

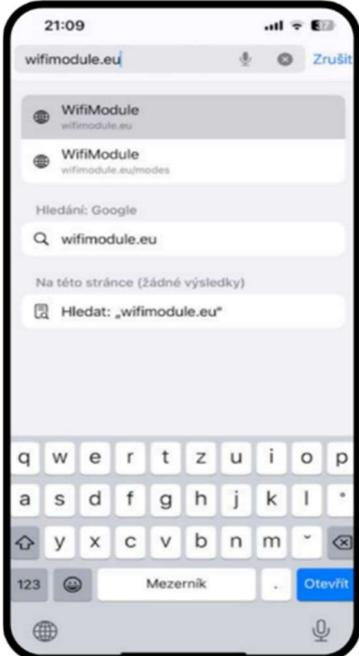
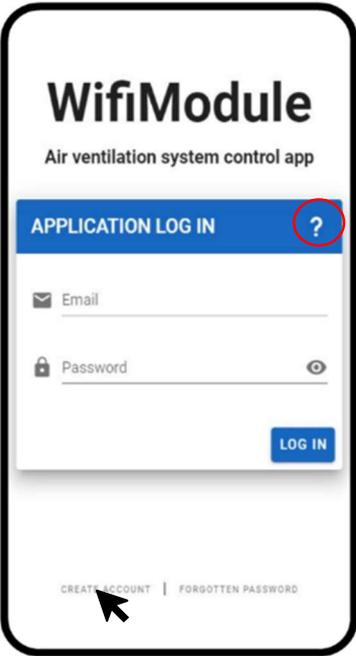
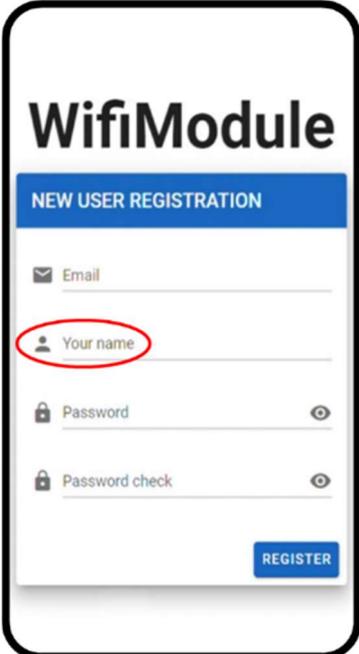
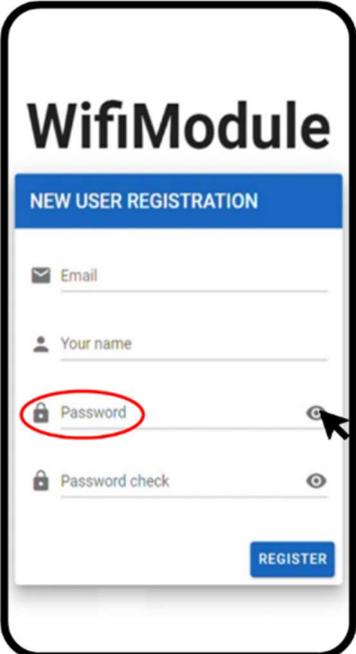


- **For successful connection and control of units via the APP, carry out the following steps in the order they are listed**

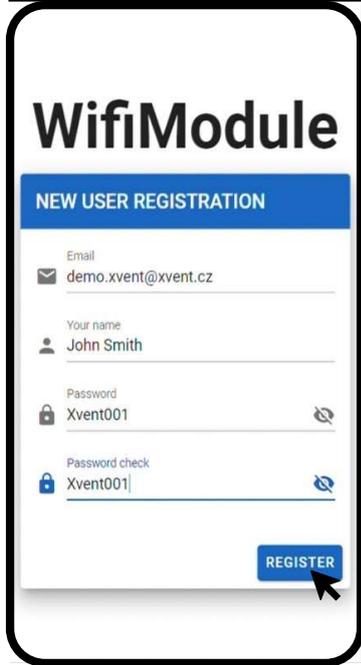
4. Connecting the WifiModule converter to a heat recovery unit – Xflat, Xhouse

- Connect to the recovery unit using the web application on the website www.wifimodule.eu
- If possible, carry out the connection using a device equipped with a camera – a smartphone, tablet, notebook, etc.

4.1. Creating an Account in the Web APP

<p>1</p> <p>Enter the web address www.wifimodule.eu in a web browser</p>	<p>2</p> <p>Create a new account</p> <p>Alternatively, you can watch a guide video in the help section </p>	<p>3</p> <p>Enter your registration e-mail address. Select an address you use often – the unit will send notifications</p>
		
<p>4</p> <p>Enter your name</p>	<p>5</p> <p>Enter the password you will use to log into the application. Click here to view the password </p>	<p>6</p> <p>Enter your password again. Click here to view the password </p>
		

7 Confirm registration 



8 After successful registration, you will be sent an e-mail to the registration e-mail address.

The confirmation message was sent to your email address. Please complete your registration by clicking on link in the email. If you can not find the message please check SPAM folder as well. You can close this page now.

4.2. Confirming the Registration E-mail

- After successful registration, you will be sent an e-mail to the registration e-mail address in the following

Email address verification

 Od odesílatele **WifiModule** komu demo.xvent@xvent.cz

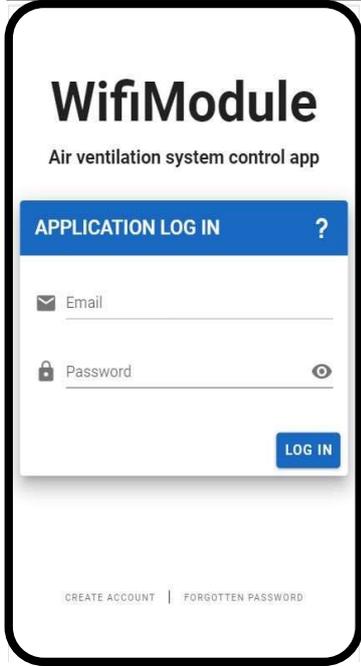
To finish registration on wifimodule.eu please confirm your email address by clicking on following link:
<https://wifimodule.eu/verification?email=demo.xvent%40xvent.cz&code=FVC3krngtkekbEFk> 

Do not click on the link and please ignore this email in case you did not make any registration on wifimodule.eu

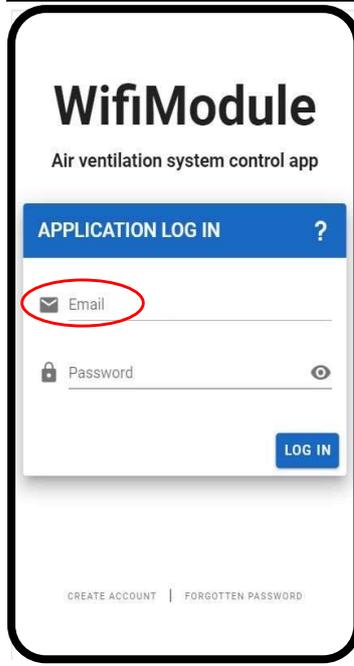
- Confirm the link in the e-mail 

4.3. Logging into the Application

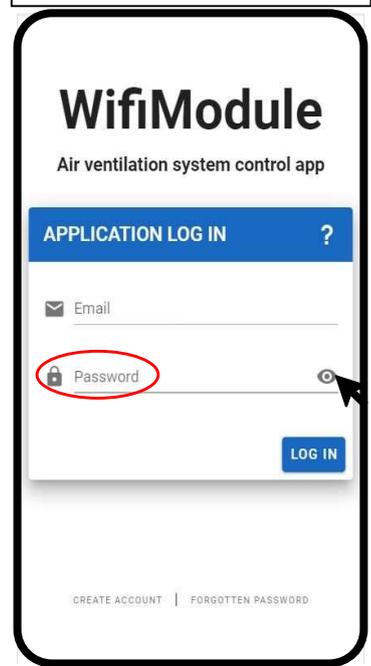
1 Log out and log in at www.wifimodule.eu again



2 Enter the registered e-mail



3 Enter the password
Click here to view the password 



4 Confirm 



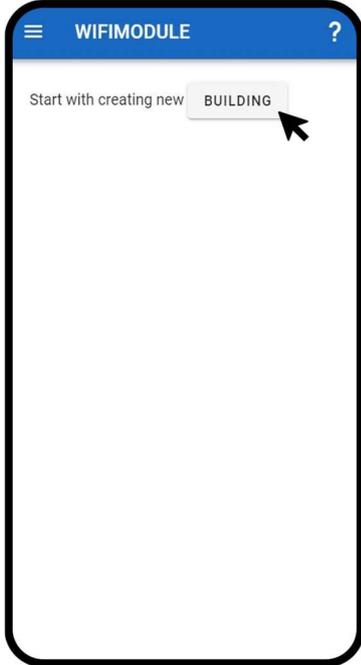
5 You have successfully logged into the application



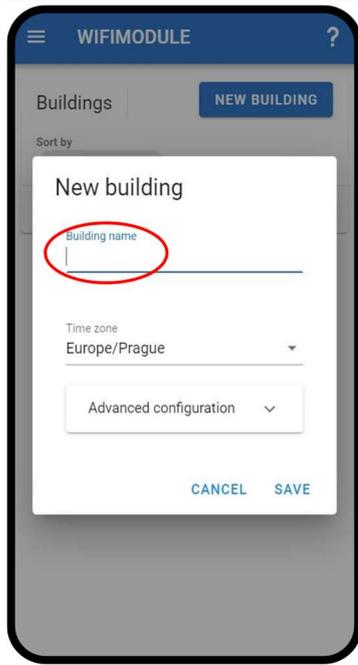
4.4. Initial application settings

4.4.1. Creating a Building

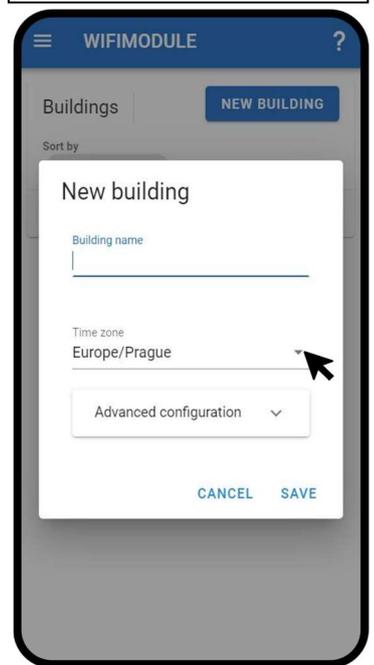
1 Create – name the building (room, flat) to be serviced by the unit



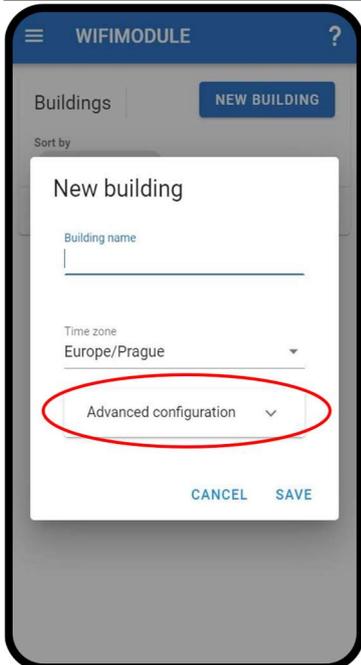
2 Name the building (flat) to be serviced by the unit



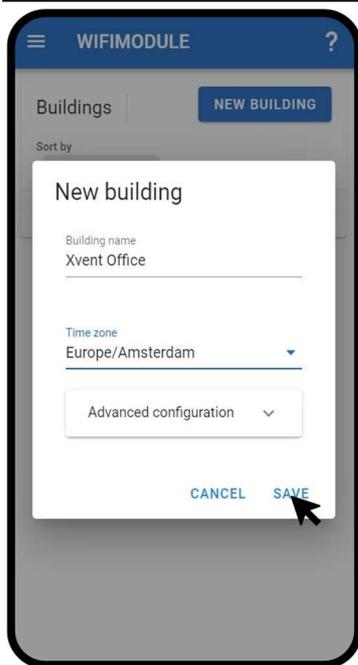
3 Select your closest time zone



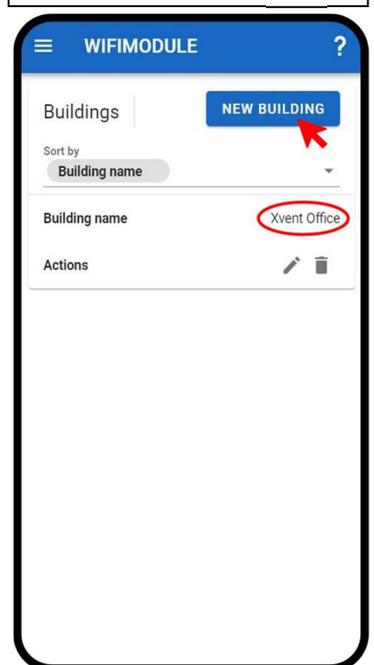
4 !!!Advanced settings – only use them if you know what you are doing!!!



