# Table of contents
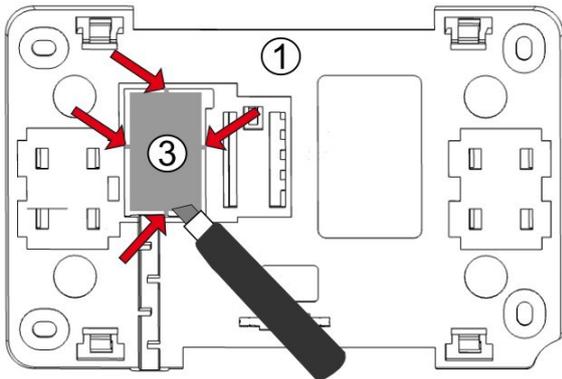
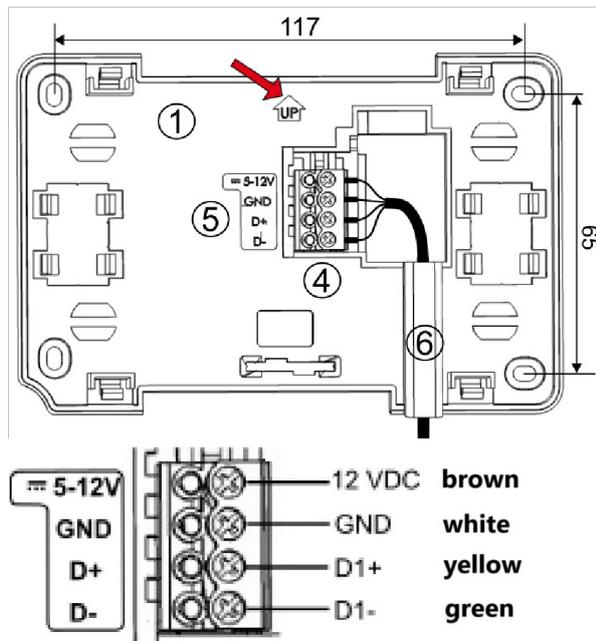# Operating instructions

## 1. Room panel installation

Detach the mounting frame (1) from the rear panel housing (2). The frame is fixed to the panel housing by snaps. A flat screwdriver can be used to detach the frame.
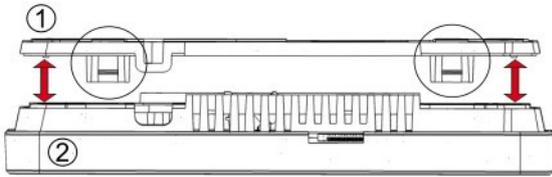


Cut out the cover (3) of the screw clamp hole in four places with a sharp tool.



Connect the wires of the transmission cable connecting the panel with the controller to the screw terminal (4), as described (5). The cable connecting the panel with the regulator may be recessed in the wall or may run along the surface of the wall, in which case the cable must additionally be placed in the cable channel (6) of the mounting frame. It is not allowed to run the cable connecting the panel with the regulator together with the cables of the building network. The cable should also not run in the vicinity of devices emitting strong electromagnetic fields.





*NOTE: When connecting the HRQ-BUT-PG15 panel to the unit together with the HRQ-BUT-LCD-P5 panel, the LCD panel internet module setting should always be set to OFF.

# Operating instructions

Drill holes in the wall and, using screws, fix the mounting frame in the desired position on the wall, keeping the frame in the correct position (UP). Then fix the panel to the mounting frame using the clips.

The room panel is designed for wall mounting in a dry room only. The panel must not be used in condensation conditions and must be protected from the effects of water. The panel must be mounted at a height that allows comfortable operation, typically 1.5 m above the floor.
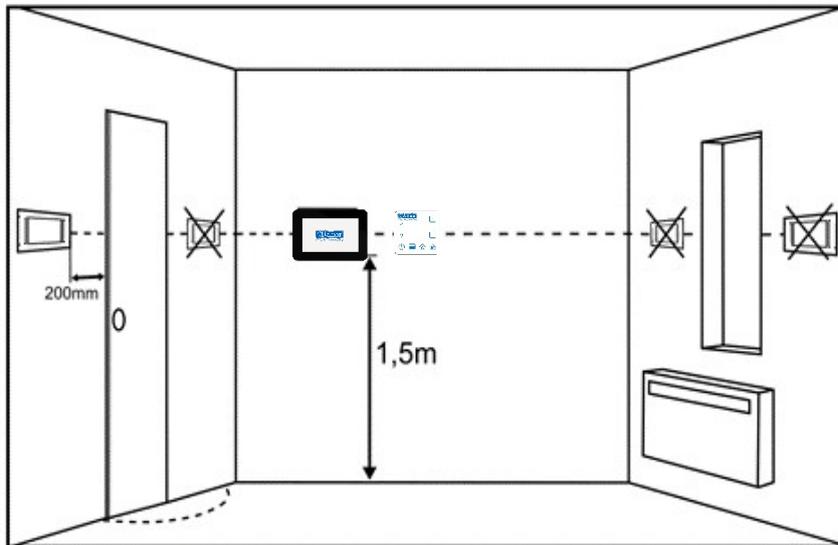


## 2. Cleaning and maintenance

Clean the appliance with a soft, dry cloth. Do not clean the unit with a flammable substance (e.g. benzene or solvent) or a damp cloth. This may cause problems with the device.

Do not scratch the screen with fingernails or sharp objects. This could cause damage to the device. Do not clean the device by spraying it with water or other liquids. If liquid were to get inside the device, it could cause fire, electric shock or damage to the device.

Power cable:

Do not use a damaged power cord, power cord plug or loose electrical outlet. Failure to do so risks electric shock or fire.

## 3. Start-up screen

When the electrical power of the air handling unit is switched on, the start screen is displayed.

# Operating instructions



## 4. Home screen

Once connected to the air handling unit, the main screen of the panel will display the most important information about the unit's operation. The user has a view of the current parameters, such as the degree of fan control and the temperature from the leading (room supply) sensor. The main screen also offers easy-to-use management options, allowing quick switching between different operating modes. If air quality sensors are installed in the system, Auto mode can be activated on the main screen. In this mode, the system automatically adjusts settings to ensure maximum comfort for users.
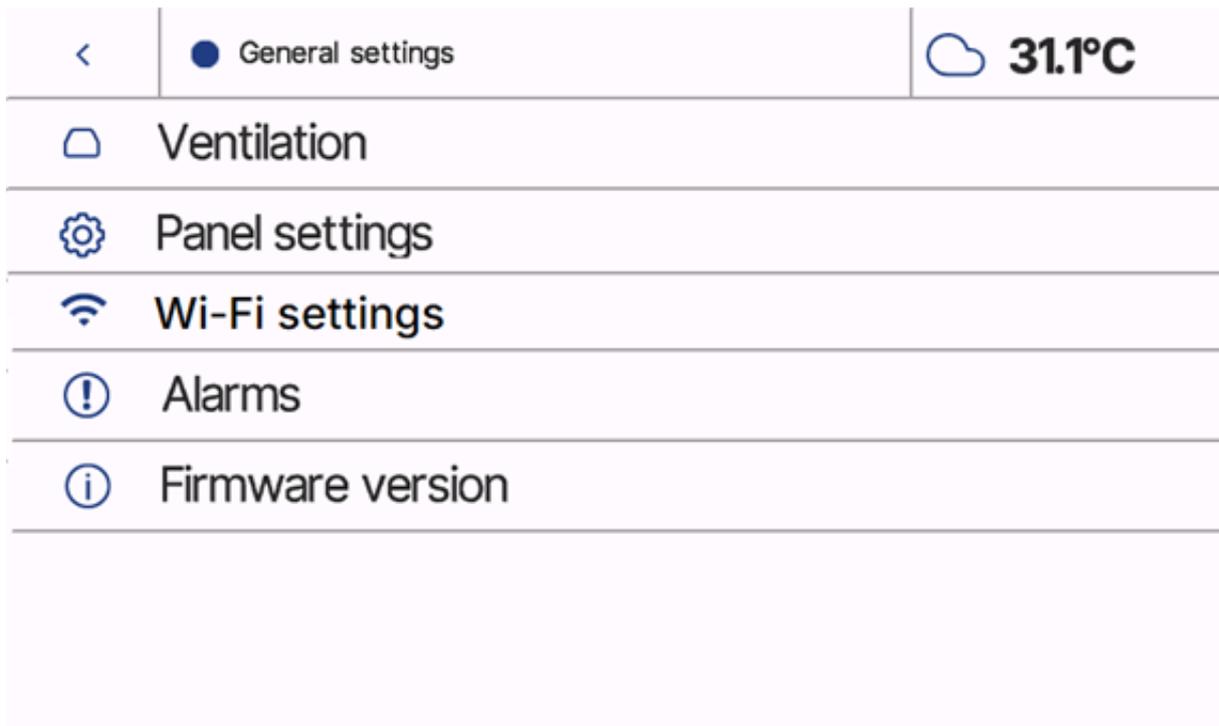
# Operating instructions
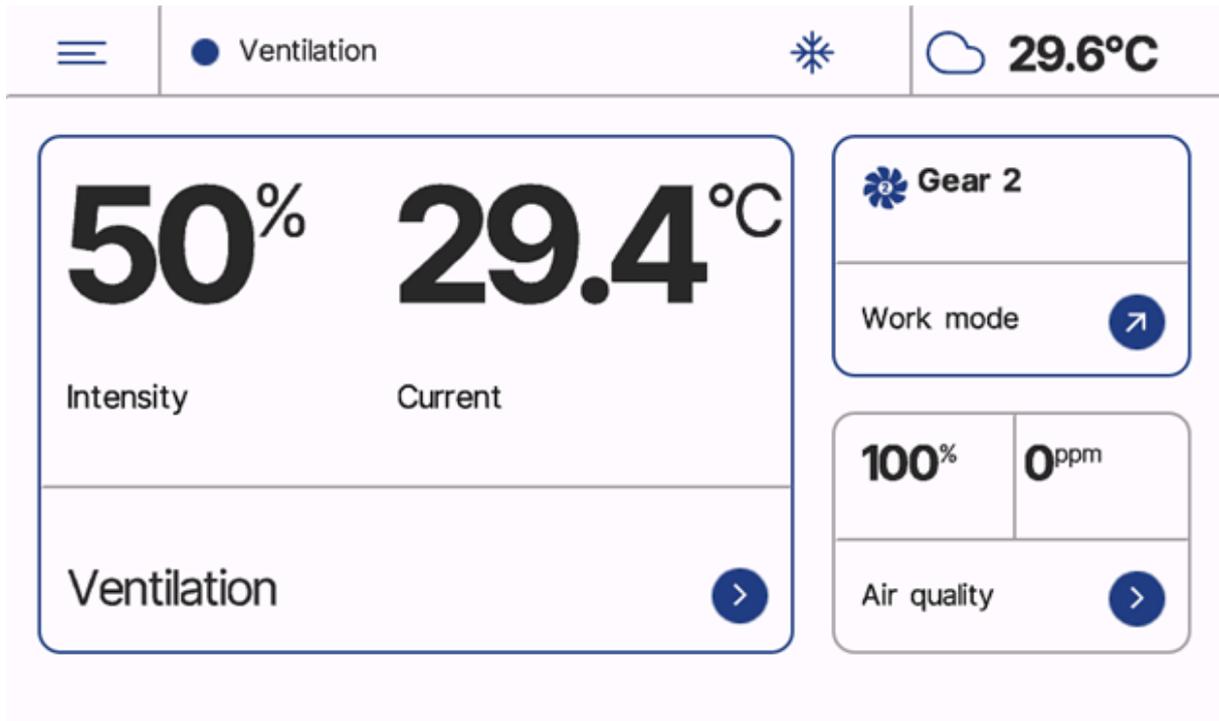


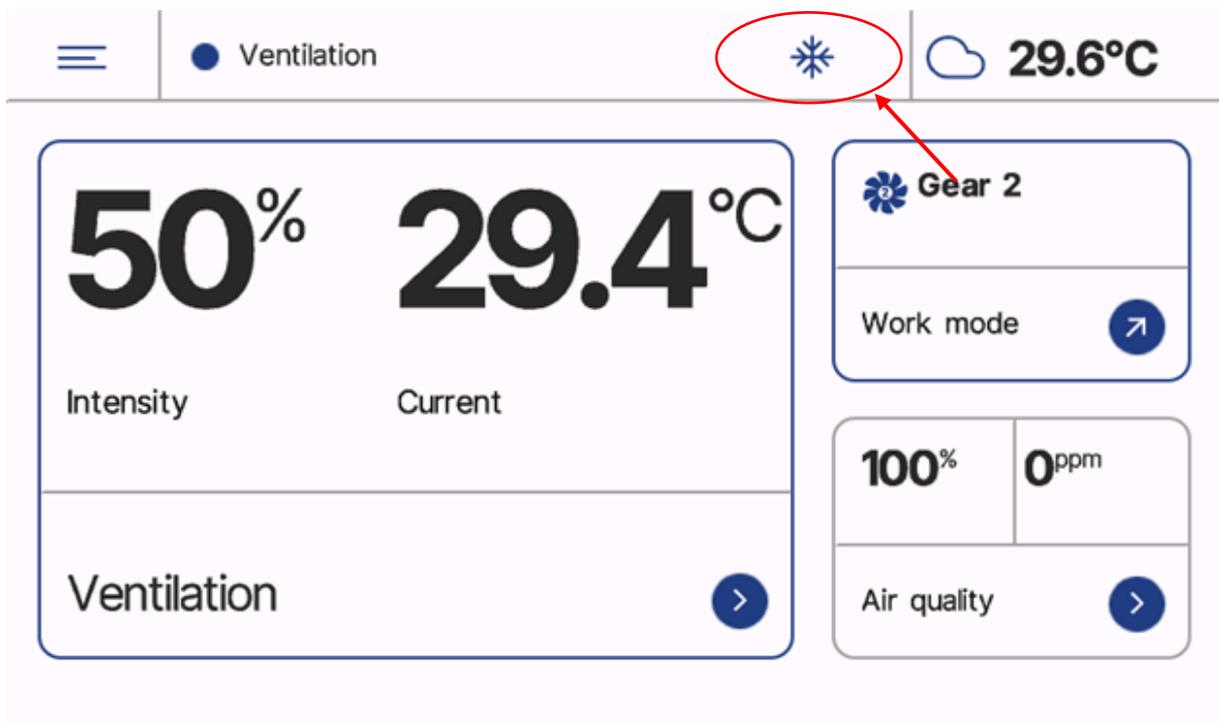## 4.1. Home screen elements:

Menu button
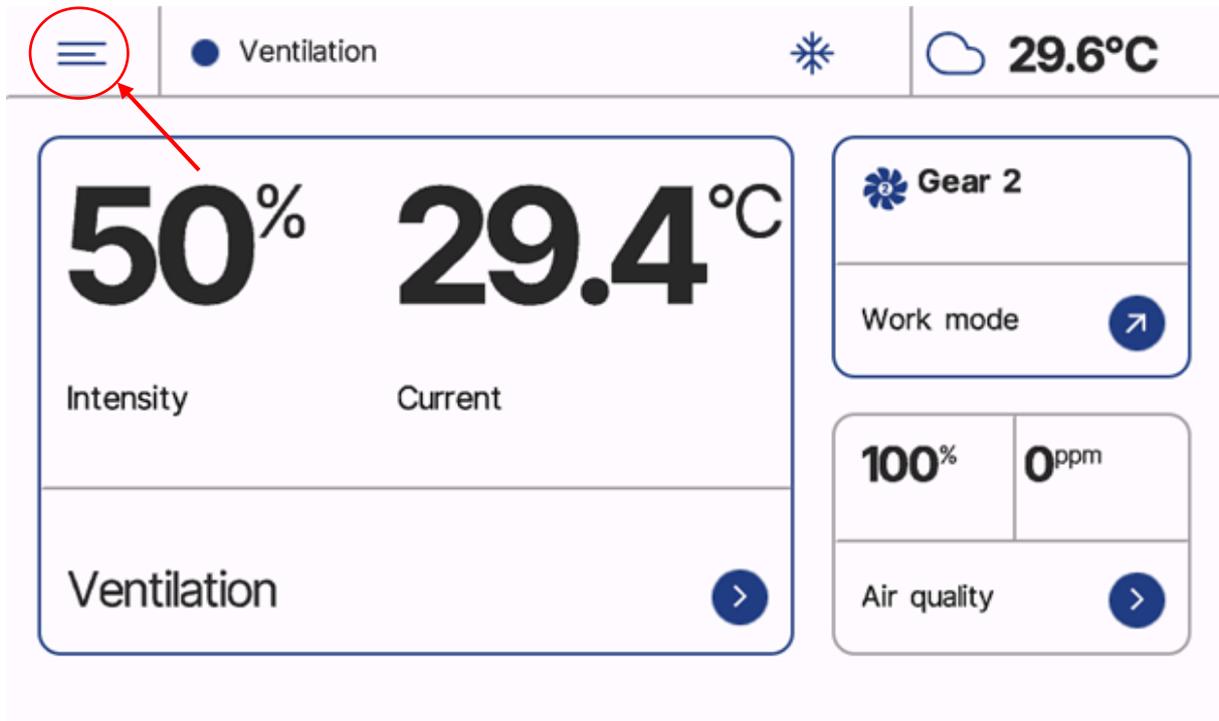


There is a navigation button in the top left corner of the screen to display the main menu of the panel. The main menu contains 5 active buttons that take the user to subsequent screens. Each menu item will be described later in this manual.

# Operating instructions

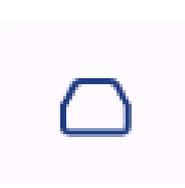| | | |
|---|---|---|
| < | ● General settings | ☁ **31.1°C** |
| ⌂ | Ventilation | |
| ⚙ | Panel settings | |
| 📶 | **Wi-Fi settings** | |
| ① | Alarms | |
| ⓘ | Firmware version | |

## 4.2.   Device status icons

At the top of the screen, system status icons are displayed to indicate the current operating status of the recuperator, such as on, off, fault or need for filter replacement.



≡   ● Ventilation          ❄          ☁ **29.6°C**

**50**% **29.4**°C

Intensity     Current

Ventilation  ⊙

❄ **Gear 2**

Work mode  ⊙

**100**%  **0**ppm

Air quality  ⊙

# Operating instructions

Active alarm

Switchboard at a standstill

No connection to Wi-Fi network

Ordinary work

No status

Heating operation

Control panel switched off

Cooling operation

Ventilation in the control panel

# Operating instructions

Heater cooling
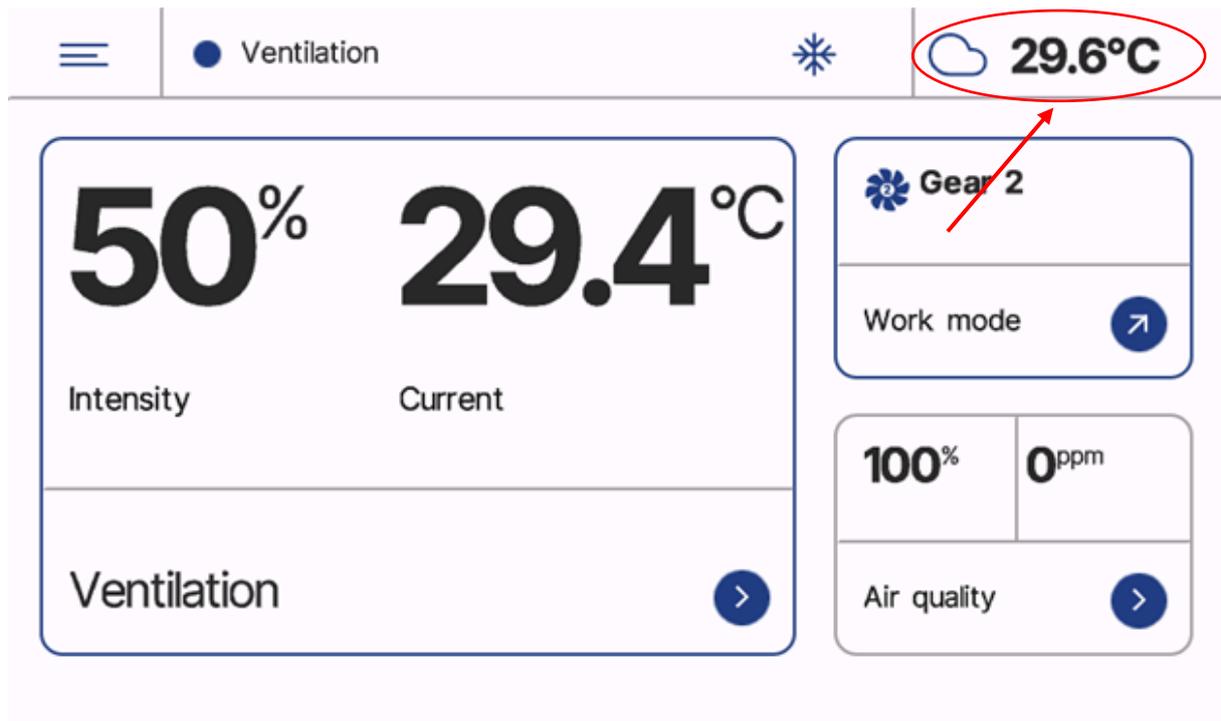
BOOST mode

Defrosting

Start delay

## 4.3. <u>Outdoor temperature</u>

The top right corner of the screen displays the outdoor temperature, which is taken from the intake temperature sensor

# Operating instructions



## 4.4. Information screen

By making a swipe gesture from the top edge of the screen downwards, an information screen with basic information about the device unfolds. On this screen, you can quickly check whether there are active alarms, which is important for safety and the proper functioning of the system.
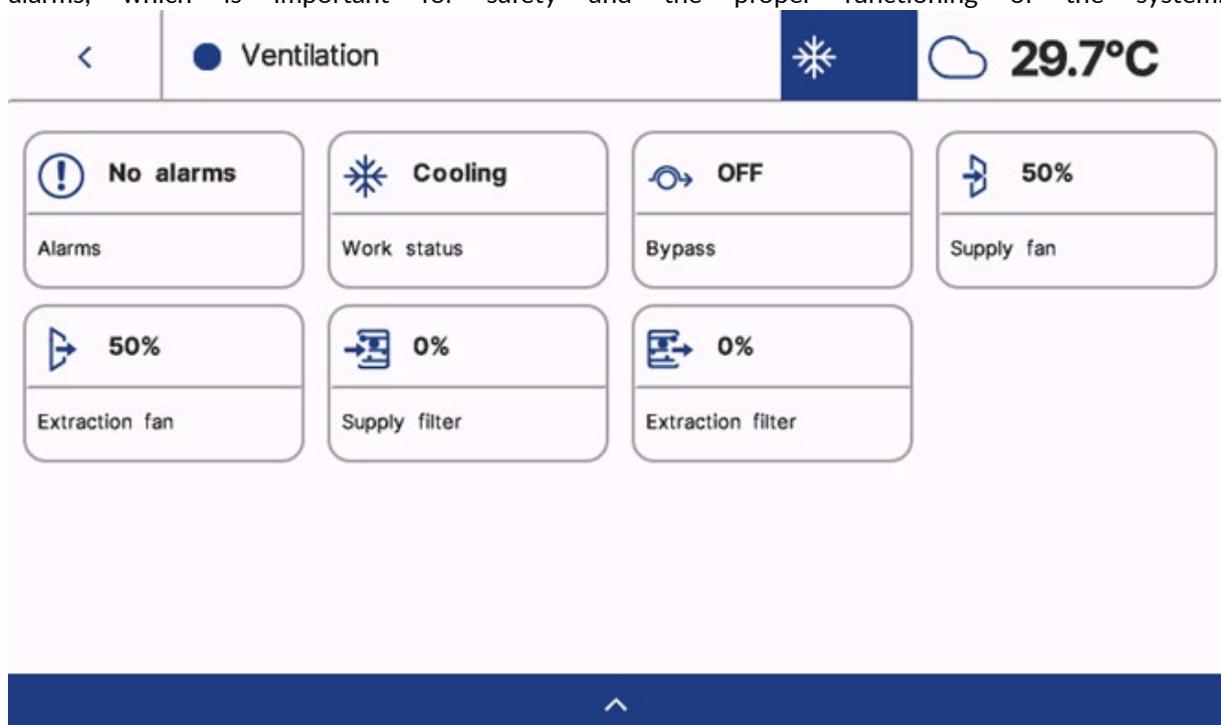


