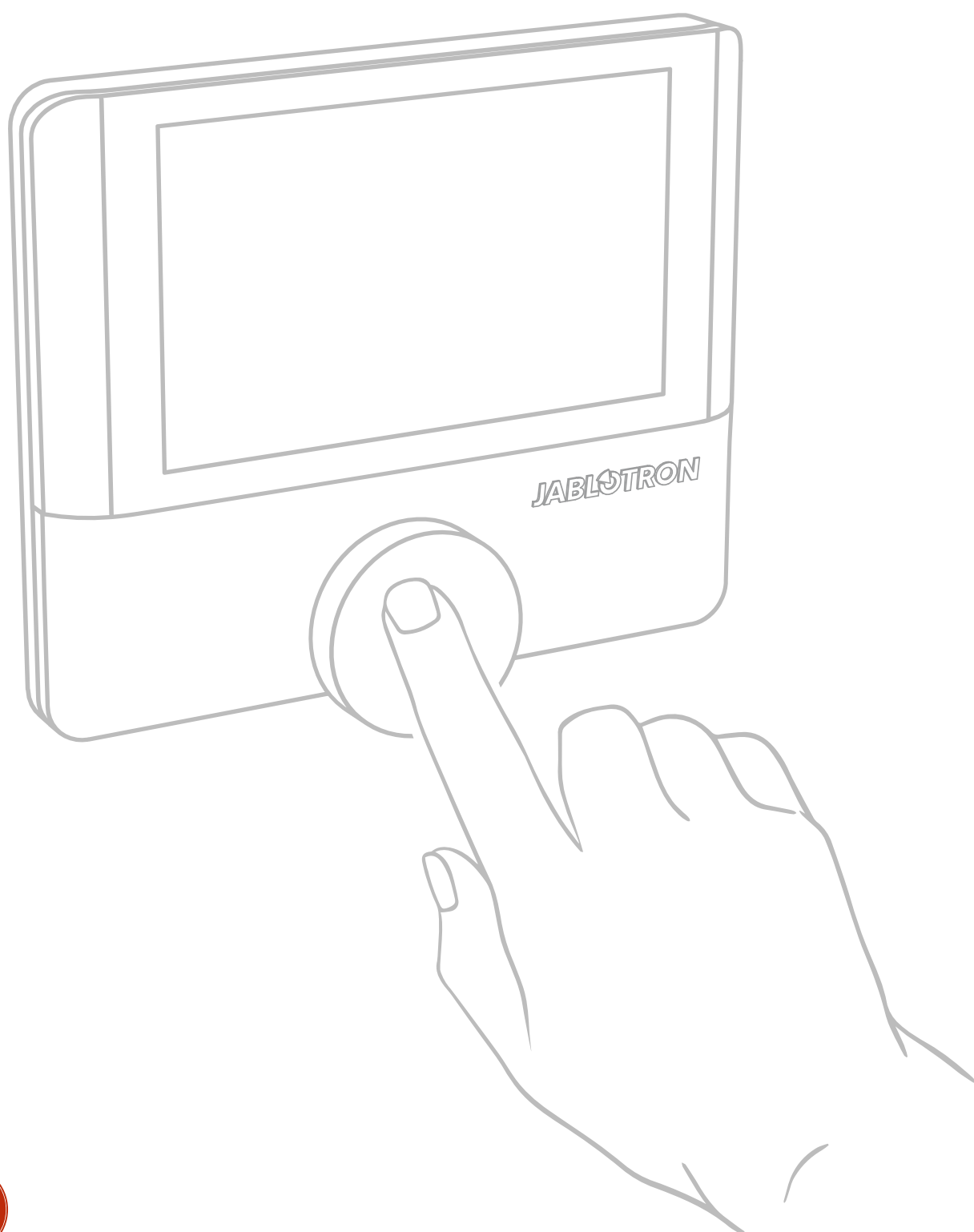


Ventilation unit
with heat and moisture recovery

FUTURA

User manual



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1. Introduction

Subject of this installation manual is **rekuperační zařízení FUTURA S/S2**, which is designed for controlled ventilation and treatment of the indoor environment of residential premises. The heat recovery unit ensures recovery of heat and moisture, filters supplied air and helps maintain optimum air humidity. In summer, it provides additional cooling in the night mode thanks to an integrated automatic bypass.

Before you put the heat recovery system in operation, read this User Manual carefully. It will provide you with information about operational principles of heat recovery unit, its structural design, modes, functions, operation and maintenance.





Pay attention to all specifications and instructions included in this manual and follow them accordingly. This is the only way of ensuring proper and safe operation of the heat recovery system.

This device complies with the Commission Regulation (EU) No 1253/2014 with regard to ecodesign requirements for ventilation units and Commission Delegated Regulation (EU) No 1254/2014 with regard to energy labelling of residential ventilation units.

ANY CHANGES RESULTING FROM TECHNICAL DEVELOPMENT ARE RESERVED. WE RESERVE THE RIGHT TO CHANGE THE CONTENTS OF THE MANUAL ANY TIME WITHOUT PRIOR NOTICE.

1.1. Symbols used

Please, pay increased attention to the used symbols and in the interest of your safety and proper operation of the heat recovery unit follow the instructions that accompany every symbol.

Symbol	Description
	IMPORTANT WARNING
	CAUTION! IMMINENT DANGER! (risk of injury of the user or the service staff; risk of ventilation unit damage or disruption of its proper function and operation)
	CAUTION! ELECTRIC EQUIPMENT!
	DANGER! CAUTION! RISK OF HAND INJURY!

2. Identification and application

The Futura heat recovery unit represents HVAC device with heat recovery and an active control of moisture recovery. It has been designed for comfortable and energy-efficient controlled ventilation of family houses. The heat recovery unit provides controlled ventilation of residential premises with required ventilation volume of 60–200 m³, at the outdoor air temperature range from -20 °C do +40 °C. The unit can be used at the maximum relative indoor humidity level of 60 % at the temperature of 22 °C.

JABLOTRON LIVING TECHNOLOGY CZ s.r.o. Holešovská 1692, 769 01 Holešov		JABLOTRON LIVING TECHNOLOGY CZ s.r.o. Holešovská 1692, 769 01 Holešov	
Větrací jednotka s rekuperací tepla a vlhkosti FUTURA S		Větrací jednotka s rekuperací tepla a vlhkosti FUTURA S2	
Napájení: 230V ~50Hz 740W, max. 200m ³ /h IP40		Napájení: 230V ~50Hz 740W, max. 200m ³ /h IP40	
  ID: 4215000000		  ID: 4215000000	
 SN: 40031140000000		 SN: 40031140000000	
MAC: 00:00:00:00:00:00		MAC: 00:00:00:00:00:00	

Figure 1 – Identification label

3. Safety instructions

Always follow the safety instructions that are included in this User Manual. Failure to observe them may result in personal injury or damage of the heat recovery unit.

- The unit has been designed and manufactured to provide controlled ventilation in residential buildings and premises.
- The unit may only be used for purposes for which it has been designed and manufactured and for which it has adequate technical capabilities – in line with the conditions defined by the manufacturer. Its design, construction and technical condition complies with safety regulations.
- The heat recovery unit must be installed in compliance with general and local safety regulations.
- The heat recovery unit may only be installed, connected, commissioned and maintained by an authorized service technician with respective professional qualifications. A service technician is a person with adequate qualifications, experience and knowledge of respective regulations, standards as well as possible risks and dangers.
- The unit may only be independently operated by physically and mentally apt persons that have thoroughly read and understood the User Manual. The User Manual must be stored in an accessible place.
- Do not change or modify the heat recovery unit in any way!
- Follow the time intervals for regular filter replacement.
- Do not repair the heat recovery unit! If you find a defect or damage contact a service technician immediately.
- We do not recommend leaving the heat recovery system off for prolonged periods, not even in the of absence of persons. Always let the system run at the lowest ventilation level or in the Automatic Mode.
- The unit can not be used while there is still unfinished construction work in the building. The unit must be installed and commissioned in a finished and clean building.
- The heat recovery unit is designed for joint operation with a fireplace only when the fireplace is suitable for passive buildings, has a sealed fireplace insert and its own air supply.
- Joint operation with a fireplace is possible only if relevant safety and fire regulations are followed. Such operation requires setting and using the Overpressure function (see Heat recovery unit functions).



The system must not be operated together with an open fireplace or with any fireplace without its own air supply!



The unit must be off and disconnected from electrical mains during any maintenance including filter replacement!



Do not reach into the filter space with your hand when replacing filters! Avoid risk of hand injury!



When using a humidifier in a building with a heat recovery unit, it is necessary to use demineralized water to fill the humidifier! Otherwise, the filters will become clogged very quickly, and the FUTURA unit may be damaged!



Only use original filters in the Futura heat recovery unit!