5 Save the settings
You can go back to the building settings at any time.

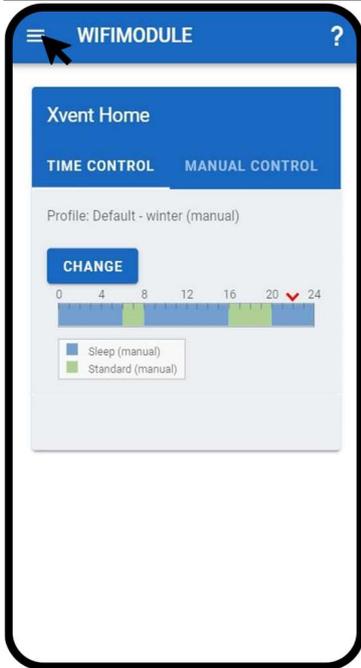


6 The building has been created and named successfully
You can create another building if necessary

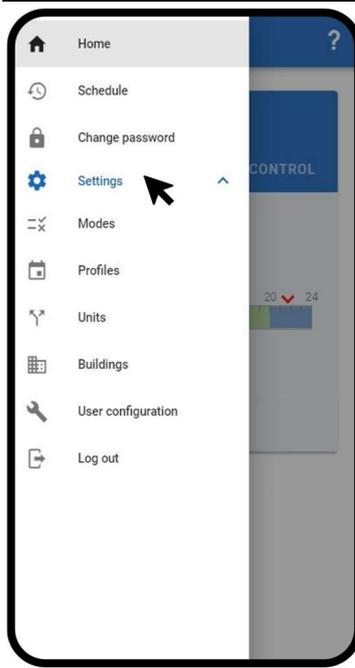


4.4.2. Adding a Unit

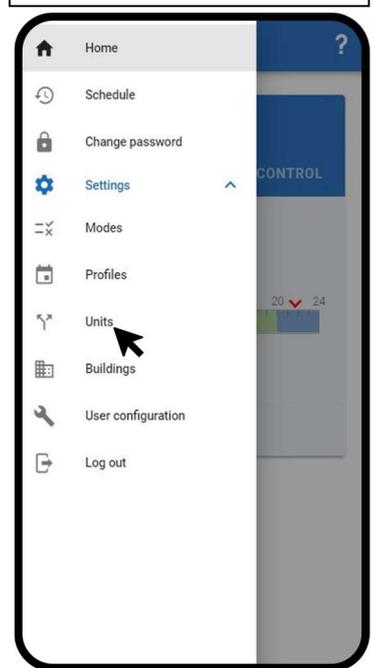
7 Menu



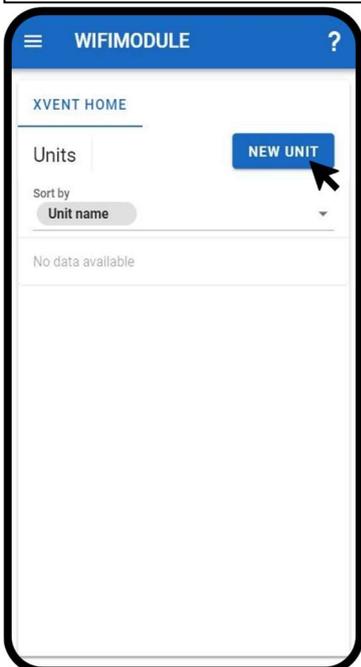
8 Settings



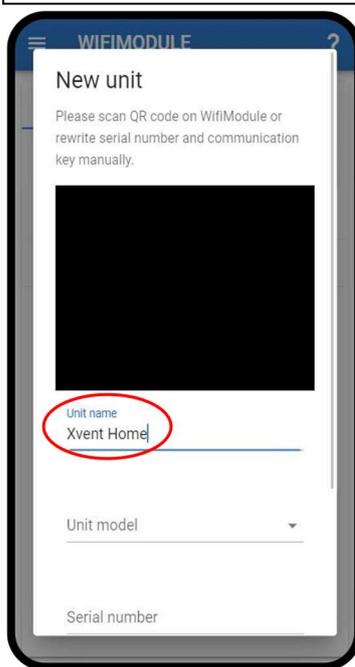
9 Units



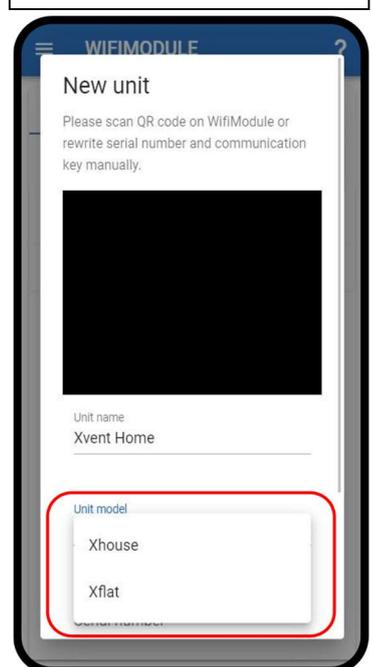
10 New unit



11 Enable the device to access the camera
Name the unit

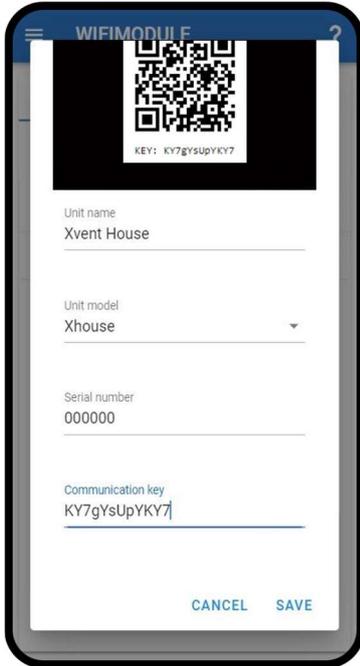


12 Select the type of unit



13

Using the camera, scan the QR code on the side of the converter with your device



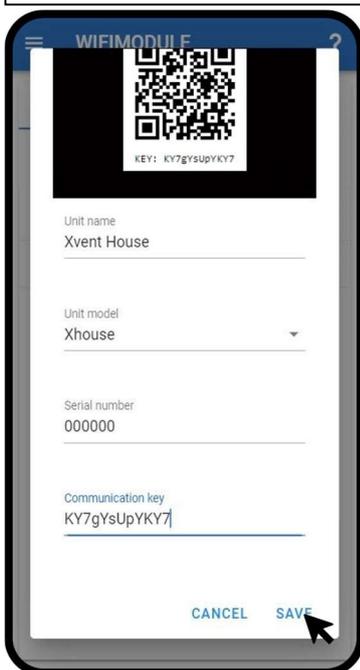
- The following will be automatically loaded in your application:
 - o Serial number – SN
 - o Key – KEY



In case the QR code cannot be read by the camera successfully, or if your device is not equipped with a camera, enter the data into the application manually:
Serial number – SN
Communication key – KEY

14

Save the settings 



15

Place the converter in the installation position it will be operated in, e.g., by mounting on the rear side of the converter mounted on the wall

4.5. Connecting the WifiModule Converter to the Unit

- If the Wi-Fi antenna isn't attached – screw it on

1 If the Wi-Fi antenna isn't attached – screw it on



2 Connect the unit regulator (controller – connector labelled BMS-RS485) to the converter (CON) using the flat communication cable included in the



3 Connect the converter power supply connector into the converter (+5V DC) and the adapter to the electrical mains (230V)



4.6. Pairing the WifiModule Converter with the Unit



- The following procedure assumes the points from the previous chapters were met. In case you have skipped any of them, you must complete them, otherwise you cannot continue with the procedure.

1 The WIFI and STATUS indicators in the converter will start flashing
The converter is ready for pairing



- In case the converter indicators signal anything else – press and hold the RESET button for approx. 5 seconds. This will initiate the pairing mode

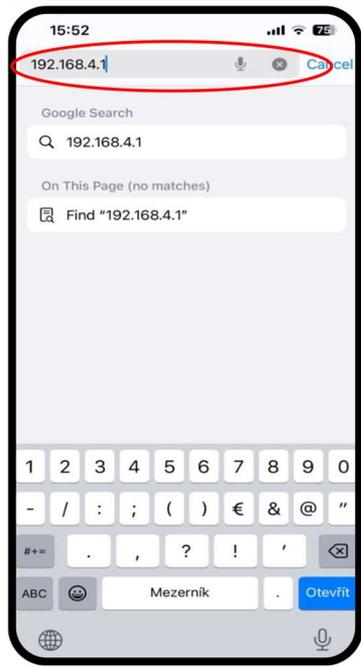
2 Use your device to find a Wi-Fi network with the name that matches the serial number of you WifiModule – SN: 000000



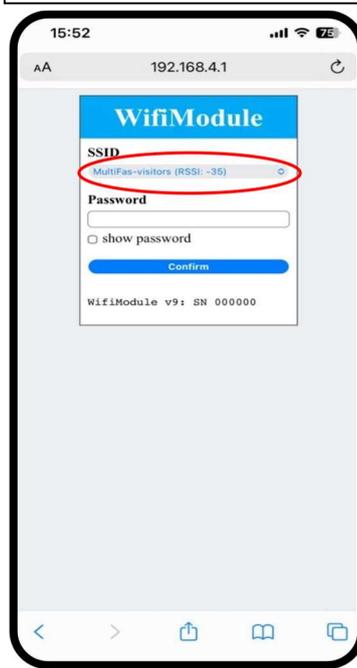
3 Connect to this Wi-Fi network – the network has no connection and internet



4 Enter address 192.168.4.1 in your web browser
Open



5 Find your Wi-Fi network the unit is to be connected to



6 Enter the password of the network the unit is to be connected to
Click here to view the password



7 Confirm the setting



8 Close the web site used to set up the Wi-Fi network



9 The green indicator – Status on the WifiModule will remain continuously lit up



- The pairing process is now finished and you can control the heat recovery unit via the WifiModule web application



In case the pairing is unsuccessful, repeat the process – Chapter 4.6.

Fig. 9

4.6.1. Checking the Correct Settings – Pairing of the Converter to the Unit



- Open the web site www.wifimodule.eu
- Log in to the account you created
- The home screen – main screen shows:
 - The connected unit with the currently selected operating profile
 - Operating status of the connected unit

For the description of the controls and setting options of the application see the help section in the application

Tip 

To enable faster access to the unit controls, it is recommended to create a shortcut on the desktop of the device you use to control the unit.

Fig. 10

5. Controls of the WifiModule Web Application

5.1. Description of the Home Screen Elements

<p>1 The application menu – MENU</p>	<p>2 The help section with a link to the video manual</p>	<p>3 The name of the building – room where the unit is located</p>
<p>4 Timed control of the unit – the selected time profile, current mode.</p> <p> Chapter 5.1.1.</p>	<p>5 Manual mode of the unit – functionality identical to the panel of the unit with the option of run time for the selected function</p>	<p>6 Display of the actual status of the unit</p>

5.1.1. Timed Control of the Unit

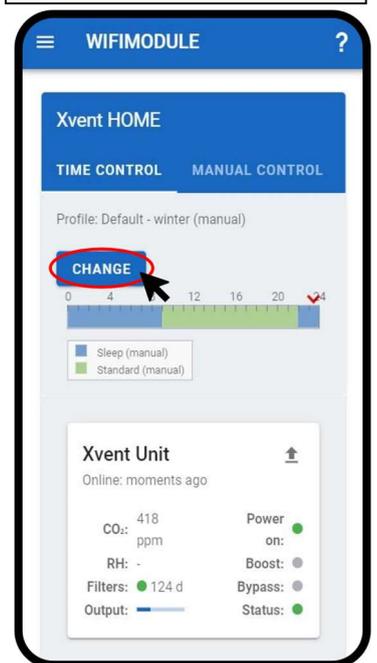
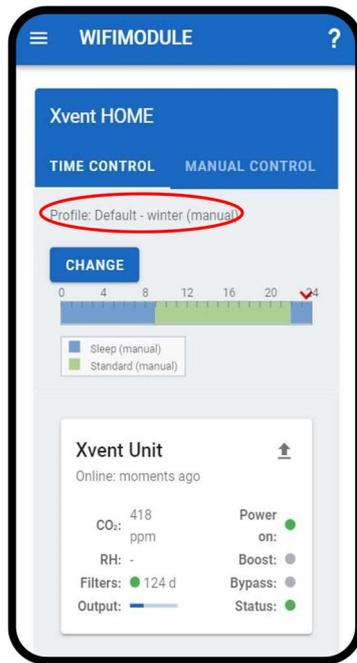
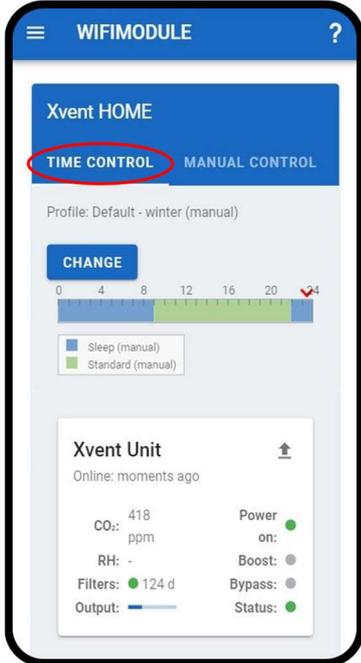


Setting individual time profiles – schedules in the separate Chapter 5.2.2.

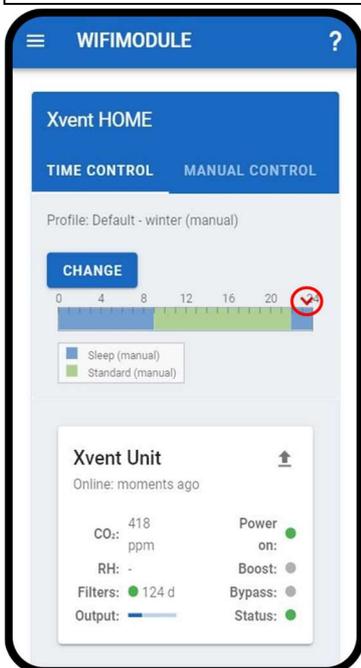


- All APP logics are subordinate to the unit control logic, e.g.: antifreeze logic, BOOST mode running time, night cooling-bypass, etc.