The network connection status indicates the current quality and stability of the internet connection. The operating status of the unit indicates which operating mode the unit is in. The opening status of the bypass damper and the control of the supply and exhaust fans indicate the current airflow settings and intensity. The status of the pre-heater indicates whether it is active, and information on dirty supply and

# Operating instructions

extract filters indicates the need for maintenance or replacement. This data gives the user full control of the system and helps to maintain optimum room air quality

### 4.5. Ventilation

In the central part of the screen is the main Ventilation tile. The tile indicates the control of the fans and the current temperature read from the leading sensor (supply sensor). By touching the arrow in the bottom right corner of the tile, the ventilation settings can be accessed.
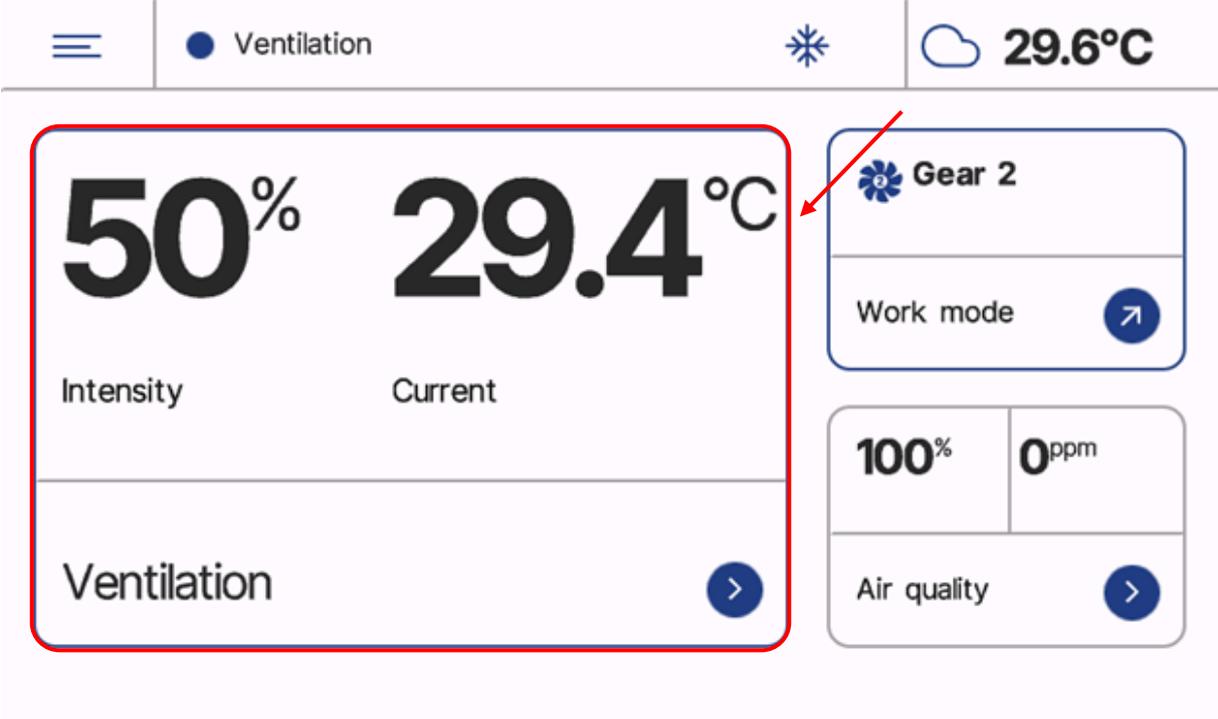


### 4.6. Mode of operation

Indicates the current operating mode, when pressed takes you to the operating mode selection screen.
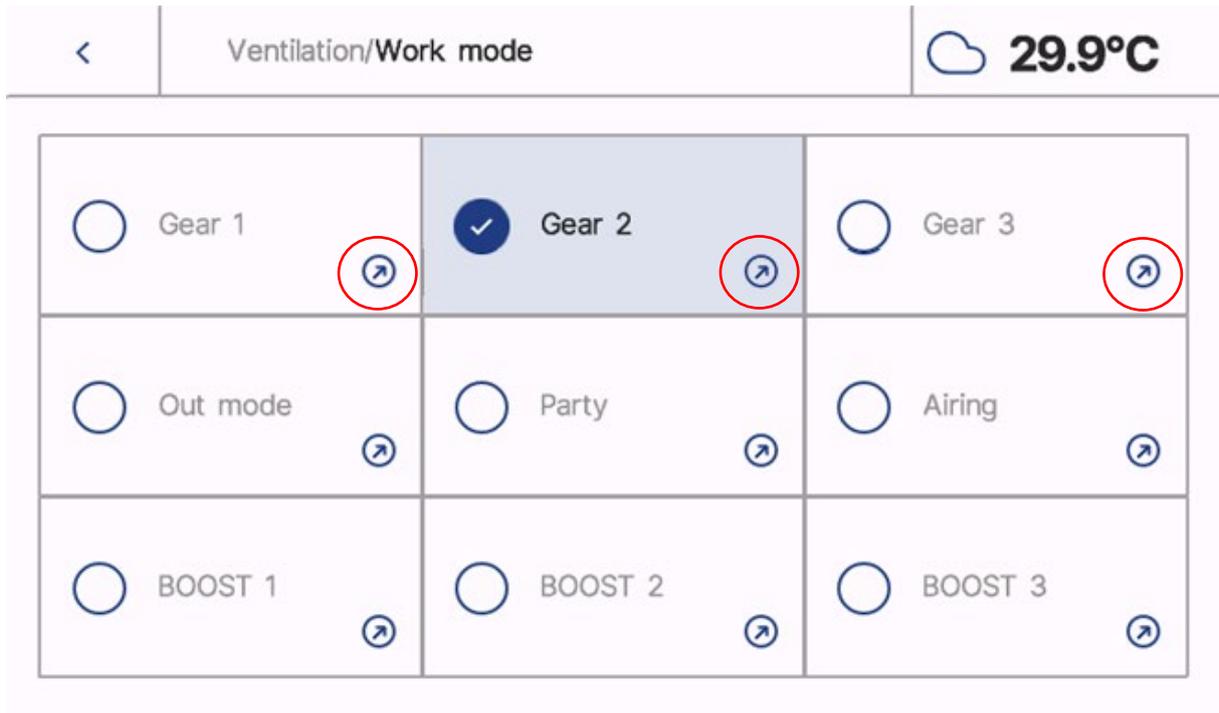
# Operating instructions
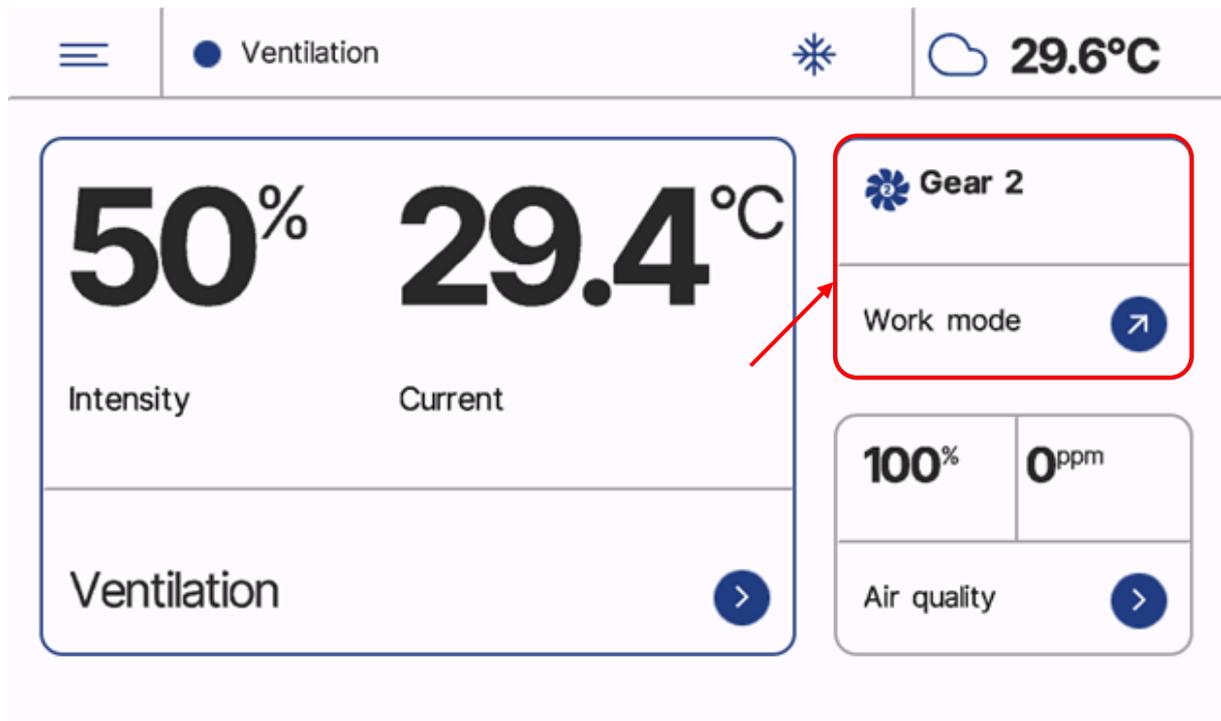


The screen allows you to select the operating mode of the recuperator. There are three timed modes in the top list and gear options in the bottom list. When the selected timer mode is finished, the system will automatically switch to the last run used. Each of the time mode tiles has an arrow which, when pressed, opens the screen for editing the settings of the selected time mode.
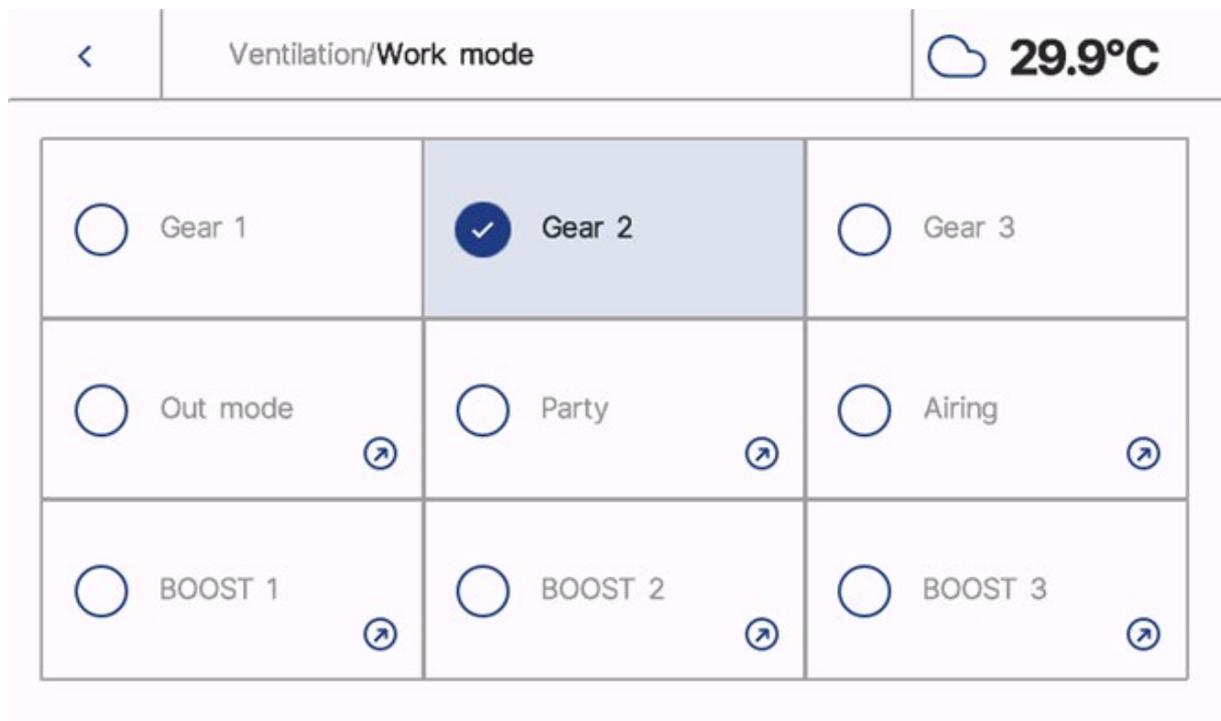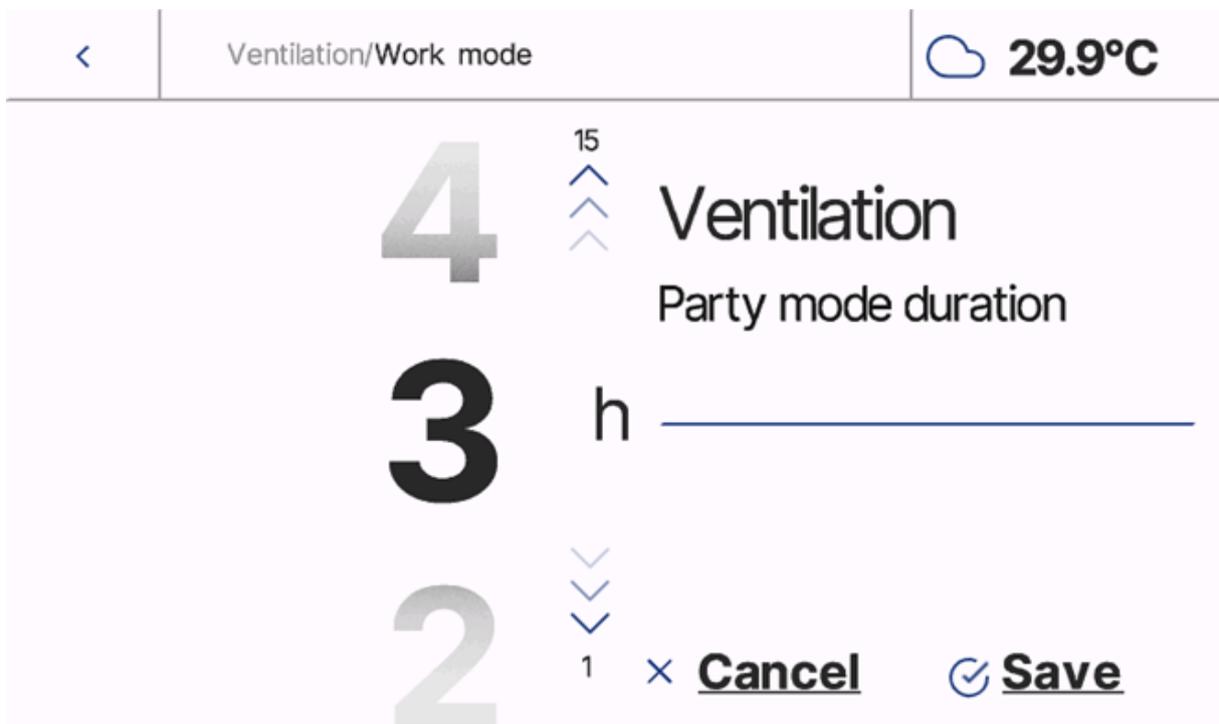


If schedule mode is active, the lower list containing the selection of the current gear will be hidden.

From the mode selection level, it is possible to configure the operation of the time modes. Both time modes Party and Output have the same time edit screen.
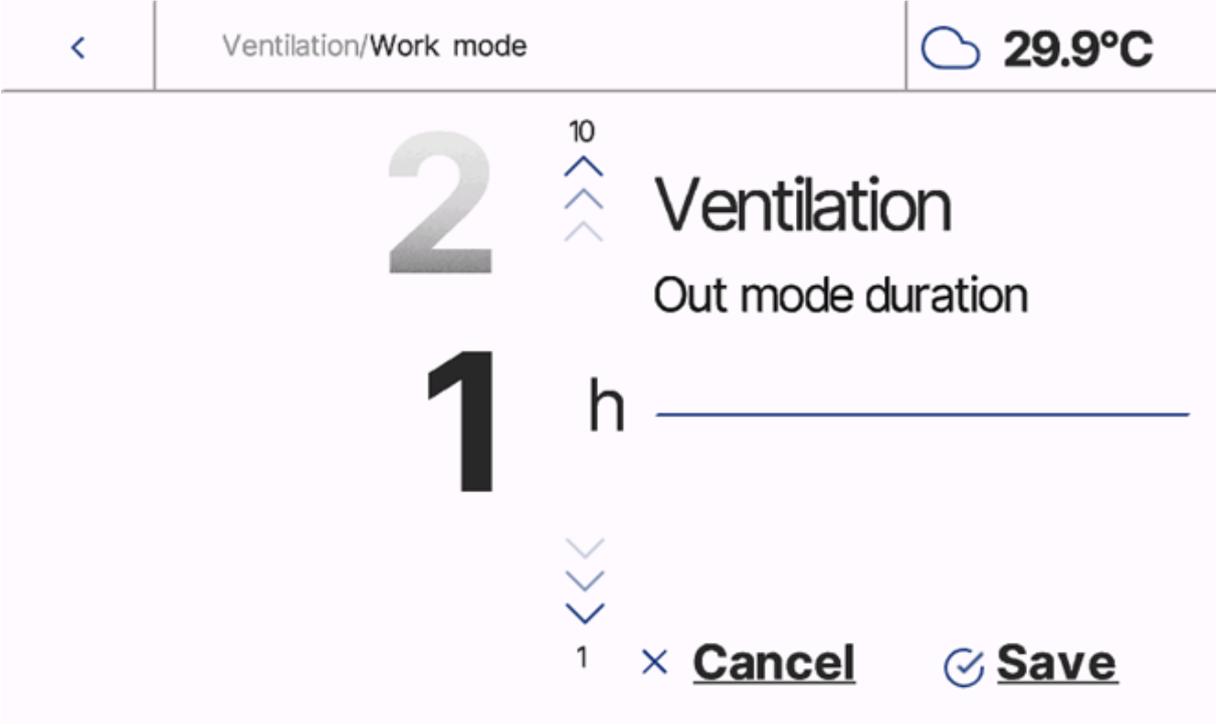
# Operating instructions



 The screen allows you to select the duration of a particular mode. To edit the duration, press the lower or upper part of the screen. A long hold will speed up the edit.
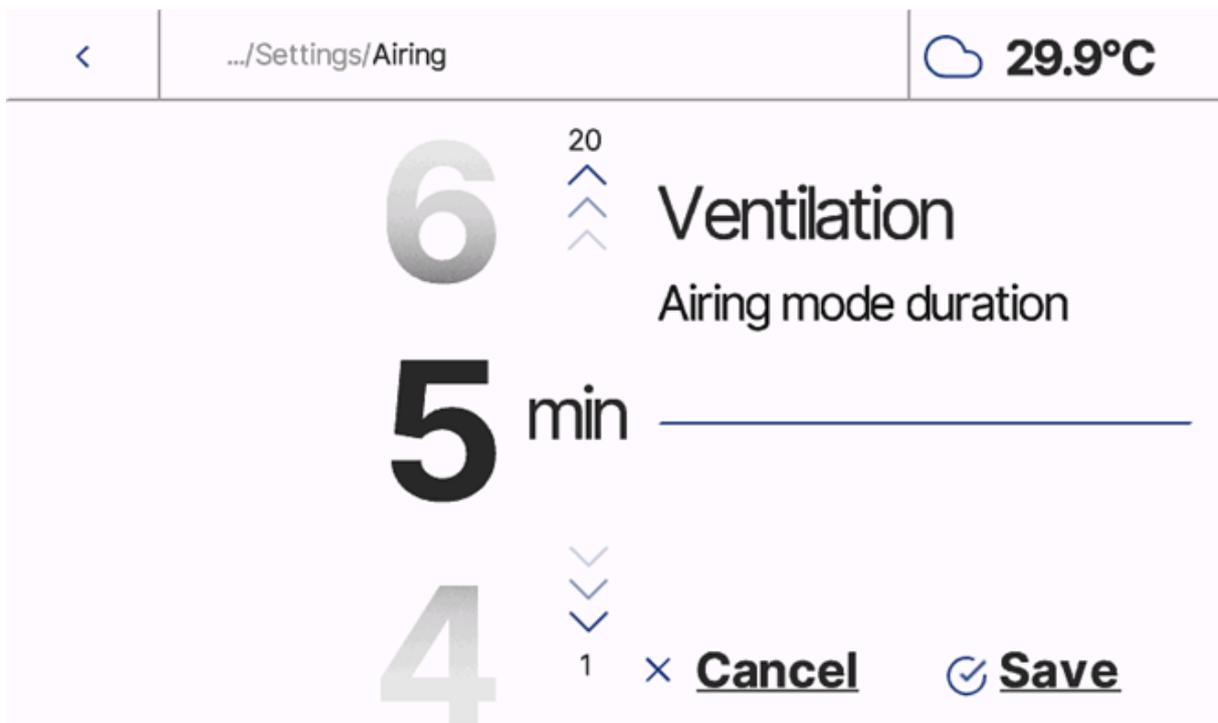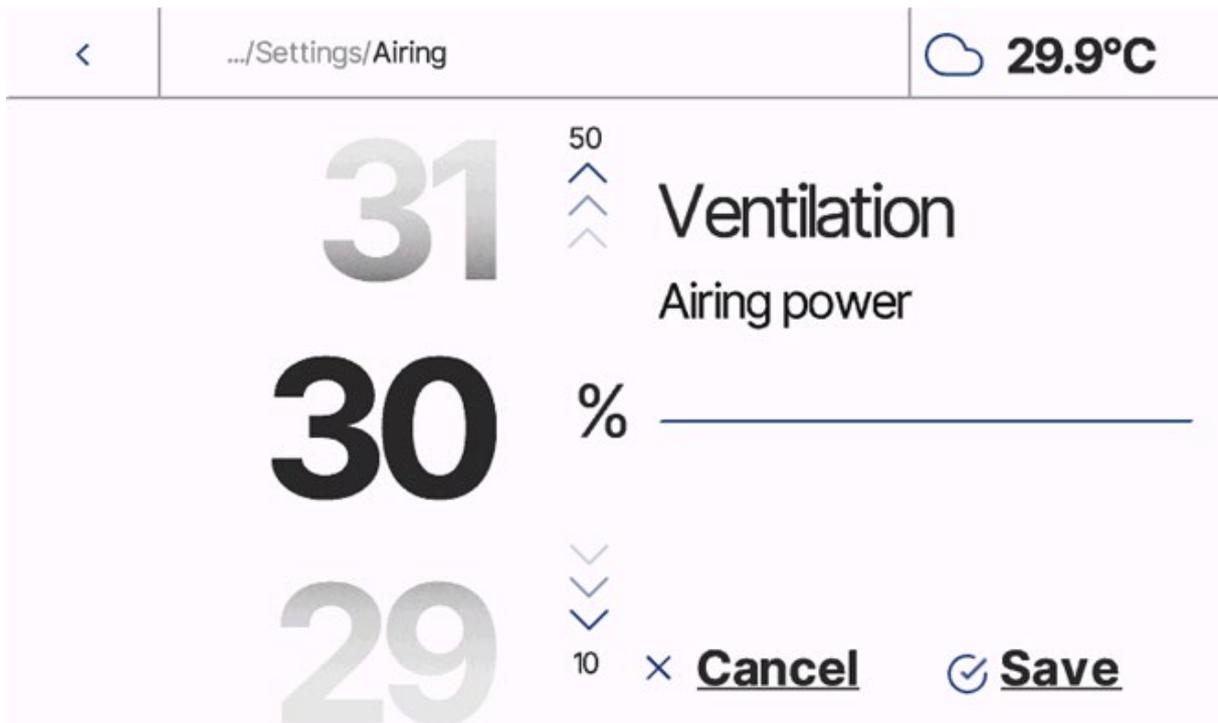
# Operating instructions



| < | Ventilation/**Work mode** | ☁ **29.9°C** |

**2**
10
∧
≫∨
∧
**Ventilation**
Out mode duration

**1** h ————————————

∨
≪∨
∨
1  × **Cancel**     ✓ **Save**

Ventilation timer setting screen

| < | .../Settings/**Airing** | ☁ **29.9°C** |

**30** %

Airing power   ↗

**5** min

Airing mode
duration   ↗

In addition to editing the duration, the Timed Ventilation mode also allows the selection of the ventilation power.