4. Technical specification

See table below for all technical data concerning the heat recovery unit:

Description	Data
airflow	60 – 200 m ³ /h
Identification label	FUTURA S/S2
Specific Energy Consumption (SEC) in kWh/(m ² .a) for each applicable climate zone and each applicable SEC class	A+
Dimensions (height x width x depth)	250 × 1019 × 594 mm
Weight	25 kg
Declared typology	bidirectional
Drive type	variable speed drive
Heat recovery system type	recuperative
Exchanger	enthalpy counterflow
Heat recovery efficiency	82,5 %×
Moisture recovery efficiency	60,3 %×
Reference flow	110 m ³ /h ^{×××}
Electric power input of the fan, including the motor control equipment at maximum flow	140 W
Maximum power input including heating	740 W
Acoustic power level	46 dBa ^{××}
Reference pressure difference	100 Pa ^{×××}
SPI	0,38 W(m ³ /h) ^{×××}
Condensate	not required ^{××××}
Electrical connection	230 V/50 Hz, 16 A, Characteristic B; connection to electric mains via power socket
Operational range without preheating	-20 °C to +40 °C
Maximum operating relative humidity of indoor air	Max. 60 %RH at 22°C
Storage temperature and relative humidity range	-5 °C to +45 °C at max. 80 %RH non-condensing
Recommended storage temperature and relative humidity range	5 °C to +30 °C at 40 %RH to 60 %RH non-condensing
Protection rating	IP 40

Description	Data
Fans	2× EBM Papst with integrated electronics and airflow regulation
Annual electricity consumption (AEC) (v kWh/m ² electric energy consumption/year) „average“, „warm“, „cold“) at reference flow	204/159/741
Annual heat savings (AHS) (in kWh/m ² of primary energy/year) for individual climate zones („average“, „hot“, „cold“) at reference flow	4445/2010/8695
Summer function	fully automatic by-pass controlled by the temperature setpoint
Control	Integration in the MyJABLOTRON mobile application, which supports easy control of all user functions and settings. It enables remote monitoring, system administration and provides automatic alerts for error conditions and dirty filter replacement. Standard supply includes one wall-mounted control panel with an integrated CO ₂ sensor.
Optional accessories	Alfa controllers (max. 8 units) or CO ₂ sensors (max. 8 units), zone ventilation dampers, HVAC materials and distribution elements

× According to DIN EN 13141-7 ×× According to ČSN EN ISO 3744 ××× According to Commission Regulation (EU) No. 1253/2014

×××× In case the supply and exhaust ductwork is sloped away from the unit towards the outdoor environment

5. Principle of heat recovery operation

A heat recovery unit ensures a continuous exchange of indoor air for fresh, clean air. Heat recovery takes place in the exchanger, where the incoming air gains part of the heat and humidity from the outgoing air (mainly from the kitchen, bathroom, toilet, etc.). The fresh air constantly flowing into the interior (living room, children's room, study, etc.) is thus thermally optimized and filtered. To prevent dust from settling on the fan blades, the exhaust air from the interior is also filtered. The individual airflows are kept completely separate, so no mixing occurs between them.

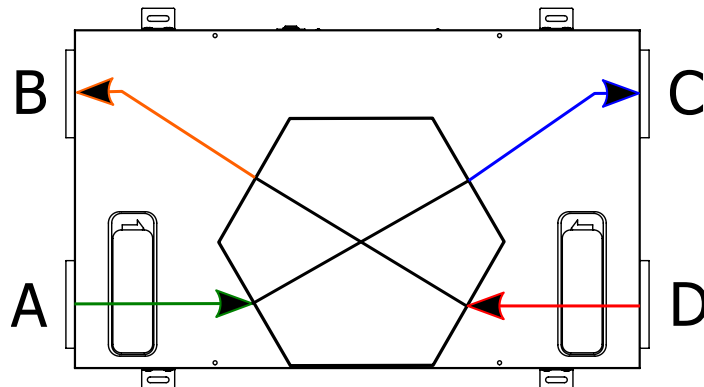


Figure 2 – Principle of Heat Recovery

- A – Outdoor air
- B – Exhaust air
- C – Supply air
- D – Extract air

6. Structural components of a heat recovery unit

A heat recovery unit consists of the following structural components:

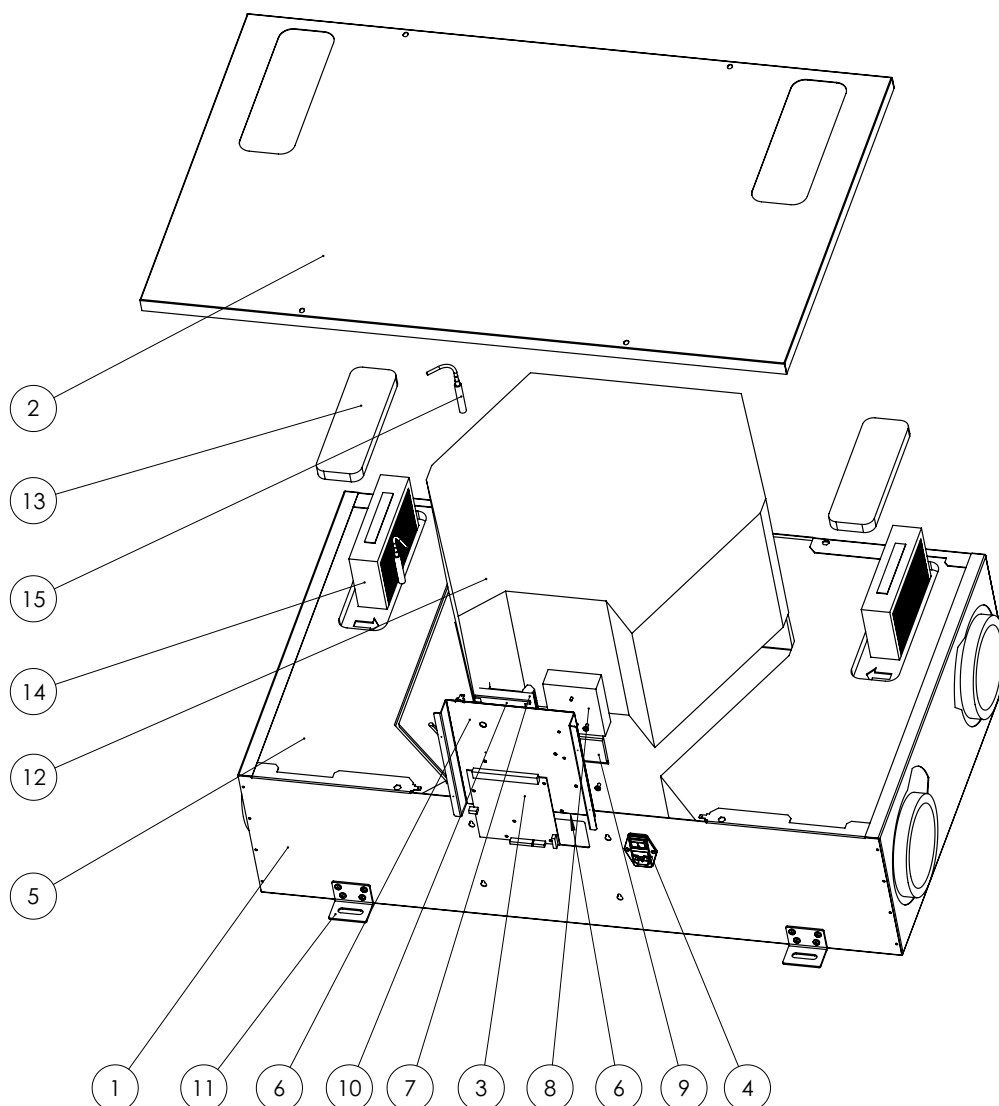


Figure 3 – Structural Components

Legenda k obrázku:

- | | |
|--|---|
| 1 - Sheet metal chassis | 9 - Power electronics |
| 2 - Sheet metal cover | 10 - Plastic spacer for electronics |
| 3 - Control electronics | 11 - Chassis bracket |
| 4 - Panel socket with fuse | 12 - EPP casing including heat recovery exchanger |
| 5 - EPP box with fan (including preheater) | 13 - EPP filter cover |
| 6 - Metal bracket for electronics | 14 - F7 filter |
| 7 - Expansion I/O electronics | 15 - Temperature and humidity sensor |
| 8 - 24VDC power supply | |

6.1. Unit Body

The outer casing of the heat recovery unit is made of high-quality painted sheet metal. The internal structure is composed of expanded polypropylene (EPP) components, which serve as thermal and acoustic insulation without thermal bridges. The unit's air supply and exhaust ports (\varnothing 125 mm) are located on the left and right sides.

6.2. LED Indication

The control electronics feature a colored LED backlight that clearly indicates the current status of the unit. During normal operation, the unit pulses green at regular intervals. A change in the LED color indicates the need for filter replacement, error conditions, or active Bluetooth connection. The meaning of each color is explained in the table.

RGB LED color	Explanation
green	Constant power, Automatic mode, Stand-by
yellow	Replace the filter! The filter is clogged!
red	Error! Malfunction!
blue	Active Bluetooth



Pay attention to changes in the LED backlight colors

6.3. Filters and filter replacement

The heat recovery unit is equipped with F7 filters on both the supply and exhaust air sides. The need for filter replacement is indicated automatically. The recommended replacement interval depends on the air quality in the environment where the unit is used (approximately once every 2–6 months).

Users are notified of the need to replace the filters by:

- a change in the LED backlight color on the front of the unit (see table above),
- a message in the MyCOMPANY app,
- notification on the Alfa wall controller.



When replacing the filters, do not insert your hands into the filter opening! There is a risk of hand injury!



The heat recovery unit must not be operated without filters! The unit must be turned off during filter replacement and any maintenance activities!

When replacing the filters, follow these steps:

- Turn off the unit to standby mode using the Alfa wall controller or the MyJABLOTRON mobile app, and wait until the motors stop,
- switch off the heat recovery unit using the On/Off button,
- remove the cover from the filter socket and take out the old filter,
- insert the new filter into the socket and close it with the cover. Make sure to observe the correct orientation of the filters according to the arrows indicating the airflow direction,
- turn the heat recovery unit back on using the On/Off button,
- briefly press the corresponding button on the control board (see figure "New filter initialization button") or start the filter replacement process from the MyJABLOTRON app
- restart the unit using the Alfa wall controller or the MyJABLOTRON mobile app



It is essential that both new filters are placed in the filter sockets and the filter covers are closed before starting the initialization process! Do not use any filters other than those supplied by the manufacturer, and do not add any additional pre-filters!

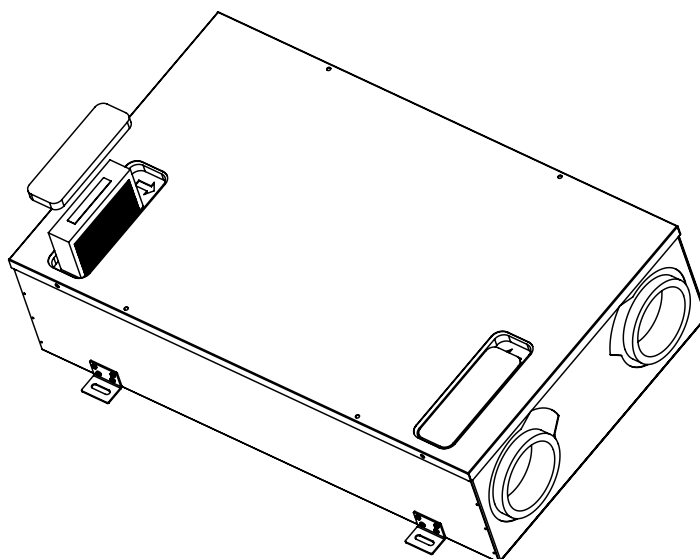


Figure 4 – Filter Replacement



Dirty filters that are not replaced regularly can cause increased pressure losses, poor air flow, dust buildup on fan blades (which changes their characteristics), higher electricity consumption, and increased motor power demand. As a result, this leads to greater wear and tear, system imbalance, and overall improper operation of the heat recovery unit. In extreme cases, it can cause irreversible damage and disrupt the functionality of the comfort ventilation system!