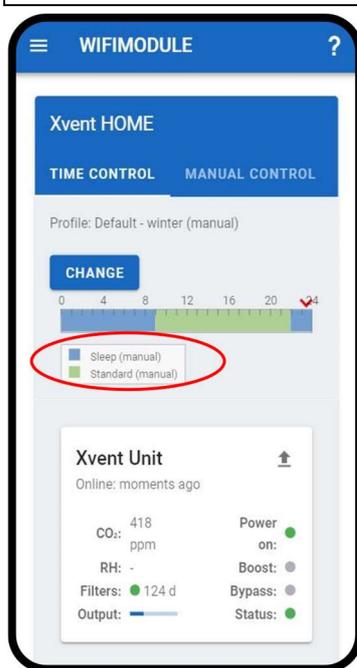
- 1** Timed control – the highlighted text
- 2** Name of the selected time profile
- 3** Changing the time profiles from the pre-set time schedules Chapter 5.2.2.1.



- 4** Time axis with the current time designated



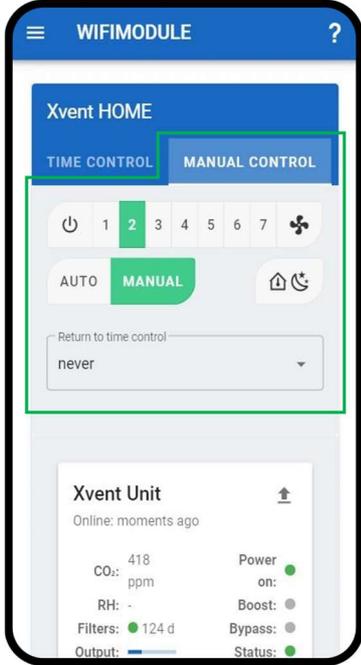
- 5** Display of individual modes in the selected time profile. Highlighted time more – currently active.



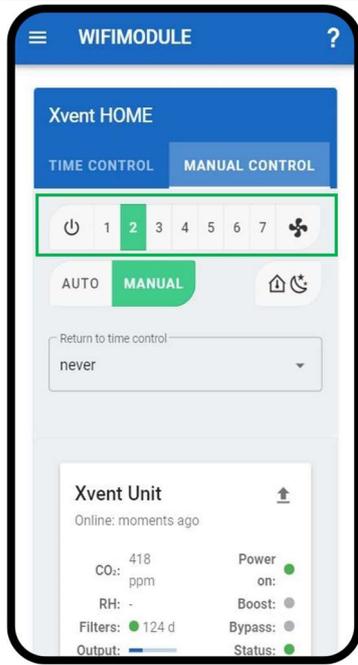
5.1.2. Manual Control of the Unit

- Manual control in the APP is similar to controlling the unit from the controller panel of the unit.

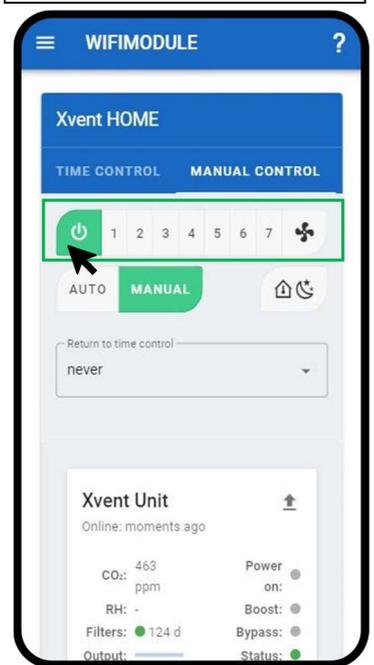
1 Manual control of the unit
- the highlighted text



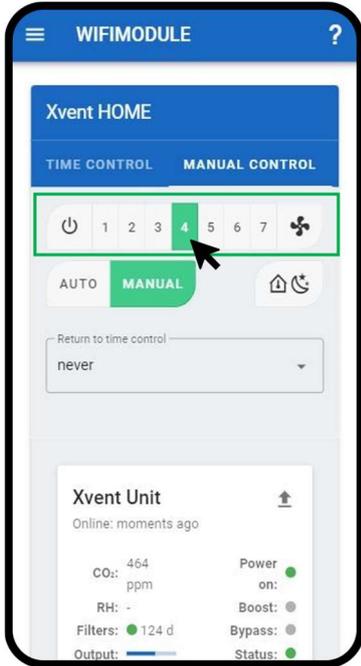
2 Unit speed settings



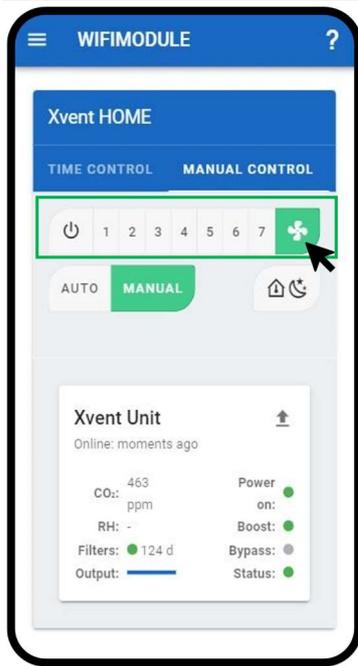
3 Unit speed settings
- unit ON/OFF



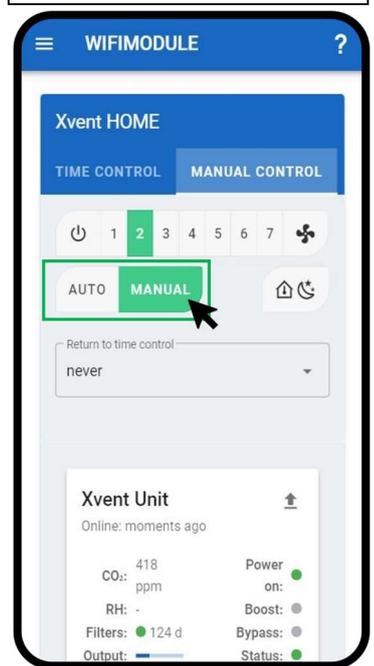
4 Unit speed settings
Output level 1 to 7



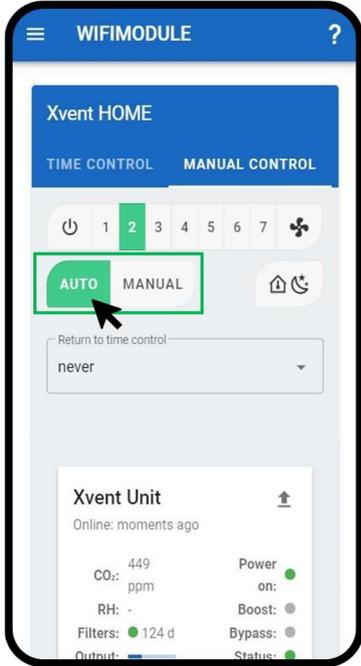
5 Unit speed settings
Intensive ventilation - BOOST



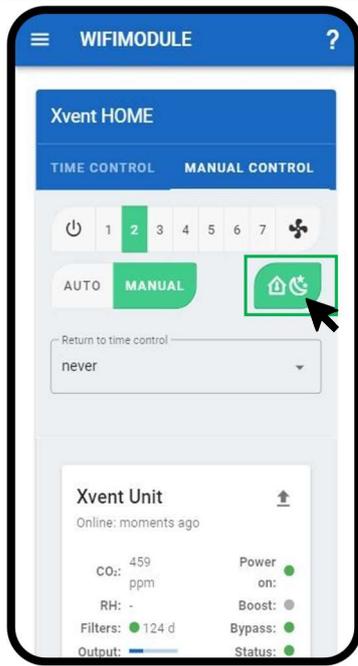
6 Operation settings
Manual



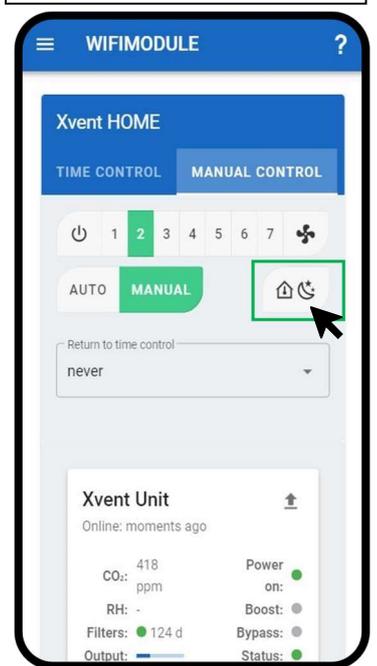
7 Operation settings
Automatic – control based on AQS sensors (if they are connected to the unit)



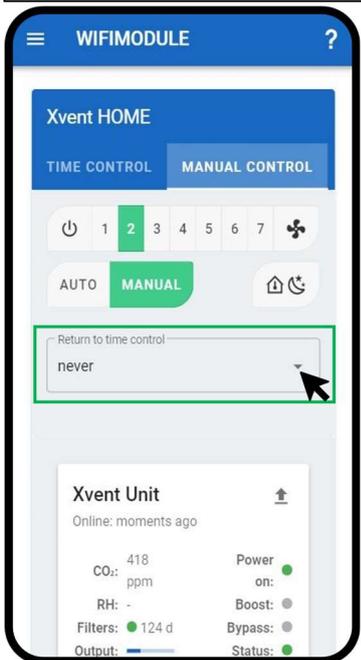
8 Night ventilation switch-on
Automatic night ventilation switch-off depending on the unit settings after approx. 8



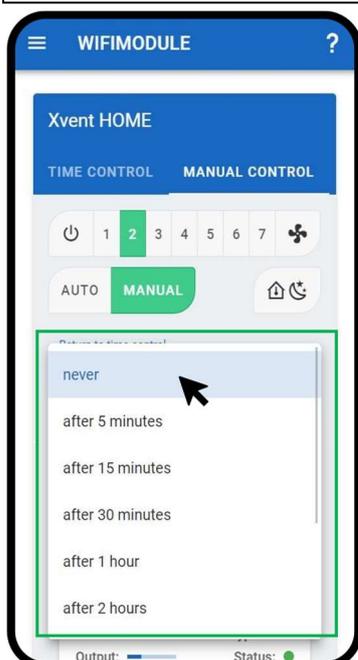
Night ventilation switch-off



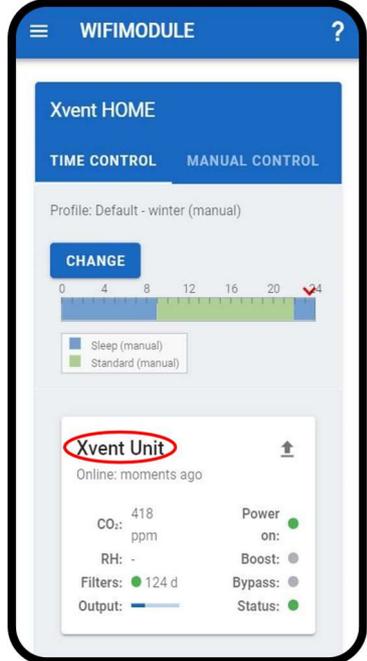
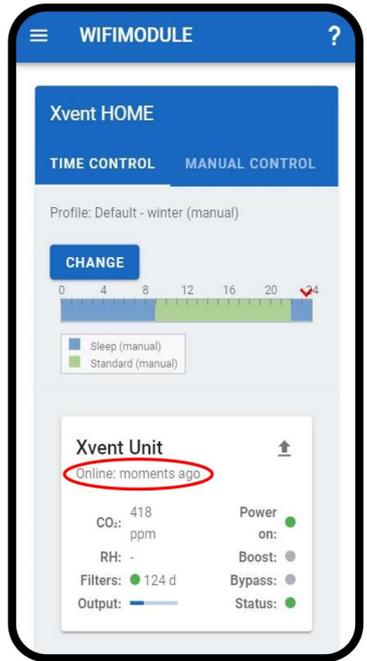
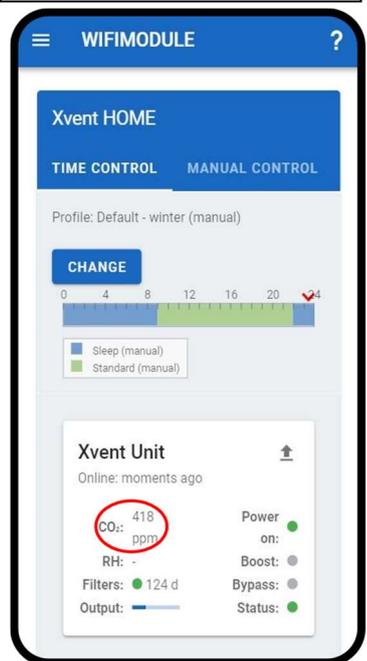
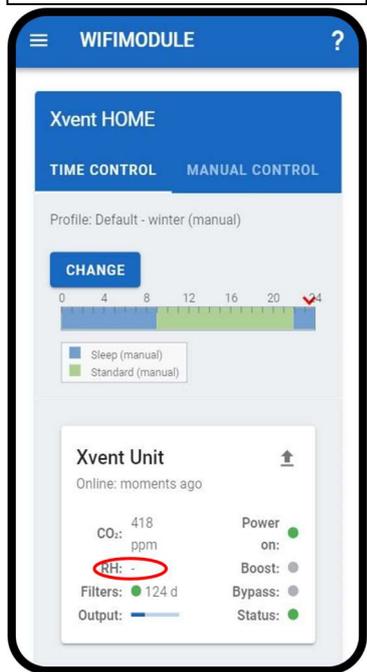
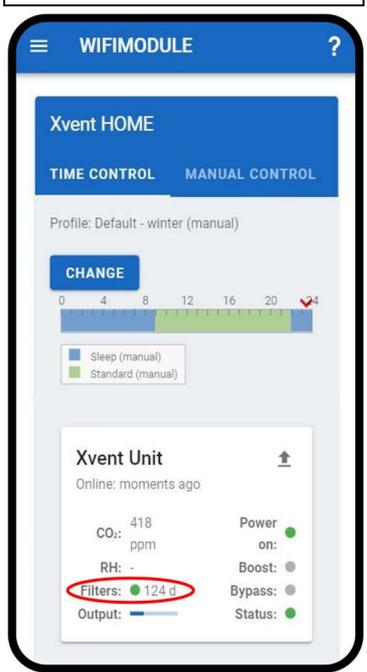
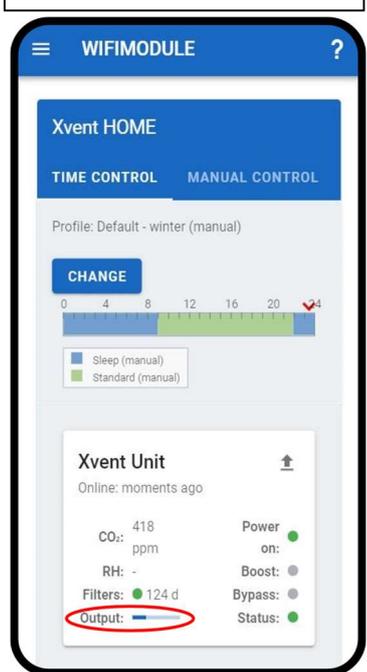
9 Setting of the switch-off time of the manual mode