# Operating instructions

31

50
∧
∧
∧

**30** % ————————————————

∨
∨
∨
10    × **Cancel**     ☑ **Save**

29

## Ventilation
### Airing power

6

20
∧
∧
∧

**5** min ————————————————

∨
∨
∨
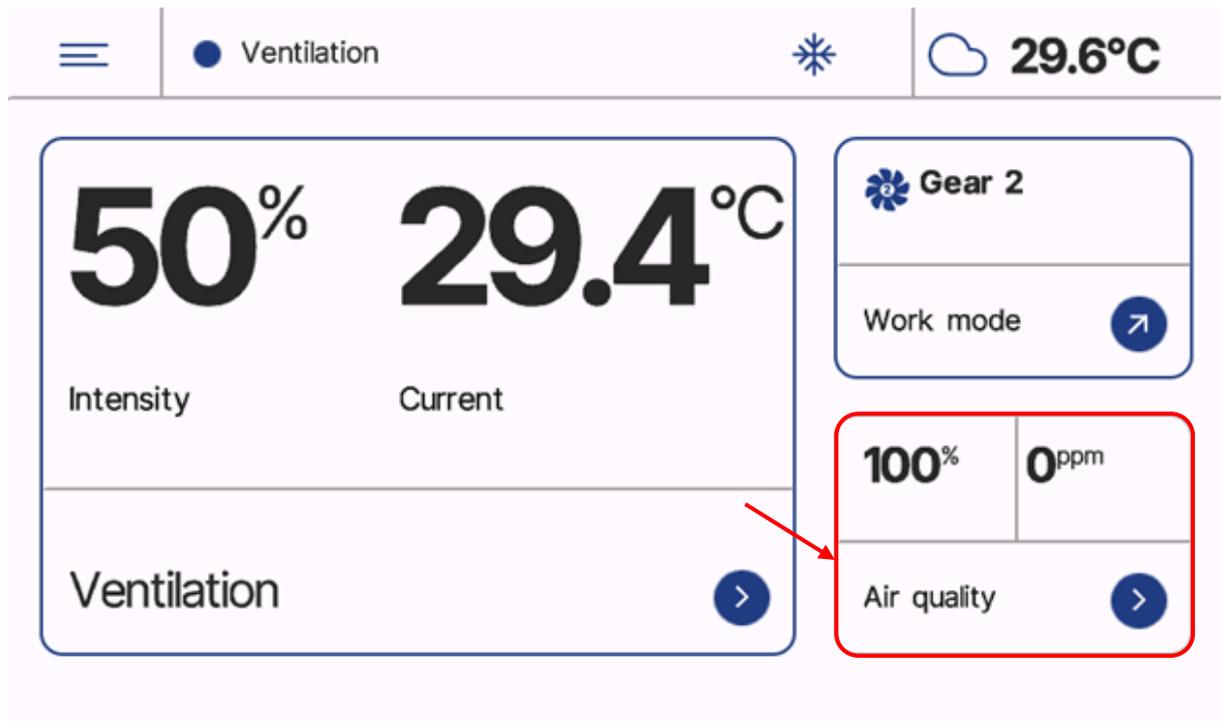1    × **Cancel**     ☑ **Save**

4
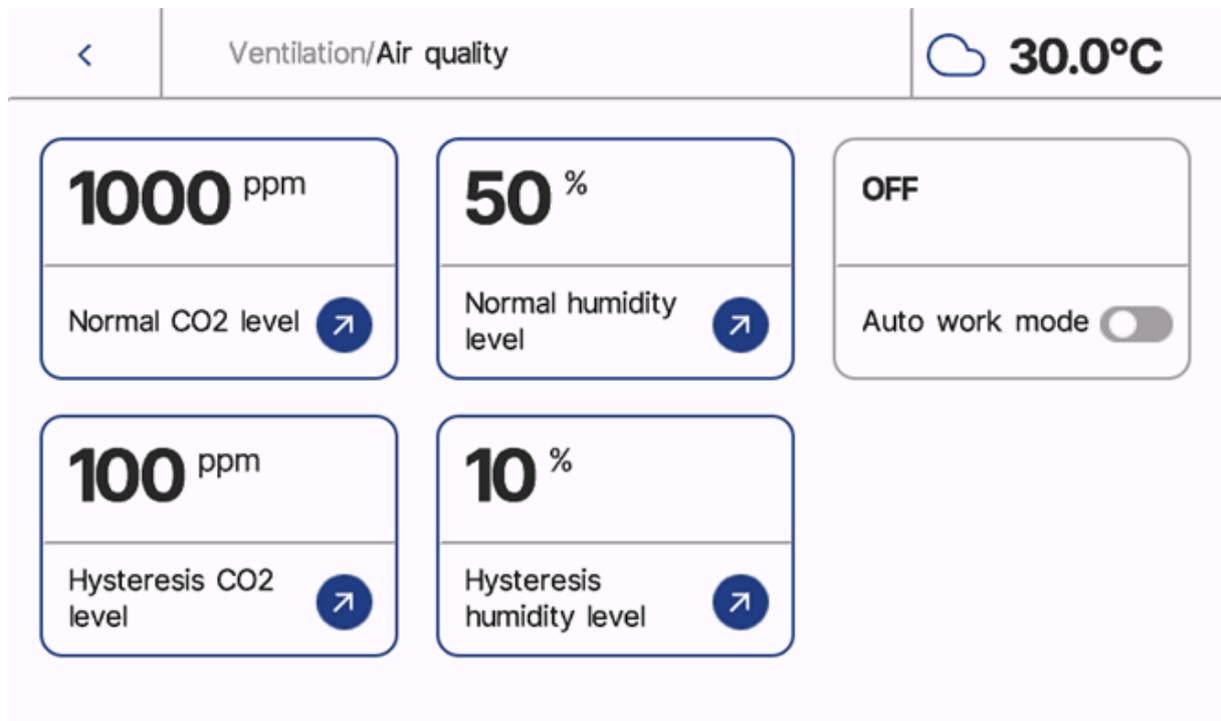
## Ventilation
### Airing mode duration

## 4.7. Air quality

It indicates the current readings from the air quality sensors, when pressed it takes you to the Auto mode settings, where the user can activate the mode and adjust its settings. The purple outline of the tile indicates the active Auto mode.

# Operating instructions



Air quality tile settings



**Normal CO2 levels**

Allows the normal CO2 level to be set. During auto mode, the ventilation will aim to maintain the set CO2 level. Maintaining the correct CO2 level takes priority over the humidity level.

# Operating instructions

**Normal humidity level**

Allows the normal humidity level to be set. During auto mode, once the appropriate CO2 level is reached, the ventilation will aim to maintain the set humidity level.

**Auto mode**

Allows activation of Auto mode

**CO2 level hysteresis**

Allows determination of the permissible difference between the current and set CO2 levels

**Humidity level hysteresis**

Allows the determination of the permissible difference between the current and set humidity levels.

## 5. Ventilation settings screen

The recuperator settings screen allows the operation of the air handling unit to be adapted to the user's needs. It contains tiles for the settings of individual operating modes. A tile for setting the set temperature and tiles for additional devices.
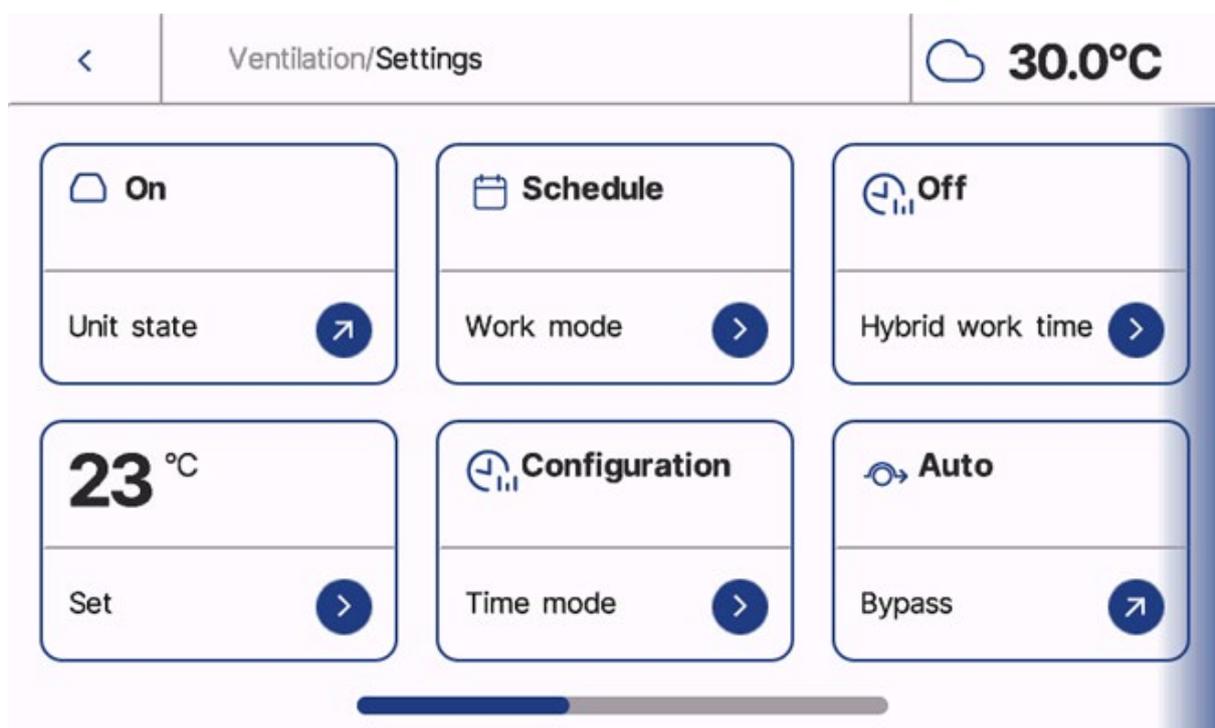


Elements of the recuperator settings screen

### 5.1.    Operating status of the control panel

The tile shows the current operating status of the device and allows the panel to be switched on or off.
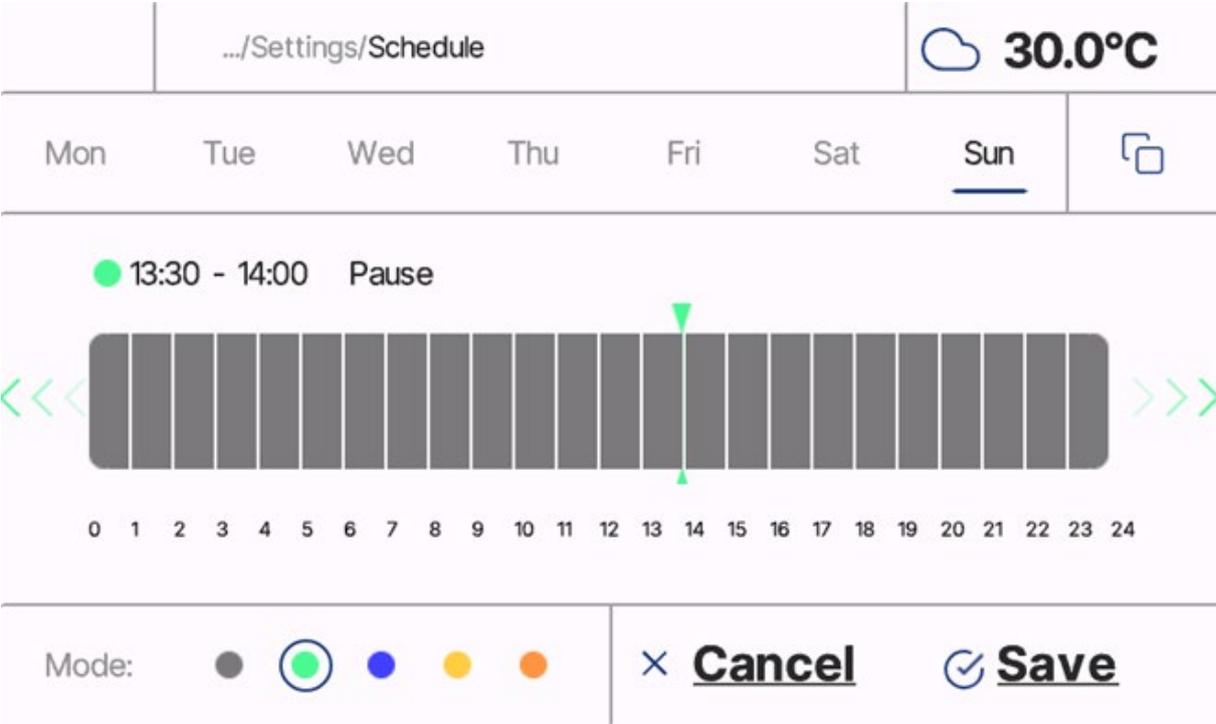
### 5.2.    Schedule

Takes you to the schedule settings window. The settings contain two tiles: Edit schedule - takes you to the edit schedule window. Work schedule - allows you to enable the work schedule mode.
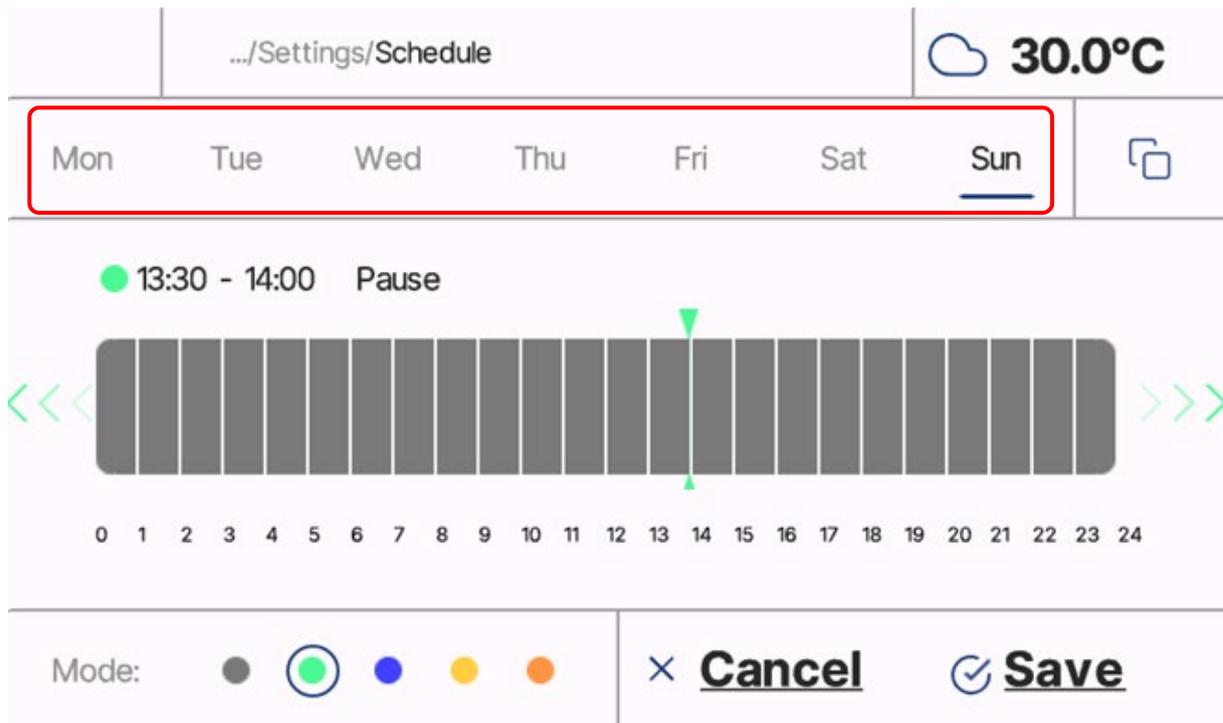
# Operating instructions
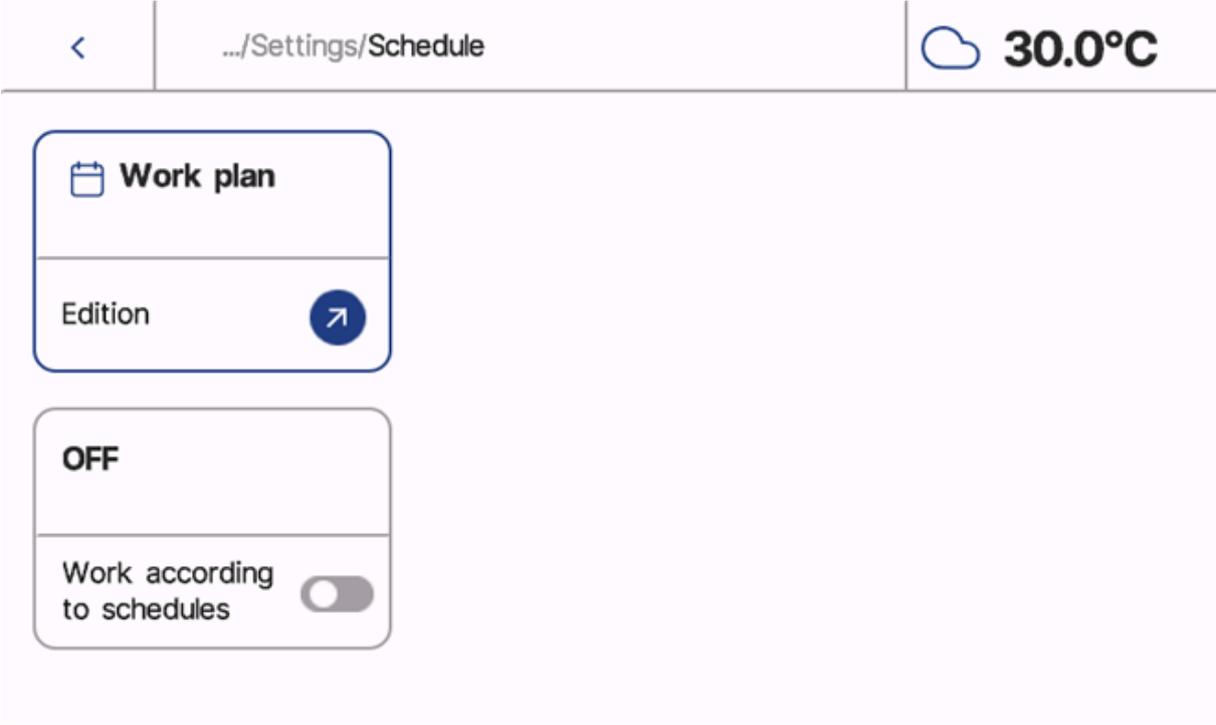


**Edit work plan**

The main work plan editing screen. In the work plan edit screen, you can set the different modes for each day of the week, such as selected run or pause.
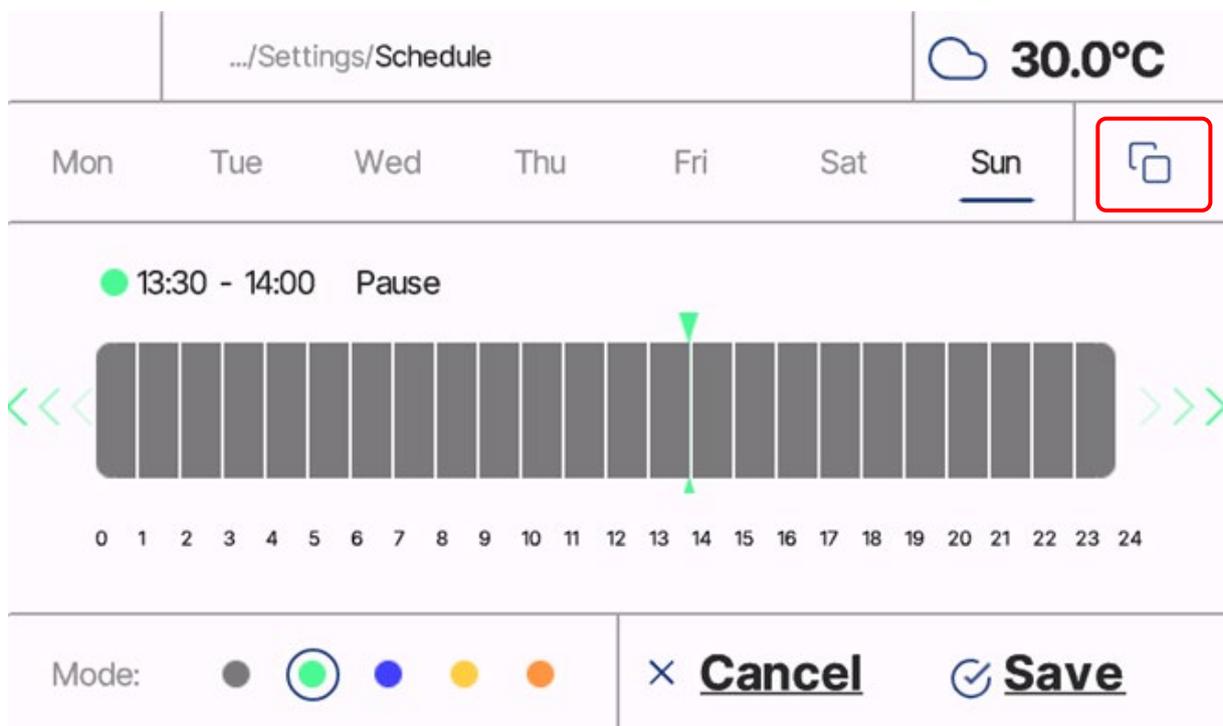


At the top of the screen is the selection of the day for which the schedule is currently set.
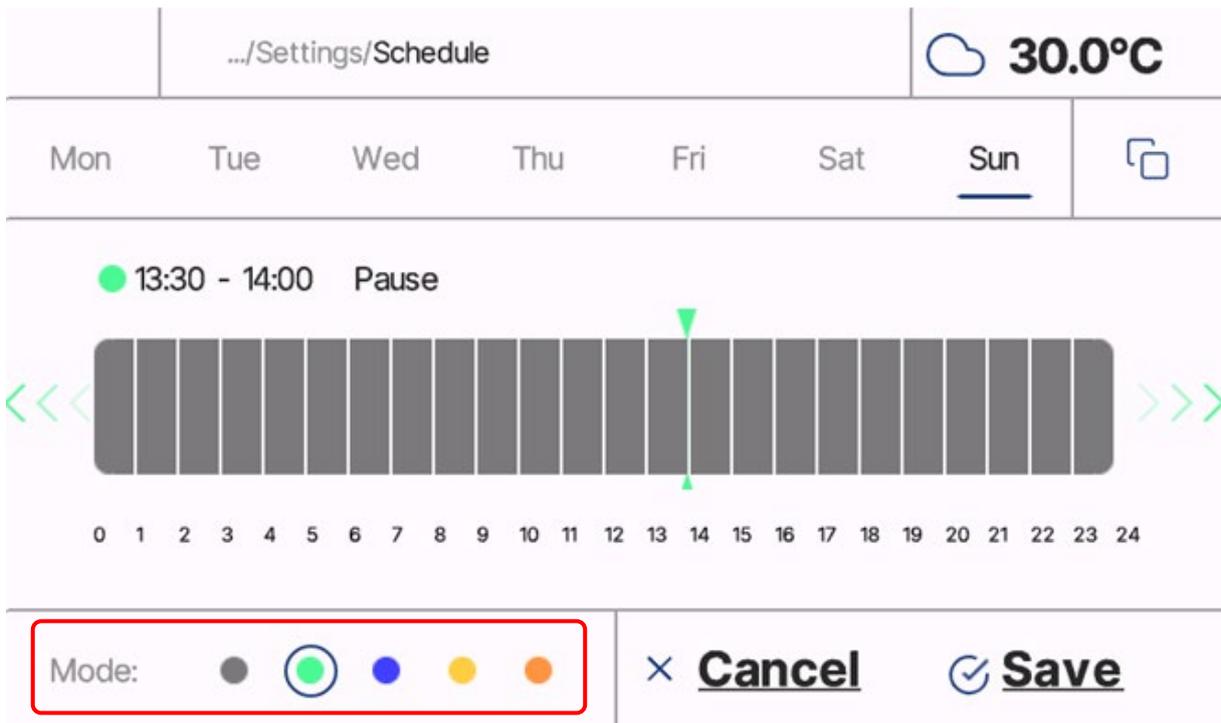
# Operating instructions



At the top right of the screen, there is a button that allows the schedule settings to be copied between selected days of the week.
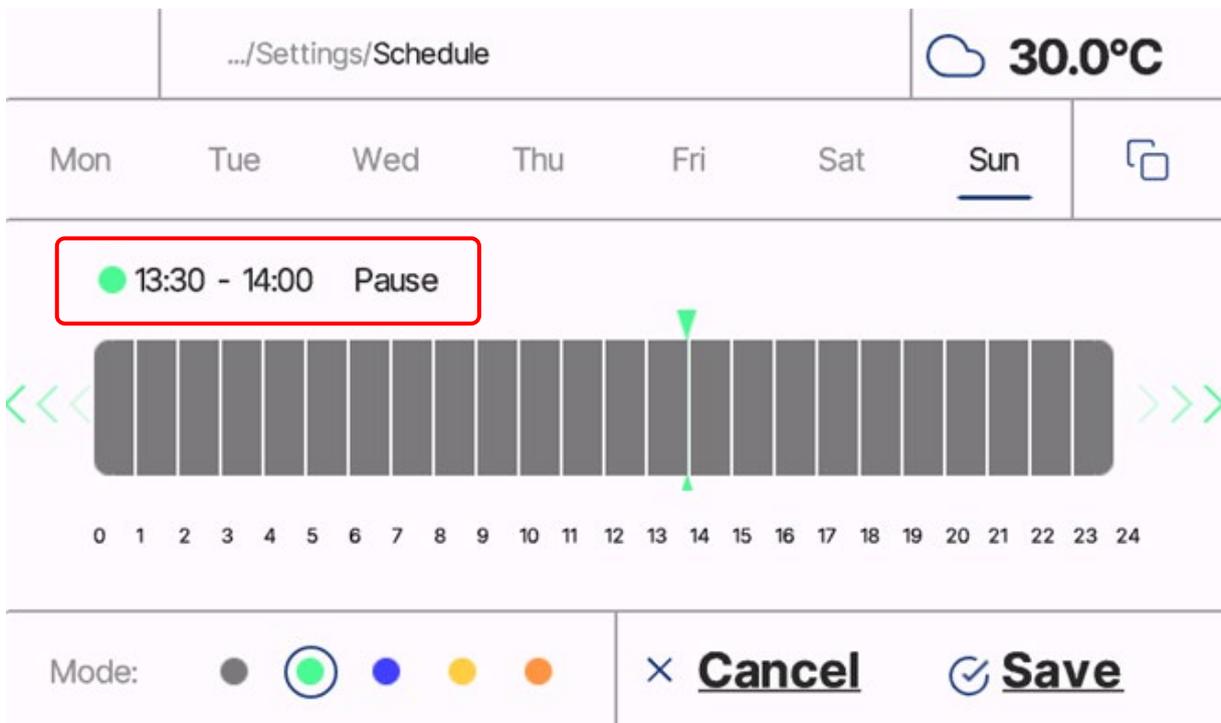


At the bottom of the screen is the mode selection.