Change the filters at regular intervals!

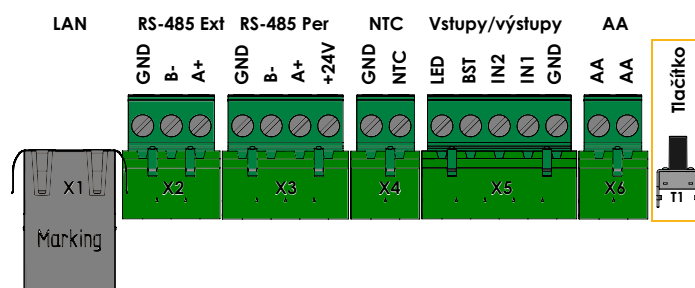


Figure 5 – New Filter Initialization Button – press briefly

6.4. Enthalpy exchanger

The heat recovery unit is equipped with an enthalpy counterflow exchanger, which transfers not only heat but also moisture from the exhaust air to the supply air, helping to optimize the humidity level in the living space.

6.5. Fans

The heat recovery unit contains two energy-efficient fans with integrated electronics and a function to maintain a constant airflow.

6.6. Optional accessories

The heat recovery unit can optionally be equipped with CO₂ sensors (up to 8 units), additional Alfa wall controllers (max. 8 units), HVAC materials, and distribution elements.

7. Unit operation modes

7.1. Stand-by

When the heat recovery unit is in Stand-by mode, the air exchange is not active. Information from all the connected sensors is available, being continuously evaluated. Thanks to connection to Jablotron Cloud, the heat recovery unit can be activated and its settings can be changed any time. The unit in Stand-by mode responds to Boost function.

7.2. Constant power

Constant power mode lets user adjust level of fan speed (levels 1 – 5). Depending on the temperature and humidity setpoint, the system controls the bypass flap and connected peripherals. It controls turning of the heat exchanger flaps and drying flap based on the current temperature and humidity.

7.3. Auto mode

Default mode of the heat recovery unit. This mode uses information from the connected CO₂ sensors and controls fan speed based on updated values. The ventilation output is adapted to the requirements for quality of the indoor environment. The unit remains in this mode until it is switched to the Time Schedule mode. The sensors control the operation of the heat recovery unit automatically; fan speed is adjusted according to data from sensors. There can be up to 8 CO₂ sensors connected to the unit and the HVAC technician can set which ones will be used to control the fan speed.

7.4. Time schedule

A mode in which user schedules switching between Automatic Mode, Stand-by Mode or a preset fan speed within a range of five levels: 1 (minimum) – 5 (maximum). Time schedule can be activated or deactivated. If Time schedule is activated while one of the functions is running, the function is immediately deactivated and the unit starts to run according to the Time schedule mode. However, Time schedule mode cannot be activated while the Vacation function is on.

8. Unit functions

8.1. Boost (forced ventilation)

A top speed (5) function used if a fast, forced ventilation of the indoor premises is required. The unit is temporarily switched to the maximum level, the fans working at the top speed. This function is available in any mode. It can be activated from the mobile application (for any time interval), from the wall-mounted control panel (for a preset interval) or with a Boost switch connected to the unit (for two preset intervals, one for short press and one for a 3 second long press). Boost switches are typically installed in rooms where forced ventilation is needed, such as bathroom, toilet or kitchen. The time interval for Boost switch (for both short and long press) can be adjusted, but only by the HVAC technician. If Boost is active, the time remaining until the expiration of this function is displayed next to the respective symbol. After expiration of the given time, the unit returns to the previous mode.

8.2. Bypass

An automatic bypass is built into the ventilation system. It helps to cool the living space, especially in summer, for example during the night. In this season, heat recovery is not needed. The bypass lets the cooler outside air go around the heat exchanger, so it doesn't get warmed by the warm air leaving the house.

The bypass turns on when the room temperature is higher than the preferred (set) temperature and the outside air is cooler than the air inside.

This function is limited by the dew point of the exhaust air. If the dew point is too high, there could be condensation in the air ducts, which must be avoided.



When the bypass function is activated, overpressure can occur in the living space. It is necessary to allow the indoor air to escape, for example, by opening a window to the ventilation position.

8.3. Night mode

A reduced power function used at night. The unit is switched to the minimum level (1), the fans working at the lowest power setting. After expiration of the given time, the unit will return to the previous mode.

8.4. Vacation

A reduced power function used in periods of absence of the users on the premises. The unit is switched to the minimum level (1), the fans working at the lowest power setting.

8.5. Party

An increased power function used mainly when more people are present on the premises. The unit works at the 4th power setting. After expiration of the set time the unit will return to the previous mode.

8.6. Overpressure

A function designed for simultaneous use with a fireplace. The unit changes the ratio of the fan speeds for the aspirated and exhausted air. The fan exhausting air from the indoor space works at a lower speed than the fan that supplies air. This prevents combustion products and smoke from getting into the interior.

8.7. Anti-radon protection

A function for permanent radon protection of the premises. Similar to the Overpressure function, it changes the fan speeds for the fresh and exhausted air. The fan exhausting air from the indoor space works at a lower speed than the fan that supplies fresh air. This prevents radon from leaking indoors. This function can be activated only from the mobile application. The overpressure ratio is set by the HVAC technician and the function is permanent until its deactivation in the mobile application.

8.8. Restart

The following user functions are reactivated after the restart of the unit or after a power outage:

- Ventilation
- Time schedule settings
- Vacation
- Anti-radon protection
- Fan speed for different levels (1-5)
- Overpressure settings
- Temperature setpoint
- Humidity setpoint
- Ventilation settings in Auto mode
- Boost duration
- IN1 and IN2 input settings
- Heating permission
- Cooling permission
- Automatic bypass permission

The following functions are deactivated after restart:

- Boost
- Circulation
- Overpressure
- Night mode
- Party
- Drying
- Filter check
- Shutdown
- Servicing mode
- Bluetooth permission

8.9. Winter Operation, Frost Protection, Preheating

This function is activated when the average temperature of the exhaust air drops below +2 °C. It prevents the fans from stopping during automatic ventilation modes based on CO₂ levels or analog input voltage, or due to ventilation being turned off in a scheduled program. Instead of stopping the fans, the system switches to the first ventilation level.

At the same time, the frost protection function is activated. This means that when the exhaust air temperature falls below +2 °C, the electric preheater is activated. Its output is controlled to ensure the exhaust air temperature at the outlet remains above freezing (on average 2 °C).

8.10. Functions, Their Priority, and Response to Simultaneous Activation

When a certain function of the heat recovery unit has been activated, you can activate another function - that will either deactivate or interrupt the previous function, or the functions will run simultaneously. Each function and mode has a defined priority in relation to other functions. The functions and modes are prioritized in the following order:

- Emergency mode
- Boost
- Party
- Night mode
- Vacation
- Manual setting (level 1-5) or Time schedule mode
- Auto mode (CO₂ or analogue input)

Circulation, Overpressure and Anti-radon can run simultaneously with any of the above-mentioned modes/functions, but they cannot run simultaneously with each other. They are prioritized in the following order:

- Circulation
- Overpressure
- Anti-radon

The **Boost** function interrupts the **Circulation** function. The **Night mode** and **Party** functions will resume after expiration of the **Boost** function. If the **Boost** function is started and the **Vacation** function has also been selected (both symbols are lit), the **Vacation** function will resume once **Boost** function expires. **Boost** is available in any mode.

- Selecting the **Night Mode** deactivates **Boost** and **Party**.
- Selecting the **Vacation** function deactivates **Boost**, **Night Mode** and **Circulation**.
- Selecting the **Party** function deactivates **Boost**, **Night mode** and **Circulation**.
- **Party** function cannot be activated while the **Vacation** function is active.
- When the ventilation is controlled by **analogue input** with voltage of 1-10 V, it overrides the CO₂ controlled ventilation.
- Selecting the **Time schedule** deactivates all of the other running functions and the unit starts running according to the **Time schedule** settings. **Time schedule** is not available while the **Vacation** function is active.
- Pressing the **Boost** button repeatedly does not cancel, but prolongs the function.
- Selecting **Overpressure** while the **Boost** function is on does not cancel the **Boost** function. The fan speed ratio is adjusted according to the **Overpressure** ratio and the unit continues to run in **Boost**.
- Selecting the **Boost** while the **Overpressure** is active does not cancel **Overpressure**. The **Boost** is activated while the unit continues to operate at the **Overpressure** fan speed ratio.

Boost, **Overpressure**, **Circulation** have the option of setting a delayed start or stop.

9. Controlling the unit with Alfa control panel

Alfa control panel is a standard joint control panel for Jablotron Living Technology systems. Its operation starts on home screen.