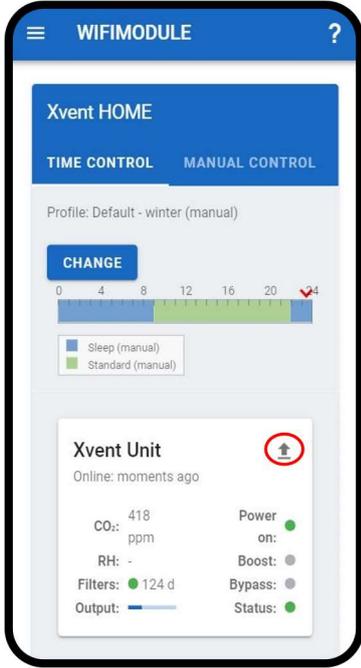
Setting of the switch-off time of the manual mode:
Never
After minutes/hours
After days/weeks



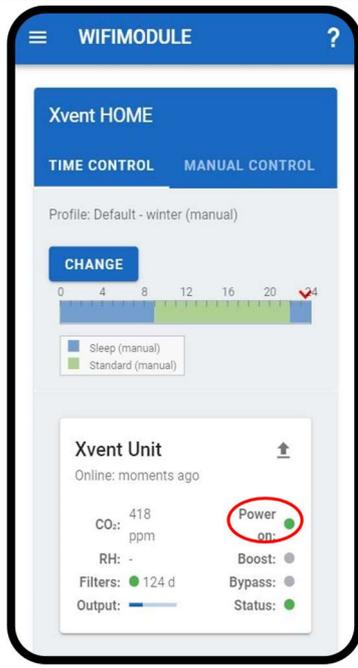
5.1.3. Display of the actual status of the unit

<p>1</p>	<p>Unit name</p>	<p>2</p>	<p>Connection Status – Online</p>	<p>3</p>	<p>CO₂ concentration – in case the sensor is connected</p>
					
<p>4</p>	<p>Relative humidity RH – in case the sensor is connected</p>	<p>5</p>	<p>Time remaining until a filter change When the time elapses, you will be sent a notification to your e-mail</p>	<p>6</p>	<p>Unit output level</p>
					

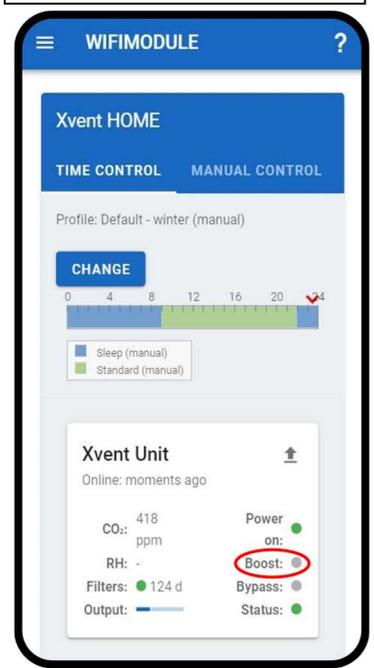
7 Display status update



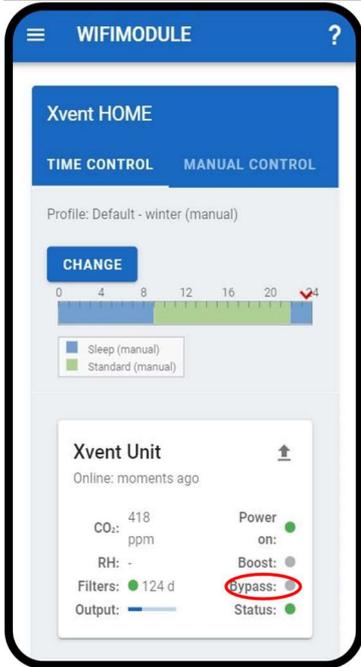
8 Unit status ON/OFF



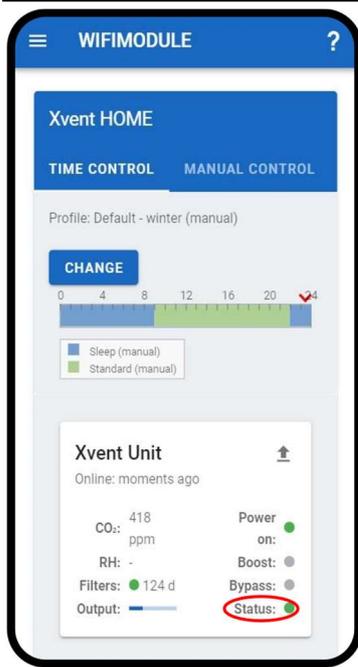
9 Boost – intensive ventilation – ON/OFF



10 Bypass – night ventilation – ON/OFF



11 Unit status – error states
 Description of error states in Chapter 7.1.



5.2. Description of the Application Menus

5.2.1. Home

- Return to the home screen

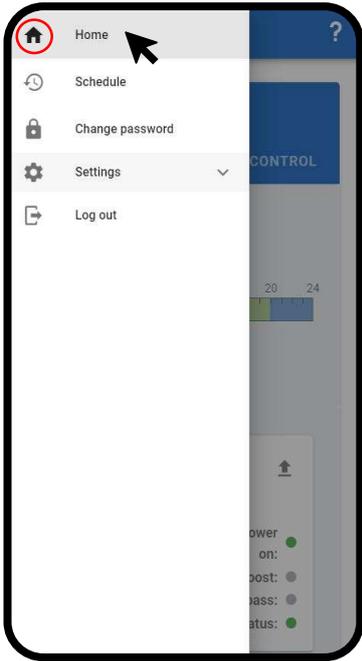


Fig. 11

5.2.2. Schedules for timed control

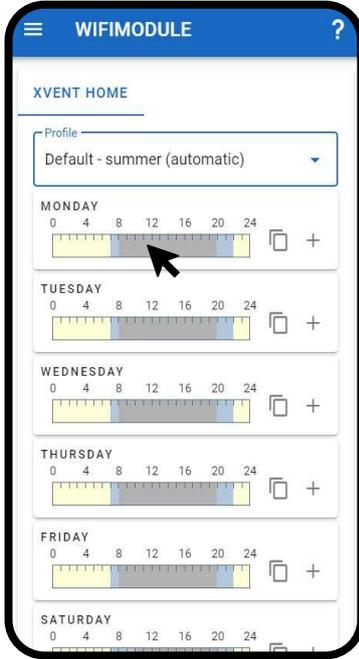
- The schedule menu contains week profiles pre-set by the manufacturer that you can freely customise to suit your needs

1 Open the schedule menu

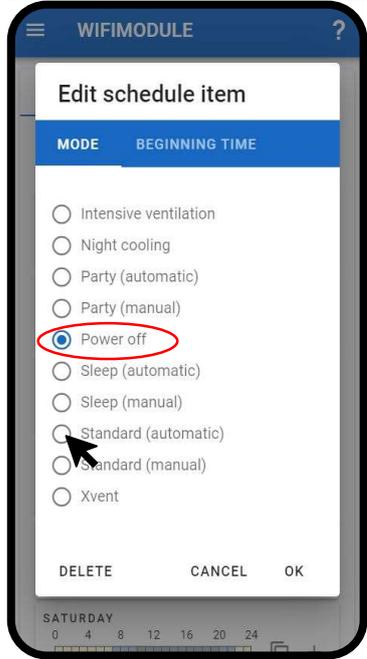
2 Click on the window with individual profile

3 Select any convenient pre-set profile of your own choice

4 Click on the day and time period you want to change



5 The currently selected mode will be displayed. Then select the new mode you want to use. You can also delete it.



6 The option to set the hours to start the new mode will be displayed.



7 To set a new time – hours, click and hold the time indicator and it to the required time – hour.



8 Then the option to set minutes is displayed.



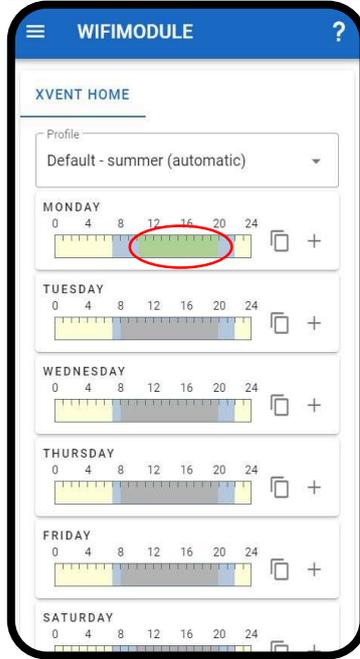
9 To set minutes, click and hold the time indicator and it to the required number of minutes.



10 Confirm the setting
 In case the time is set incorrectly, you can repeat this procedure at any time



11 You will be returned to profile you have edited with the change already applied



12 If you want to use the day profile you have edited for other days – copy it according to Chapter 5.3., points 22 to 25

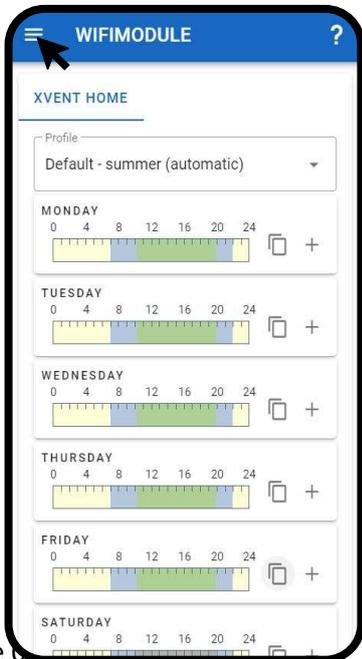
13 If you want to add another mode into the selected profile (and not just change the existing mode), proceed according to Chapter 5.3., points 12 to 18



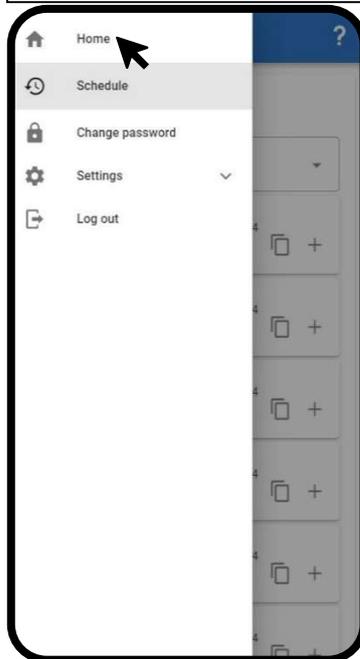
- The maximum number of modes that can be included in one week profile is 150. If you exceed the maximum number of modes, a warning will be displayed and correct functionality of the APP time profiles cannot be guaranteed.