# Operating instructions



- White colour - Deletion of current interval

- Green colour - Pause setting

- Blue colour - Gear 1 setting
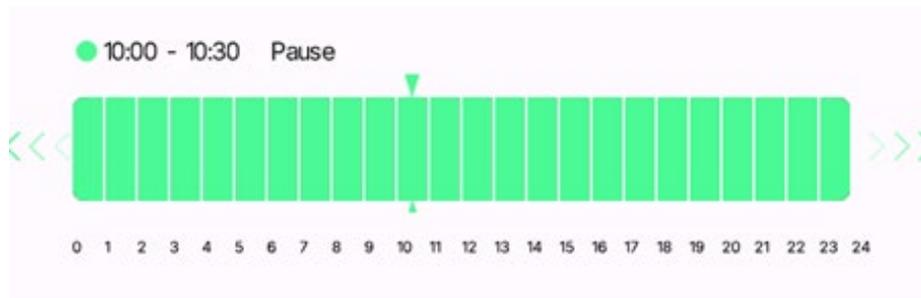
- Yellow - Gear 2 setting

- Orange - Gear setting 3

The currently selected mode is displayed in the central part of the screen
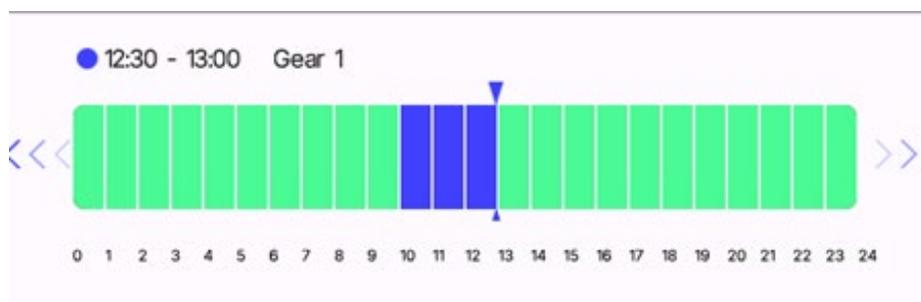


Setting the schedule for the day

# Operating instructions

- Select the day of the week at the top of the screen

- In the central part of the screen, select the start time of the respective mode



- In the lower part of the screen, select the operating mode

- Use the arrows at the far end of the screen to move the indicator



- More than one interval can be set in one day (maximum 5), to set the next interval, move the pointer to the desired time.



- Then use the arrows to move the indicator again



To copy the settings of a particular day, click the button in the top right corner. A message about copying schedules will appear in the centre of the screen.

# Operating instructions

## 5.3. GHE (ground heat exchanger)

The tile takes the user to the settings screen for the ground heat exchanger, which uses the ground temperature to preheat or cool the air
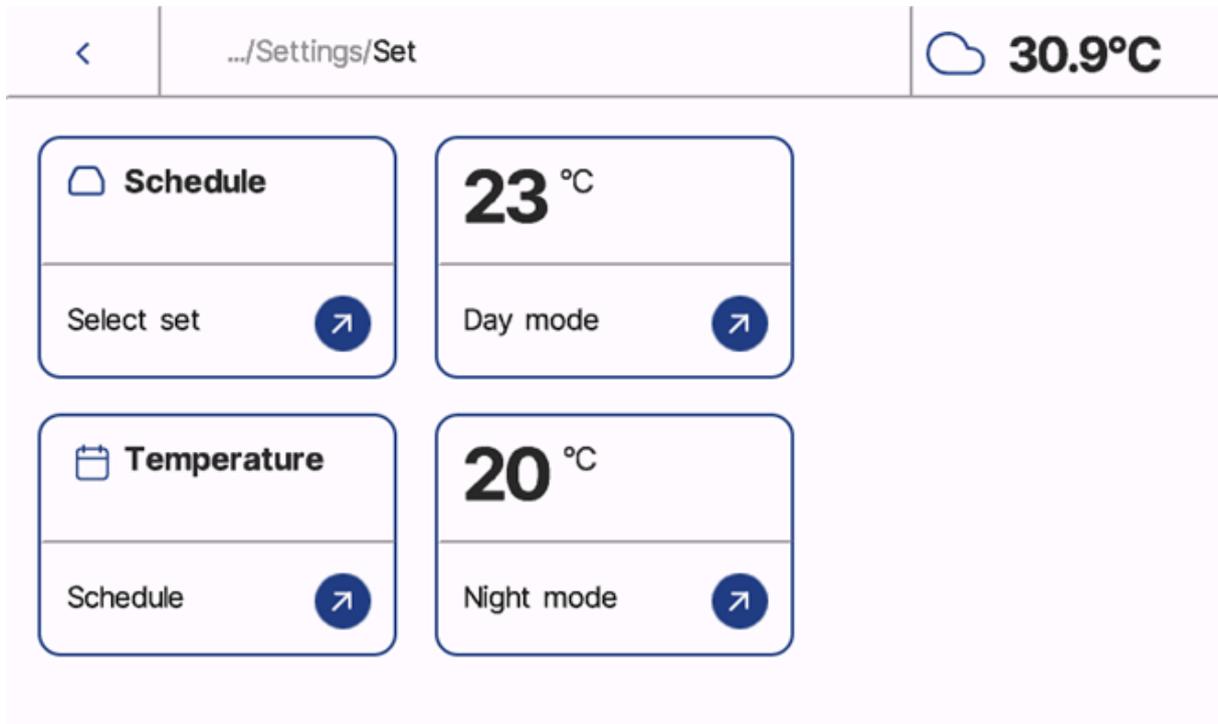


**GHE Works Permit Tile**

The tile allows you to enable or disable the operating permission for the GHE damper. In the absence of permission to operate, the GHE damper will remain closed regardless of the settings.

**Tile Summer Opening**

Tile for determining the opening temperature of the GHE in cooling mode

**Tile Winter Opening**

Tile to determine the opening temperature of the GHE in heating mode

**The Control tile** allows the GHE control to be selected, with a choice of:

- Close - GHE damper remains closed, regardless of conditions

- Open - GHE damper remains open, regardless of conditions

- Auto - the controller decides whether to open or close the actuator based on the temperatures

## 5.4. Regeneration

The tile takes the user to the GHE regeneration settings

# Operating instructions
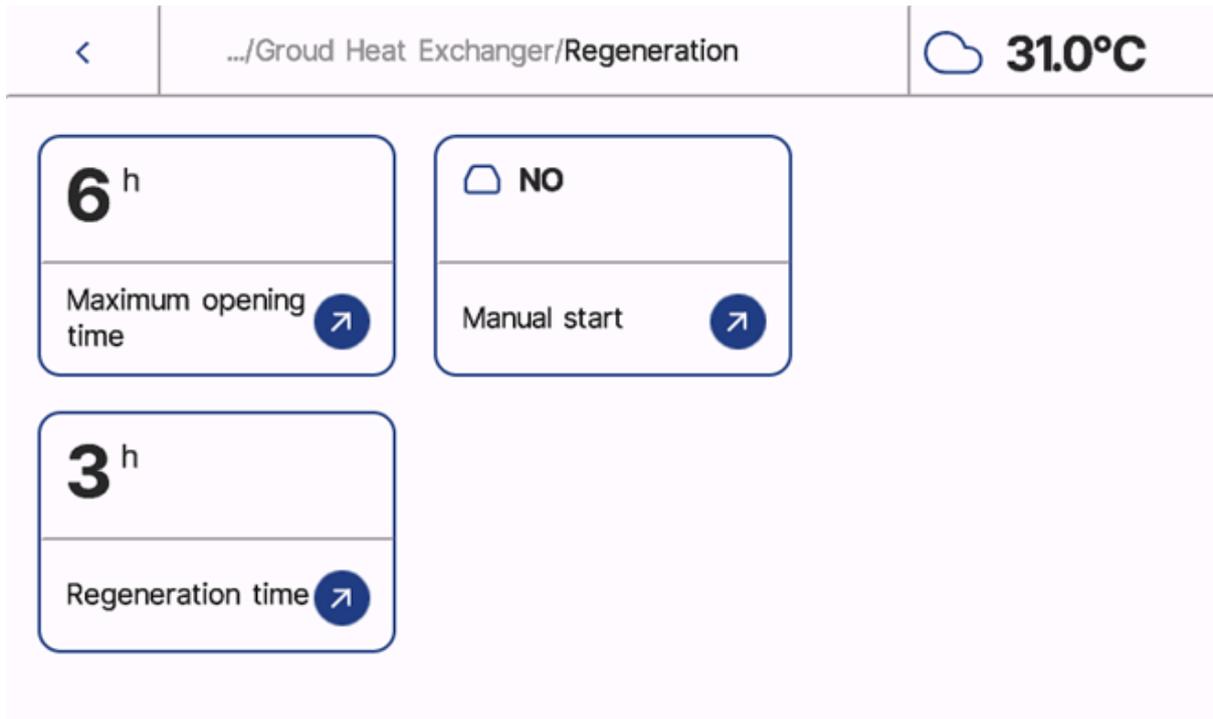


## Maximum opening time

A tile that allows the maximum GHE damper opening time to be specified. After this time, the GHE regeneration procedure will be started.

## Manual start-up

A tile that allows the manual start of regeneration without waiting for the temperature and time condition to be met

## Recovery time

A tile that allows the duration of GHE regeneration to be specified. During regeneration, the GHE damper remains closed.

### 5.5.    Desired temperature

The tile takes the user to the setpoint temperature editing screen. The set temperature is the user-set comfort temperature that the air handling unit aims to maintain.
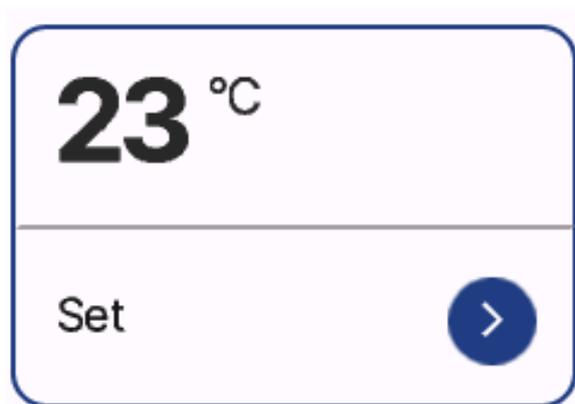


Elements of the setpoint temperature screen

# Operating instructions
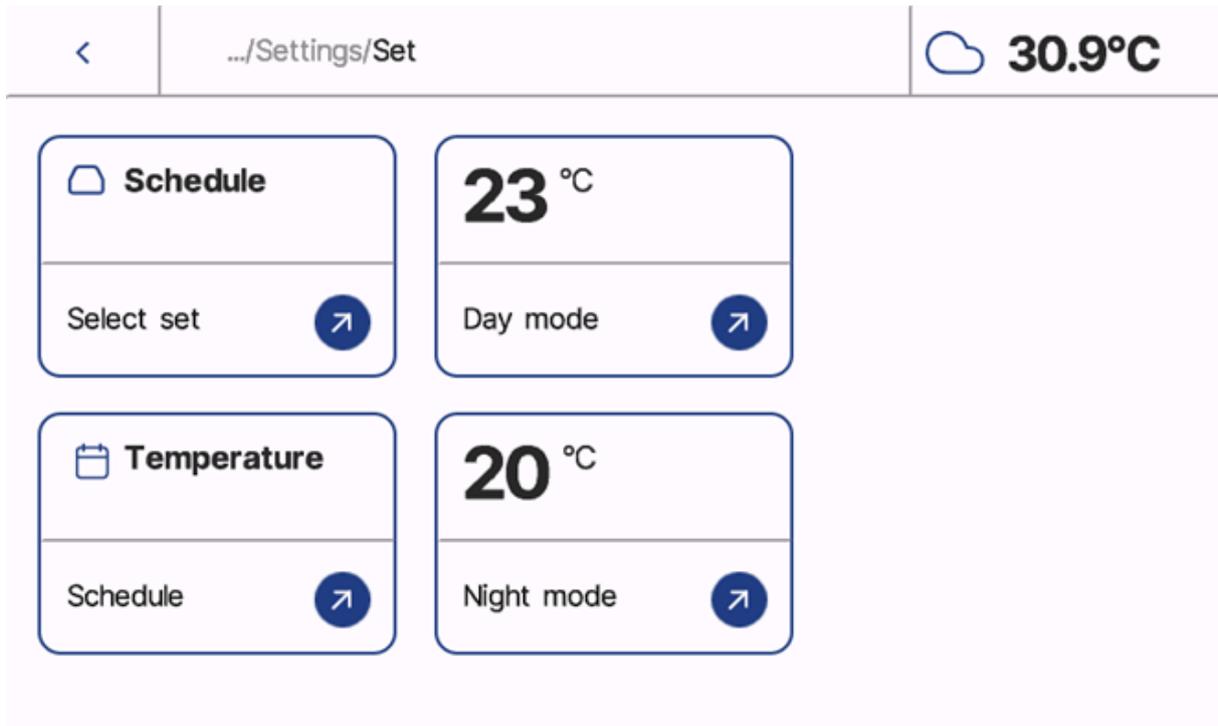


**Setpoint selection tile**

Allows selection of the desired temperature

      - Schedule - temperature selection depends on the schedule settings.

      - Day - sets the day temperature

      - Night - sets the night temperature

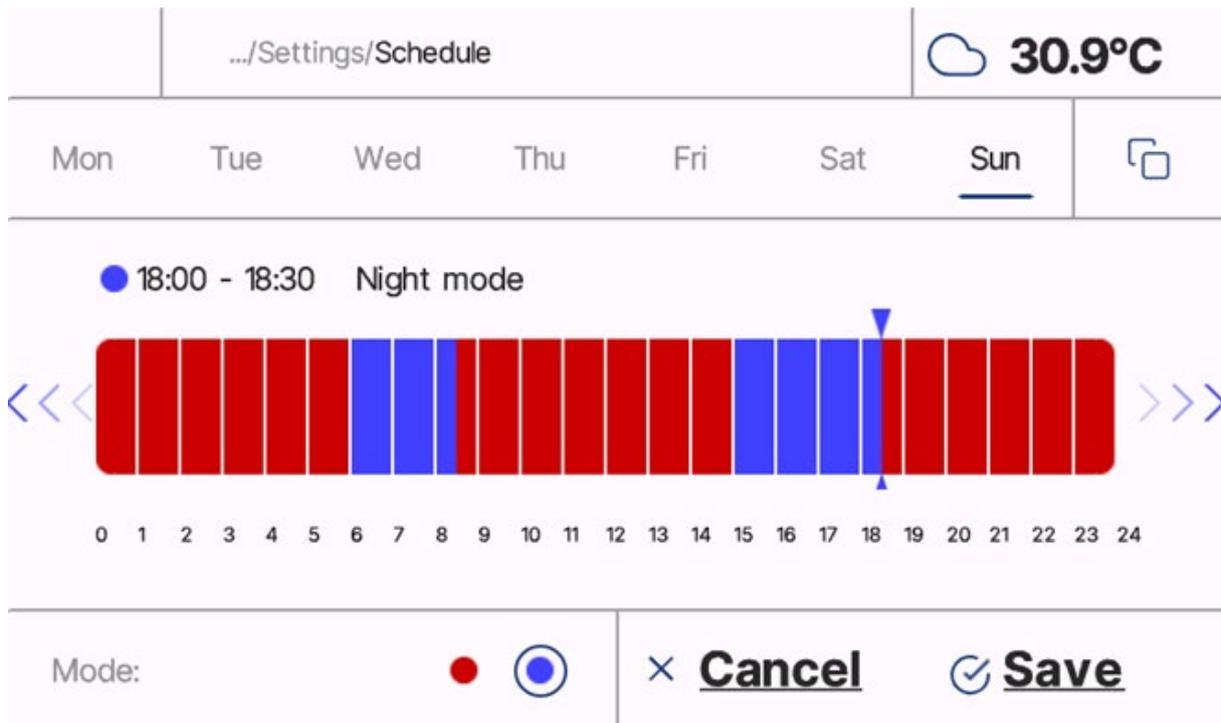**Tile Day**

Allows selection of daytime temperature

**Tile Night**

Allows selection of night temperature

**Temperature schedule tile**

Takes the user to the operating schedule setting screen. The temperature schedule is set in the same way as the mode schedule.

# Operating instructions



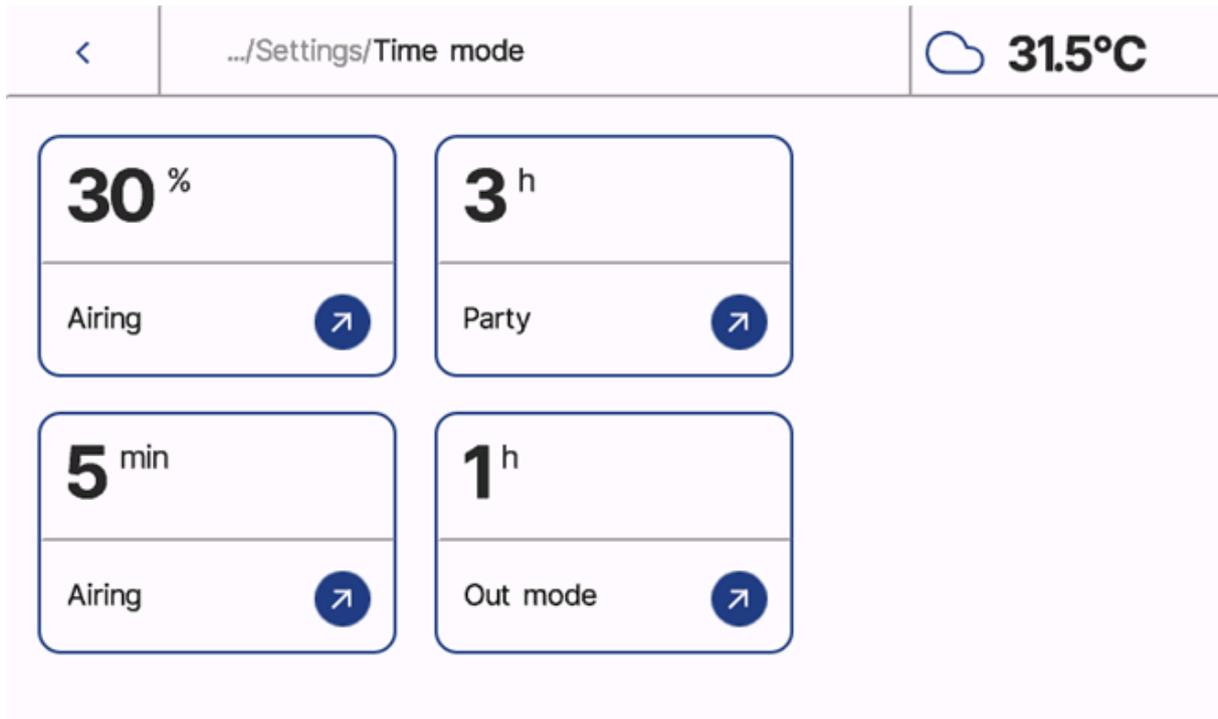- Red - day temperature

- Blue - night temperature

## 5.6. Time mode

The tile takes you to the time mode settings edit screen
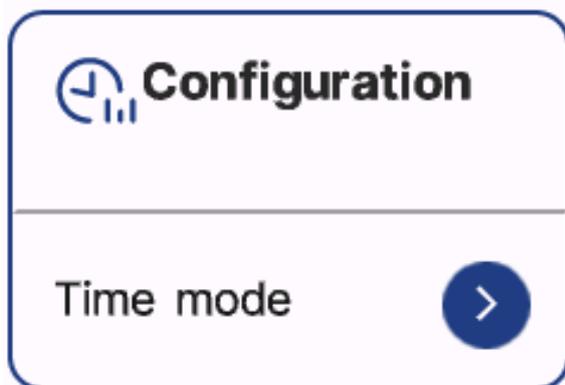


Elements of the screen for editing time mode settings

# Operating instructions



Tile weathering

Allows the ventilation duration to be edited and the ventilation fan to be controlled. The ventilation duration is set in minutes.

Tile Party

The party mode duration can be edited. The party mode time is set in hours.

Output tile

Allows the exit mode duration to be edited. The exit mode duration is set in hours.