9.1. Home screen

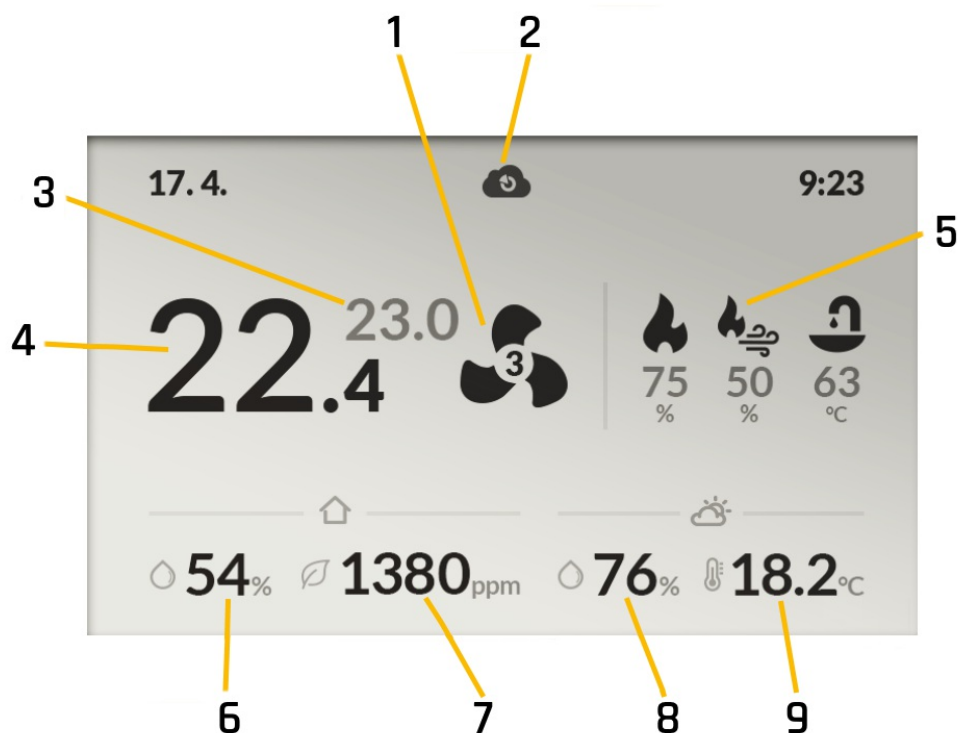


Figure 6 – Home screen icons

Legend to the figure:

- 1 - Set ventilation level
- 2 - Connected to cloud
- 3 - Temperature setpoint
- 4 - Actual temperature
- 5 - Not available

- 6 - Actual local humidity
- 7 - Actual local CO₂
- 8 - Outdoor humidity
- 9 - Outdoor temperature

Home screen quick access

User can set quick access for temperature setpoint or ventilation level. Turning the control dial provides a primary quick access and enables user to adjust the desired value (temperature or ventilation level, depending on the setting). The new value is saved automatically after three seconds of inactivity. In the Settings menu the user can set whether primary quick access will be assigned to temperature setpoint or ventilation level.

Secondary quick access (e.g. for ventilation level if the temperature is set as the primary quick access) is displayed by pressing and holding the dial. Subsequent turning of the control dial enables the user to adjust the given value (temperature or ventilation level, depending on the setting). After three seconds of inactivity the value is saved and the secondary quick access indication disappears from home screen.

Displaying subsystem values

If a subsystem is available, its current value with respective unit is displayed below its icon. If the subsystem is not available, its icon is displayed in grey and – is displayed instead of the value.

9.2. Quick access

Pressing the dial on the home screen displays menu with icons for individual subsystems, a "Home screen" icon and a "Settings" icon. In case a particular subsystem is not connected to the system, its icon is displayed in grey and the icon is skipped when the dial is turned.

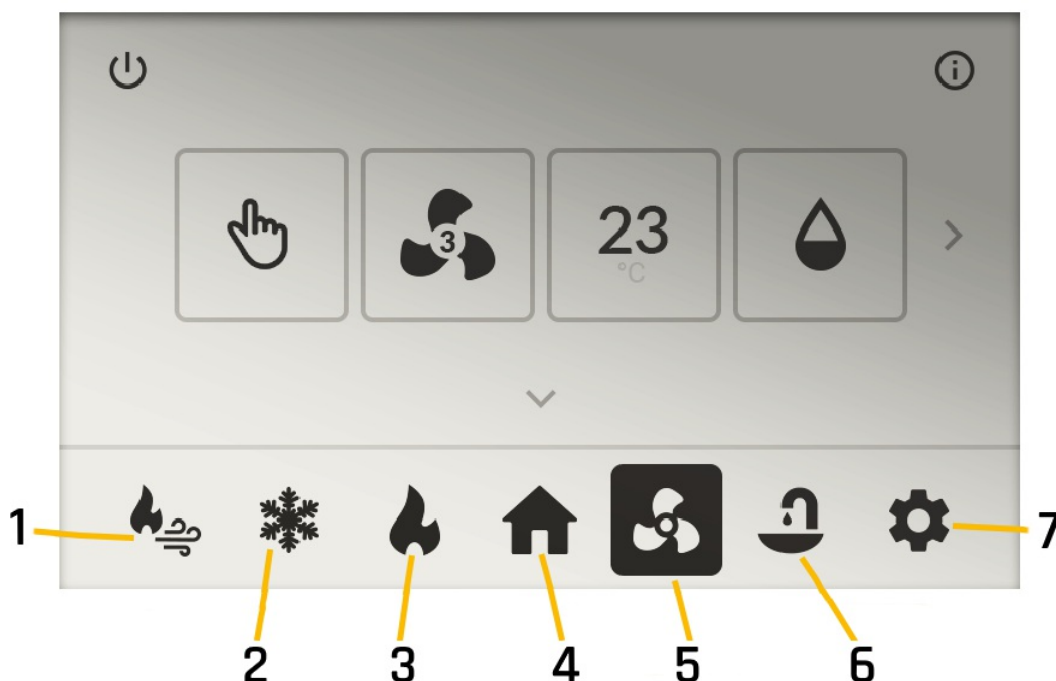


Figure 7 – Quick access tab icons - active ventilation

Legenda k obrázku:

1 - Not available
2 - Not available
3 - Heating
4 - Home screen

5 - Ventilation
6 - Hot water
7 - Settings

- Active icon is inverse - home screen is lit.
- Turning the dial scrolls through the menu items.
- Clicking on a highlighted item opens its respective screen.
- Clicking on the house icon hides the menu and displays the home screen.
- Menu timeout is five seconds - after five seconds of inactivity the display returns to home screen automatically. The timeout is reset when the dial is manipulated.
- Icons in the menu that are not active are displayed in grey and skipped when scrolling. Hot water, Cooling or Heating is only displayed when the subsystem is connected.

Scrolling through items

Unless the subsystem is in the Stand-by state, "Operating Mode" is highlighted by default when entering the Quick Access screen. The currently highlighted item is indicated by a bold black frame. If the item's value can be changed, small arrows appear above and below the item. Turning the dial clockwise moves the highlight in the following order: "Ventilation level", "Temperature setpoint", "Humidity setpoint", "Next page", "Back", "Stand-by" and again "Operating mode". Turn the dial counter-clockwise to scroll through items in reverse order.

If the subsystem is in the Stand-by mode, the Stand-by button is highlighted by default when entering the Quick Access screen. The subsystem items are displayed in grey and show only the most recent status of the subsystem. Turning the dial scrolls through "Next Page" (or "Previous Page"), "Back" and "Stand-by" elements, subsystem items are skipped.

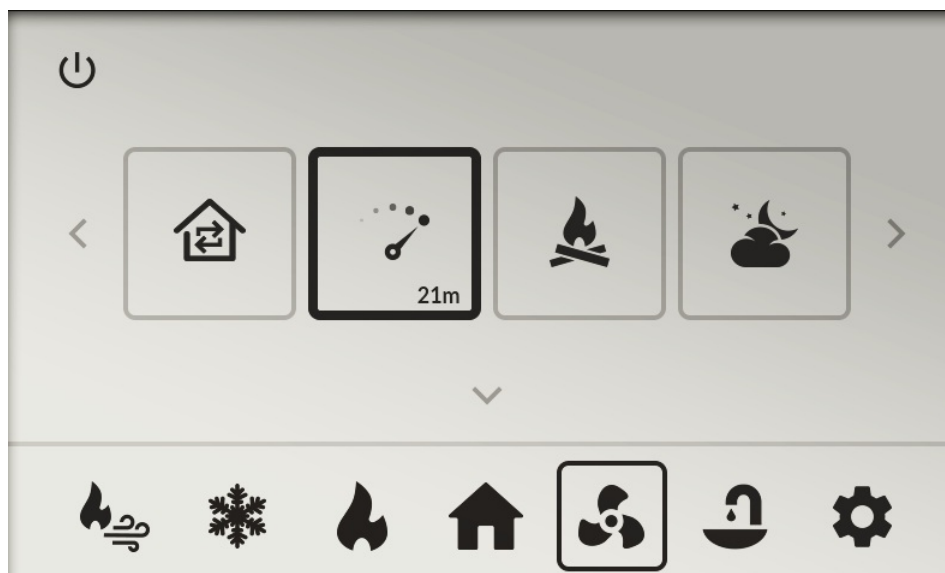


Figure 8 – Scrolling through items

How to select an item and adjust its value

If the currently highlighted item allows the value to be adjusted, small grey arrows appear above and below. Clicking on the item, its icon and the arrows blacken and the value can be changed. Turning the dial adjusts the value of the item within the defined step and range. Subsequent click confirms the new value. This action will highlight the menu item again and enable the user to scroll to other items. Pressing and holding the dial saves new settings. New settings are also saved automatically after ten seconds of inactivity and the quick access screen is displayed.



Figure 9 – Adjusting the value of selected item

9.3. Futura quick access screens

Futura has three basic quick access screens. Their description is stated below.

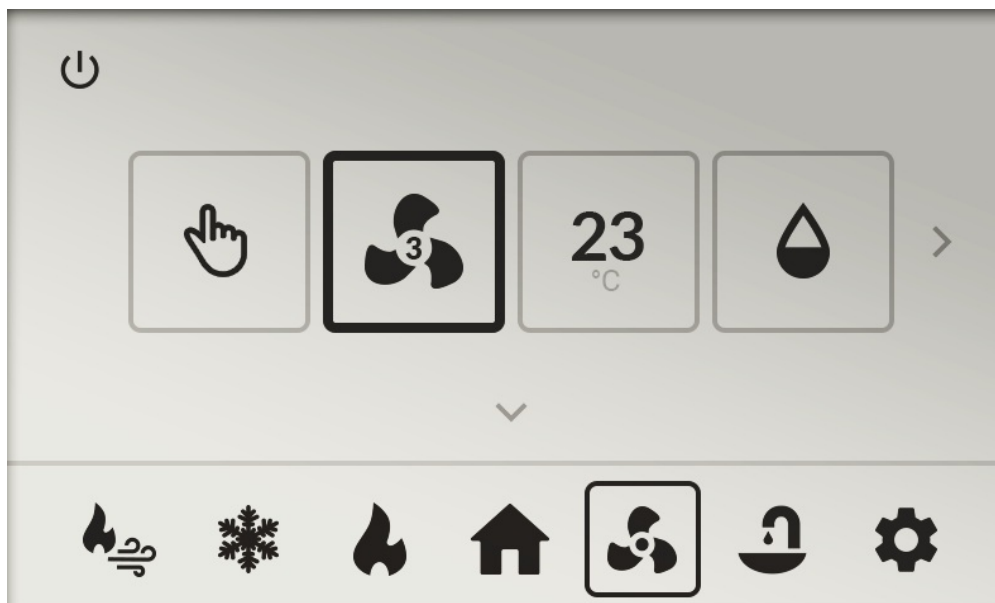


Figure 10 – First quick access screen

- **Operation mode** (adjustable item). Current ventilation mode. Icon shows current ventilation mode (Manual/Time Schedule).
- **Ventilation level** (adjustable item). Ventilation level. Icon shows current ventilation level.
- **Set temperature** (adjustable item). Setting of the preferred temperature. The icon displays the preferred temperature for the master heating system (DELTA).