5.2.2.1. Changing the Active Profile – Schedule

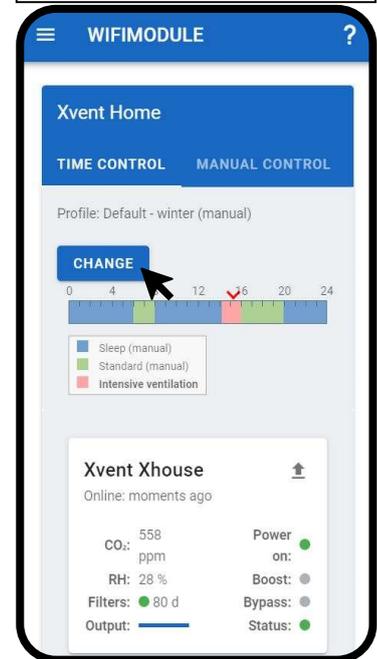
14 After setting the entire profile, go back to the menu
 Click the menu icon



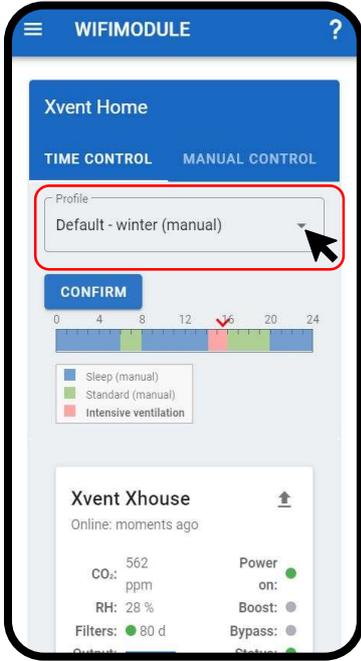
15 Click the home icon
 You will be taken back to the home screen



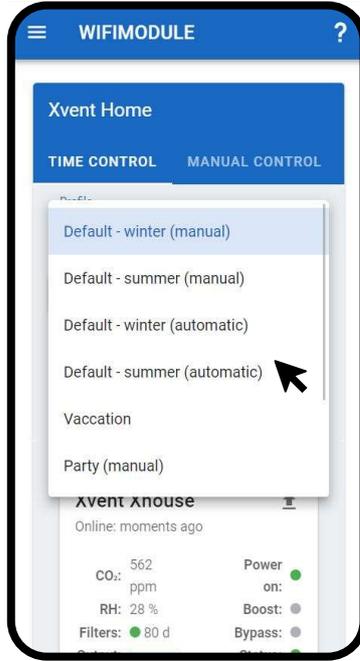
16 Click the change button on the home screen



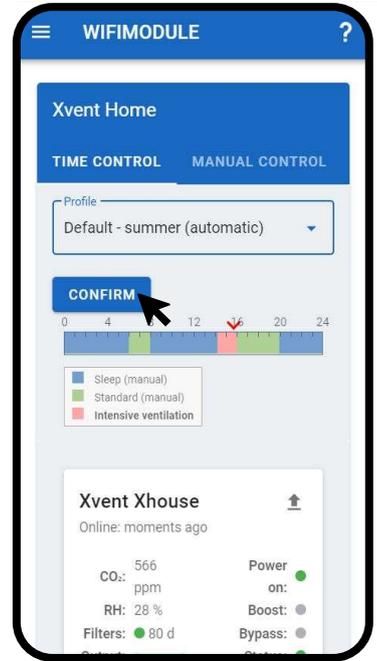
17 The option to selected a different time profile will be displayed
Open the menu of set profile



18 The complete list of saved profile will we displayed.
Select the desired profile



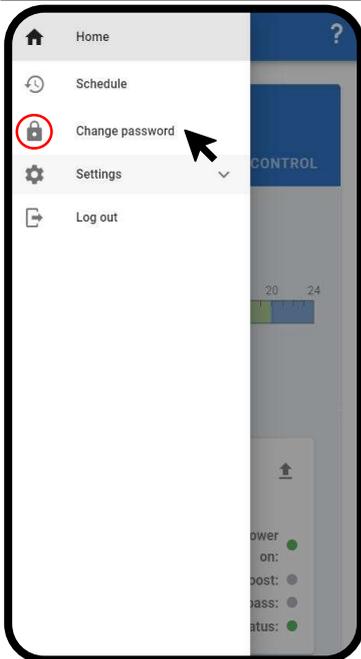
19 After selecting the desired profile, confirm the setting.
This finishes the profile change



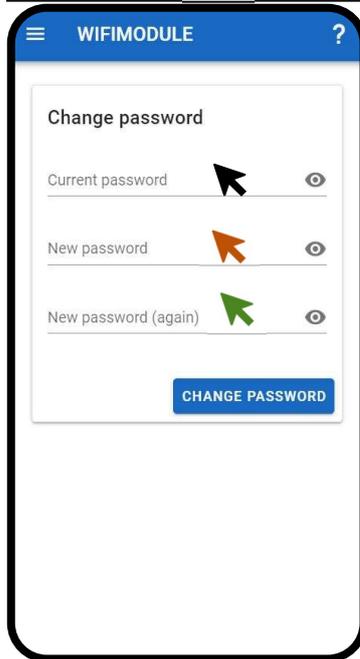
5.2.3. Changing the Login Password

- You can change the APP login password at any time

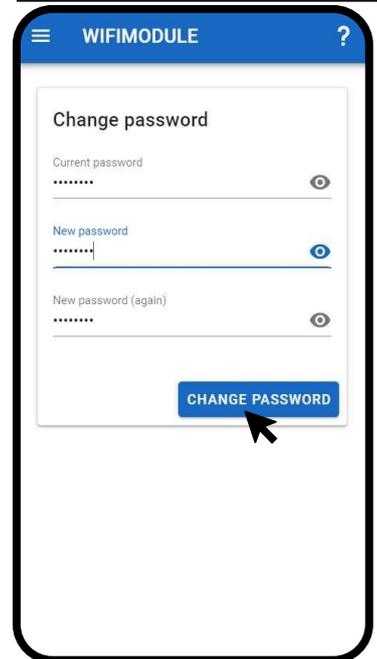
1 Open the password change menu



2 Enter the current password
New password
Repeat the new password
Click the icon to display the password



3 Save the changes

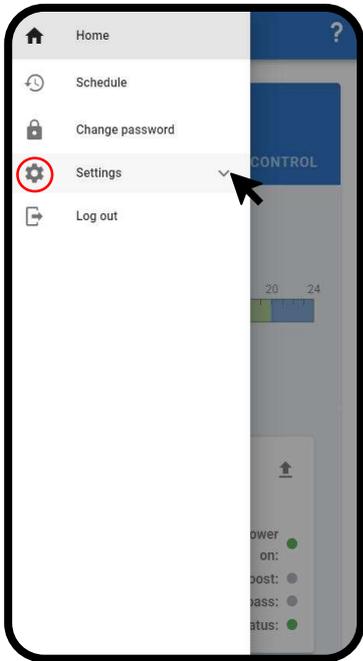


5.2.4. Settings

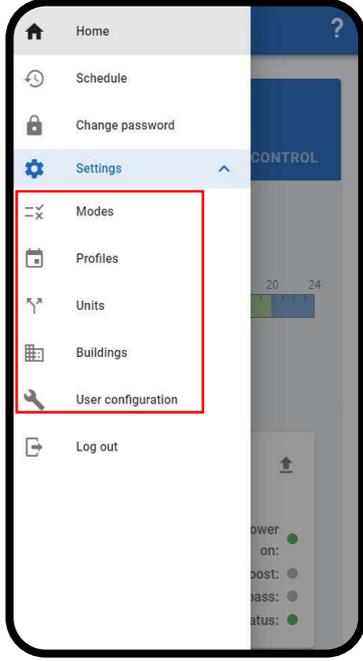


- Before opening the “settings menu”, read the following chapter carefully. Incorrect – wrong settings can affect the user comfort provided by the unit.

1 Open the settings menu



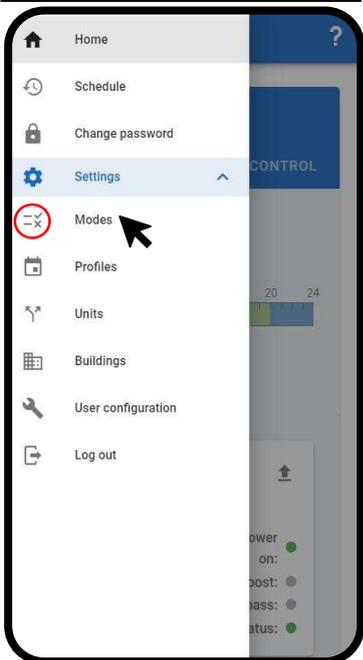
2 The contents of the menu will be displayed



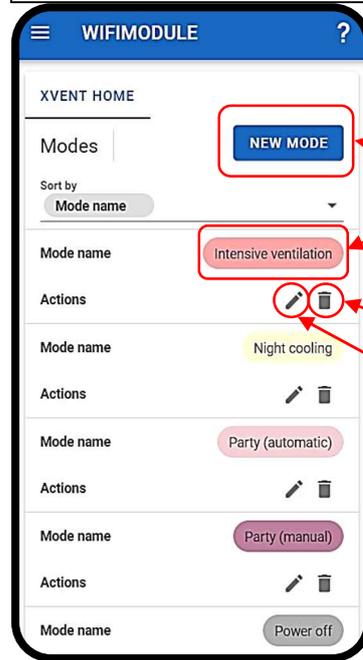
5.2.4.1. Modes

- Modes allow individual parameters to be set – like on the unit control panel, e.g.: the air output, switching the night cooling – bypass on/off, automatic/manual mode

1 Open the Modes submenu



2 Displays the pre-set factory Modes, including the option to create a custom mode (new mode) according to your requirements.



- create a new mode

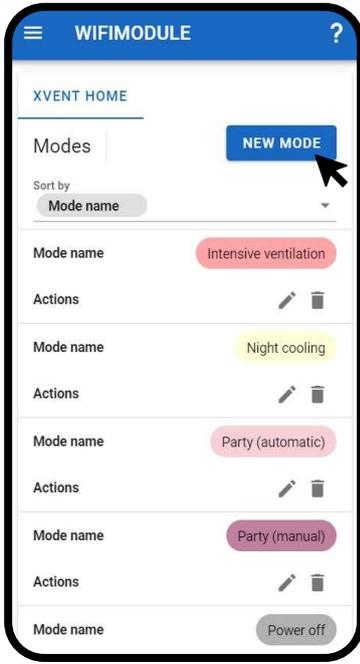
- mode name

- delete a mode

- edit a mode

- **Creating a New Mode**

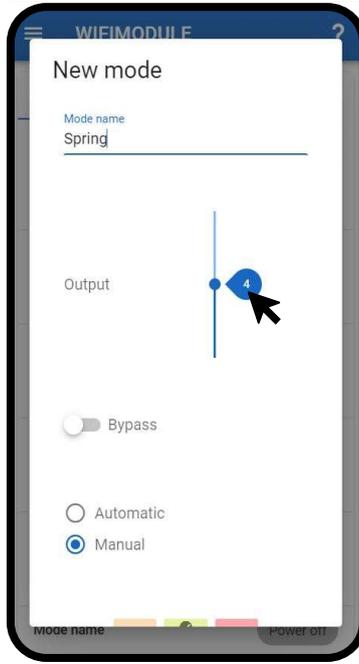
1 Click the "new mode" button



2 The settings of the new mode will be displayed. Enter the name of the mode

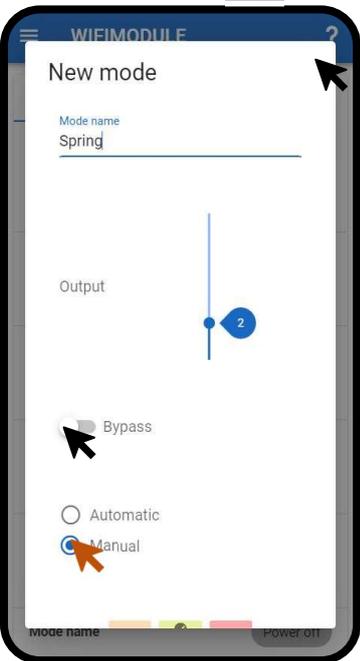


3 Set the required level of air output. Click on the output scale and move it.

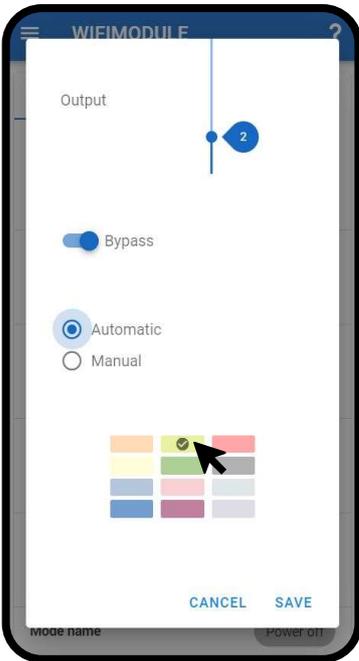


4 Select bypass – night cooling on/off

Select the manual/automatic (if the AQS sensors are connected) operating mode of the unit

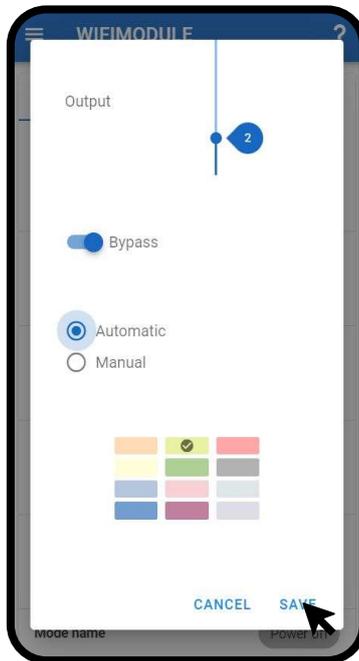


5 Select the colour that will represent the mode in the depiction of the time profile – schedule



6 If you are content with the settings of the values in the mode. Save the settings.

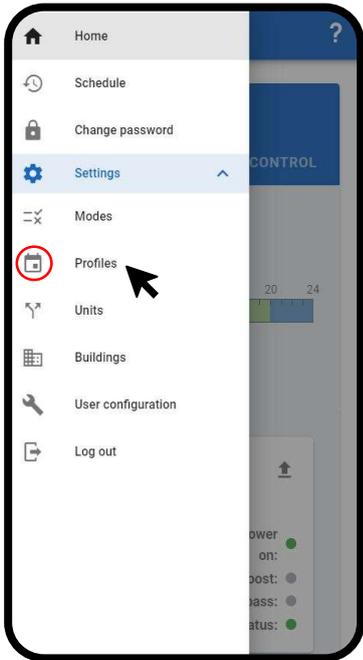
The new mode will be displayed in the default list of all modes