## 5.7.    Bypass

Allows the bypass damper mode to be selected

- Open - regardless of conditions the bypass will be open

- Closed - regardless of conditions the bypass will be closed

- Auto - bypass will be triggered when the temperature conditions are met.
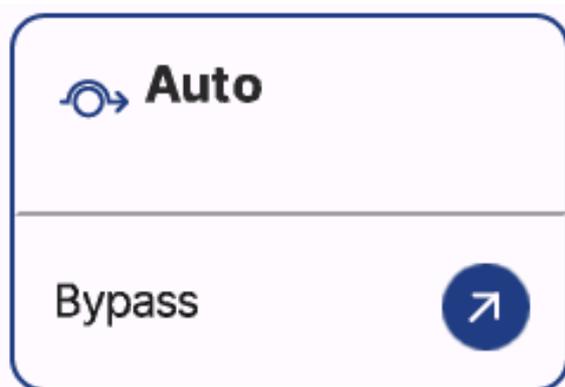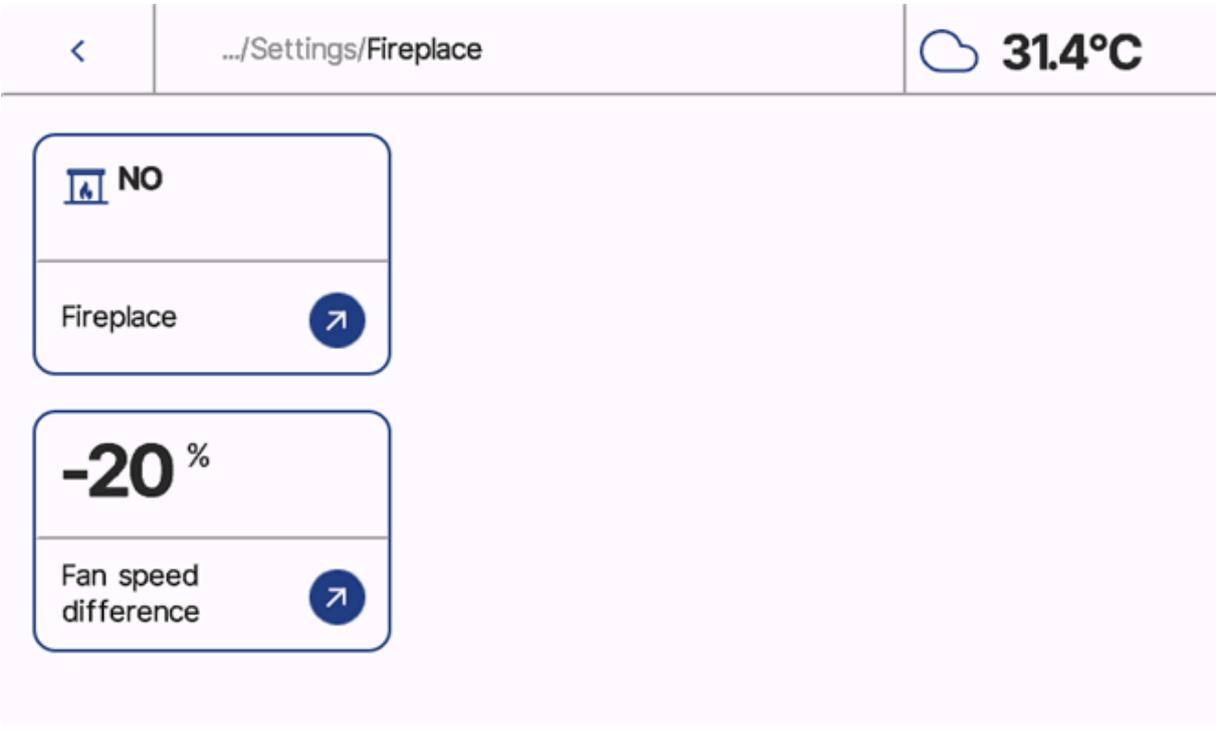
# Operating instructions

### 5.8. Fireplace

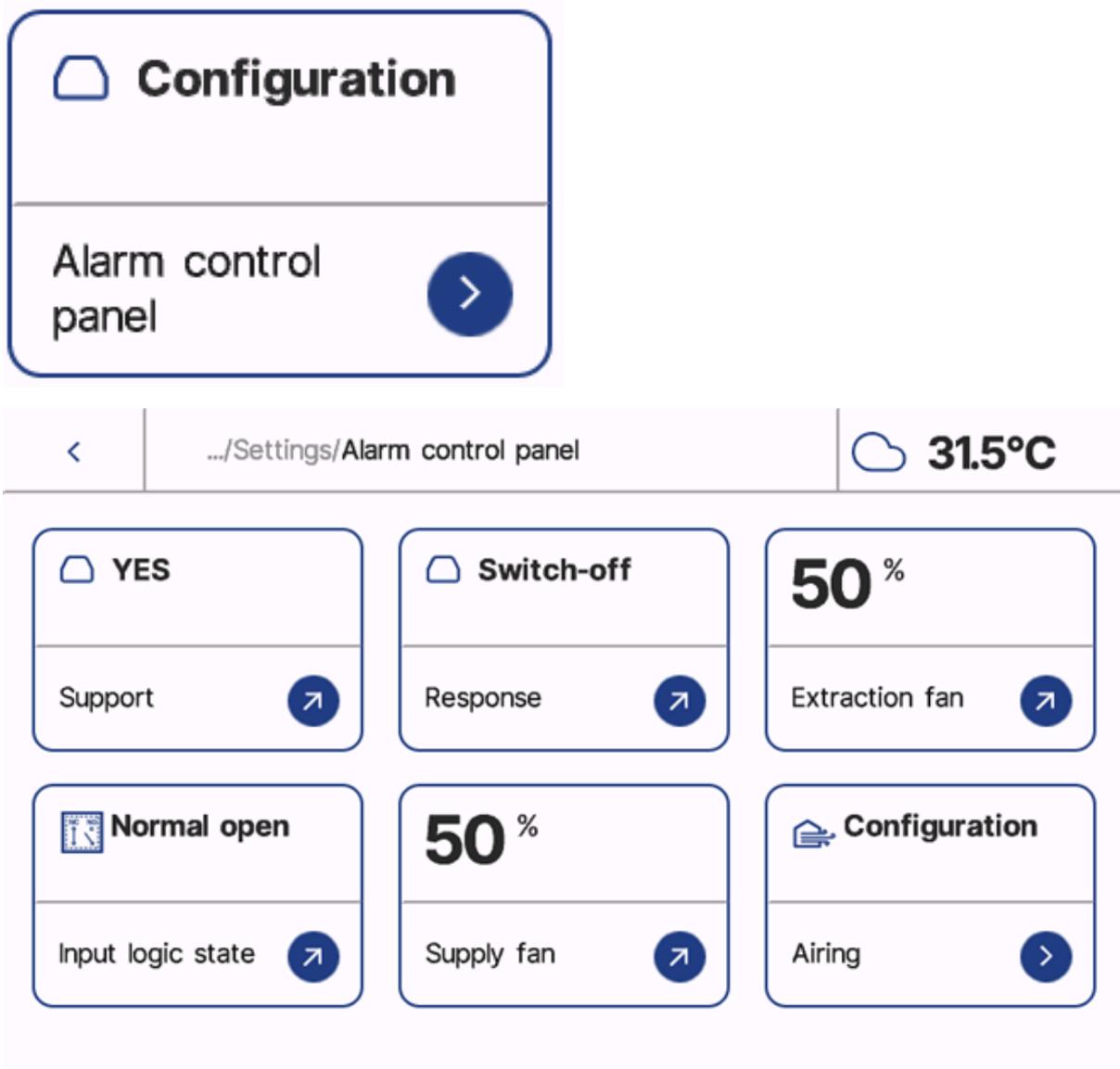Takes you to the edit screen for the Fireplace mode.



The edit screen allows you to activate the fireplace mode and set the fan speed difference. The exhaust fan operation will be modified by the set value.



### 5.9. Control panel

Moves to control panel settings

# Operating instructions





**Tile Operation**

Allows the control panel to be activated. After receiving a signal from the input to which the control panel is connected, the recuperator will change the fans' control or switch them off completely, depending on the settings.

**Tile Response**

Allows you to select the reaction of the recuperator to the signal from the control panel. Possible modes to choose from are Change fan speed and Fan off.

**Tile Fan Exhaust**

Allows selection of the exhaust fan control in the reaction mode Change of speed

**Tile Logical input status**

Allows selection of the default logical state of the input

**Tile Fan Supply**

Allows selection of supply fan control in response mode Speed change

# Operating instructions

**Tile Ventilation**

Tile only active in response mode Off. Takes you to the settings edit screen for the additional Venting function. This function is only available in Fan Off mode.

Screen for editing ventilation mode
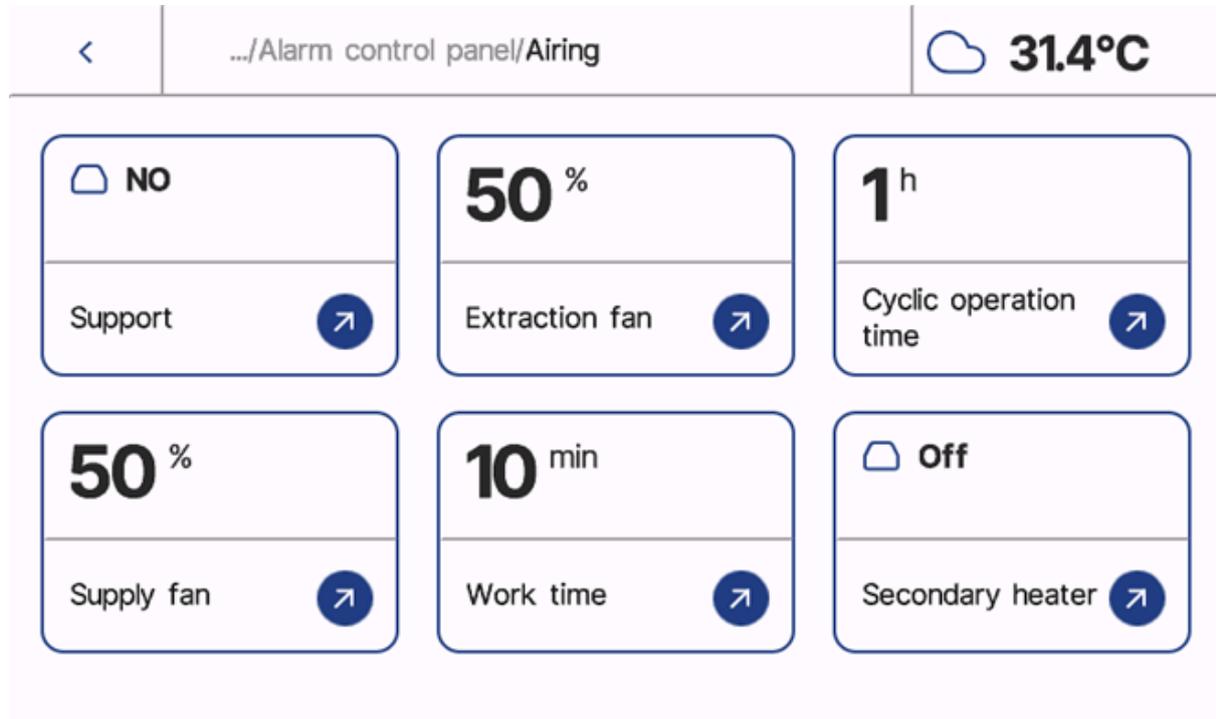


**Tile Operation**

Enables operation of the Ventilation mode

**Tile Fan Exhaust**

Allows selection of the exhaust fan control during ventilation

**Tile Cycle time**

Enables selection of the time after receipt of the signal from the control panel for activation of Ventilation mode.

**Tile Fan Supply**

Allows selection of supply fan control during ventilation

**Tile Duration**

Allows selection of duration Venting

**Tile Secondary heater**

Allows the secondary heater to be enabled during ventilation

## 5.10. Radiator

The tile allows the work permission for the cooler to be switched on or off. If work permission is not enabled, the cooler will remain disabled regardless of the settings.
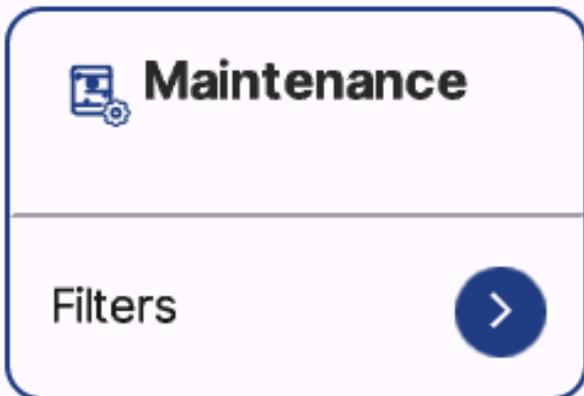
# Operating instructions
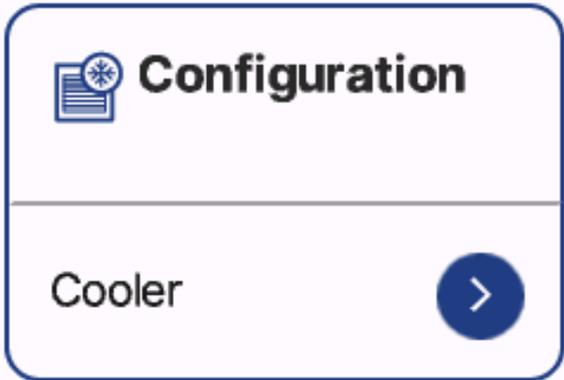


## 5.11. Secondary heater

Enables the secondary heater to be enabled. The secondary heater provides additional air heating in the event of low external temperatures. If there is no operating permission, the secondary heater will remain switched off regardless of the settings.
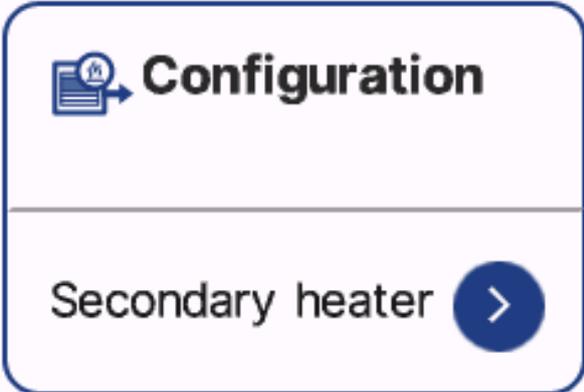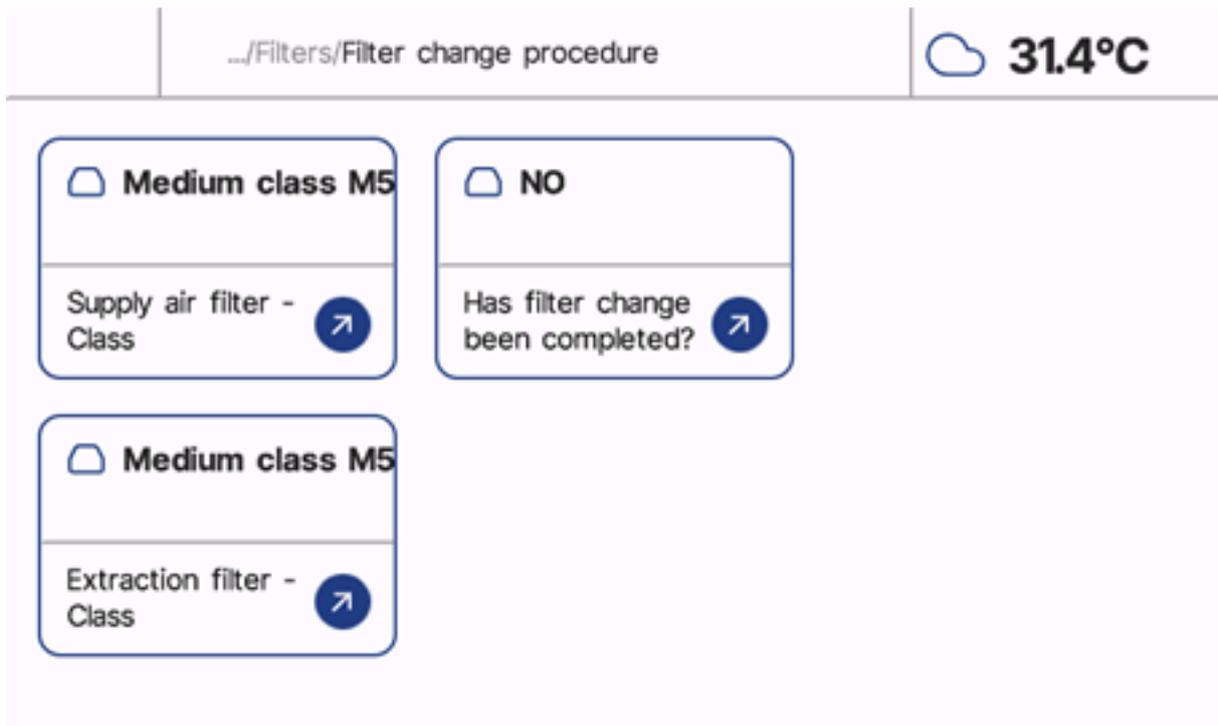


## 5.12. Filters

Takes you to the Filter settings screen



Filter settings editing screen

# Operating instructions

Medium class M5

Supply air filter - Class

NO

Has filter change been completed?

Medium class M5

Extraction filter - Class

**Supply air filter reset tile**

Resets the operating time of the supply air filter

**Extract filter reset tile**

Resets the operating time of the exhaust filter

**Tile Enforce exchange prodcedure**

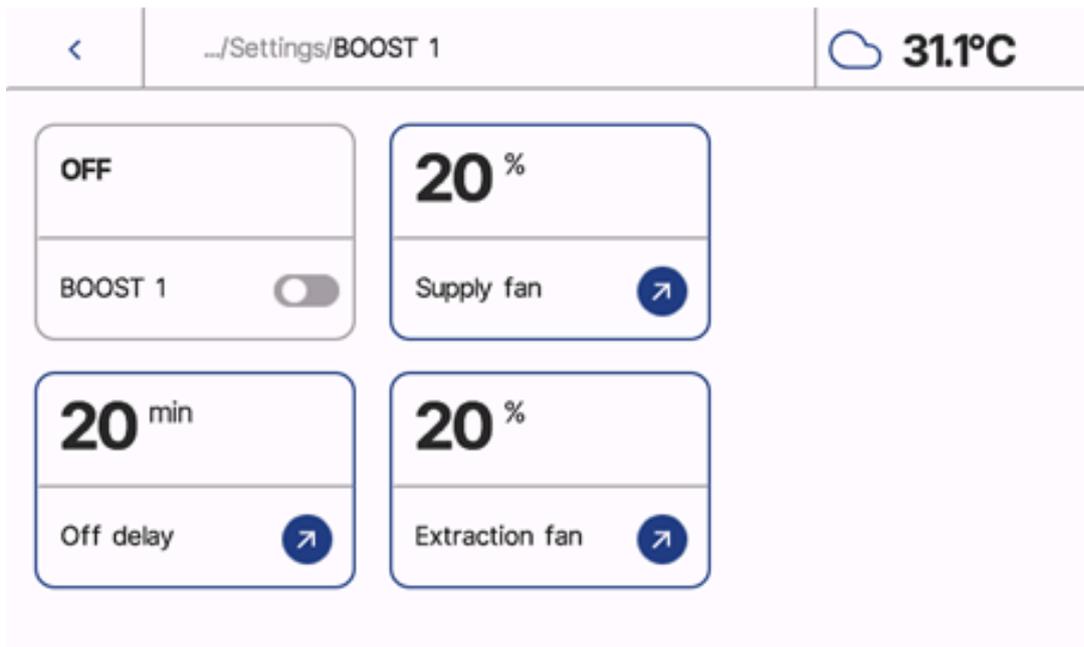Enables the filter replacement procedure to be enforced The filter replacement process using the panel

## 5.13. BOOST

Takes you to the BOOST mode settings screen.

Configuration
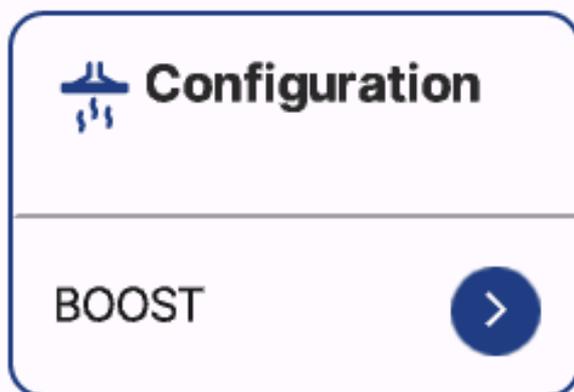
BOOST

BOOST 1 / BOOST 2 mode settings screen Both modes have the same settings tiles.

# Operating instructions



- BOOST 1 / BOOST 2 - Activates BOOST mode

- Switch-off delay - Setting of BOOST mode delay time after activation by signal

- Supply fan - Allows you to set the supply fan control during active mode

- Extract fan - Allows you to set the control of the extract fan during active mode

## 6. Panel Setup screen
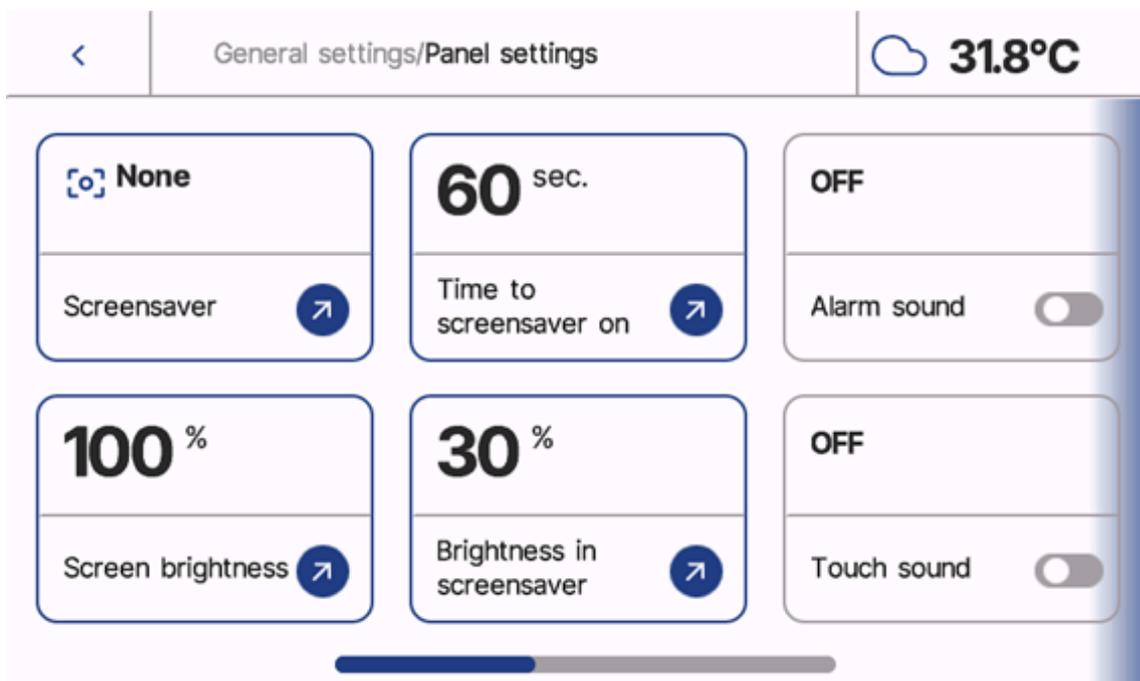


### 6.1.  Screen saver

When pressed, it takes you to the screen for selecting the screen saver mode.

# Operating instructions

- None - the panel returns to the home screen when the Time to Expire expires.

- Clock and temp - once the time to blank has elapsed, the screen will display the current leading temperature along with the current time. The brightness of the screen can be adjusted using the Screensaver Brightness tile Appearance of the screen with clock and temperature:



-Eco - When the time to blank has elapsed, the screen will switch off, waking up when activity is detected on the panel.

### 6.2.   Time to expiry

Allows the user to adjust the time to activate the selected extinction mode.

### 6.3.   Brightness of the screensaver

Allows the user to adjust the brightness of the screensaver in mode: Clock and temperature

### 6.4.   Alarm sound

Enables activation of the reaction to alarm activation. While the alarm is active, the panel will signal this with a sound. Alarm signalling is active while the main screen is displayed and while the screensaver is running.

### 6.5.   Key sound

Enables audible response to screen touch

### 6.6.   Language

Allows the language of the panel to be changed

### 6.7.   Clock

Allows the date and time to be changed. Editing is only possible when the Internet module is deactivated.

# Operating instructions

## 7. Wi-Fi Settings screen
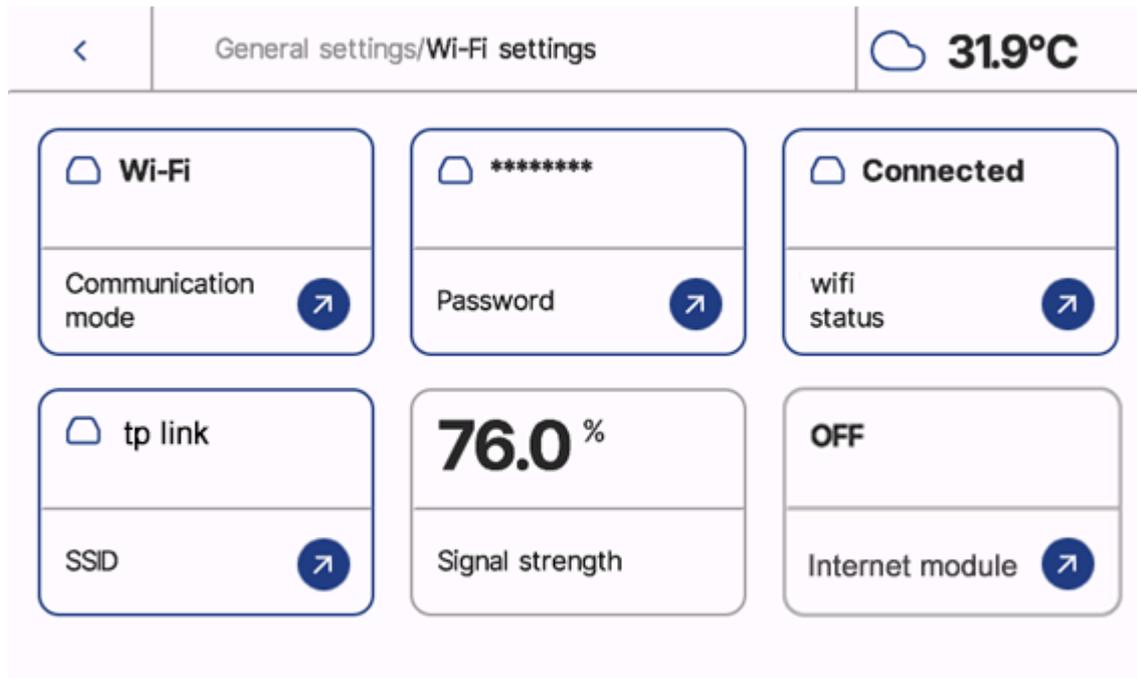


### 7.1.  Connection type

The tile allows the type of communication of the panel to be selected. The panel allows communication via WiFi and Bluetooth.

### 7.2.  SSID

The tile allows you to enter the SSID of your Wi-Fi network.

### 7.3.  Password

The tile allows you to enter your Wi-Fi password.

### 7.4.  Signal strength

Information tile - indicates Wi-Fi signal strength

### 7.5.  Status

The tile takes you to the Wi-Fi module information screen

### **7.6.  Internet module**

Responsible for activating the internet module in the panel When the HRQ-BUT-PG15 panel is connected to the panel unit together with the HRQ-BUT-LCD-P5 panel, the internet module of the LCD panel should always be set to OFF

# Operating instructions
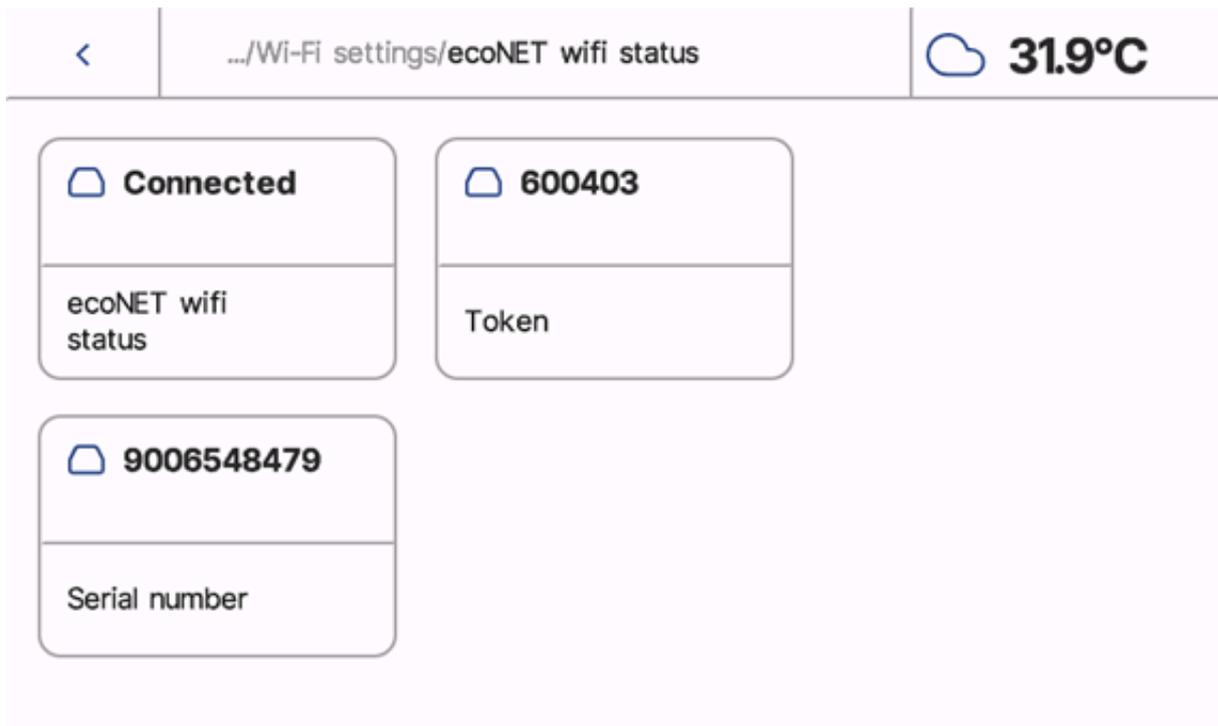


**Token**

Displays the time-generated password required to add an installation to the AlnorAIR service

**Factory number**

Displays the unit serial number required to add the installation to the AlnorAIR service.

## 8. Alarms screen

Alarm list view

# Operating instructions

The alarm consists of 4 parts:

- E9 - Error code

- Defective intake sensor - Error title

- 06.08.24 13:42:58 - Date and time of start of alarm

- 06.08.24 13:48:20 - Date and time of the end of the alarm. If the alarm is still active a "- " sign is displayed here.



**Detailed view of alarms**

Clicking on an alarm takes the user to a detailed view of the alarms, which shows an extended description of the alarm. Using the arrows in the lower corners of the screen, you can switch views between individual alarms.
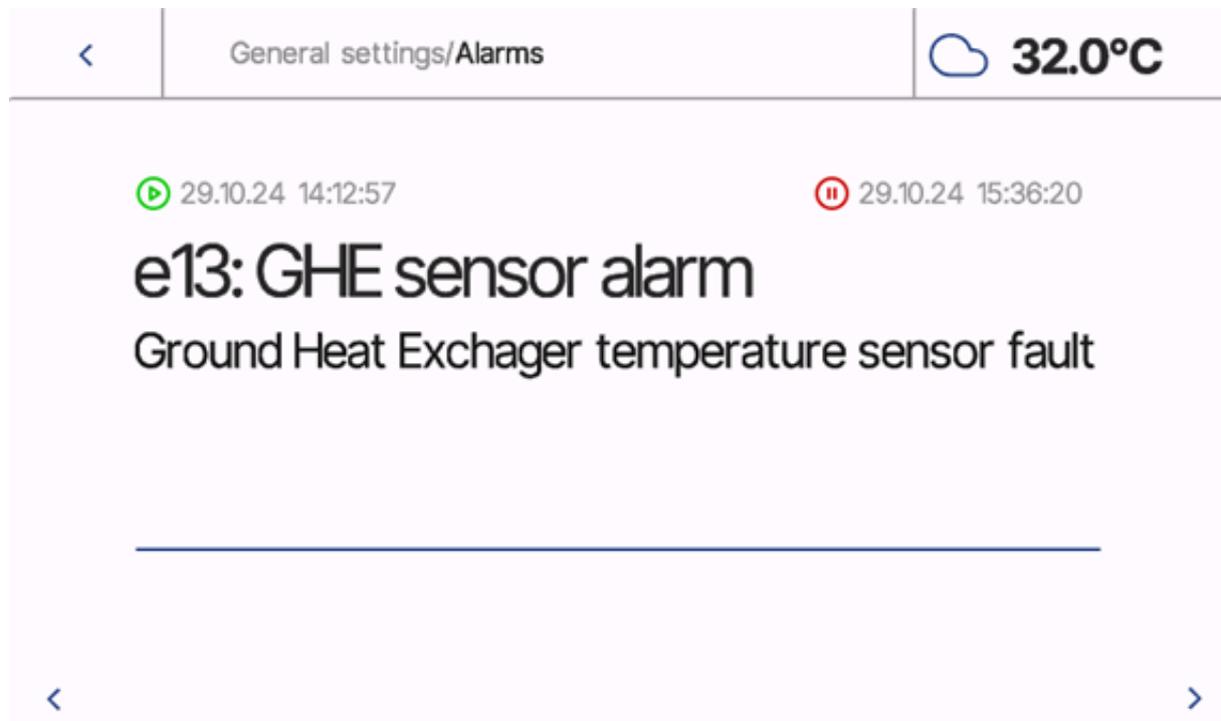
# Operating instructions

## 9. Device configuration for AlnorAir system

To configure the connection of the HRQ-LCD-P5 panel to a WIFI network, a device with Android or iOS and internet access is required.

As a user, it is necessary to download the AlnorAIR app available on the AppStore or Google Play.
For service users, download the AlnorServiceAir app available on the AppStore or Google Play.

**AlnorAIR**

**AlnorServiceAIR**

Configuration of the connection to the WIFI network should follow the guidelines below. User invited by the installer
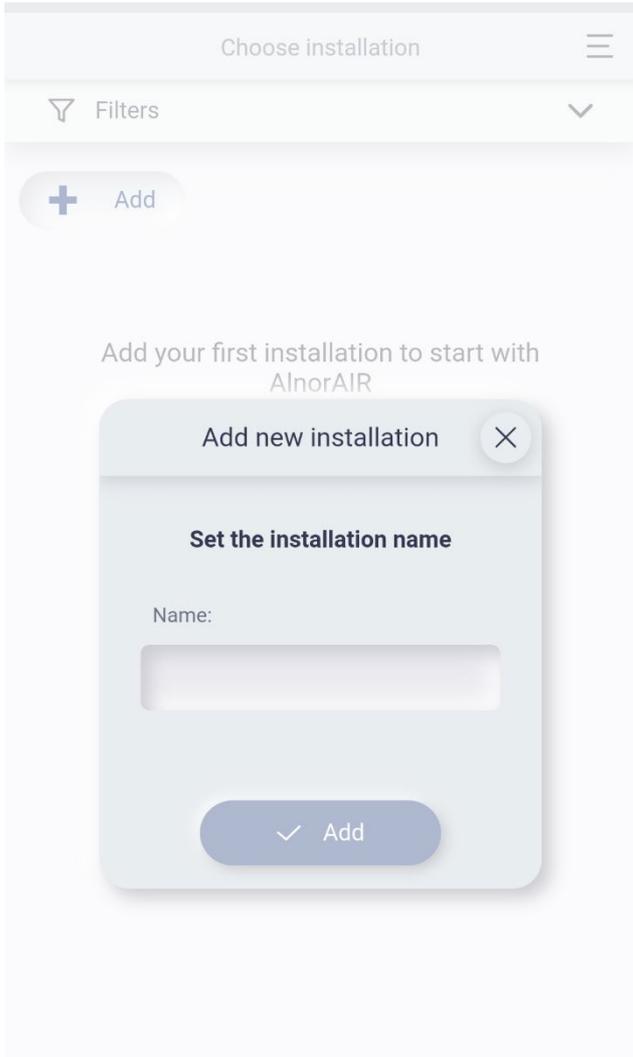
# Operating instructions

1.) If you have received an invitation to use the AlnorAIR installation, please click on the activation link in the email. The activation link takes you to the account registration page if you have not previously created an account. Otherwise it takes you to an existing account.



2.) Then, after logging in to the AlnorAIR application, accept the invitation to add the installation.
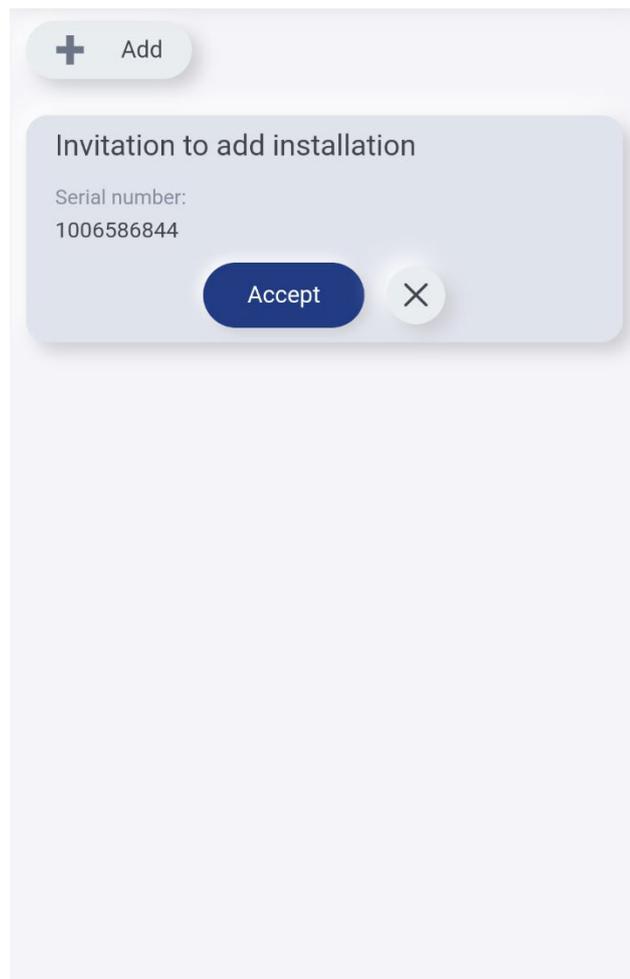
# Operating instructions

3.) Once you have accepted the invitation to apply, you will need to name the installation your own name
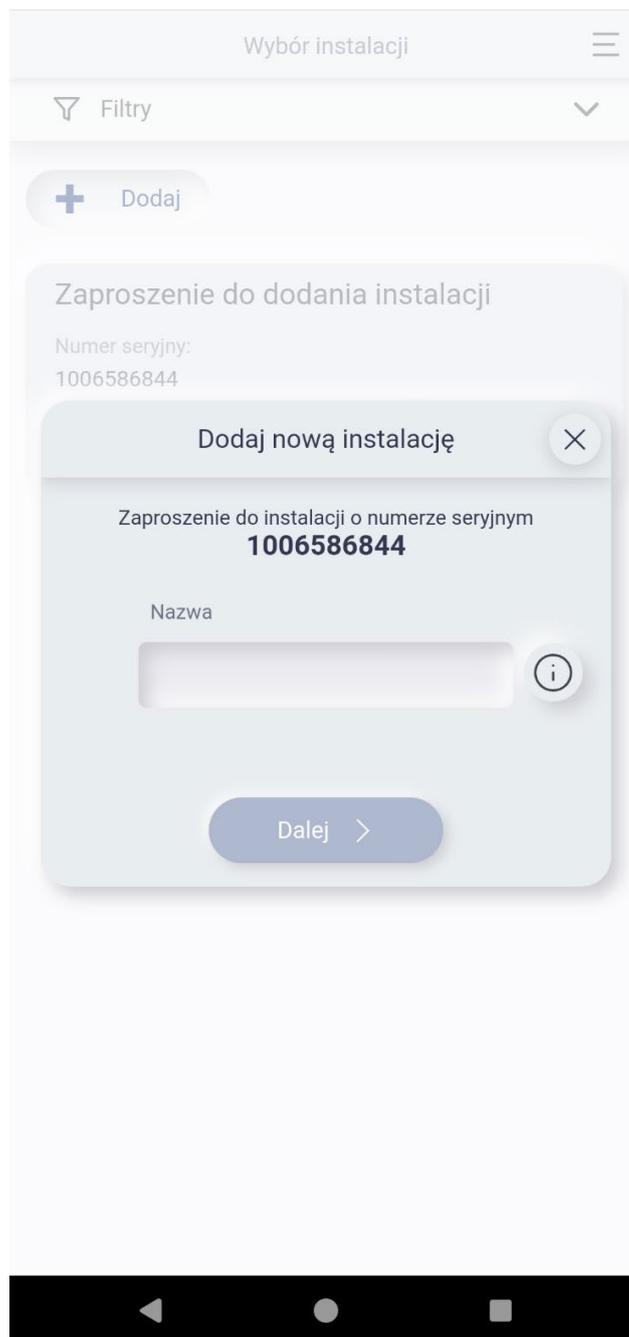
# Operating instructions

4.) Once the device has been successfully configured, confirm the configuration process with the "OK" icon. If the gateway had a previously configured Wi-Fi network switch it to Wi-Fi mode. Otherwise, leave the gateway in Bluetooth mode and follow the steps below.
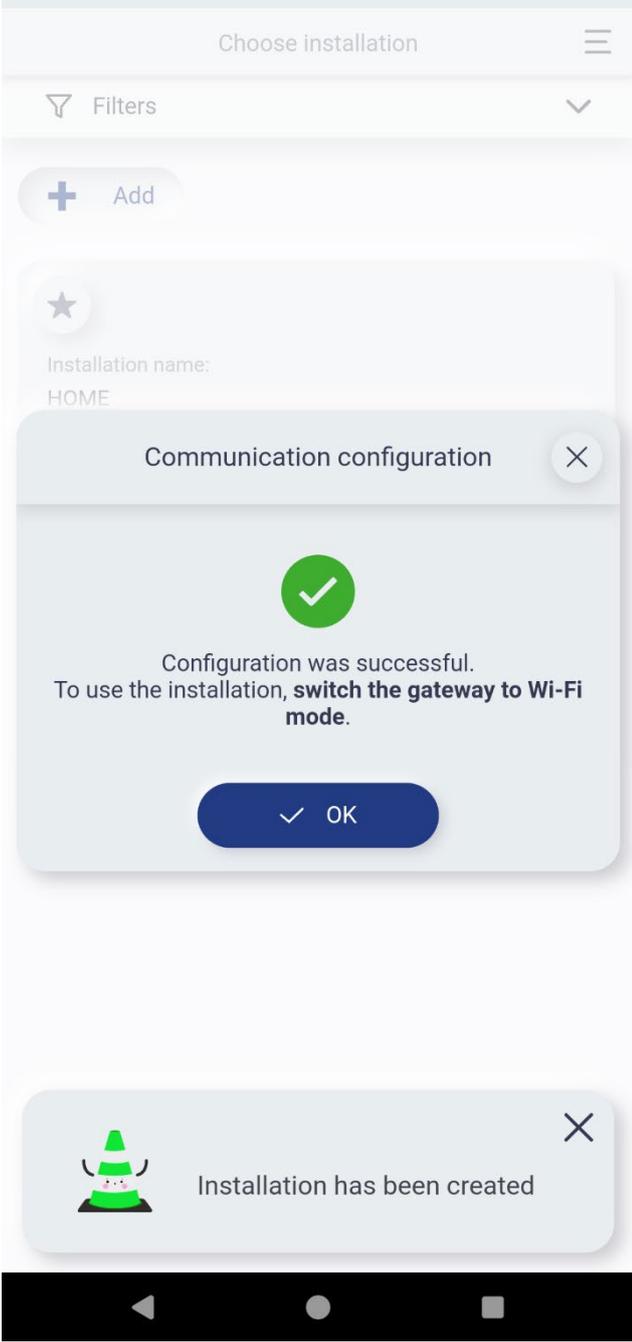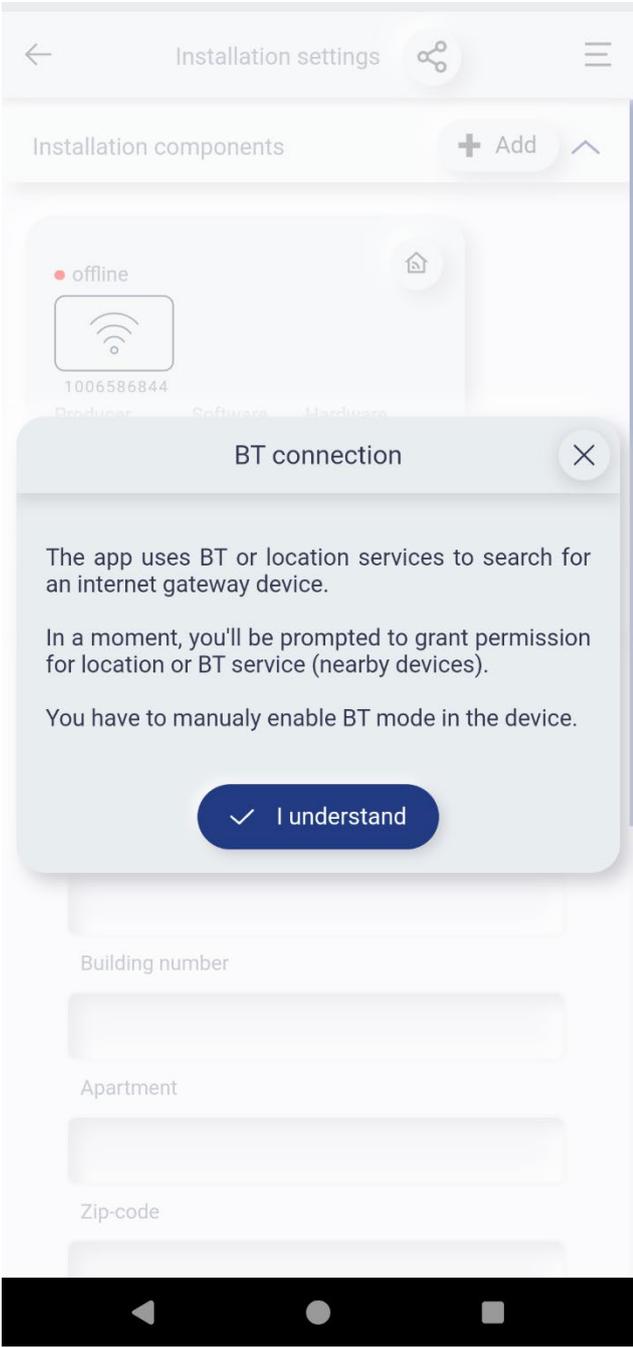
# Operating instructions

5.) Select the most recently added installation

Choose installation ☰

▽ Filters ⌄

➕ Add

★

Installation name:
Home

Serial number:
1006586844

State:
No alarms

Connection:
● online

Open
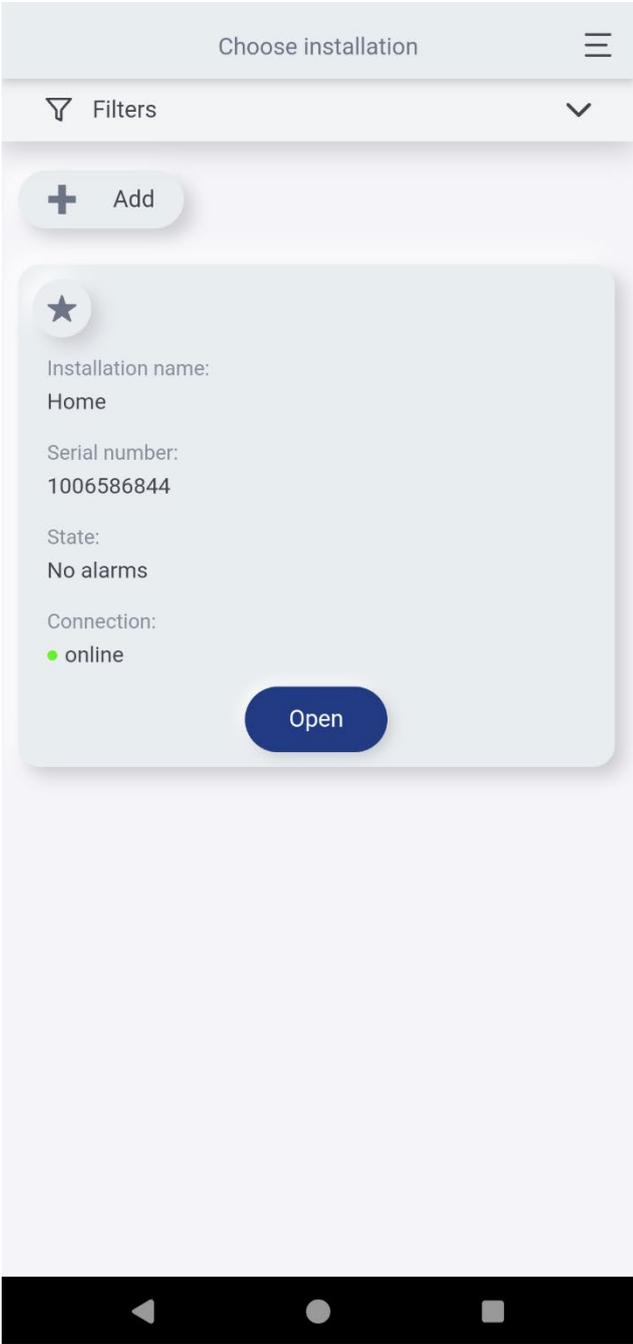
# Operating instructions

6.) Select "Wi-Fi Settings"
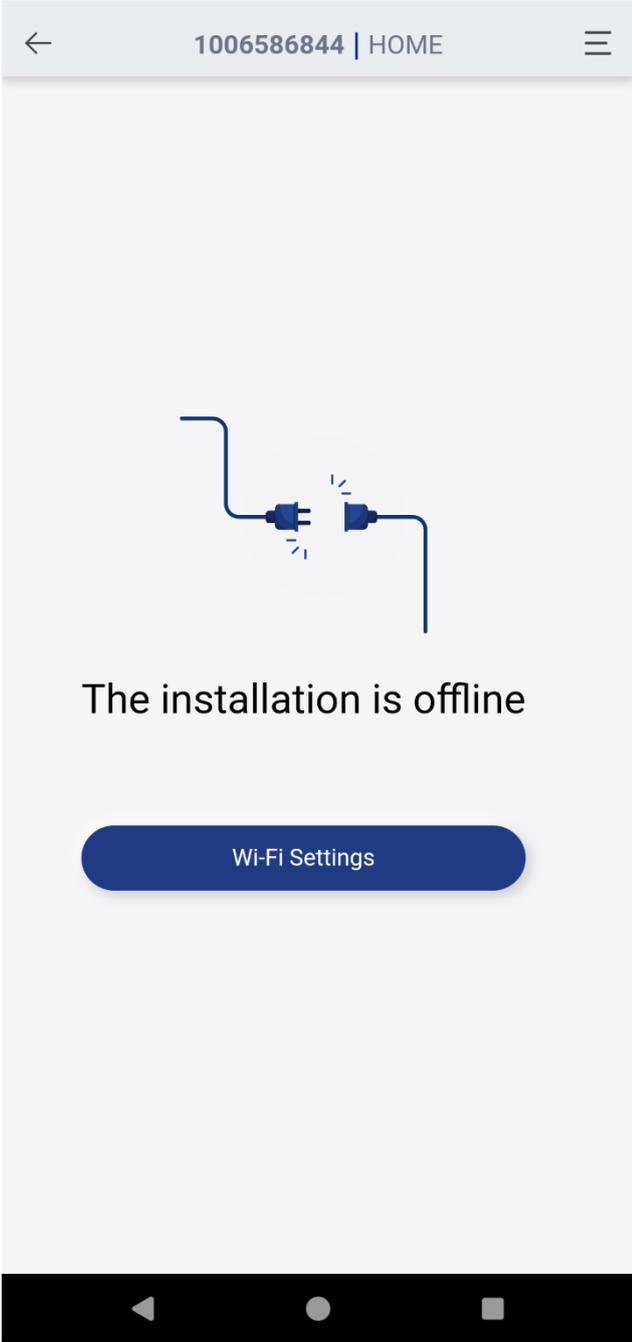
# Operating instructions

7.) Allow the application to access Bluetooth functions on the device

# Operating instructions

8.) Once the Bluetooth function of the device is accessed, a device search will begin.
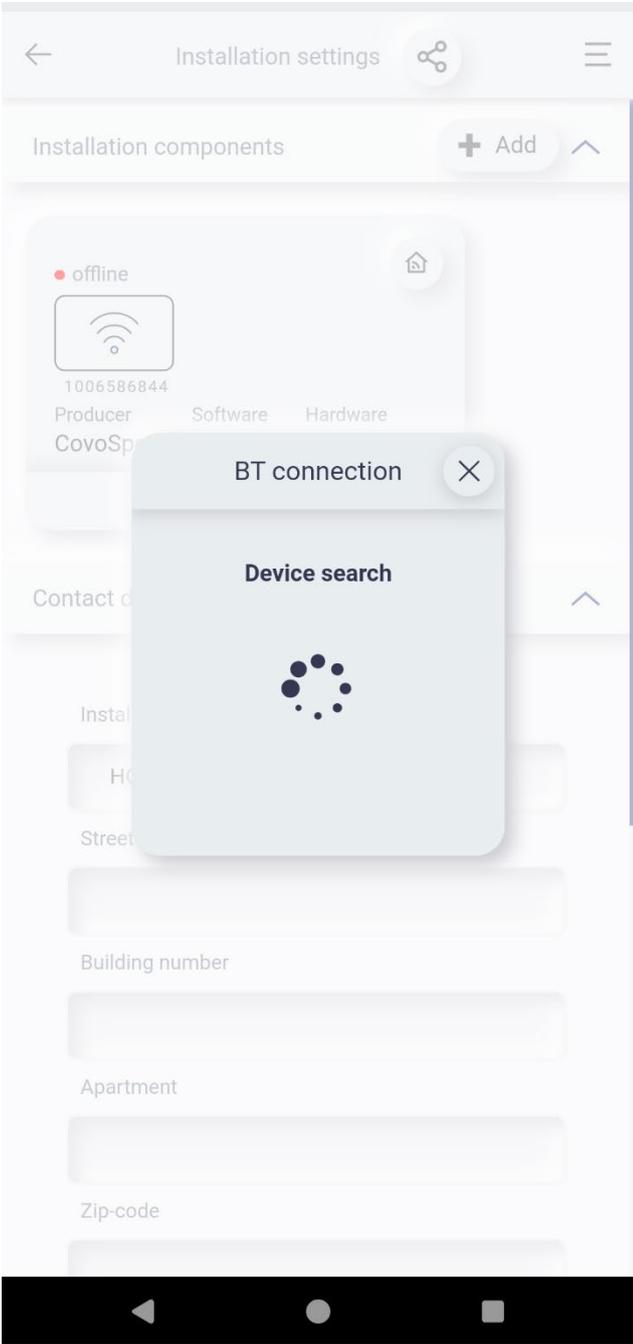


**Note:** If your device is not found, check that the gateway is in Bluetooth mode.

# Operating instructions

9.) Confirm device found
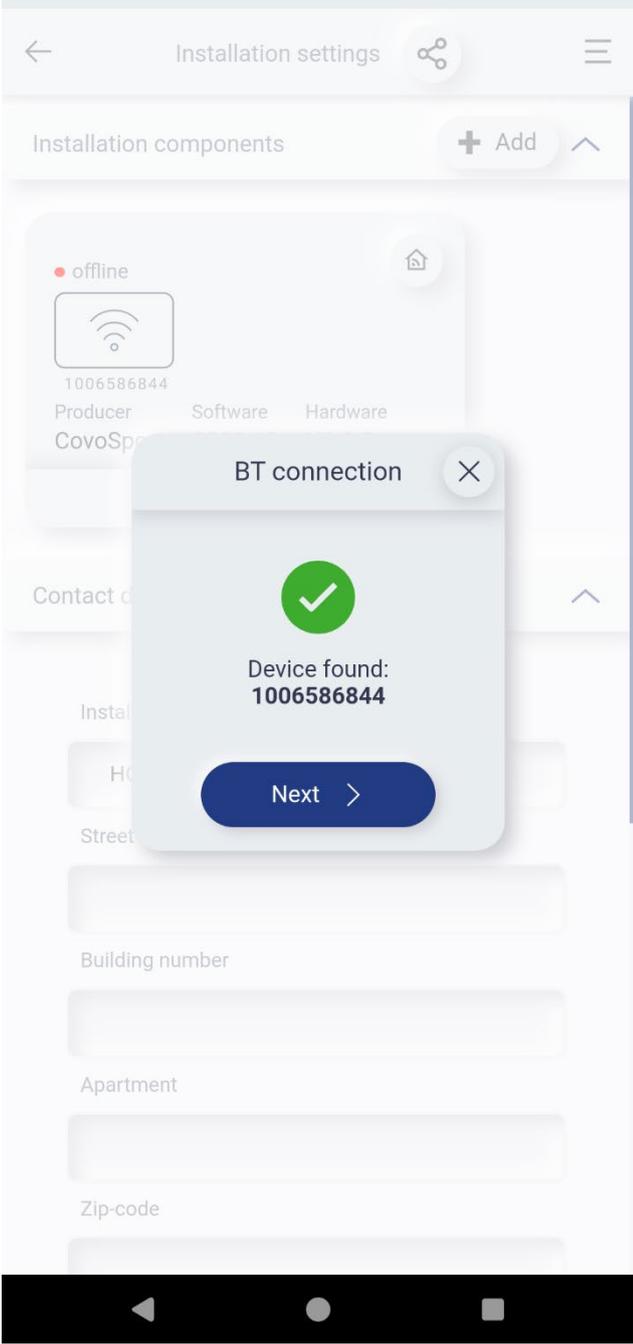
# Operating instructions

10.) Enter the SSID, and password in the Wi-Fi configuration. After confirming the configuration, the gateway will automatically switch to Wi-Fi mode.
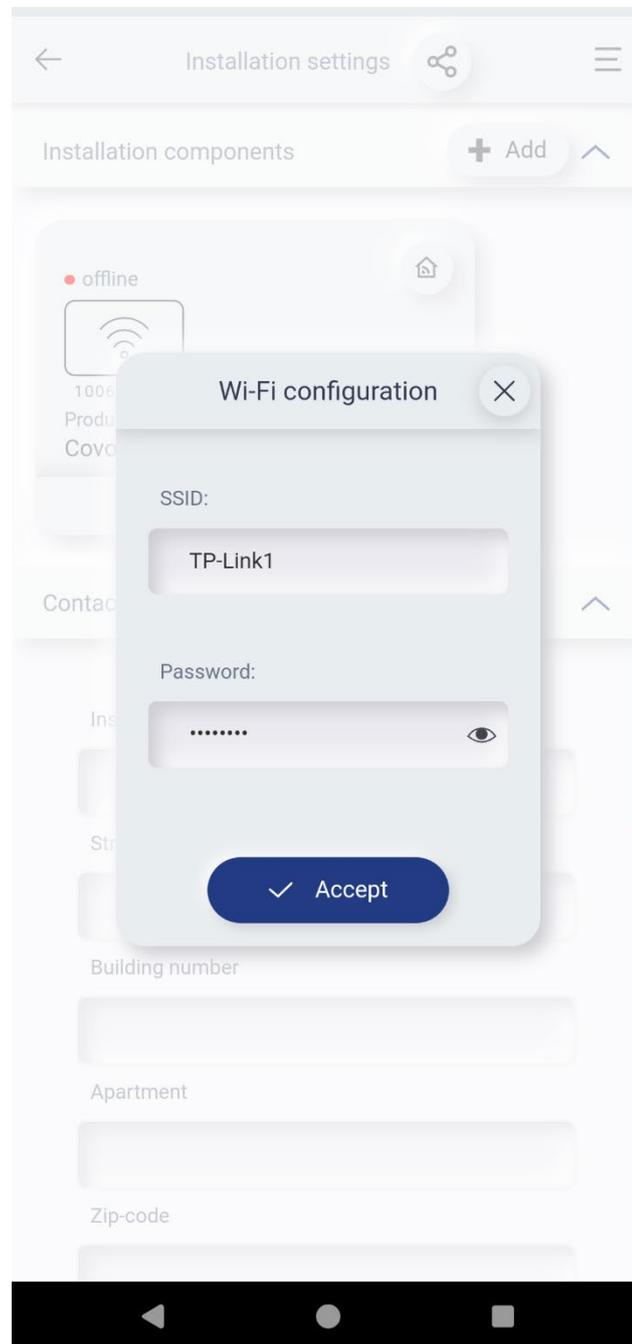


11.) Wait several seconds until the panel restarts and the Bluetooth function is switched off and the WiFi function is switched on, where:

- if the LED of the 🛜 button lights up permanently, this indicates an active connection to the WiFi network and to the internet service,

# Operating instructions

- if the LED of the 🛜 button is not lit, there is no connection to the WiFi network,

- if the LED of the 🛜 button flashes (slower than when Bluetooth is active), this means that there is a connection to the WiFi network but no internet service.

12.) Once the gateway is connected to the Wi-Fi network, select the configured installation.
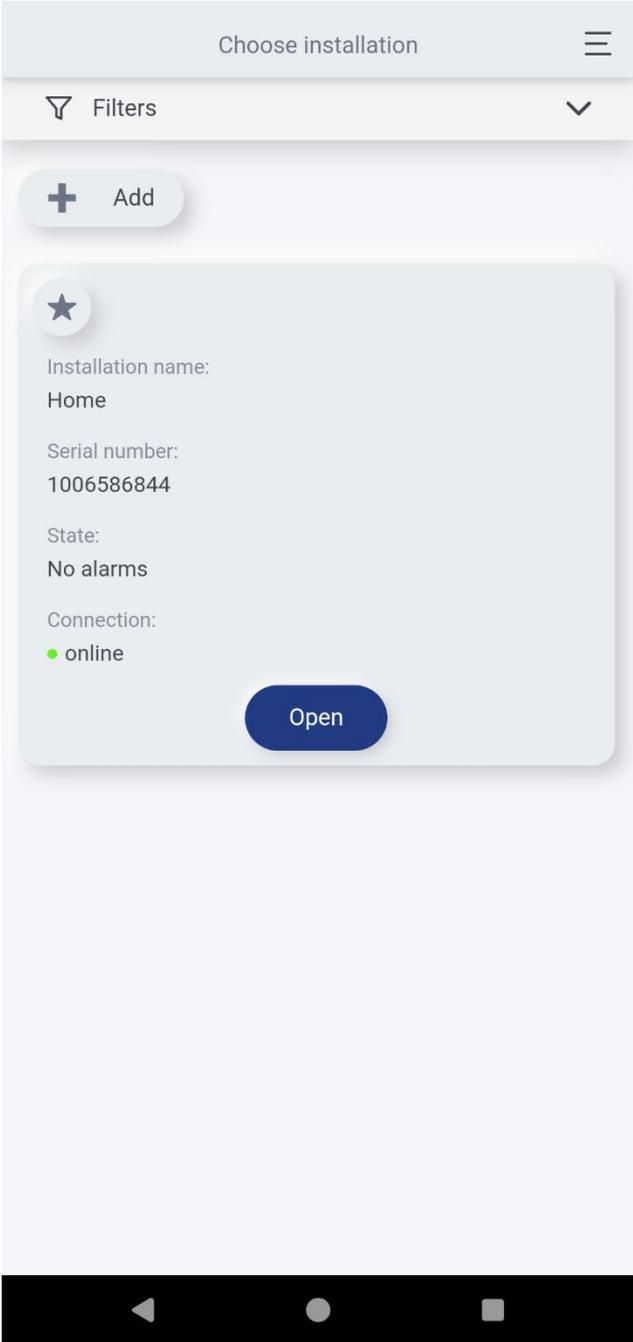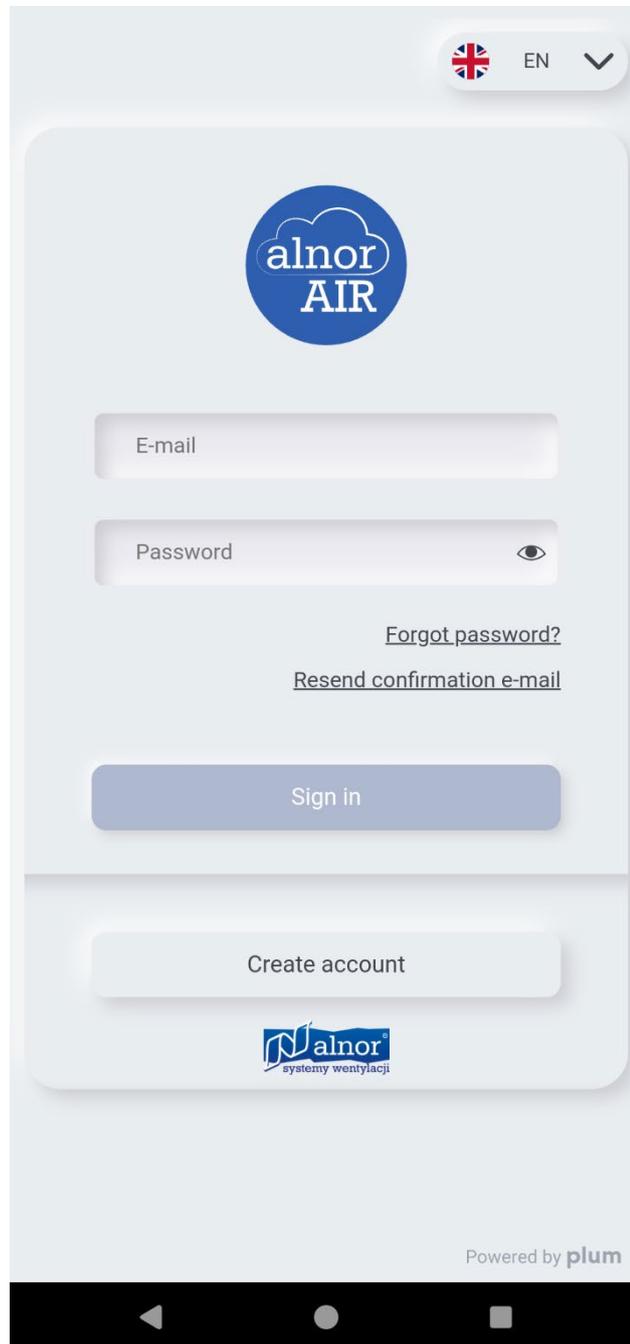
# Operating instructions

13.) Once in the installation, a new component must be added, which is the recuperator.
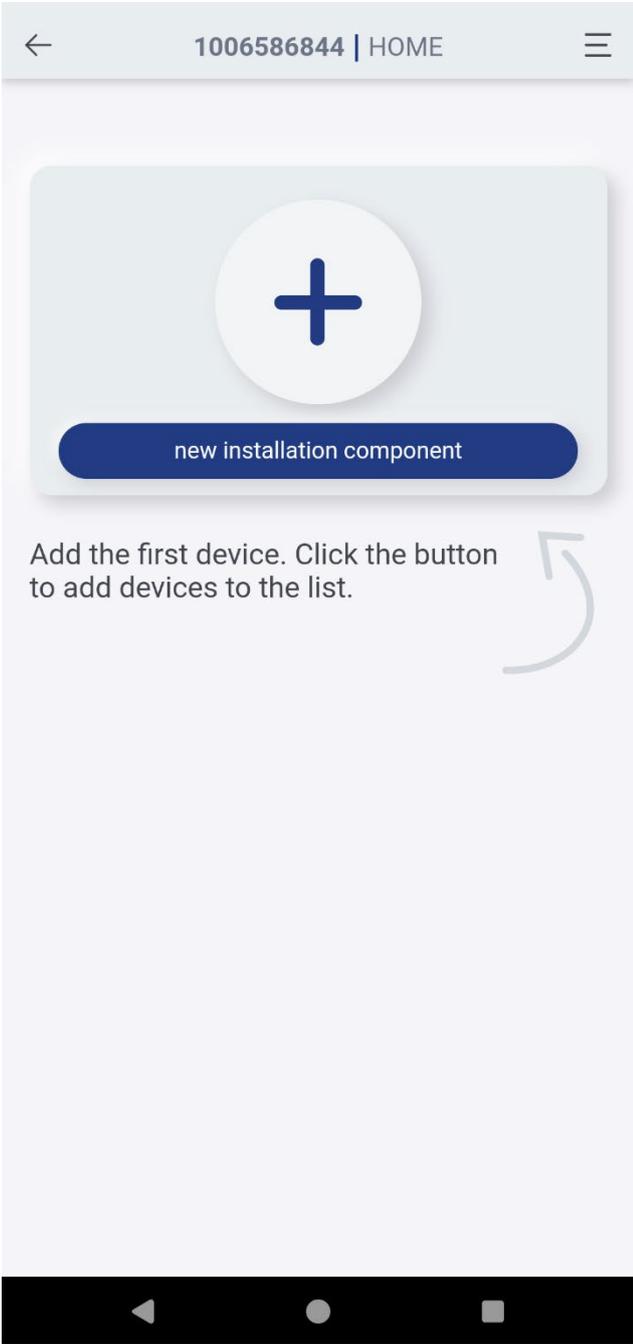
# Operating instructions

## 9.1.　User not invited by the installer

1.) If you have not received an invitation to use the AlnorAIR installation, you must set up controls in the AlnorAIR application or via the domain www.alnorair.com.pl.
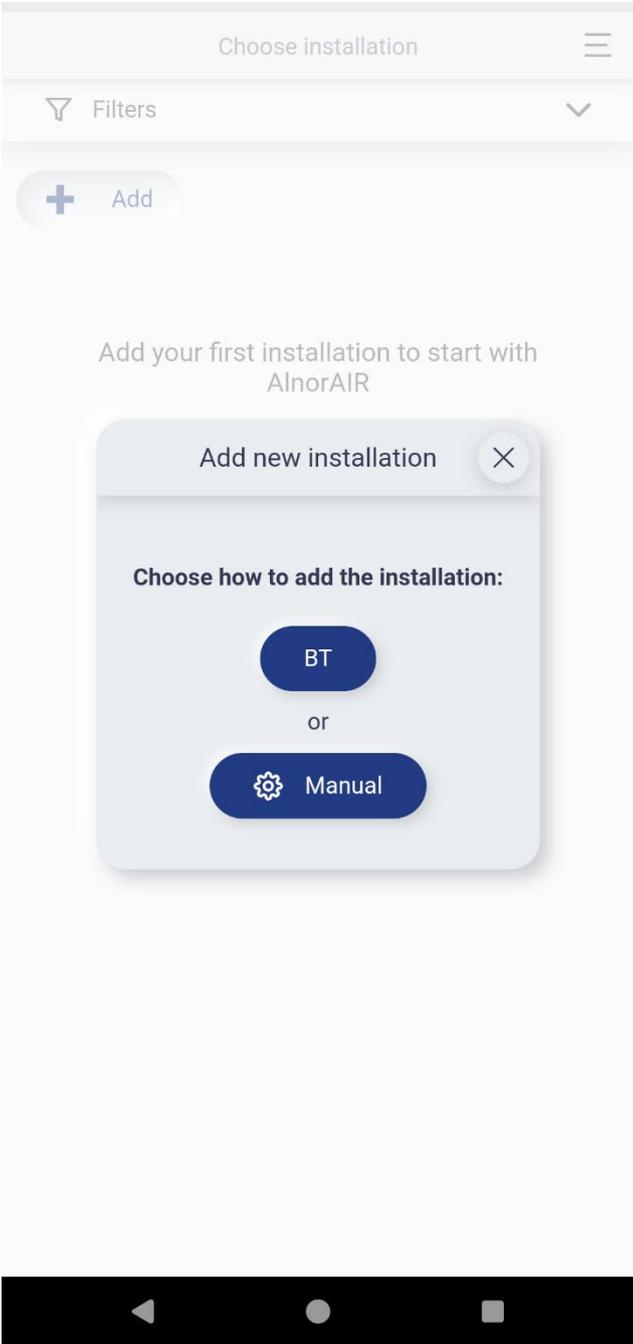
# Operating instructions

2.) Then, after logging in to the AlnorAIR app, select "Add". Make sure the gateway is in Bluetooth mode.
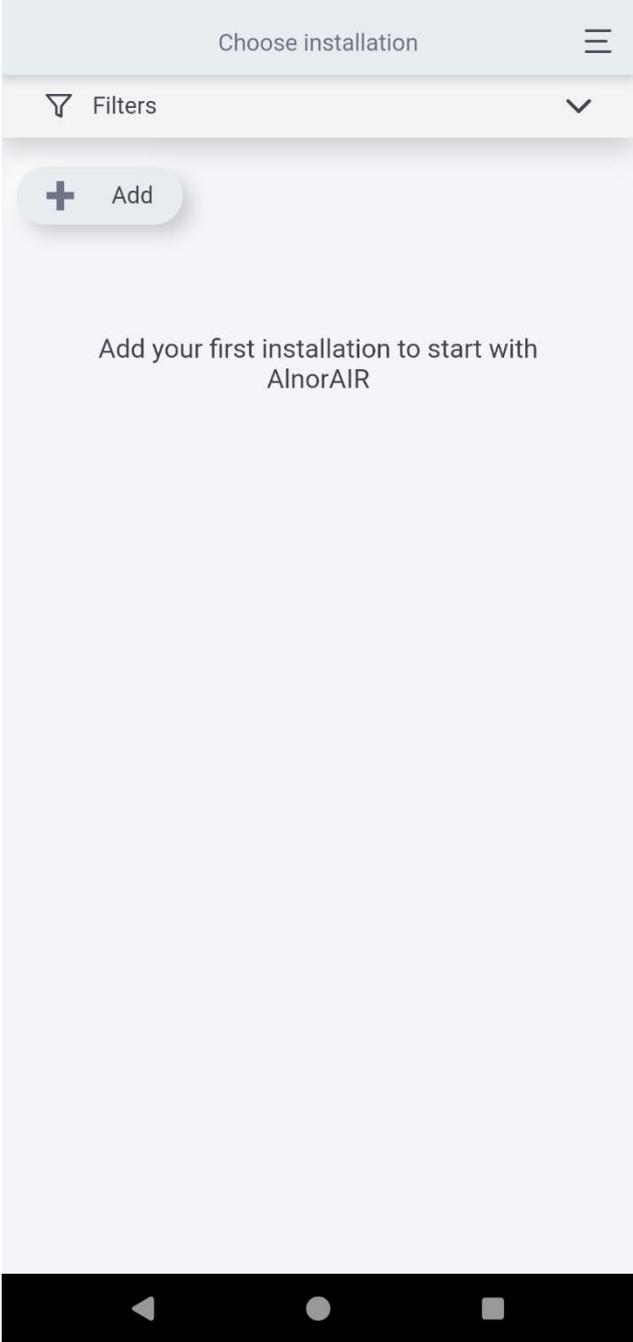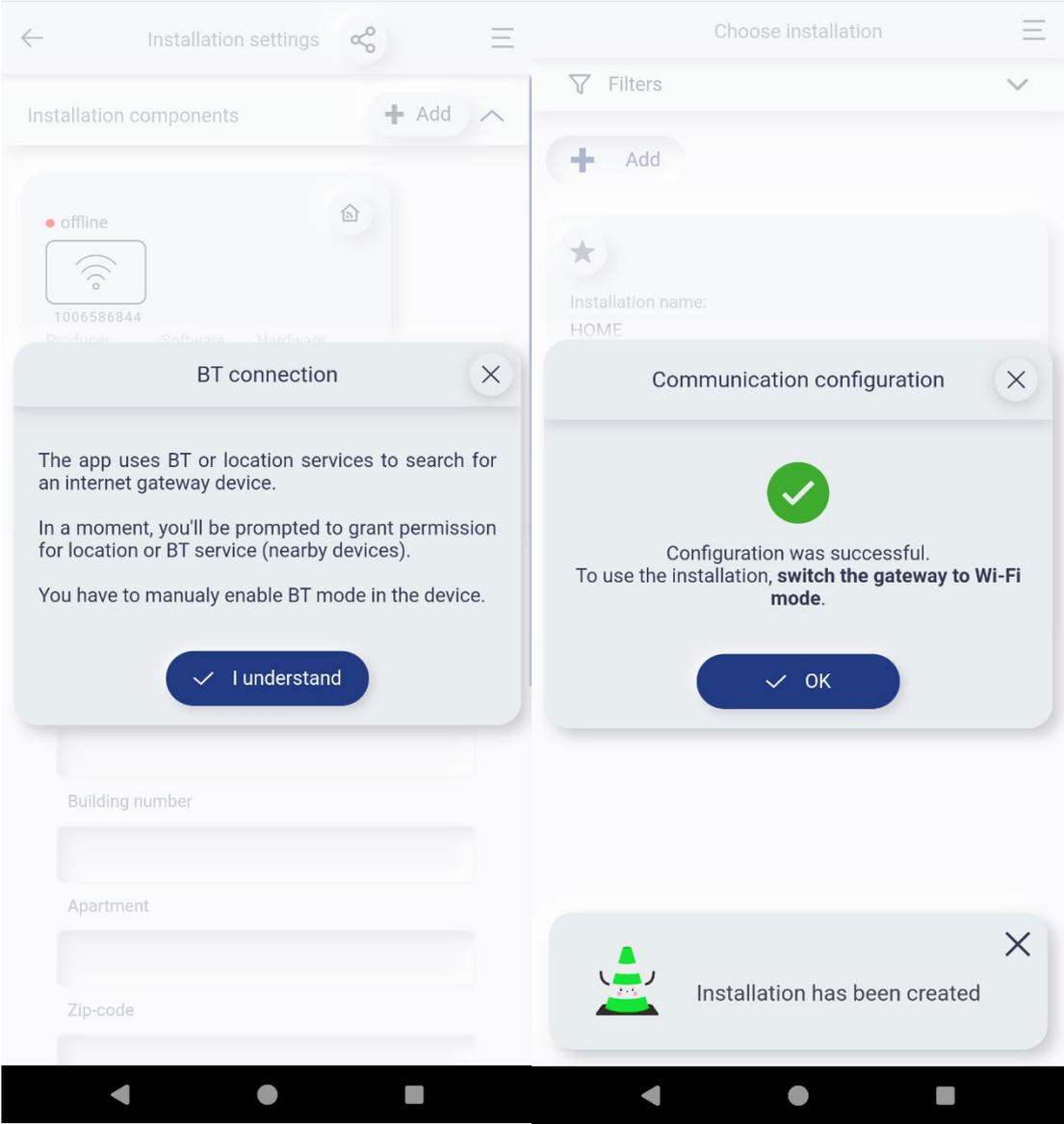
# Operating instructions

3.) Then select Bluetooth as an option to add the installation ('BT' icon).
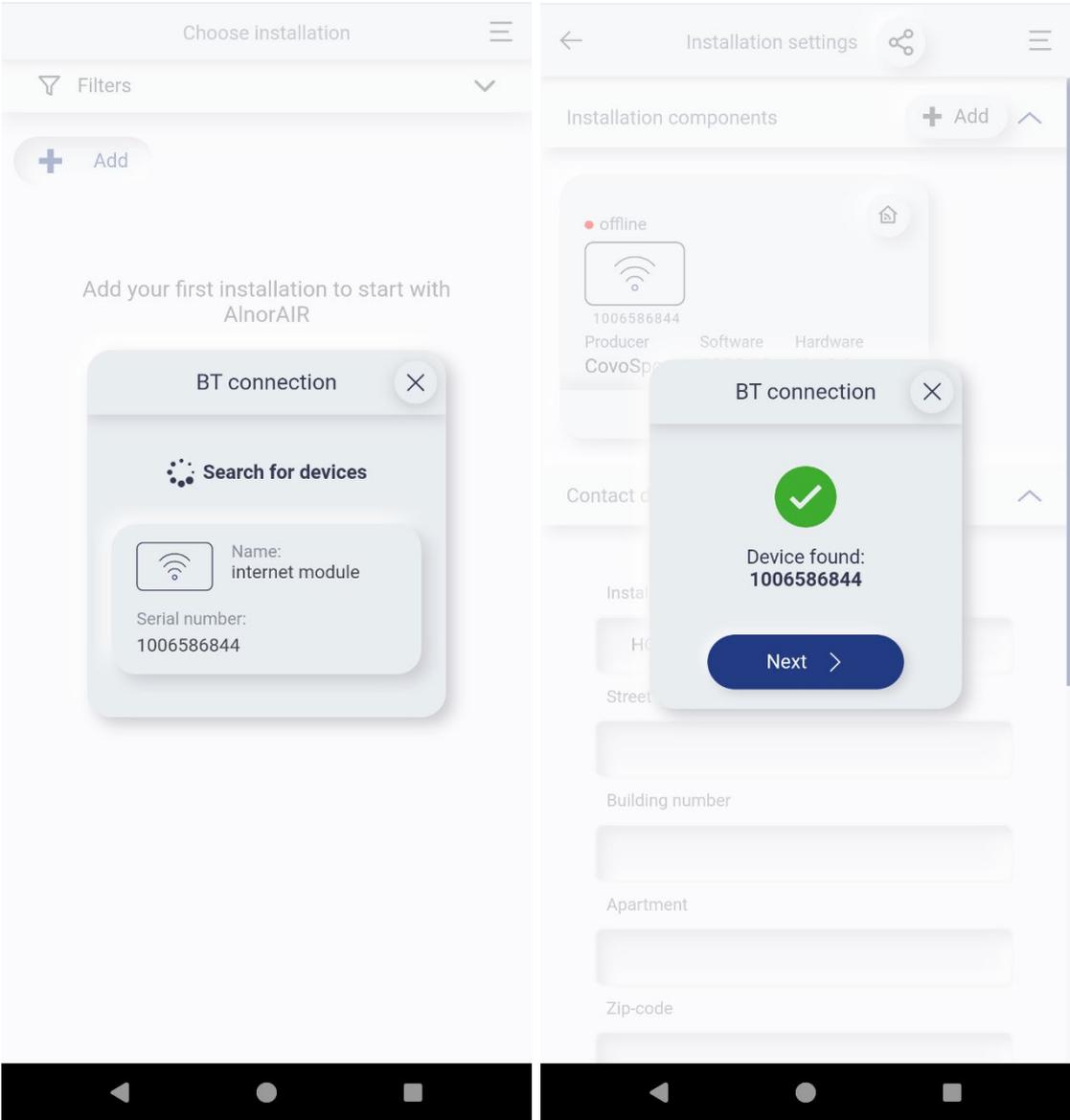
# Operating instructions

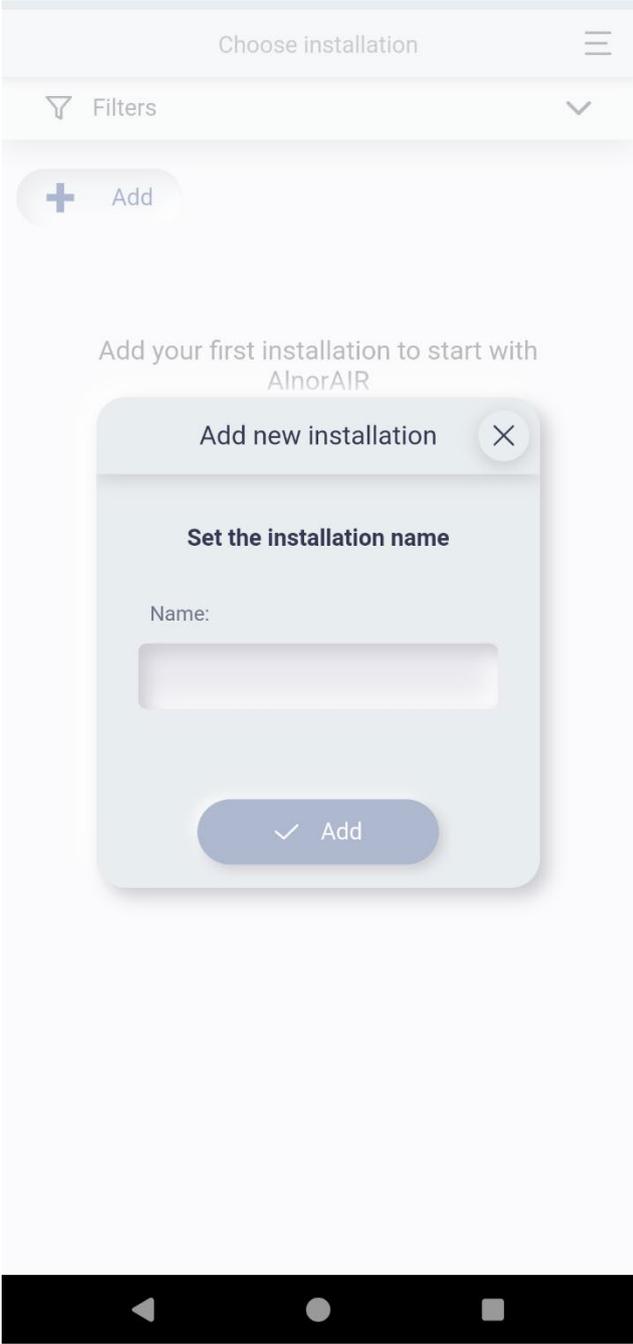4.) Allow the application to access Bluetooth functions on the device

# Operating instructions

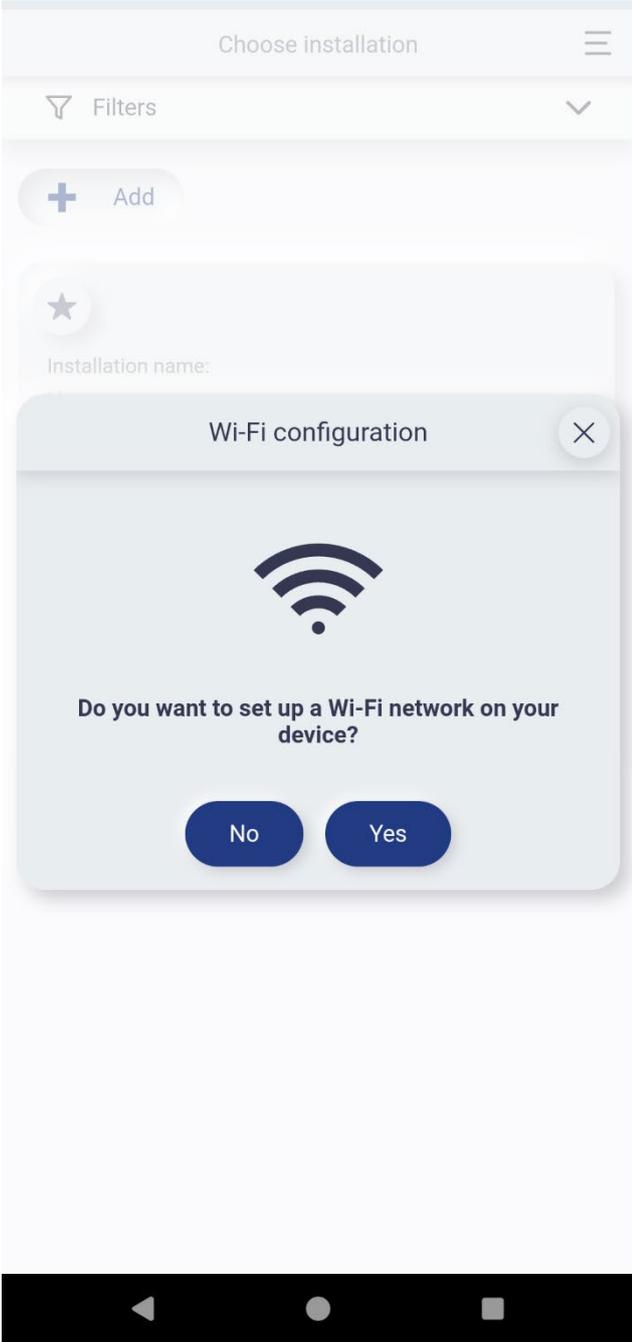5.) Select the web module you are looking for

# Operating instructions

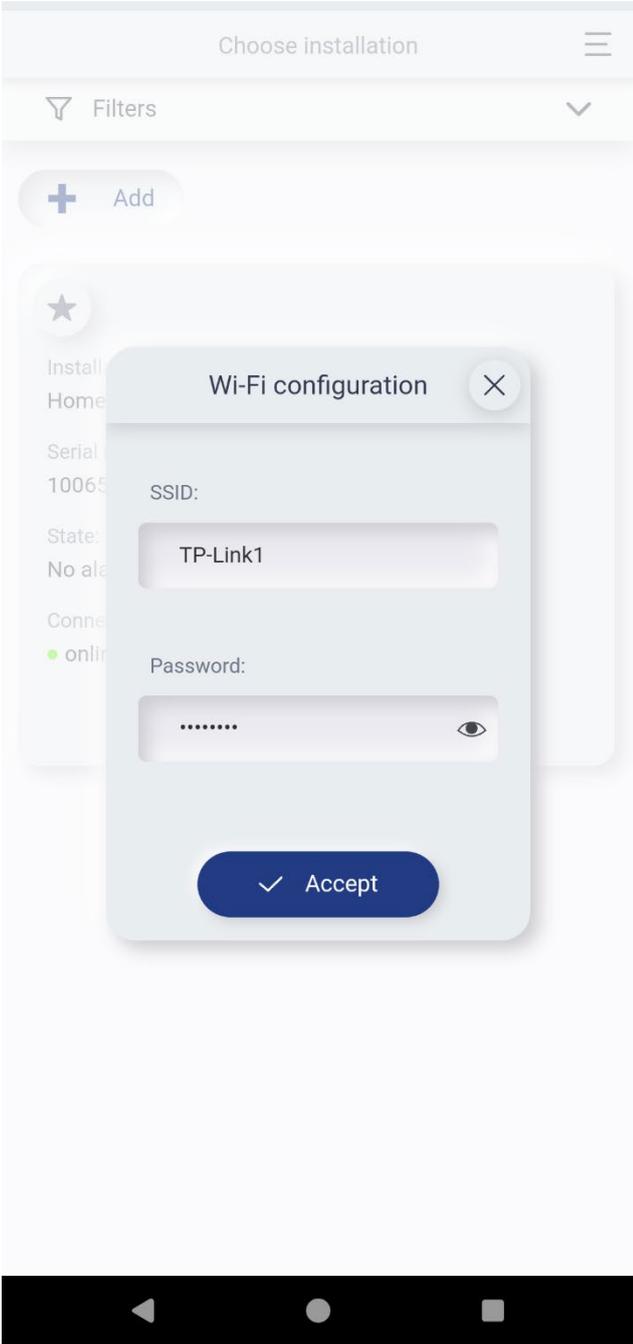6.) Name your installation and confirm your choice

# Operating instructions

7.) Start the Wi-Fi network configuration on the device by pressing "Yes"

# Operating instructions

14.) Enter the SSID, and password in the Wi-Fi configuration. After confirming the configuration, the gateway will automatically switch to Wi-Fi mode.
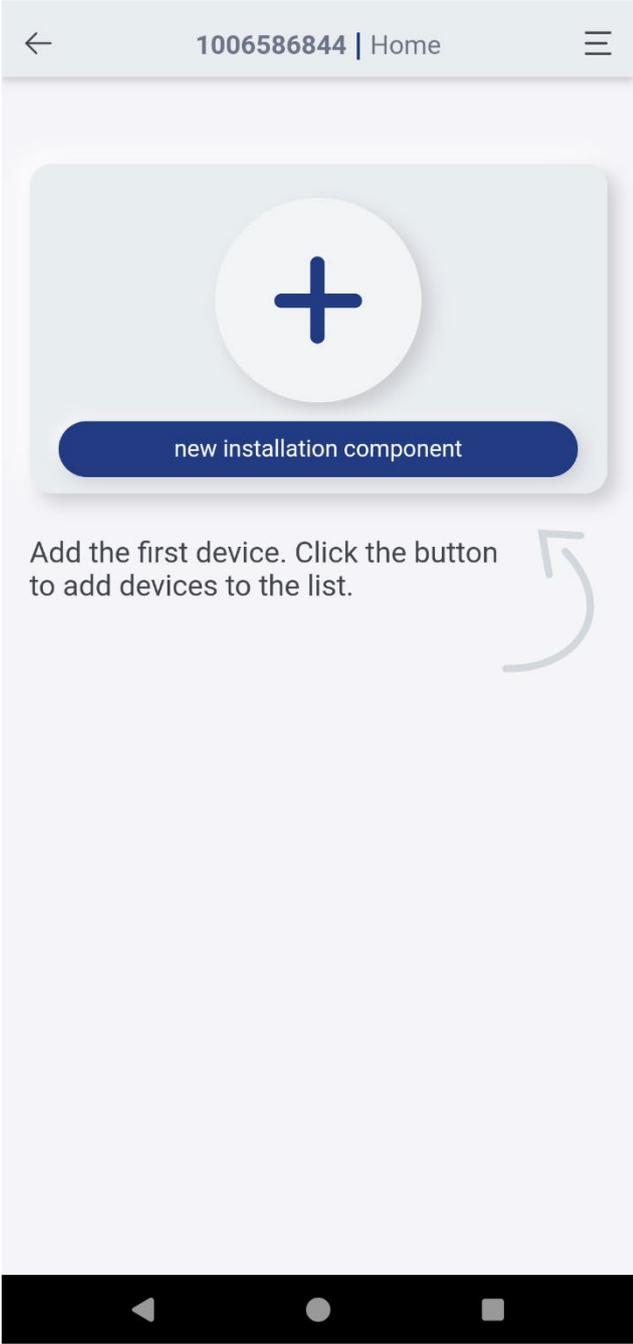
# Operating instructions

15.) Wait several seconds until the panel restarts and the Bluetooth function is switched off and the WiFi function is switched on, where:
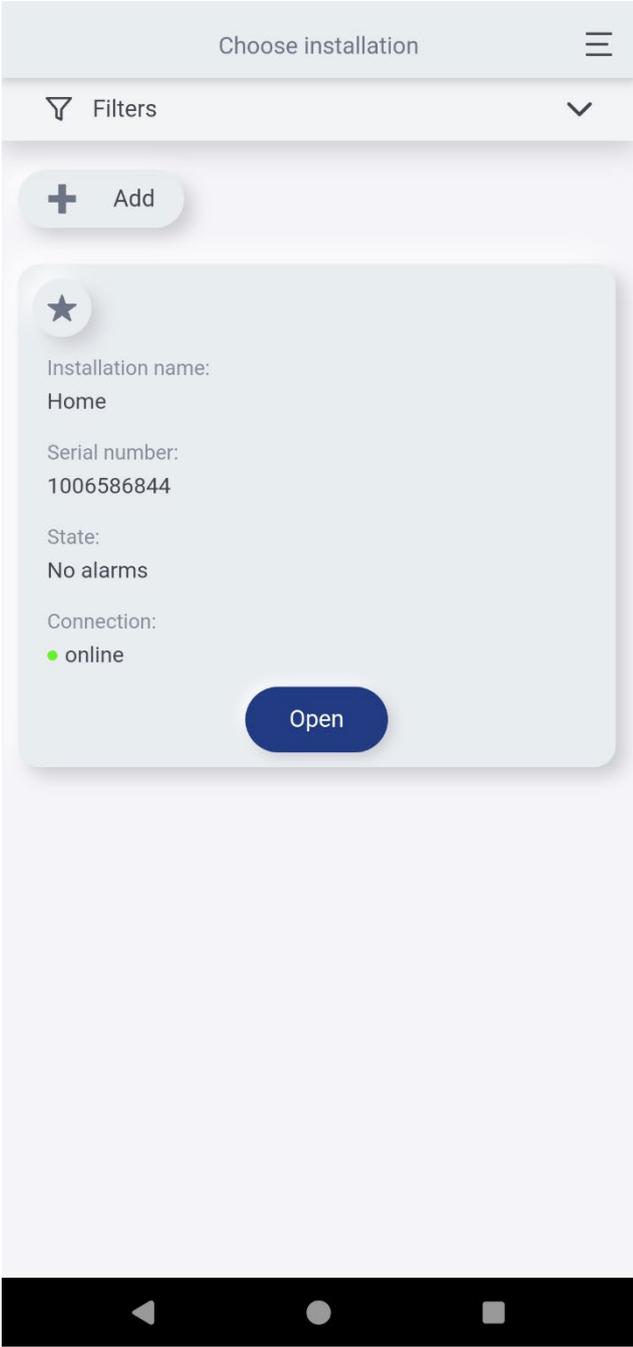
# Operating instructions

16.) Once the gateway is connected to the Wi-Fi network, select the configured installation.



17.) Once in the installation, a new component must be added, which is the recuperator.