Figure 11 – Second quick access screen

- **Boost**. Click to display the Time Setting Screen (Quick Access). The icon shows whether the Boost function is active. If active, the Boost icon is displayed along with remaining time (HH:MM). If the Boost function is not active, only the Boost icon is displayed.

- **Overpressure.** Click to display the Time Setting Screen (Quick Access). The icon shows whether the Overpressure function is active. If active, the Overpressure icon is displayed along with remaining time (HH:MM). If the Overpressure function is not active, only the Overpressure icon is displayed.
- **Night Mode.** Clicking this item displays the Time Setting screen (Night Mode page 1). After confirmation (Night Mode page 2) the mode is enabled. Clicking the cancel button disables the night mode. The icon shows whether Night mode is enabled, the item shows Night mode icon and the time from-to "HH:MM-HH:MM". If night mode is not enabled, only the Night mode icon is displayed.

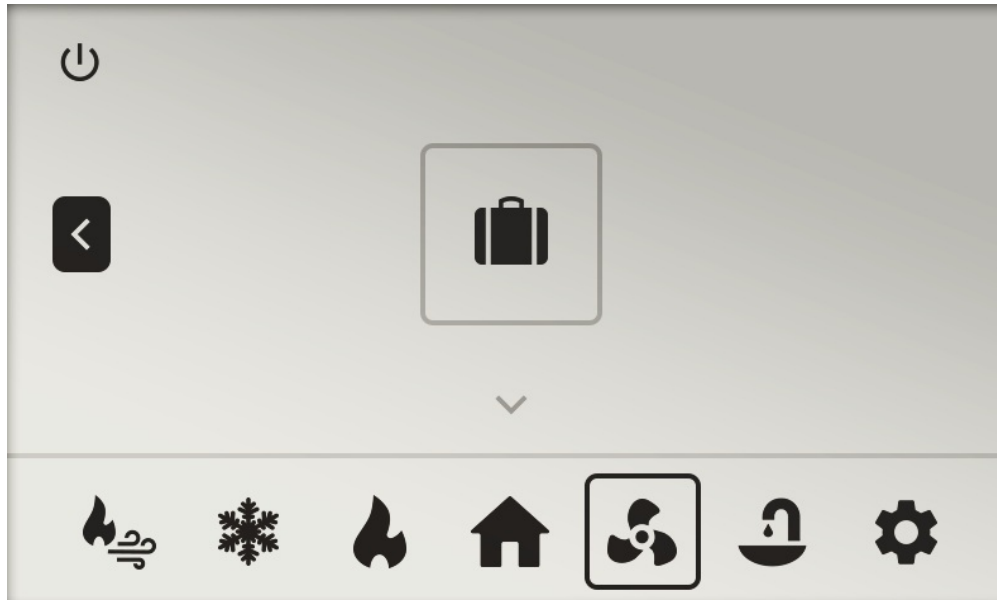


Figure 12 – Third quick access screen

- **Vacation.** Click this item to display the Time Setting Screen (Day/Hour). The icon shows whether Vacation mode is active, the item shows Vacation icon and the time to end (DDd HHh). If Vacation mode is not active, only Vacation icon is displayed.

The "Stand-by" and "Info" buttons are identical for all three screens. Clicking the "Stand-by" button turns the Stand-by mode on or off. Turning Stand-by mode on will disable quick access items.

The unit goes to Stand-by immediately upon clicking the dial - unlike adjustable items that are set by turning the dial.

9.4. Settings quick access screen

Quick access to the Settings menu is done by clicking the "Settings" icon. The icon in menu bar will then be highlighted. Screen header and body will transition to Settings quick access. Then the first item on the left will be highlighted - "Primary Quick Access".

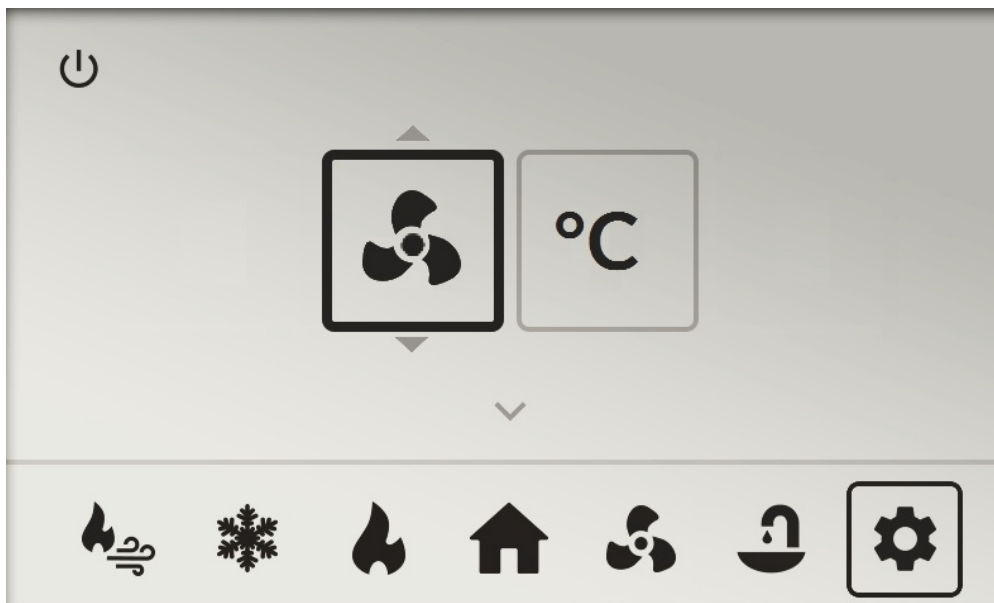


Figure 13 – Settings quick access screen

Scrolling through Settings items

The logic of scrolling through settings items is the same as for Futura quick access. Turning the dial clockwise moves the highlight in the following order: "Temperature unit °C/°F", "Back", and again "Primary Quick Access". Turn the dial counter-clockwise to scroll the items in the reverse order.

Selecting an Item and Changing Its Value

The logic for changing the values of the Settings items is the same as in the Futura quick access menu.

Description of Individual Settings Items

- **"Primary quick access value" item** (adjustable item). Sets the primary value for quick control. The icon shows the currently selected primary quick access value (ventilation/temperature).
- **"Temperature unit °C/°F" item** (adjustable item). Sets the temperature unit (Celsius/Fahrenheit). The icon displays the currently selected unit.
- **"Back" button**. Clicking this item shifts the highlight back to the menu bar, selecting the Settings item.

9.5. Error notifications on home screen

If an error or warning arises in any of the subsystems, the home page header will dim and display an exclamation mark icon. In case of an error LED indicator turns red and flashes at maximum intensity; in case of warning LED flashes orange. If both an error and a warning have occurred, LED indicator flashes red.

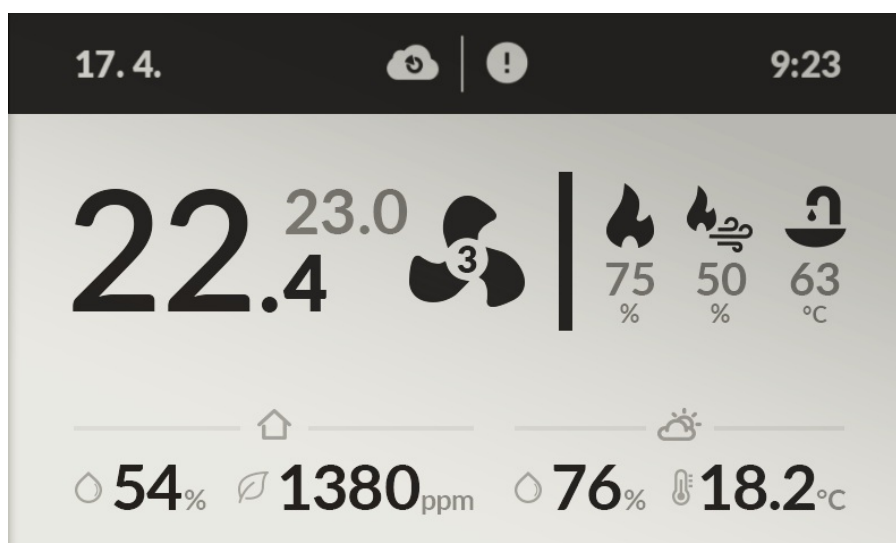


Figure 14 – Example of error notifications

If there is an error indication in home page header, clicking the dial will display the bottom bar menu and the "house" icon will be highlighted. The header and body of the screen will display a complete list of all errors and warnings.