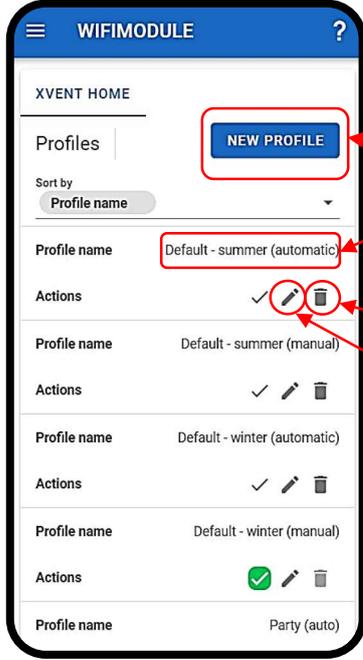
5.2.4.2. Profiles

- The “Profiles” menu allows factory profiles to be renamed and deleted or new profiles – week schedules – schedule to be created

1 Open the “Profiles” submenu



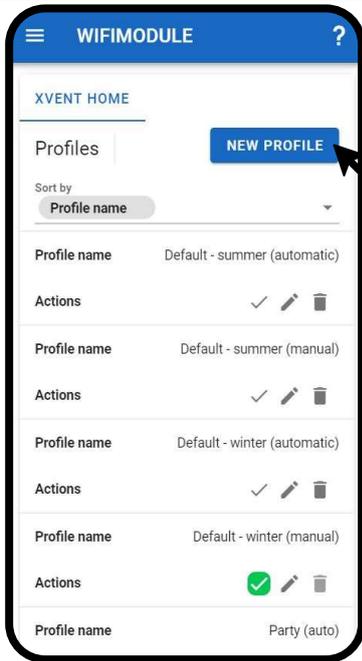
2 Displays the pre-set factory Profiles, including the option to create a custom profile (new profile) according to your



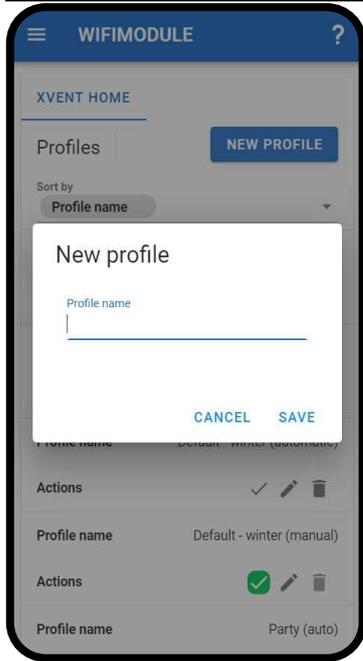
- create a new profile
- profile name
- delete a profile
- rename a profile

- Changing the Login Password

3 Click the “new profile” button

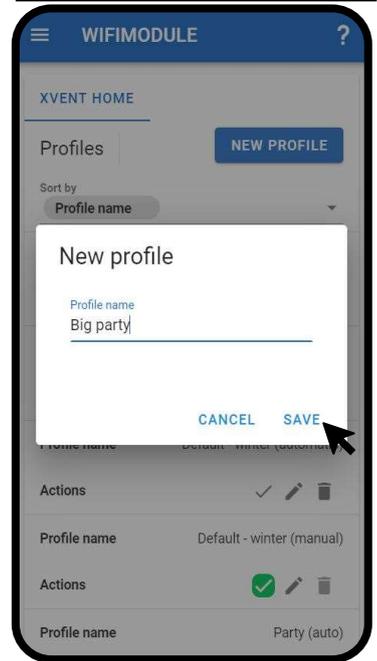


4 Enter the name of the new profile



5 Save the settings

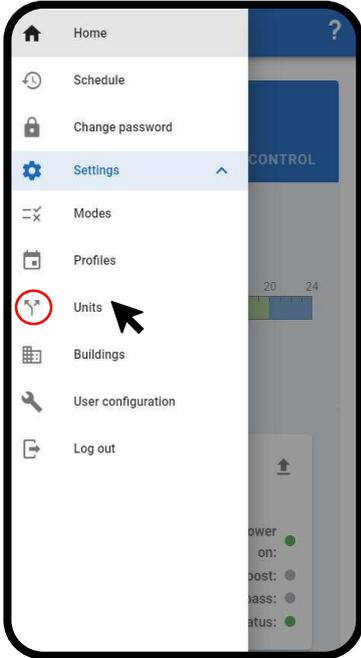
The new profile will be displayed in the default list of all profiles



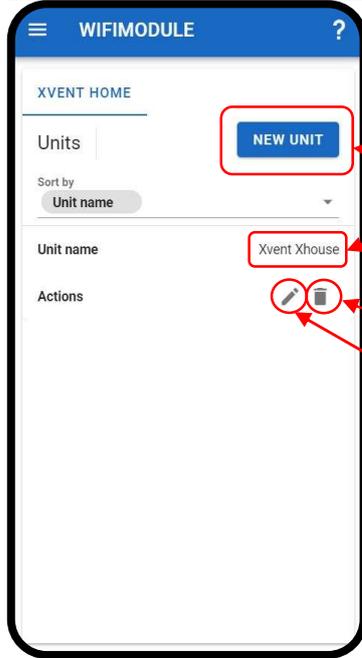
5.2.4.3. Units

- The “Units” submenu is used to pair new or additional heat recovery units with the WifiModule converter

1 Open the “Units” submenu



2 The list of units already paired will be displayed along with the option to add – pair additional units.



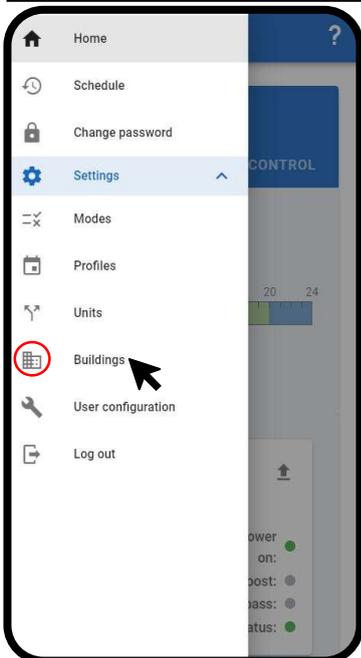
- add a new – additional unit
- name of a paired unit
- delete a unit
- rename a unit

To add an additional unit, proceed according to Chapter 4.4.2.

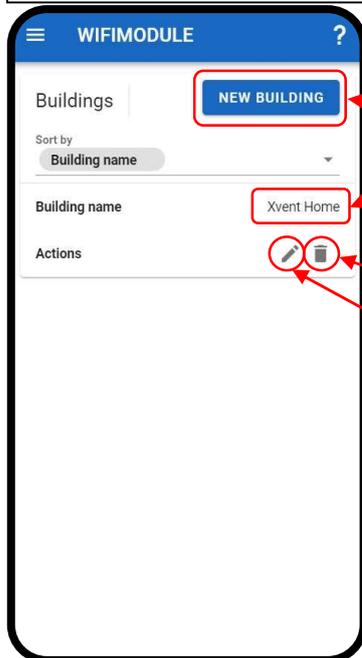
5.2.4.4. Buildings

- The “Buildings” submenu is used to assign a building, flat to the unit that services it.

1 Open the “Buildings” submenu



2 The list of Buildings (flats) already created will be displayed with the option to add new buildings (flats).



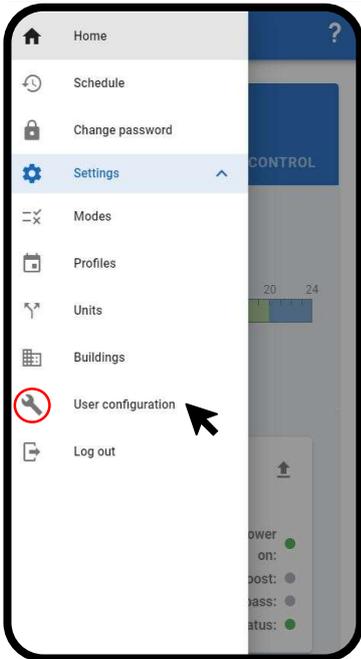
- You can add another unit:
- into an existing building
 - into a newly created building
- add a new – additional unit
 - name of the building, flat
 - delete a building
 - rename a building

To add an additional unit, proceed according to Chapter 4.4.1.

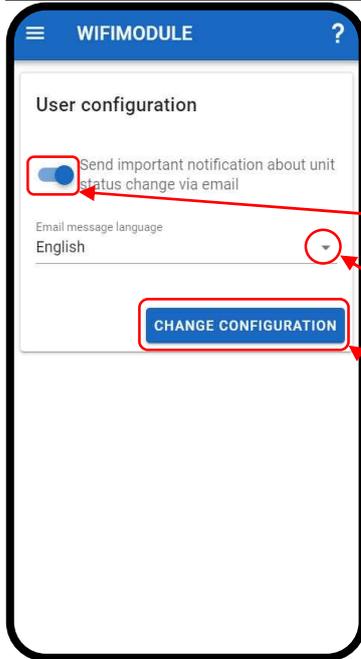
5.2.4.5. User Settings

- The “User Settings” submenu is used to set the sending of notification messages about the unit status and to set the notification message language

1 Open the “User Settings” submenu



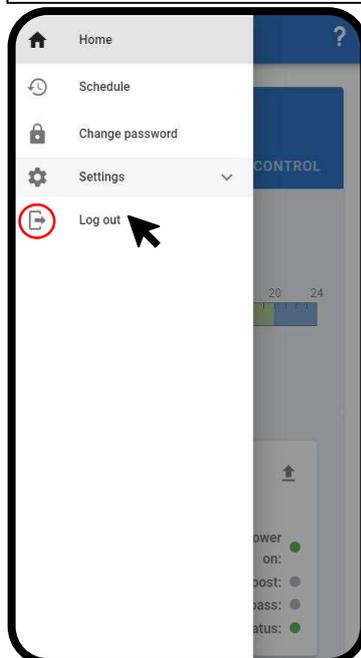
2 The “User Settings” submenu settings will be displayed



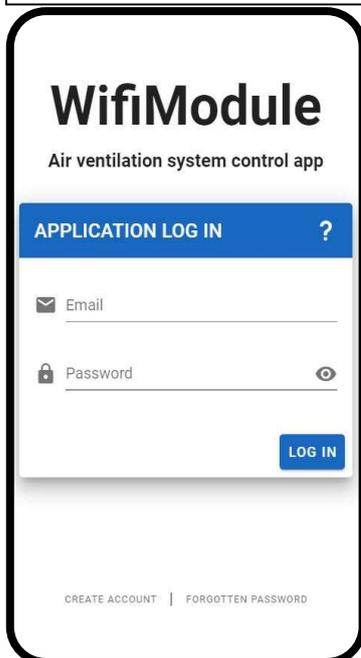
- The factory setting of the application is set to automatically send notification messages about the status of the unit.
- Language of notification messages sets automatically according to the language set on your device, from which unit using APP you are in control
- option to send/not send notification messages
- change the language of the notification messages
- save changes

5.2.5. Sign out

1 Click “Log out”

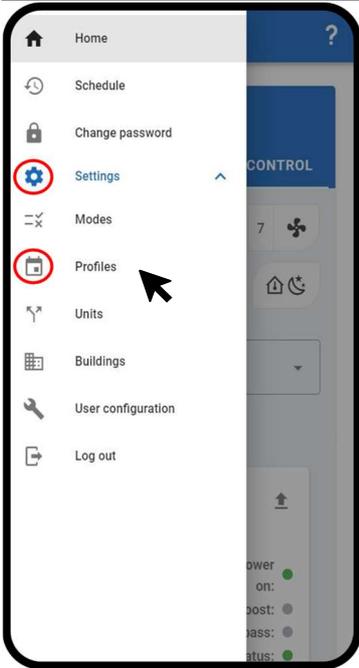


2 This will log you out of the application

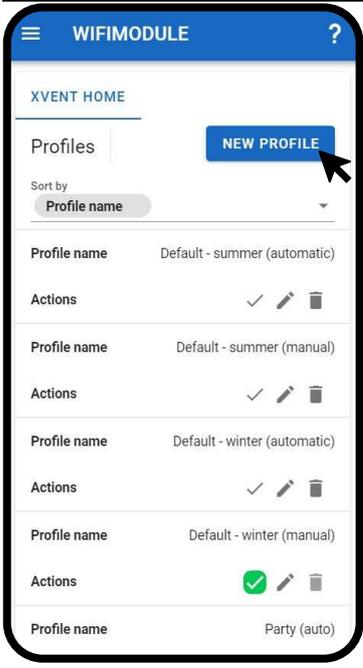


5.3. Creating a custom – new time profile

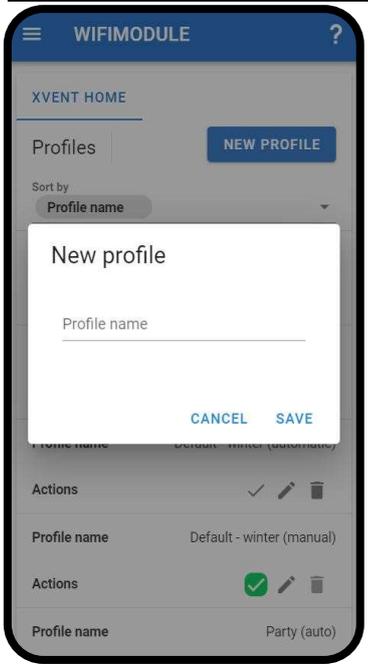
1 Open the “Settings” menu
Then “Profiles” →



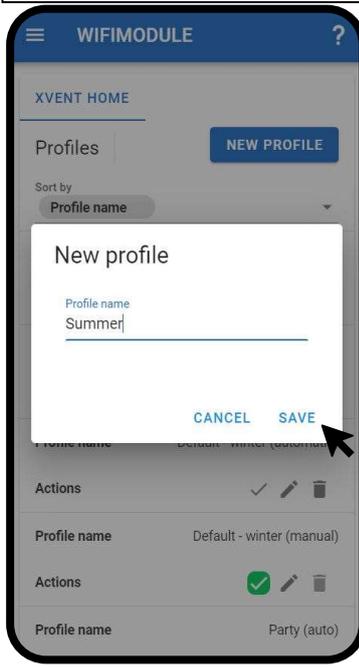
2 The list of all pre-set profiles will be displayed with the active profile highlighted.
Click the “new profile” button →



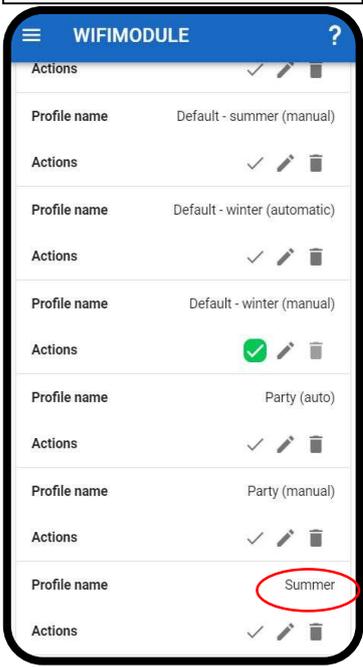
3 Name the new profile



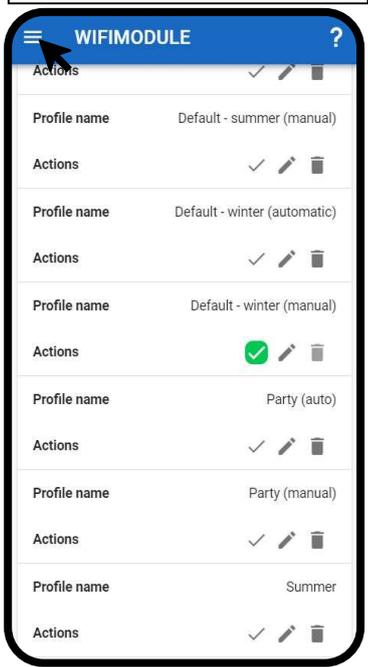
4 Save →



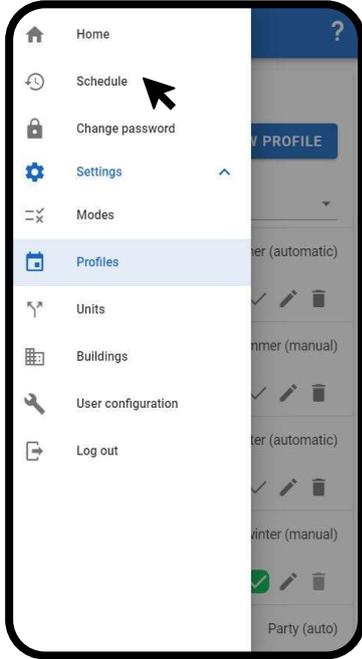
5 Your new profile has appeared in the profile list.
You can rename or delete any profile at any time. →



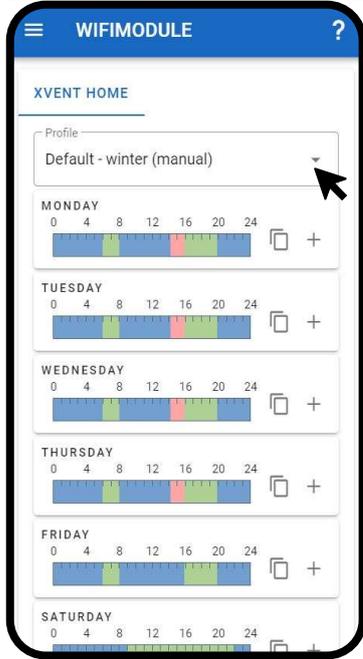
6 Go back to the Menu – click →



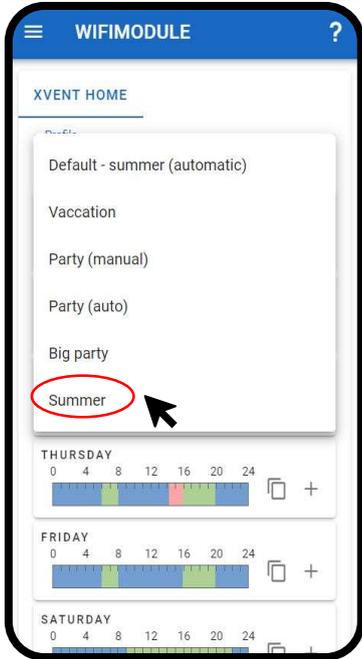
7 Select Schedule in the Menu



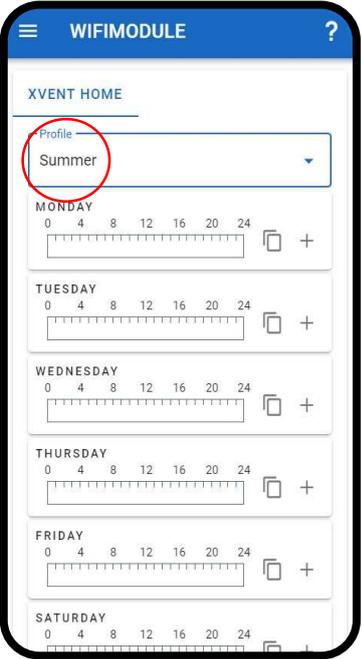
8 Open the profile menu



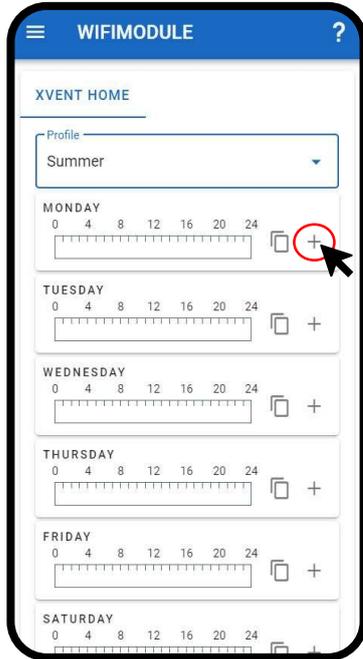
9 Select the profile you created from the profile menu



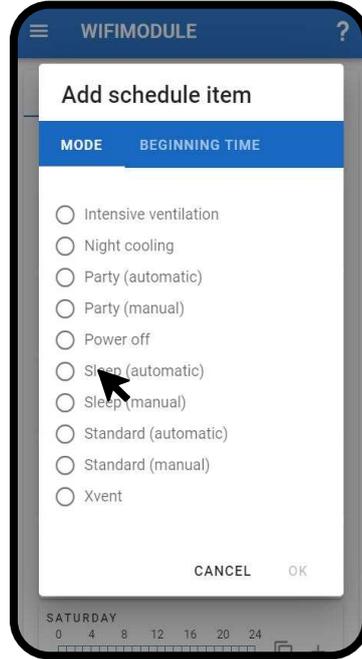
10 The empty profile your created will be displayed. There are no modes selected in the time intervals



11 Click the + icon of any day you want to set

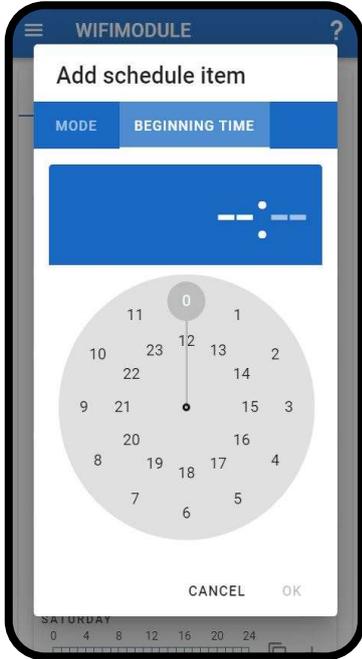


12 The list of all modes will be displayed. Select the desired mode



13

The option to set the hours to start the mode will be displayed



14

To set the time – hours, click and hold the time indicator and it to the required time – hour



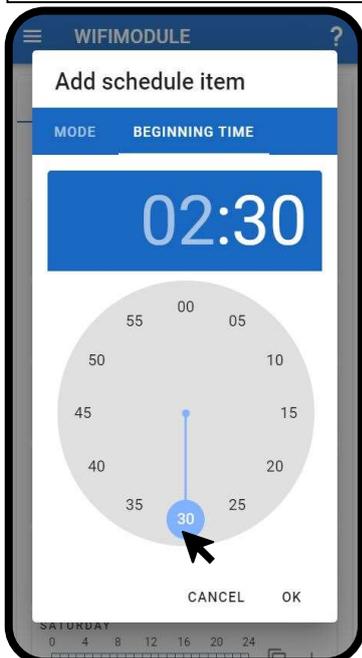
15

Then the option to set minutes is displayed.



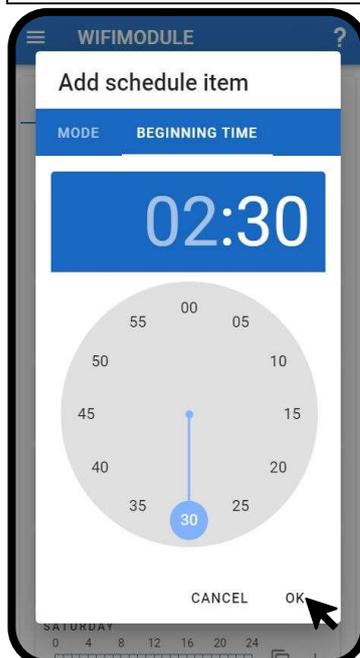
16

To set minutes, click and hold the time indicator and it to the required number of minutes



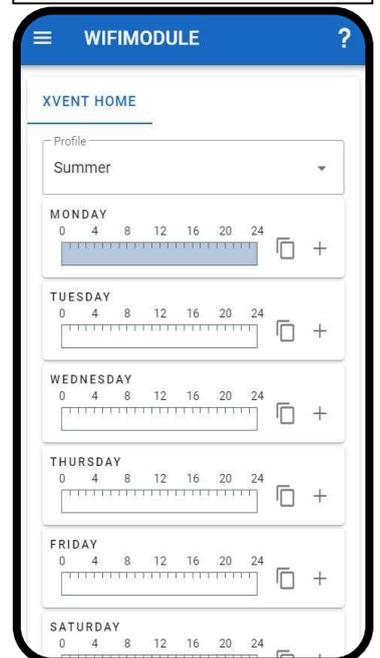
17

Confirm the setting



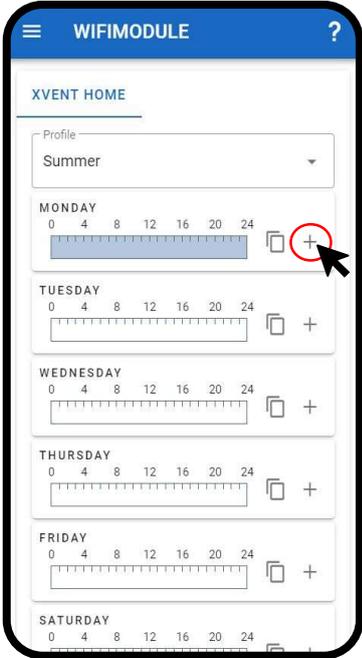
18

The mode is set in your time profile.

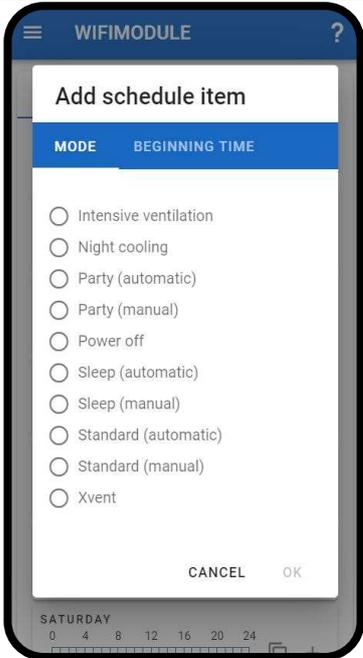


- When the mode is first set in a new profile, the mode is always displayed for the whole day (the mode has the same beginning and end)

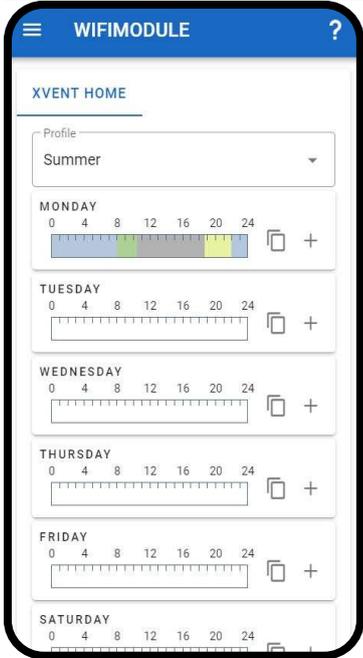
19 To set another mode for the day you are setting up, click the + icon again



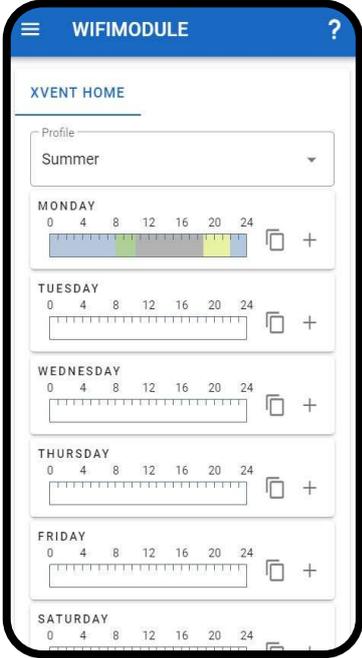
20 Use the procedure from points 12. to 18. in this chapter to set up additional modes.



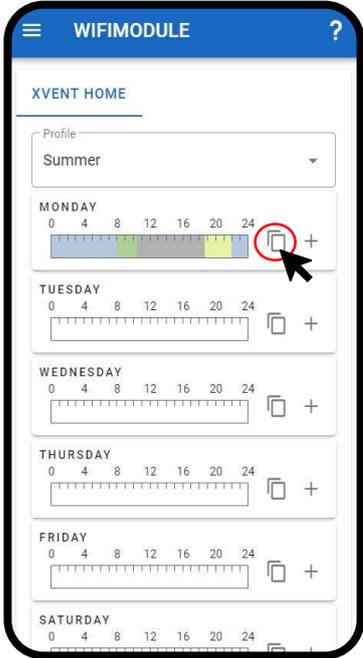
21 Setup of all modes within one day could look like this



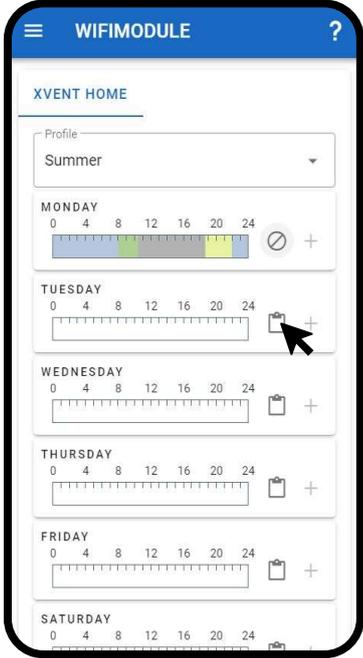
22 To set the other days, you can repeat this process or you can copy days.



23 To copy a day, click the icon
You have selected the day to be copied

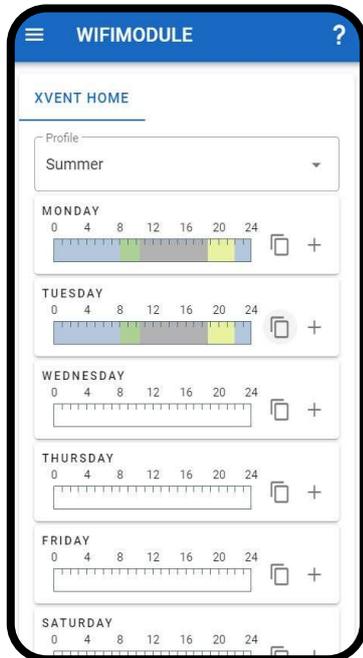


24 Then click the day where you want to paste the settings.



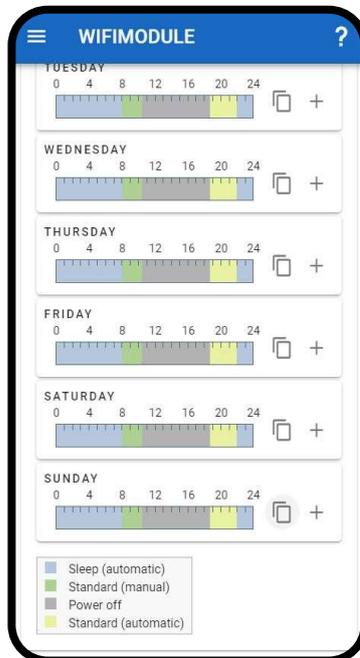
25

To copy into multiple days, repeat points 23. to 24.



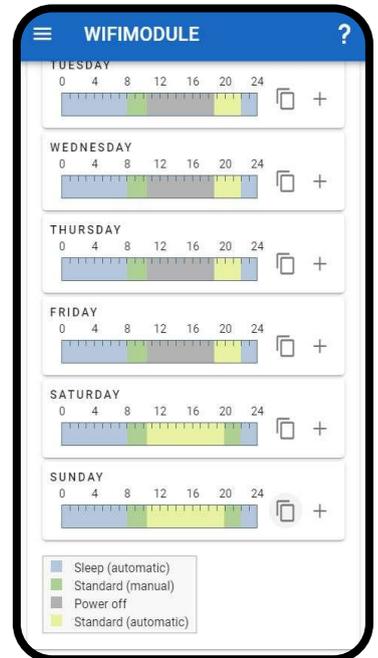
26

In case you want to change any setting (e.g.: the weekend),
 proceed according to Chapter 5.2.2., points 4. to 11.



27

The setup of your profile is finished.
 To run the unit according to your profile, proceed according to  chapter 5.2.2.1



- **The maximum number of modes that can be included in one week profile is 150. If you exceed the maximum number of modes, a warning will be displayed and correct functionality of the APP time profiles cannot be guaranteed.**
- **The refresh rate of the converter is approx. 30 sec, i.e., the response of the unit to a change can take up to 30 sec.**

6. Regular maintenance and cleaning of the converter



- **Before any kind of cleaning of the converter or as part of maintenance, the converter must be disconnected from the power supply**
- **Maintenance and cleaning must be performed at regular intervals; otherwise, the functionality of the converter may be impaired.**
- **Children may not perform cleaning maintenance without supervision.**
- **Compressed air, steam, solvents, aggressive chemicals, abrasive cleaning agents, or sharp objects must not be used to clean the unit.**
- Carry out maintenance and cleaning of the unit at regular intervals at least once a year or at intervals specified by applicable national regulations or practice.
- If the converter is not going to be used for a longer period of time, it is necessary to switch off the power supply to the converter.
- Service work that is beyond the scope of routine maintenance may only be performed by an authorised service centre or the manufacturer.
- Regular maintenance must include:
 - o visual inspection of the housing of the box and the antenna of the converter
 - o visual inspection of the power supply and communication cables
 - o cleaning of all ventilation openings at the bottom and the top of the box and the entire housing of the converter
- For cleaning the converter from coarse dirt or dust, use a vacuum cleaner or damp cloth with a common cleaning agent (e.g. soapy water).

7. Servicing



- Warranty and non-warranty servicing may only be performed by a qualified professionally trained worker and only using original spare parts.
- The manufacturer reserves the right to make changes to the device that do not affect the fundamental characteristics of the device.

7.1. Error Messages in the App – Unit Status

- These error messages are displaced in the WifiModule App on the home screen, designation “Status”

Tab. 2

Error No.	Error message, malfunction	Possible cause of the malfunction	Troubleshooting
01.	Modbus communication with the unit not functioning	The power supply adapter is not connected to the electrical mains	- check the mains connection - check the activation of the safety element
		The communication cable connector is not snapped in properly	- check whether the cable connector is proper snapped into the unit and the converter
		The unit is switch off with the main switch or disconnected from power supply	- check the connection of the unit to the electrical mains - check the position of the rocker switch on the unit body
02.	Error of fan no. 1	Fan malfunction	- check whether the fan error is also displayed on the unit, and if necessary, restart the unit - switch off, switch on - in case of a fan malfunction, proceed with repair according to the unit manual
04.	Error of fan no. 2	Fan malfunction	- check whether the fan error is also displayed on the unit, and if necessary, restart the unit - switch off, switch on - in case of a fan malfunction, proceed with repair according to the unit manual
08.	Room sensor error	Temperature sensor malfunction	- check whether the error is also displayed on the unit, and if necessary, restart the unit - switch off, switch on. - in case of a temperature sensor malfunction, proceed with repair according to the unit manual
10.	Exhaust sensor error	Temperature sensor malfunction	- check whether the error is also displayed on the unit, and if necessary, restart the unit - switch off, switch on. - in case of a temperature sensor malfunction, proceed with repair according to the unit manual
20.	CO ₂ sensor error	CO ₂ air quality sensor malfunction	- check whether the error is also displayed on the unit, and if necessary, restart the unit - switch off, switch on. - in case of an air quality sensor malfunction, proceed with repair according to the unit manual
40.	Relative humidity RH sensor error	Relative humidity RH air quality sensor malfunction	- check whether the error is also displayed on the unit, and if necessary, restart the unit - switch off, switch on. - in case of an air quality sensor malfunction, proceed with repair according to the unit manual

7.2. Status and Error Messages of the Converter

- The status and error messages displayed directly on the body of the converter by LED indicators called “WIFI” and “STATUS”

Tab. 3

status signalling by LED indicators	status signalling - errors	Status - error message, malfunction	Status description/possible cause of the malfunction	Troubleshooting
WIFI	not illuminated	Power supply error	The power supply adapter is not connected to the electrical mains	- check the mains connection - check the activation of the safety element
STATUS	not illuminated	Converter start	None	- wait at least 30 seconds
WIFI	not illuminated	Everything OK	Everything OK	- everything OK
STATUS	illuminated			
WIFI	not illuminated	No connector the Wi-Fi network	Incorrect Wi-Fi network, password, etc.	- check connection to the Wi-Fi network, correct network password
STATUS	flashing slowly		Insufficient Wi-Fi signal reception	- check the Wi-Fi connection signal strength - move the converter closer to the router
WIFI	flashing slowly	Wi-Fi network settings loading	Connection to the Wi-Fi network functioning	- everything OK
STATUS	not illuminated			
WIFI	flashing slowly	The device is in pairing - configuration mode	The device is in pairing - configuration mode	- The converter is ready to be paired with the unit via the APP
STATUS	flashing slowly			
WIFI	flashing quickly	The converter is connected to the Wi-Fi network but there is no communication with the server	Internet connection not working	- check your internet connection
STATUS	not illuminated			
WIFI	flashing quickly	Modbus communication not working	Heat recovery unit off	- check the electrical mains connection of the unit - check the activation of the protection element of the unit
STATUS	illuminated		The communication cable connector is not snapped in properly	- check whether the cable connector is proper snapped into the unit and the converter
WIFI	not illuminated	Internal error of the converter, unit, or server	Unidentified malfunction	- restart the converter, unit, server - contact the manufacturer
STATUS	flashing quickly			

7.3. Malfunction persists

7.3.1. Power supply disconnected

- Disconnected the converter from the power supply.
- Wait approx. 30 sec.
- Restore the power supply to the converter.

7.3.2. Restart the convertor

- Press button “6” – designated RESET on the side of the converter and hold it for at least 3 sec.
- The reset converter will go to the state before it was paired with a unit.



- Repeat the process of pairing the converter with the unit using the web app at www.wifimodule.eu.
- Carry out the pairing process according to Chapter 4.6.
- In case the converter malfunction persists, do not attempt to repair the converter on your own under any circumstances.
- Disconnect the converters from the electric mains and secure it against being started again or being handled by an unauthorized person.
- Contact your seller.

8. Final Decommissioning, Dismantling, and Disposal

- At the end of the machine's service life or when it would be uneconomical to repair it, dismantle the machine completely.
- During the dismantling process, the generally applicable safety regulations must be observed for the safe execution of all the work activities.
- Once the machine is completely dismantled, dispose of the individual parts in accordance with the requirements of the Waste Act No. 541/2020 Coll., as amended.

- Separate the metal components by the type of metal and hand them over to the relevant organisations dealing with the reusable waste collection.
- The parts made of plastic materials and rubber that are not subject to natural decomposition shall be sorted out and sold to an organisation dealing with collection of such reusable waste materials.
- Parts of electrical equipment are handed over to the organisation responsible for electrical waste collection.



Please, return all unwanted or obsolete products and packaging to the relevant recycling sites where they will be disposed of professionally. Dispose of the parts of the product that cannot be utilised to a controlled landfill. Only a product recycled in this way can be reused properly and returned to the utility.



9. Warranty

The warranty per unit is valid according to legal regulations. The warranty only applies if all the installation and maintenance instructions have been followed. The warranty covers manufacturing defects, material defects, or device operation defects. We do not guarantee the suitability of using the unit for special purposes, determination of suitability is fully within the customer's competence.

The warranty does not cover defects caused by:

- improper handling,
- during transport (damage caused by transport – financial compensation must be resolved with the carrier),
- failing to comply with the service conditions,
- incorrect electrical connection or protection,
- incorrect operation,
- product intervention,
- regular wear and tear,
- due to a natural disaster.

If the warranty is claimed, it is necessary to submit a report (provided in the product documentation) containing:

- complainant/company information,
- date and number of the sales document,
- detailed description of the defect,
- data on socket protection,
- photo of the product's manufacturing label and, where appropriate, a serial number,
- photo from the product's installation site,
- measured product values: air temperature, voltage, current.

In the case of both warranty and post-warranty service, contact your supplier or installation company that performed your installation. The method of handling a warranty repair is carried out at the unit installation site or as agreed. The method of resolving warranty repairs is exclusively at the discretion of the company's service centre. The complaining party shall receive a written statement on the result of the complaint – warranty repair. In the case of an unjustified complaint, all the costs relating to such complaint shall be borne by the complainant.

10. In Conclusion

If you have any questions about this product, do not hesitate to contact us.

Contact Address:

Xvent s.r.o.
Poděbradská 289
53009 Pardubice-Trnová
Czech Republic
www.xvent.cz