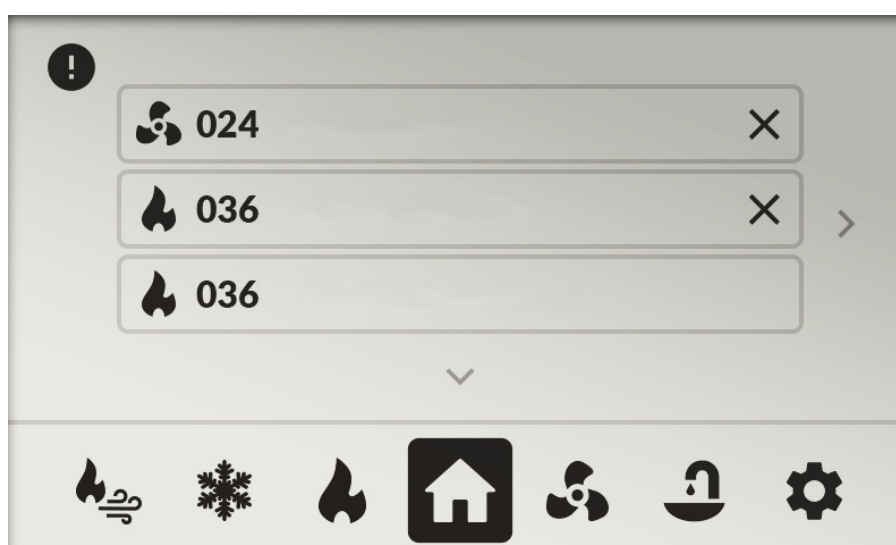


Figure 15 – Error listing screen

Screen with error listing displays a list of all current errors that have occurred in the system. Each error has its own code number. The errors are listed as follows: resettable errors come first, followed by other errors. If an error can be reset by the user, an "x" appears to the right of the error. Clicking the "x" will reset the error and the given entry then disappears from the list. If there are no more errors in the list, the home screen is displayed and the LED light turns off. If there are remaining errors in the list, the "Back" button is highlighted and the error list is updated.

Detailed information about error alerts can be found in the Installation Manual.

After commissioning contrast on Alfa control panel display may be lower. This is not a defect, contrast of the display should improve within an hour of operation.

10. Control of the unit using the JB-112TP thermostat

10.1. Home screen

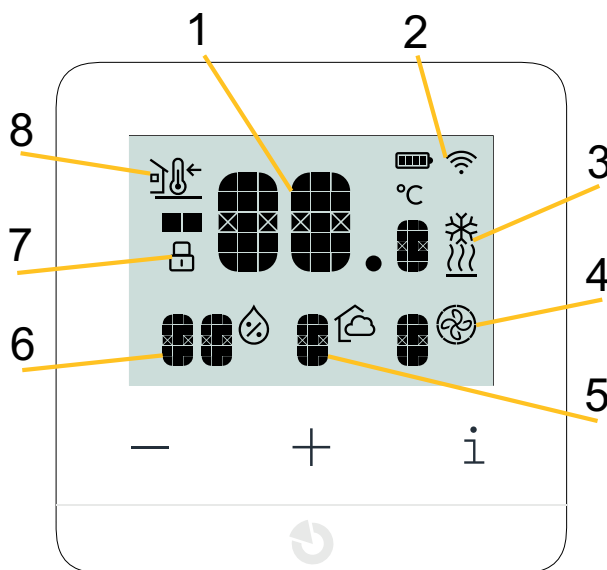


Figure 16 – Description of the icons on the screen

- 1 - Current room temperature
- 2 - Communication status on the bus (continuous blinking of the icon indicates communication failure)
- 3 - Information about heating/cooling mode
- 4 - Set ventilation level
- 5 - Air quality level based on CO₂ value (1 to 5)
- 6 - Current local relative humidity
- 7 - Child lock – press for 2 seconds (i and + to activate, i and - to deactivate)
- 8 - Temperature overview (Room, Floor, Outdoor)

10.2. Ventilation power setting

Using the + and - buttons, you can adjust the ventilation power level. The value is displayed numerically on icon no. 4 (see Figure 17).

0 – Off (Standby) 1 – 5 – Constant ventilation power A – AUTO mode

The selected ventilation power is saved automatically after 3 seconds.

10.3. Preferred Temperature Setting

To change the preferred temperature setting (icon no. 1 in Figure 17), press the i button first, then use the + and - buttons to adjust the value.

The selected value is saved automatically after 3 seconds.

10.4. Boost Mode Activation (Intensive Ventilation)

The boost ventilation mode can be activated by pressing and holding the + button for at least 3 seconds. For setting the duration of the extended **Boost** mode, see Chapter 8.1

11. Controlling the unit using the CO₂ sensor JB-112TH

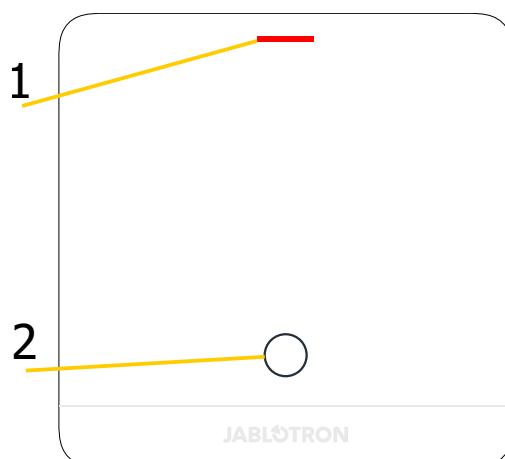


Figure 17 – Description of the components of the CO₂ sensor JB-112TH

1 - Status LED

2 - Control button (a short press displays the unit's status)

11.1. Activating Boost Mode (Intensive Ventilation)

The intensive ventilation mode can be activated by pressing the button at the bottom of the sensor for at least 3 seconds. Activation is confirmed by the flashing of the status LED.

12. Control of heat recovery unit

Control of the heat recovery system has been designed to provide user with easy use and clear information. The heat recovery unit can be controlled both locally and remotely.

12.1. Local control

- One Alfa wall-mounted control panel with integrated CO₂ sensor is included in standard supply; more wall-mounted control panels can be ordered extra (up to eight pieces total).
- Boost ventilation switch (not included in standard supply) and CO₂ sensors are available as additional accessories.

12.2. Remote control

The heat recovery unit can be remotely controlled using MyJABLOTRON mobile application for iOS and Android. It is a unique service that allows online access to the heat recovery unit with full control anytime anywhere via smartphone or tablet (remote monitoring, management of all functions and settings, error notifications and automatic filter change notifications).

12.2.1. Login and basic control

Sign in to MyJABLOTRON. After sign-in, you will see a list of all of your installed JABLOTRON devices. You can access device settings (Futura or CoolBreeze in this case) by tapping on its respective icon.

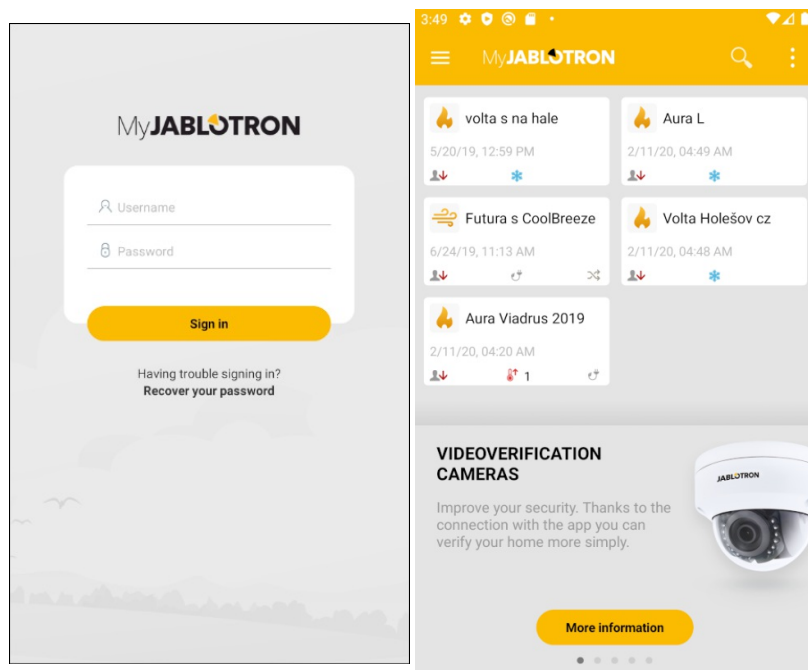


Figure 18 – Application sign-in, Figure 19 – Device selection

You are taken to main menu of the device. As a user, you can control fan speed, supply air temperature and air humidity.

At the same time, you can read current information regarding the unit (mode, status, fan speed), current temperature, humidity, CO₂ concentration and **Boost, Circulation and Overpressure** settings as described above (see chapter Functions of heat recovery unit).

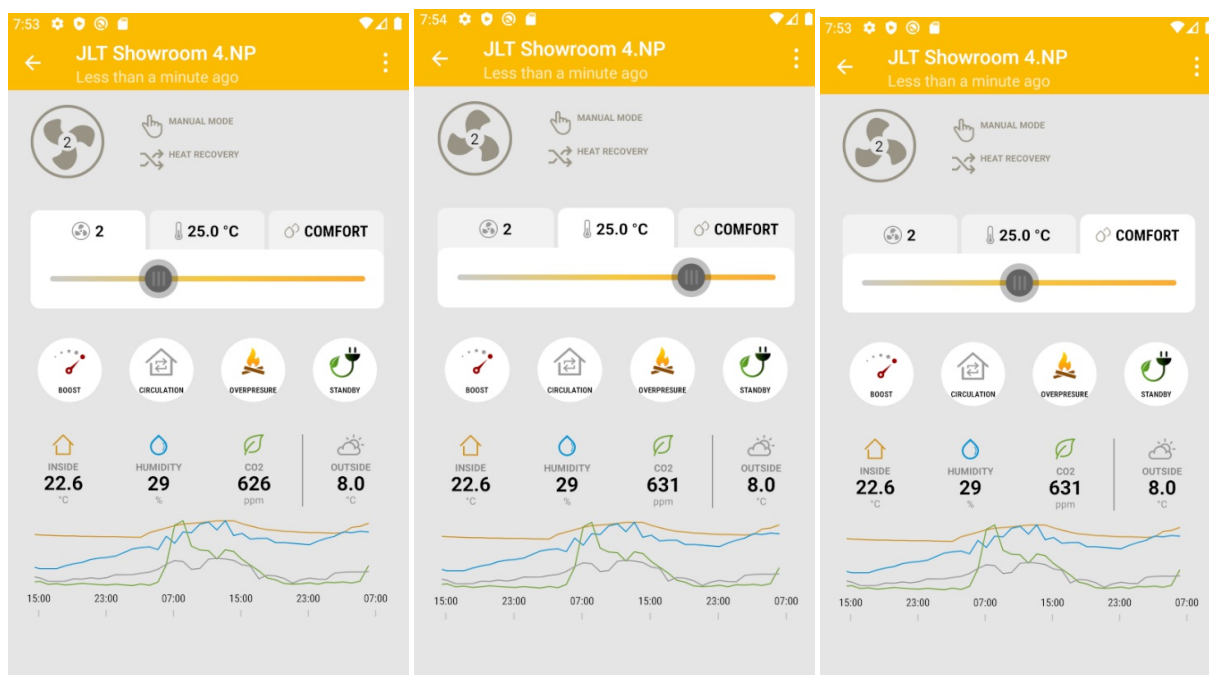


Figure 20 – Setting fan speed level, Figure 21 – Setting temperature, Figure 22 – Setting humidity

12.2.2. Information about the unit

- Tap on the bottom of the screen to see more information about your unit.
- The first screen shows the supply and exhaust air temperatures and humidity. The second screen shows firmware version, hardware revision and unit serial number, which will help you in communicating with our customer support in case of a fault.

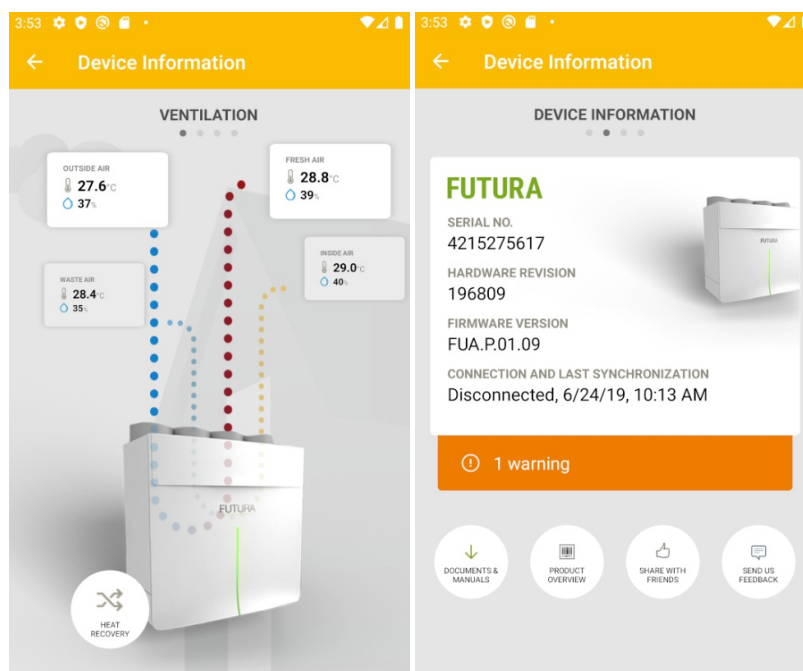


Figure 23 – Ventilation information, Figure 24 – Device information

- Third screen contains information about flow rates assigned to each ventilation level (this is set by HVAC technician during installation - the user cannot adjust this setting), current power consumption and status of unit actuators. The last screen contains your HVAC technician's and our customer support contact information.

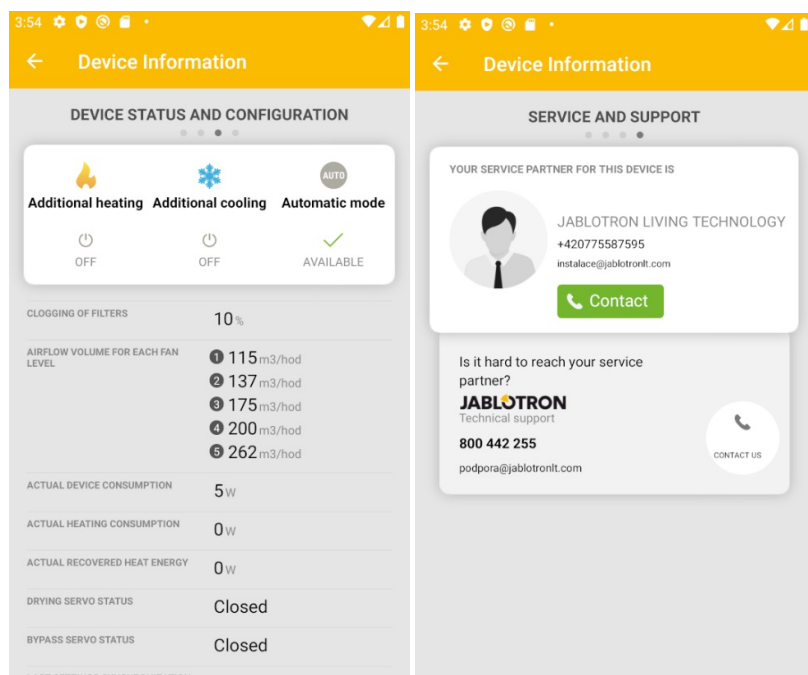


Figure 25 – Flow rates of different ventilation levels, consumption and actuator status, Figure 26 – Your service technician and customer support

12.2.3. Additional Settings

From the main screen, click the three dots in the upper right corner to access an additional menu with more settings, where you can enable or disable various unit modes. The available modes include **Night Mode**, **Party**, and **Vacation**.

In the **"TEMPERATURE CONTROL"** section, it is not possible to activate the **Heating**, **Cooling**, or **Automatic Bypass**. This type of unit does not support these modes!

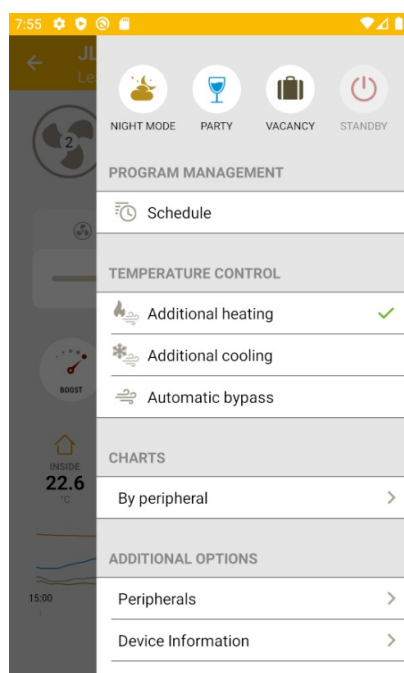


Figure 27 – Mode selection and further

In **GRAPHS** section, you can access graphic information about peripherals, such as CO₂ concentration from CO₂ sensor. Tap on the three dots in the upper right corner to access expanded selection menu for graphs from other sensors.

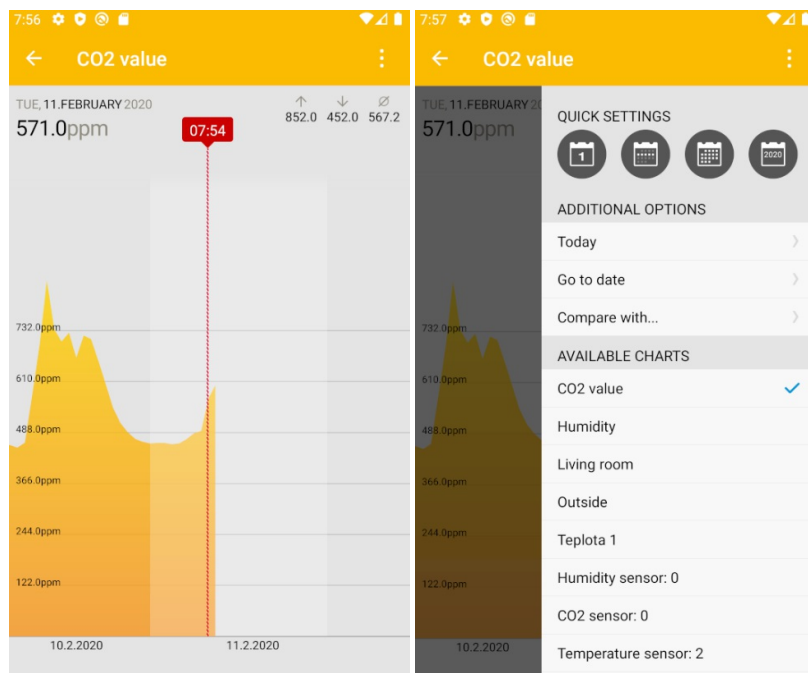


Figure 28 – CO₂ graph, Figure 29 – Available graphs

Last section **MORE OPTIONS** allows you to see individual peripheral sensors. Temperature sensor is pictured, swipe left to see humidity sensor and CO₂ sensor.

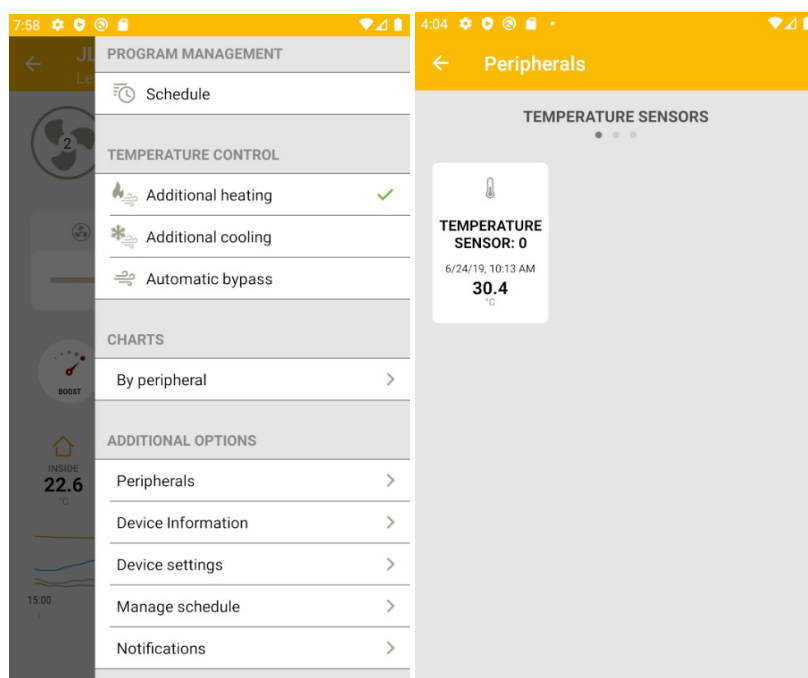


Figure 30 – More options, Figure 31 – Temperature sensor

Device Settings tab allows you to rename your unit, set up information sharing with your HVAC technician, turn **Radon protection** mode on or off, initiate filter change or reset the unit.

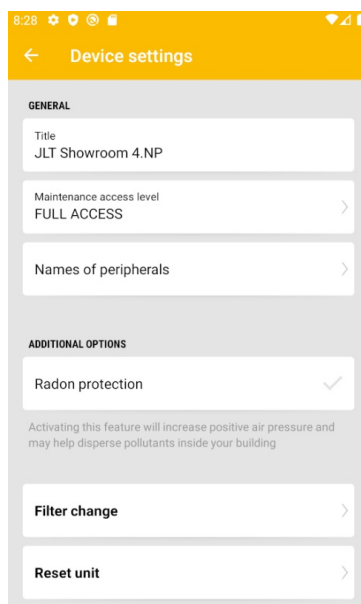


Figure 32 – Device settings

12.2.4. Setting the Time schedule mode

Tap on **Time Schedule settings** tab. Tap on the column below the day of the week that you would like to set Time Schedule for. An adjustable vertical bar representing ventilation time span appears. Drag the top/bottom of the bar to set start/end time. Tap on the bar again to select ventilation mode for given time span, as shown in figure 33. You can set more time spans and schedule remaining days of the week the same way. An incorrectly set time span can be deleted anytime. Tap on it, then drag and drop it to the trash bin (bottom right). To save the schedule, tap on the check mark in the top right corner.

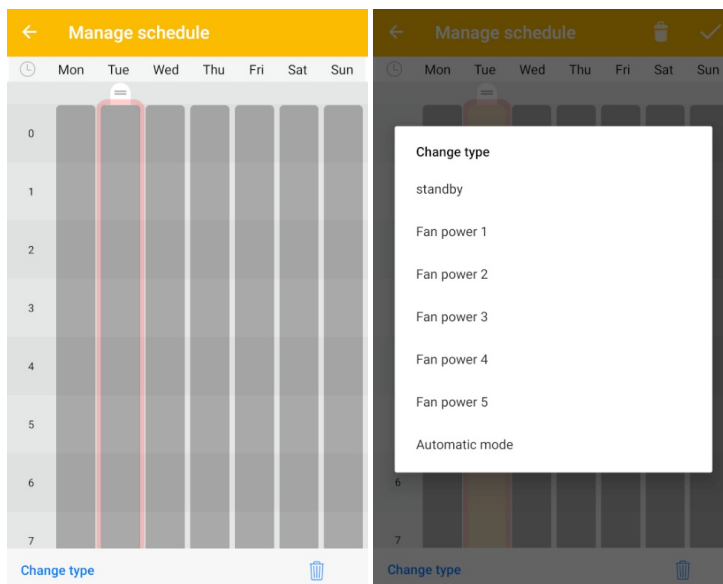


Figure 33 – Time schedule, Figure 34 – Select mode for time span

12.3. Sharing access to Futura

Sharing menu allows you to configure how you share access to Futura with other users along with different levels of their access rights.

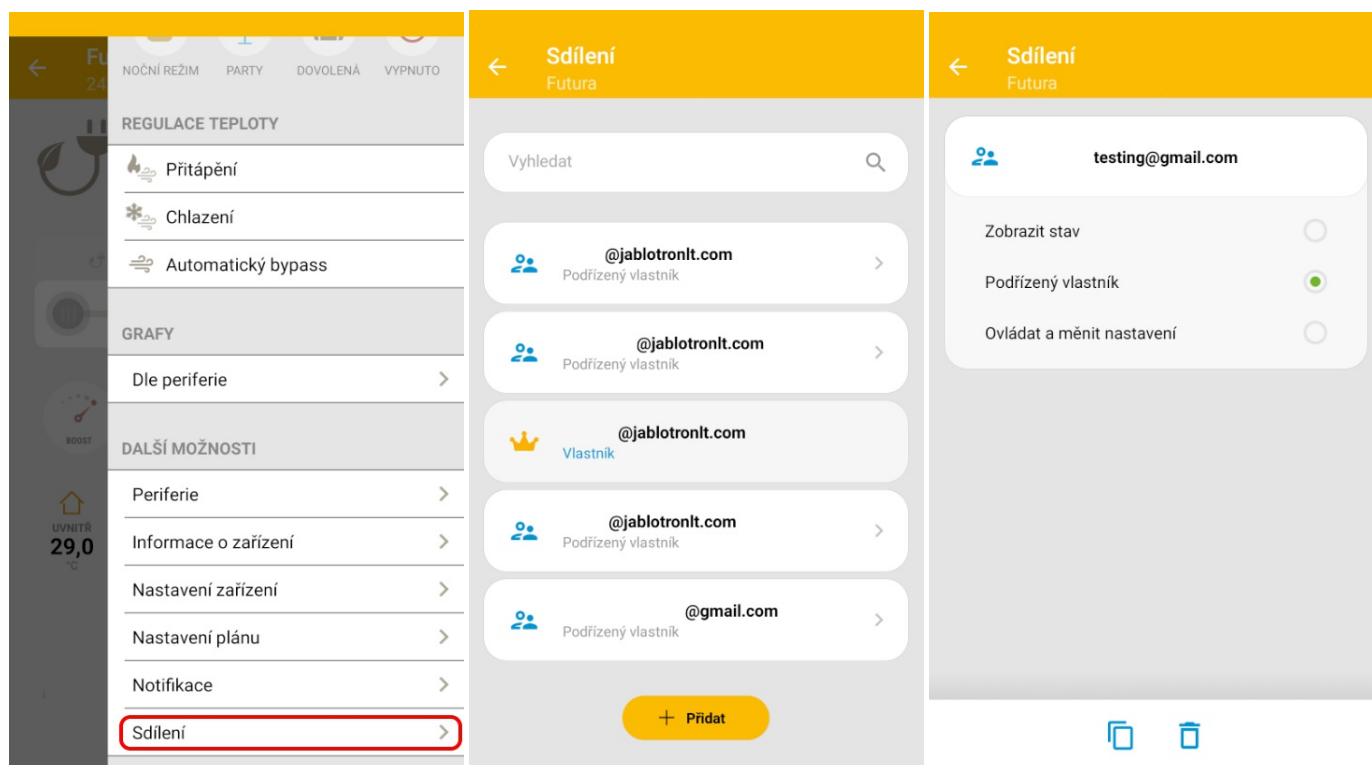


Figure 35 – Sharing tab, Figure 36 – List of users, Figure 37 – Access levels

There are four different levels of access rights that you can set for other users. They are listed below:

Owner

Owner is the user with superior rights. The device is registered with this user. Owner can control all settings of the unit, add other users and set a level of access for each of them.

Subordinated owner

Subordinated owner has the same rights regarding unit settings as Owner, but is not allowed to add new Subordinated owners. However, Subordinated owner can add new users with "Control and adjust settings" and "View status" access level.

Control and adjust settings User with this level of access can adjust only selected settings that a superior user grants an access to when adding them. User with "Control and adjust settings" access level is not allowed to add other users.

View status User with this level of access is allowed to view status of selected devices and their corresponding values. Visible devices are selected by the superior user when the user with "View status" access is added. User with "View status" access level is not allowed to add other users.

To add a new user click the "Add" button on the bottom of the screen. Then enter user's email address and select the level of access rights (see above). The level of access rights can be customized and you can select settings and functions that will be accessible to the new user.

13. Warranty

JABLOTRON LIVING TECHNOLOGY CZ s.r.o. provides a 25-month warranty and an additional 36-month extended service support for the device to its business partners who handle its installation, commissioning, and subsequent servicing. The warranty period begins once the unit is commissioned by a certified installation partner.

Acknowledgment of warranty claims is subject to compliance with all instructions given in the User Manual, which is part of the delivery. In particular, the following is required:

- Regular maintenance by an authorized service partner of JABLOTRON LIVING TECHNOLOGY CZ s.r.o. throughout the warranty period, in intervals specified by the manufacturer (at least once a year),
- Periodic replacement of filters (based on indication by Futura).

Warranty conditions

- The unit was supplied and commissioned by a certified installation partner of JABLOTRON LIVING TECHNOLOGY CZ s.r.o.
- The device is permanently connected to the Jablotron cloud services (taking into account intermittent network outages).
- The unit is checked at least once a year by an authorized service partner of JABLOTRON LIVING TECHNOLOGY CZ s.r.o.
- The unit is used in accordance with the manual and is not subject to unauthorized repairs.
- No modifications were made to the installation of the ventilation system which would go against installation recommendations of JABLOTRON LIVING TECHNOLOGY CZ s.r.o.
- Filters are replaced within 30 days of replacement indication. We recommend to enable notification of replacement need in MyJABLOTRON mobile application.

Warranty scope

JABLOTRON LIVING TECHNOLOGY CZ s.r.o. undertakes to repair the defective product free of charge during the extended warranty period, namely:

- 5 years from the date of commissioning by a certified installation partner.
- The warranty does not cover the costs of installation works related to the defective product (e.g. unmounting and mounting of the unit).
- In the event of a warranty claim, no repairs on the device may be performed without prior written consent of the manufacturer or supplier.

Warranty expires if:

- The warranty period has expired.
- The device has been subject to unauthorized changes or modifications.
- Parts not supplied by the manufacturer have been built into the unit.
- The device was used in an improper or incorrect way.
- The device has been damaged as a result of faulty connections, contamination in the system, natural disasters, or electrical grid failure.
- No filters were replaced upon reset indication.
- Filters were not replaced within 30 days of indication.

14. Disposal

14.1. Information for users regarding the disposal of electrical and electronic appliances (households)



Figure 38 – Separate collection symbol

This symbol stated on the product or within the product documentation means that the item shall not be placed in the unsorted municipal waste. For proper disposal of the item, please return it to the designated collection points, where it will be accepted for free. By ensuring this product is disposed of correctly, you will help preserve valuable natural resources and prevent potential negative effects on the environment and human health. Contact your local authority or the nearest collection point for further details. Improper disposal of this type of waste may result in fines imposed in accordance with national regulations.

14.2. Information for users regarding the disposal of electrical and electronic appliances (corporate and business)

For proper disposal of electrical and electronic items, please request detailed information from your dealer or supplier.

14.3. Information regarding disposal of electrical and electronic items for users outside the European Union

The above symbol is only valid in the countries of the European Union. To ensure proper disposal of electrical and electronic items, request detailed information from your local authorities or equipment dealer.



Your installer/distributor:

