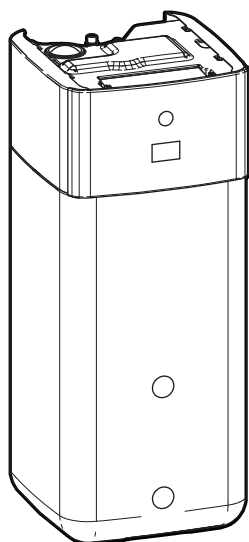


User reference guide

Daikin Altherma 4 H ECH₂O



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1 About this document

Thank you for purchasing this product. Please:

- Read the documentation carefully before operating the user interface to ensure the best possible performance.
- Request that the installer inform you about the settings that were used to configure your system. Check if the installer settings tables are filled in. If NOT, ask the installer to do so.
- Keep the documentation for future reference.

Target audience

End users

Documentation set

This document is part of a documentation set. The complete set consists of:

- **General safety precautions:**
 - Safety instructions that you must read before installing
 - Format: Paper (in the box of the indoor unit)
- **Operation manual:**
 - Quick guide for basic usage
 - Format: Paper (in the box of the indoor unit)
- **User reference guide:**
 - Detailed step-by-step instructions and background information for basic and advanced usage
 - Format: Digital files on <https://www.daikin.eu>. Use the search function 🔍 to find your model.
- **Installation manual – Outdoor unit:**
 - Installation instructions
 - Format: Paper (in the box of the outdoor unit)
- **Installation manual – Indoor unit:**
 - Installation instructions
 - Format: Paper (in the box of the indoor unit)
- **Installer reference guide:**
 - Preparation of the installation, good practices, reference data, ...
 - Format: Digital files on <https://www.daikin.eu>. Use the search function 🔍 to find your model.
- **Configuration reference guide:**
 - Configuration of the system.
 - Format: Digital files on <https://www.daikin.eu>. Use the search function 🔍 to find your model.
- **Addendum book for optional equipment:**
 - Additional info about how to install optional equipment
 - Format: Paper (in the box of the indoor unit) + Digital files on <https://www.daikin.eu>. Use the search function 🔍 to find your model.

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your installer.

The original instructions are written in English. All other languages are translations of the original instructions.

ONECTA app



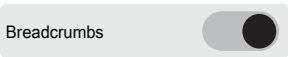
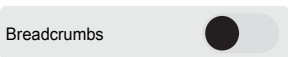
If set up by your installer, you can use the ONECTA app to control and monitor the status of your system. For more information, see:

<http://www.onlinecontroller.daikineurope.com/>



Breadcrumbs

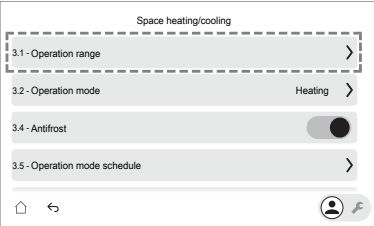
Breadcrumbs (example: **[3.1]**) help you to locate where you are in the menu structure of the user interface.

1	To enable the breadcrumbs: tap the right arrow on the home screen, then tap Settings. Under [5.4] Settings > Breadcrumbs you can switch breadcrumbs ON: 
2	To disable the breadcrumbs: navigate to the location as described above, and switch breadcrumbs OFF: 

This document also mentions these breadcrumbs. **Example:**

1	Go to [3.1]: Space heating/cooling > Operation range .
---	--

This means:

1	Starting from the home screen, tap the right arrow and tap Space heating/cooling. 
2	Tap Operation range. The breadcrumb (if breadcrumb setting is ON) is visible at the left side of the Operation range label. 

1.1 Meaning of warnings and symbols

	DANGER Indicates a situation that results in death or serious injury.
	DANGER: RISK OF ELECTROCUTION Indicates a situation that could result in electrocution.
	DANGER: RISK OF BURNING/SCALDING Indicates a situation that could result in burning/scalding because of extreme hot or cold temperatures.
	DANGER: RISK OF EXPLOSION Indicates a situation that could result in explosion.
	WARNING Indicates a situation that could result in death or serious injury.
	WARNING: FLAMMABLE MATERIAL
	CAUTION Indicates a situation that could result in minor or moderate injury.
	NOTICE Indicates a situation that could result in equipment or property damage.
	INFORMATION Indicates useful tips or additional information.

Symbols used on the unit:

Symbol	Explanation
	Before installation, read the installation and operation manual, and the wiring instruction sheet.
	Before performing maintenance and service tasks, read the service manual.
	For more information, see the installer and user reference guide.
	The unit contains rotating parts. Be careful when servicing or inspecting the unit.

Symbols used in the documentation:

Symbol	Explanation
	Indicates a figure title or a reference to it. Example: "▲ 1–3 Figure title" means "Figure 3 in chapter 1".

Symbol	Explanation
	Indicates a table title or a reference to it. Example: "  1–3 Table title" means "Table 3 in chapter 1".

2 User safety instructions

Always observe the following safety instructions and regulations.

2.1 General



WARNING

If you are NOT sure how to operate the unit, contact your installer.



WARNING

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children SHALL NOT play with the appliance.

Cleaning and user maintenance SHALL NOT be made by children without supervision.



WARNING

To prevent electrical shocks or fire:

- Do NOT rinse the unit.
- Do NOT operate the unit with wet hands.
- Do NOT place any objects containing water on the unit.



CAUTION

- Do NOT place any objects or equipment on top of the unit.
- Do NOT sit, climb or stand on the unit.

- Units are marked with the following symbol:



This means that electrical and electronic products may NOT be mixed with unsorted household waste. Do NOT try to dismantle the system yourself: dismantling the system, treatment of the refrigerant, of oil and of other parts MUST be done by an authorised installer and MUST comply with applicable legislation.

Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

- Batteries are marked with the following symbol:



This means that the batteries may NOT be mixed with unsorted household waste. If a chemical symbol is printed beneath the symbol, this chemical symbol means that the battery contains a heavy metal above a certain concentration.

Possible chemical symbols are: Pb: lead (>0.004%).

Waste batteries MUST be treated at a specialised treatment facility for reuse. By ensuring waste batteries are disposed of correctly, you will help to prevent potential negative consequences for the environment and human health.

2.2 Instructions for safe operation



WARNING

If the supply cord is damaged, it MUST be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



WARNING

The appliance shall be stored in a room without ignition sources (neither permanent ignition sources nor ignition sources for a short period of time) (example: open flames, an operating gas appliance or an operating electric heater).



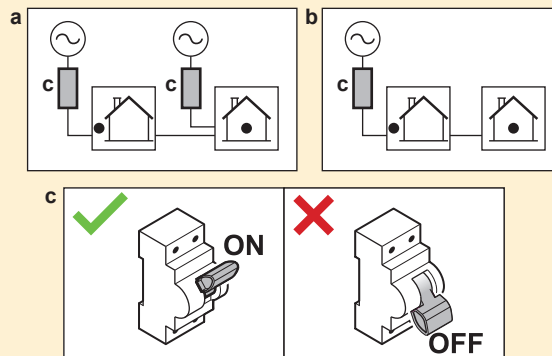
WARNING

- Do NOT pierce or burn refrigerant cycle parts.
- Do NOT use cleaning materials or means to accelerate the defrosting process other than those recommended by the manufacturer.
- Be aware that the refrigerant inside the system is odourless.



WARNING

After commissioning, do NOT turn OFF the circuit breakers (c) to the units so that the protection remains activated. In case of indoor unit supplied separately (a), there are two circuit breaker. In case of indoor unit supplied from the outdoor unit (b), there is one circuit breaker.



WARNING

To ensure safety in the unlikely event of a refrigerant leak:

- Do NOT bring any ignition sources within the protective zone around the outdoor unit. Neither permanent ignition sources nor ignition sources for a short period of time (example: open flames, ...).
- Do not enclose the area around the outdoor unit to avoid accumulation of refrigerant.



WARNING

Do NOT open the unit (especially the outdoor unit). Both indoor unit and outdoor unit have a gas leak detection sensor. When a flammable gas is detected, the outdoor unit fan will start to rotate in order to dilute the gas with the surrounding air.



WARNING

Do NOT use sprays containing any flammable gas inside or near the unit. This could trigger the gas leak detection and cause the outdoor unit fan to start rotating.

**WARNING**

Air purging heat emitters or collectors. Before you purge air from heat emitters or collectors, check if  or  is displayed on the home screen of the user interface.

- If not, you can purge air immediately.
- If yes, make sure that the room where you want to purge air is sufficiently ventilated. **Reason:** In case of a breakdown, refrigerant might leak into the water circuit, and subsequently into the room when you purge air from the heat emitters or collectors.

3 About the system

Depending on the system layout, the system can:

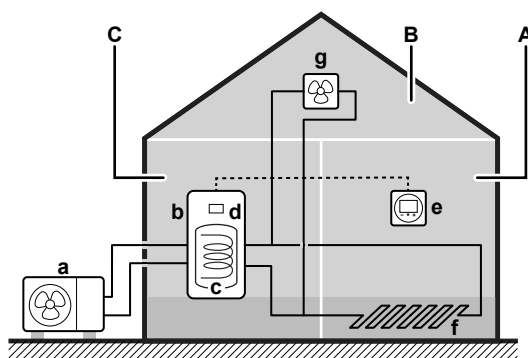
- Heat up a space
- Cool down a space
- Produce domestic hot water



INFORMATION

If underfloor heating is installed in the main zone, then in cooling mode the main zone can only provide refreshment. Real cooling is then NOT allowed.

3.1 Components in a typical system layout



- A** Main zone. **Example:** Living room.
- B** Additional zone. **Example:** Bedroom.
- C** Technical room. **Example:** Garage.
- a** Outdoor unit heat pump
- b** Indoor unit heat pump
- c** Energy storage tank
- d** Domestic hot water (DHW) tank
- e** User interface of the indoor unit
- f** Dedicated Human Comfort Interface (BRC1HH used as room thermostat)
- g** Underfloor heating
- h** Radiators, heat pump convectors, or fan coil units



INFORMATION

The indoor unit and the domestic hot water tank (if installed) can be separated or integrated depending on the indoor unit type.

4 Quick guide

4.1 Turning operation ON or OFF

Space heating/cooling operation



NOTICE

Room frost protection. Even if you turn OFF space heating/cooling operation, room frost protection operation –if enabled– can still activate. However, for external room thermostat control, the protection is only active in case of a thermostat request.



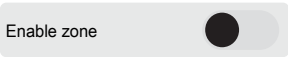
NOTICE

Water pipe freeze prevention. Even if you turn OFF space heating/cooling operation, water pipe freeze prevention –if enabled– will remain active.

In case you want to turn off ALL space heating/cooling:

1	Tap on the Spaces bar from the home screen.
2	Tap the  icon to turn climate control ON or OFF.
3	Confirm with the  button. Result: When OFF, the Space heating/cooling screen area on the home screen is greyed out.

In case you only want to turn off an individual zone:

1	Restriction: Turning off an individual zone is only possible in case of LWT control. Tap on the emitter icon of a zone on the home screen, OR go to: ▪ [1.17] Main zone > Enable zone. ▪ [2.15] Additional zone > Enable zone.
2	Switch the zone OFF:  Result: When OFF, the zone screen area is greyed out.

Tank heating operation



NOTICE

Disinfection mode. Even if you turn OFF tank heating operation, disinfection mode will remain active (if enabled).

1	Go to [4.1]: Domestic hot water > Single heat-up . Note: Tap on the Domestic hot water bar from the home screen to quickly access [4.1].
2	Tap the  icon to turn Domestic hot water ON or OFF.
3	Confirm with the  button. Result: When OFF, the Domestic hot water screen area on the home screen is greyed out.

4.2 To change the desired room temperature

During room temperature control, you can use the room temperature setpoint screen to read out and adjust the desired room temperature.

1	Go to [1.1] Main zone > Room setpoint . Note: From the home screen, tap on the main zone temperature screen area to quickly access [1.1].
2	Adjust the desired room temperature: 
3	Confirm with the ✓ button.

More information

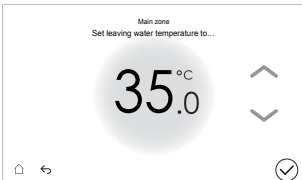
For more information, see also:

- "4.1 Turning operation ON or OFF" [▶ 13]
- "5.3 Space heating/cooling control" [▶ 26]
- "5.5 Schedules" [▶ 40]

4.3 To change the desired leaving water temperature

In case no weather-dependent curve is used

You can adjust the fixed leaving water temperature as follows:

1	Go to: ▪ [1.39] Main zone > Leaving water temp. heating ▪ [1.42] Main zone > Leaving water temp. cooling ▪ [2.30] Additional zone > Leaving water temp. heating ▪ [2.36] Additional zone > Leaving water temp. cooling Note: From the home screen, tap on the main or additional zone temperature screen area to quickly access [1.39], [1.42], [2.30] or [2.36] (depending on the operation mode). Note: In case of weather-dependent mode, LWT is not controlled by this setting.
2	Adjust the desired leaving water temperature: 
3	Confirm with the ✓ button.

In case weather-dependent curve is used

Note: For more information on weather-dependent operation, see "5.6 Weather-dependent curve" [▶ 50].

You can set a temperature shift to the weather-dependent curve leaving water temperature as follows:

1	Go to: ▪ [1.27] Main zone > Leaving water shift heating ▪ [1.28] Main zone > Leaving water shift cooling ▪ [2.22] Additional zone > Leaving water shift heating ▪ [2.23] Additional zone > Leaving water shift cooling
2	Adjust the desired leaving water shift temperature. Note: The temperature shift value can be set in 1°C increments.
3	Confirm with the ✓ button.

More information

For more information, see also:

- "4.1 Turning operation ON or OFF" [▶ 13]
- "5.3 Space heating/cooling control" [▶ 26]
- "5.5 Schedules" [▶ 40]
- "5.6 Weather-dependent curve" [▶ 50]

4.4 To change the tank temperature setpoint

To change the tank temperature setpoint

In **Reheat** mode, you can use the tank temperature setpoint screen to adjust the domestic hot water temperature.

1	Go to [4.5]: Domestic hot water > Reheat setpoint .
2	Adjust the domestic hot water temperature:

More information

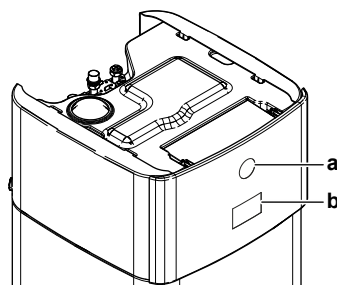
For more information, see also:

- "4.1 Turning operation ON or OFF" [▶ 13]
- "5.4 Domestic hot water control" [▶ 35]
- "5.5 Schedules" [▶ 40]

5 Operation

5.1 User interface: Overview

The user interface has the following components:



a Status indicator
b Touch screen display

Status indicator

The LEDs of the status indicator light up or blink to show the operating mode of the unit.

LED	Mode	Description
Blinking blue	Standby	The unit is not in operation.
Continuous blue	Operation	The unit is in operation.
Blinking red	Malfunction	A malfunction occurred. See "8.1 To display the help text in case of a malfunction" [▶ 64] for more information.

Touchscreen display

The backlight of the touchscreen dims after four minutes of non-interaction with the user interface, and turns off when five minutes have passed. Tapping the touchscreen turns the backlight back on.

Touch gestures

Interaction with the touchscreen display can be done with the following gestures:

	Gesture	Description
	Tap	Quickly tapping the touch screen on a specific item or area.
	Swipe up/down	One or more fingers touch the screen and move a short distance in up or down direction.
	Drag horizontally	Press and hold while moving in a horizontal direction.

5.1.1 Menu structure: Overview user settings

**INFORMATION**

Depending on the selected installer settings and unit type, settings will be visible/invisible.

**NOTICE**

When changing a setting, the operation is temporarily stopped. Operations will restart when you return to the home screen.

[1] Main zone

- [1.1] Room setpoint
- [1.2] Heating schedule enable
- [1.3] Heating schedule
- [1.4] Cooling schedule
- [1.5] Heating setpoint mode (Advanced user)
- [1.7] Cooling setpoint mode (Advanced user)
- [1.8] Heating WD curve
- [1.9] Cooling WD curve
- [1.10] Hysteresis
- [1.11] Emitter type
- [1.17] Enable zone
- [1.21] Zone name
- [1.22] Antifrost
- [1.23] Cooling schedule enable
- [1.24] Leaving water shift heating schedule
- [1.25] Leaving water shift cooling schedule
- [1.27] Leaving water shift heating
- [1.28] Leaving water shift cooling
- [1.29] Heating comfort setpoint (Advanced user)
- [1.30] Cooling comfort setpoint (Advanced user)
- [1.32] Room enable
- [1.33] External room sensor offset (Advanced user)
- [1.34] Heating target baseline
- [1.35] Cooling target baseline
- [1.36] Leaving water shift heating mode
- [1.37] Leaving water shift cooling mode
- [1.38] Thermostat sensor offset (Advanced user)
- [1.39] Leaving water temp. heating
- [1.42] Leaving water temp. cooling

[2] Additional zone

- [2.2] Heating schedule enable
- [2.3] Heating schedule
- [2.4] Cooling schedule
- [2.5] Heating setpoint mode (Advanced user)
- [2.7] Cooling setpoint mode (Advanced user)
- [2.8] Heating WD curve
- [2.9] Cooling WD curve
- [2.11] Emitter type
- [2.15] Enable zone
- [2.18] Leaving water shift heating schedule
- [2.19] Leaving water shift cooling schedule
- [2.21] Zone name
- [2.22] Leaving water shift heating
- [2.23] Leaving water shift cooling
- [2.27] Cooling schedule enable
- [2.30] Leaving water temp. heating
- [2.31] Leaving water shift heating mode
- [2.32] Leaving water shift cooling mode
- [2.36] Leaving water temp. cooling

[3] Space heating/cooling

- [3.1] Operation range

- [3.2] Operation mode
- [3.4] Antifrost (Advanced user)
- [3.5] Operation mode schedule

[4] Domestic hot water

- [4.1] Single heat-up
- [4.3] Manual setpoint
- [4.4] Powerful operation setpoint
- [4.5] Reheat setpoint
- [4.12] Hysteresis
- [4.16] Add. source take over during SH/C
- [4.17] Add. source DHW always on request
- [4.19] Reheat Trigger Threshold (Advanced user)
- [4.24] Enable reheat schedule
- [4.25] Reheat schedule
- [4.26] DHW pump schedule

[5] Settings

- [5.2] Quiet operation
- [5.3] Time/date
- [5.4] Breadcrumbs (on/off)
- [5.6] Capacity shortage (Advanced user)
- [5.9] Location and language
- [5.10] Timezone
- [5.12] Keyboard lay-out
- [5.13] Advanced settings
- [5.17] Display brightness
- [5.23] Emergency selection
- [5.26] Display inactivity timer
- [5.27] Holiday (Advanced user)
- [5.30] Emergency acknowledgement
- [5.31] Tank energy for space heating during defrost (Advanced user)
- [5.38] Tank support

[6] Information

- [6.1] Energy data
- [6.2] Dealer information
- [6.3] Sensors
- [6.4] Actuators
- [6.5] Operation modes
- [6.6] About
- [6.7] Indoor unit model name
- [6.8] Indoor unit serial number

[8] Connectivity

- [8.1] TCP/IP configuration
- [8.2] Connection status
- [8.3] Wireless gateway
- [8.4] Connection details
- [8.5] Daikin Home Controls
- [8.7] Modbus TCP/IP (502)
- [8.8] Modbus TCP/IP TLS (802)

[9] Energy

- [9.1] Electricity price (Advanced user)
- [9.2] Electricity price baseline (Advanced user)
- [9.3] Electricity price schedule enable (Advanced user)
- [9.4] Electricity price schedule
- [9.5] Gas price (Advanced user)
- [9.13] Energy price considered (Advanced user)

[11] Malfunctioning

5.1.2 Possible screens: Overview

INFORMATION

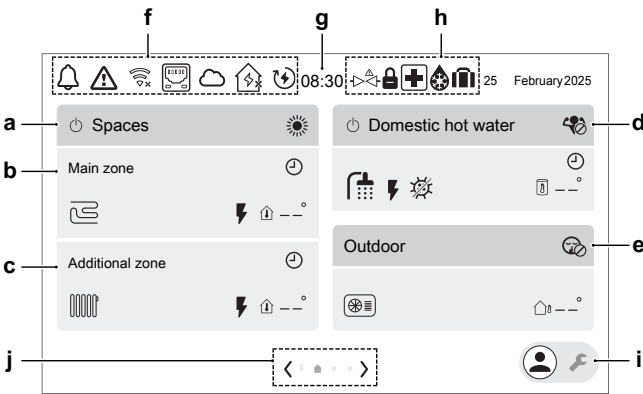
Some functions are visualised on the user interface, but are not available for your system.

The most common screens are as follows:

- Home screen
- Energy flow – System overview screen
- Main screen (two screens)
- Setpoint screen

Home screen

The home screen gives an overview of the unit configuration and the room and setpoint temperatures. Only symbols applicable for your configuration are visible on the home screen.



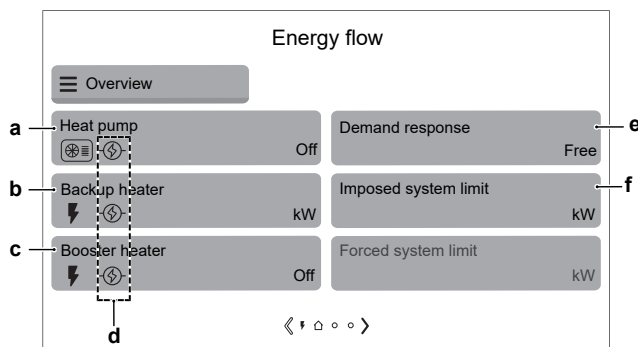
Item		Description
a	Spaces	Shortcut to setting [3.2].
	a1	Climate control ON / OFF
	a2	Operation mode:
		Heating
		Cooling
b	Main zone	Automatic
		This zone can be renamed in Zone name [1.21])
		b1 Heat emitter type:
		Underfloor heating
	b2	Heat pump convector
		Radiator
	b2	Backup heater ON
	b3	Measured temperature (Main zone)

Item		Description
c	Additional zone This zone can be renamed in Zone name [2.21])	
	c1	Heat emitter type:
		 Underfloor heating
		 Heat pump convector
		 Radiator
	c2	 Backup heater ON
	c3	 Measured temperature (Additional zone)
d	Domestic hot water Shortcut to setting [4.1].	
	d1	 Domestic hot water ON / OFF
	d2	Powerful operation mode:
		 Powerful operation mode ON
		 Powerful operation mode OFF
	d3	 Domestic hot water ON
	d4	 Booster heater (in case of wall-mounted units) or backup heater (in case of floor-standing or ECH ₂ O units) ON
	d5	DHW operation mode:
		 Disinfection mode active
		 Manual mode ON
		 Powerful operation mode ON
		 Reheat mode active
		 Schedule and reheat mode active
		 Scheduled reheat mode active
	d6	 Measured tank temperature
e	Outdoor Shortcut to setting [5.2].	
	e1	 Outdoor unit
	e2	Quiet operation:
		 Off
		 Manual
		 Scheduled
	e3	Quiet operation level:
		 Quiet
		 More quiet
		 Most quiet
	e4	 Measured outdoor temperature

Item		Description
f	Status icons	
	f1	 A warning occurred.
	f2	 An error occurred.
	f3	WiFi
		 WiFi connected
		 WiFi disconnected
	f4	 LAN connected
	f5	Daikin ONECTA
		 Connected
		 Not connected
	f6	Daikin HomeHub
		 Connected
		 Not connected
		 Warning
	f7	 Smart energy enabled
	f8	 Demo mode active
g	Clock	
h	Special functions	
	h1	 Safety valve closed
	h2	 Holiday
	h3	 Antifrost
	h4	 Emergency
	h5	 Outdoor unit is in locked state. Note: Unlocking can only be performed by a trained installer.
i	Installer switch. To switch between user and installer mode.	
		User mode
		Installer mode
j	Navigation / pagination	

Energy flow – System overview screen

Starting from the home screen, tap the left arrow to view the system overview screen.



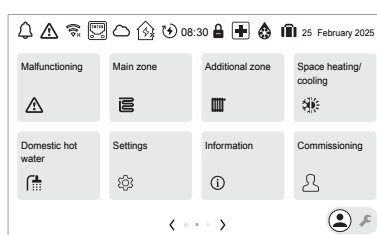
Item		Description
a	Heat pump	Shows the status of the heat pump (On/Off).
b	Backup heater	Shows the active capacity of the backup heater. (⚡ = electrical heater)
c	Booster heater	Shows the status of the booster heater (if applicable) (On/Off). (⚡ = electrical heater)
d	Shows the demand response status (limiting status) of each actuator:	
	⊖	The actuator is actively forced OFF via demand response.
	⊖ (red)	The limit is active but overruled.
	⊖ (blue)	The limit is active and the actuator is actively limited (this can also mean that the heat source is completely switched OFF by the limit).
	⊖ (black)	The limit is active but not limiting.
	No symbol	No limit active.
e	Demand response	Shows the current demand response mode: When [9.14.1] = Smart grid ready contacts , following modes are possible: ▪ Free ▪ Forced off ▪ Forced on ▪ Recommended on When [9.14.1] = Smart Meter Contact , following mode is shown: ▪ Reduced

Item		Description
f	Imposed system limit	▪ Greyed out: Not active. ▪ Not greyed out: A maximum limit to the power consumption of the heat pump and the electrical heat sources is active. The limit is shown here (in kW). However, this limit can be ignored when the unit runs protective functions: - Defrost - Water pipe freeze prevention - Start-up control - Maintenance mode

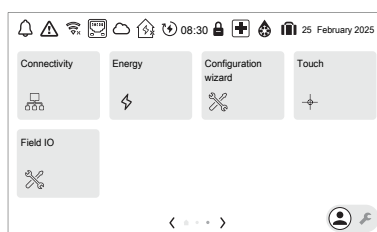
Main menu screen

Starting from the home screen, tap the right arrow to view the first main menu screen. Tap the right arrow a second time to view the second main menu screen. From the main menu screens, you can access the different setpoint screens and submenus.

Main menu screen 1:



Main menu screen 2:

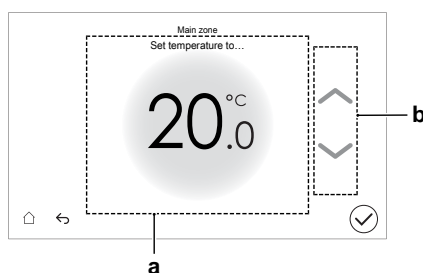


Submenu		Description
[11]	 Malfunctioning	Restriction: Only displayed if a malfunction occurs. See "8.1 To display the help text in case of a malfunction" [▶ 64] for more information.
[1]	 Main zone	Shows the applicable symbol for your main zone emitter type. Set the leaving water temperature for the main zone.
[2]	 Additional zone	Shows the applicable symbol for your additional zone emitter type. Set the leaving water temperature for the main zone.

Submenu		Description
[3]	 Space heating/ cooling	Shows the applicable symbol for your unit. Put the unit in heating mode or cooling mode. You cannot change the mode on heating only models.
[4]	 Domestic hot water	Restriction: Only displayed if a domestic hot water tank is present. Set the domestic hot water tank temperature.
[5]	 Settings	Settings for user and installer. Installer settings are only shown in the installer mode (the installer switch is in the  position)
[6]	 Information	Displays data and information about the indoor unit.
[7]	 Maintenance mode	Restriction: Only for the installer. Perform tests and maintenance.
[8]	 Connectivity	Restriction: Only for the installer. Gives access to advanced settings.
[9]	 Energy	Shows the electricity consumption.
[10]	 Configuration wizard	Restriction: Only for the installer. For setting the most important initial settings.
[12]	NOT USED	
[13]	 Field IO	Restriction: Only for the installer. Terminal pin mapping for certain functions.

Setpoint screen

The setpoint screen is displayed for screens describing system components that need a setpoint value.



Item	Description
a	Desired temperature.
b	Tap the up/down arrows in this area to increase/decrease the temperature.

5.1.3 Reading out information

To read out information

1	Go to [6]: Information.
----------	-------------------------

Possible read-out information

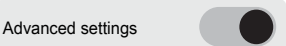
In menu...	You can read out...
[6.2] Dealer information	Contact/helpdesk number
[6.3] Sensors	Room, tank or domestic hot water, outside, and leaving water temperature (if applicable)
[6.4] Actuators	Status/mode of each actuator Example: Domestic hot water pump ON/OFF
[6.5] Operation modes	Current operation mode Example: Defrost/oil return mode
[6.6] About	Contains: ▪ Version information about the system ▪ Serial numbers ▪ Model name ▪ Build info

5.1.4 Advanced user permission

The amount of information you can read and edit as a user in the menu structure depends on the following setting: **Advanced settings**.

When enabled, you can read and edit more information. Be careful because changes to advanced settings could lead to a less efficient, or even malfunctioning system.

To enable the Advanced settings

1	Go to [5.13] Settings > Advanced settings
2	Switch the Advanced settings ON: 

5.2 Turning operation ON or OFF

Space heating/cooling operation

**NOTICE**

Room frost protection. Even if you turn OFF space heating/cooling operation, room frost protection operation –if enabled– can still activate. However, for external room thermostat control, the protection is only active in case of a thermostat request.

**NOTICE**

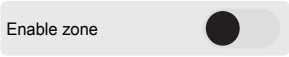
Water pipe freeze prevention. Even if you turn OFF space heating/cooling operation, water pipe freeze prevention –if enabled– will remain active.

In case you want to turn off ALL space heating/cooling:

1	Tap on the Spaces bar from the home screen.
2	Tap the  icon to turn climate control ON or OFF.

3	Confirm with the ✓ button. Result: When OFF, the Space heating/cooling screen area on the home screen is greyed out.
----------	--

In case you only want to turn off an individual zone:

1	Restriction: Turning off an individual zone is only possible in case of LWT control. Tap on the emitter icon of a zone on the home screen, OR go to: ▪ [1.17] Main zone > Enable zone. ▪ [2.15] Additional zone > Enable zone.
2	Switch the zone OFF:  Result: When OFF, the zone screen area is greyed out.

Tank heating operation

	NOTICE Disinfection mode. Even if you turn OFF tank heating operation, disinfection mode will remain active (if enabled).
---	---

1	Go to [4.1]: Domestic hot water > Single heat-up. Note: Tap on the Domestic hot water bar from the home screen to quickly access [4.1].
2	Tap the ⏻ icon to turn Domestic hot water ON or OFF.
3	Confirm with the ✓ button. Result: When OFF, the Domestic hot water screen area on the home screen is greyed out.

5.3 Space heating/cooling control

5.3.1 About space heating/cooling control

Controlling space heating/cooling typically consists of the following stages:

- 1 Setting the space operation mode
- 2 Controlling the temperature

Depending on the system layout and installer configuration, you use a different temperature control:

- Room thermostat control
- Leaving water temperature control
- External room thermostat control

5.3.2 About room frost protection

Antifrost can be activated by setting [3.4].

In all cases, for the main and additional zone, **Antifrost** will heat the space heating water to a reduced setpoint when the outdoor temperature is lower than 6°C.

For the main zone: when [3.4] is enabled, antifrost prevents the room from getting below the [1.22] **Antifrost** setpoint. This setting is applicable when [1.12] **Control** =Room, but also offers functionality for leaving water temperature control and external room thermostat control.

Note: In all cases the antifrost can be activated via breadcrumb [3.4] (also for **Leaving water** or **External room thermostat** control).

Note: In case of thermostat cable breakdown, room frost protection cannot be guaranteed.

[1.12] Main zone > Control	Description
Leaving water	Room frost protection is guaranteed via reduced leaving water temperature setpoint, in case the water zone is switched OFF.
External room thermostat	Room frost protection is guaranteed via reduced leaving water temperature setpoint when there is a thermostat request, in case the water zone is switched OFF.
Room (main zone only)	Allow for the dedicated Human Comfort Interface (BRC1HHDA used as room thermostat) to take care of room frost protection. Set the temperature of the antifrost function in [1.22] Antifrost .

5.3.3 Setting the Operation mode

About space operation modes

Your unit is a heating/cooling model, it can both heat up and cool down a space. You have to tell the system which operation mode to use. There are two possibilities to do so:

If	Then
Possibility 1: In case: ▪ There is only one zone (main zone) ▪ And the main zone is controlled by an external room thermostat ▪ And individual heating/cooling requests are sent to the unit in one of the following ways: - Via hardware (external room thermostats with dual contacts). - Via external communication input, like Modbus or Cloud.	Operation mode is decided by the external room thermostat
Possibility 2: In other cases than possibility 1	Operation mode is decided by settings [3.2], [3.5] (and [3.1])

To check which space operation mode is currently used

The space operation mode is displayed on the home screen:

- When the unit is in heating mode, the  icon is shown.

- When the unit is in cooling mode, the ❄️ icon is shown.

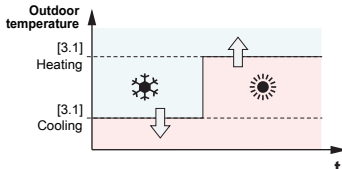
The status indicator shows if the unit is currently in operation:

- When the unit is not in operation, the status indicator will show a blue pulsation with an interval of approximately 5 seconds.
- While the unit is in operation, the status indicator will light up blue constantly.

To set the space operation mode

Using settings [3.2], [3.5] (and [3.1]):

1	Go to [3.2]: Space heating/cooling > Operation mode . Note: Tap on the Spaces bar from the home screen for a quick access screen where the Operation mode can be selected.
2	Select one of the following options: ▪ Heating: Result: The operation mode is permanently heating. This procedure is finished. ▪ Cooling: Result: The operation mode is permanently cooling. This procedure is finished. ▪ Automatic: Result: The operation mode depends on a monthly schedule. Go to the next step.
3	Go to [3.5]: Space heating/cooling > Operation mode schedule .
4	Select a month.
5	For each month, select one of the following options: ▪ Heating ▪ Cooling ▪ Automatic
5a	Heating: Use this during cold season (e.g. October, November, December January, February and March). Result: For the selected month, only heating is possible.
5b	Cooling: Use this during warm season (e.g. June, July and August). Result: For the selected month, only cooling is possible.

5c	Automatic: Use this between cold and warm season (e.g. April, May and September). Result: For the selected month, the unit automatically switches between heating and cooling. The changeover depends on: ▪ The outdoor temperature ▪ The setpoints defined in [3.1] Operation Range. The difference between the two setpoints is used like a hysteresis in order to avoid frequent changeover.  Note: If changeover occurs too frequent due to direct sunlight on the outdoor unit, the remote outdoor sensor (EKRSCA1) can be installed to improve the system behaviour.
6	Confirm the changes.

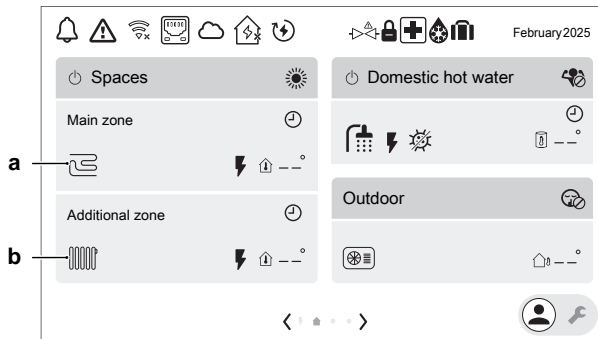
5.3.4 Determining which temperature control you are using

To determine which temperature control you are using (method 1)

Check the installer settings table filled in by the installer.

To determine which temperature control you are using (method 2)

You can see on the home screen which temperature control you are using.



- a Heat emitter of the main zone (in this example **Underfloor heating**)
- b Heat emitter of the additional zone (in this example **Radiator**). If no icon is displayed, there is no additional zone.

5.3.5 Capacity shortage

Note: Only available in **Advanced settings** mode.



INFORMATION

The backup heater logic determines whether to activate the backup heater when the heat pump experiences capacity shortage. The system will **ONLY** activate the backup heater when:

- The compressor is already running at its maximum capacity, and
- The leaving water temperature setpoint is **NOT** reached, and
- The leaving water temperature requested at the emitter is **NOT** reached in a fast enough rate.

Capacity shortage setting

This setting defines whether backup heater operation is allowed when the heat pump experiences capacity shortage.

1	Go to [5.6.1] Settings > Capacity shortage > Capacity shortage setting .
2	Choose one of the following options: ▪ Never: Never allow backup heater operation when the heat pump experiences capacity shortage. ▪ Always: Always allow backup heater operation when the heat pump experiences capacity shortage. ▪ Below equilibrium: Only allow backup heater operation when the heat pump experiences capacity shortage, and the outdoor temperature is below the equilibrium setpoint.
3	Confirm with the ✓ button.

Equilibrium setpoint

The setting [5.6.2] **Equilibrium setpoint** defines the outdoor temperature below which backup heater operation is allowed when the heat pump experiences capacity shortage.

Restriction: Only applicable if [5.6.1] = **Below equilibrium**.

Adjust the equilibrium setpoint based on your building, location, and personal preference to ensure optimal balance and comfort.

1	Go to [5.6.2] Settings > Capacity shortage > Equilibrium setpoint .
2	Set the desired equilibrium setpoint.
3	Confirm with the ✓ button.

5.3.6 Comfort setpoint for energy buffering

If room buffering is enabled (installer setting), the extra energy from photovoltaic panels is buffered in the DHW tank and in the space heating/cooling circuit (i.e. heat up or cool down the room). With the room comfort setpoints ([1.29] heating / [1.30] cooling) you can modify the maximum (in heating) and minimum (in cooling) setpoints that will be used when buffering the extra energy in the space heating/cooling circuit.

1	Go to: ▪ [1.29] Main zone > Heating comfort setpoint. ▪ [1.30] Main zone > Cooling comfort setpoint.
2	Set the desired maximum/minimum comfort setpoint.
3	Confirm with the ✓ button.

Restriction: Only applicable if:

- Smart Grid is enabled (installer setting)
- Room buffering is enabled (installer setting)
- Only shown when in **Advanced settings** mode.

5.3.7 Room sensor offset

Defines the offset that can be applied to the temperature reading of the room thermostat.

External room sensor offset

Restriction: Only applicable in case of room thermostat control.

Optional offset that can be applied to the room temperature target, measured by the optional sensor in the main zone.

1	Go to [1.33] Main zone > External room sensor offset.
2	Set the desired offset.
3	Confirm with the ✓ button.

Thermostat sensor offset

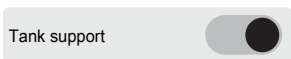
Restriction: Only applicable in case of room thermostat control.

Offset on the room temperature on the Human Comfort Interface in the main zone.

1	Go to [1.38] Main zone > Thermostat sensor offset.
2	Set the desired offset.
3	Confirm with the ✓ button.

Tank support

Allow the domestic hot water tank to support the space heating operation by adding capacity to the space heating circuit.

1	Go to [5.38] Settings > Tank support.
2	Switch Tank support ON 

5.3.8 To set the Operation Range

Set the value of average outdoor temperature above/below which the operation of the unit in space heating/cooling is prohibited.

1	Go to [3.1]: Space heating/cooling > Operation Range
2	Set the values for heating and cooling using the sliders: ▪ Space heating: When the averaged outdoor temperature rises above this value, space heating is turned OFF.^(a) ▪ Space cooling: When the averaged outdoor temperature drops below this value, space cooling is turned OFF.^(a)
3	Confirm with the ✓ button.

^(a) This setting is also used in automatic heating/cooling changeover.

5.3.9 To set the Emitter type

The **Emitter type** MUST match your system layout.

1	Go to: ▪ [1.11] Main zone > Emitter type. ▪ [2.11] Additional zone > Emitter type.
2	Set the correct type for the relevant zone: ▪ Under floor heating ▪ Heat pump convector ▪ Radiator
3	Confirm with the ✓ button.

5.3.10 To change the desired room temperature

During room temperature control, you can use the room temperature setpoint screen to read out and adjust the desired room temperature.

1	Go to [1.1] Main zone > Room setpoint. Note: From the home screen, tap on the main zone temperature screen area to quickly access [1.1].
2	Adjust the desired room temperature: 
3	Confirm with the ✓ button.

If scheduling is on after changing the desired room temperature

- The temperature will stay the same as long as there is no scheduled action.
- The desired room temperature will return to its scheduled value whenever a scheduled action occurs.

You can avoid scheduled behaviour by (temporarily) turning off scheduling. See ["5.3.13 To enable scheduling"](#) [► 34].

5.3.11 To set the room **Hysteresis**

ONLY applicable in case of room thermostat control. The hysteresis band around the desired room temperature can be adjusted. It is recommended NOT to change the room temperature hysteresis as it is set for optimal use of the system.

1	Go to [1.10] Main zone > Hysteresis
2	Adjust the hysteresis value. Note: The range for hysteresis is 0.5~10°C.
3	Confirm with the ✓ button.

Examples:

Room heating target is 20°C, hysteresis is 0.5°C → heating stops at 20.5°C and starts at 19.5°C.

Room cooling target is 18°C, hysteresis is 0.5°C → cooling stops at 17.5°C and starts at 18.5°C.

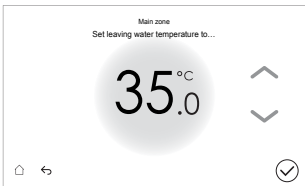
5.3.12 To change the desired leaving water temperature

**INFORMATION**

The leaving water is the water that is sent to the heat emitters. The desired leaving water temperature is set by your installer in accordance with the heat emitter type. Only adjust the leaving water temperature settings in case of problems.

In case no weather-dependent curve is used

You can adjust the fixed leaving water temperature as follows:

1	Go to: ▪ [1.39] Main zone > Leaving water temp. heating ▪ [1.42] Main zone > Leaving water temp. cooling ▪ [2.30] Additional zone > Leaving water temp. heating ▪ [2.36] Additional zone > Leaving water temp. cooling Note: From the home screen, tap on the main or additional zone temperature screen area to quickly access [1.39], [1.42], [2.30] or [2.36] (depending on the operation mode). Note: In case of weather-dependent mode, LWT is not controlled by this setting.
2	Adjust the desired leaving water temperature: 
3	Confirm with the ✓ button.

In case weather-dependent curve is used

Note: For more information on weather-dependent operation, see "5.6 Weather-dependent curve" [▶ 50].

You can set a temperature shift to the weather-dependent curve leaving water temperature as follows:

1	Go to: ▪ [1.27] Main zone > Leaving water shift heating ▪ [1.28] Main zone > Leaving water shift cooling ▪ [2.22] Additional zone > Leaving water shift heating ▪ [2.23] Additional zone > Leaving water shift cooling
2	Adjust the desired leaving water shift temperature. Note: The temperature shift value can be set in 1°C increments.
3	Confirm with the ✓ button.

If scheduling is on after changing the desired leaving water temperature

- The temperature will stay the same as long as there is no scheduled action.
- The desired leaving water temperature will return to its scheduled value whenever a scheduled action occurs.

You can avoid scheduled behaviour by (temporarily) turning off scheduling. See "5.3.13 To enable scheduling" [▶ 34].

To enable weather-dependent operation for the leaving water temperature

See "5.6.2 Using weather-dependent curves" [▶ 51].

5.3.13 To enable scheduling

To enable heating scheduling

1	Go to: ▪ [1.2] Main zone > Heating schedule enable ▪ [2.2] Additional zone > Heating schedule enable
2	Switch scheduling ON (or OFF): Heating schedule enable 

To enable cooling scheduling

1	Go to: ▪ [1.23] Main zone > Cooling schedule enable ▪ [2.27] Additional zone > Cooling schedule enable
2	Switch scheduling ON (or OFF): Cooling schedule enable 

5.3.14 To change the **Zone name**

You can assign a custom name to each zone using the following settings:

- [1.21] **Main zone** > Zone name
- [2.21] **Additional zone** > Zone name

5.4 Domestic hot water control

5.4.1 Reheat mode

There are two possibilities to use the **Reheat** mode:

- **Reheat** mode: the DHW tank continuously heats up to the temperature shown on the home screen (example: 45°C).
- **Reheat** mode with schedule: the DHW tank set temperature varies according to the schedule.

Heat-up of the DHW tank is controlled by two triggers:

1 [4.12] Hysteresis:

This trigger compensates for natural heat losses and intermittent DHW usage. The system continuously monitors for heat loss, and when the tank temperature drops below "[4.5] Reheat setpoint – [4.12] Hysteresis", it starts determining when reheating is necessary.

This trigger ensures that the system maintains sufficient hot water availability before temperatures fall too low for user demand.

2 [4.19] Reheat Trigger Threshold:

Only applicable for DHW consumption (rapid decrease of temperature). The tank heats up when the temperature drops below a predefined value. The threshold is set with sufficient spare capacity to prevent an immediate shortage of hot water for the end user.

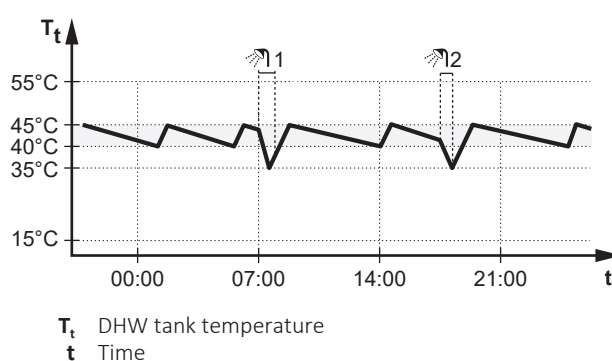
It ensures that the system maintains a reliable supply while avoiding unnecessary reheating cycles.

Note: Only available in **Advanced settings** mode.

Note: Always make sure to use a value lower than [4.5] Reheat setpoint.

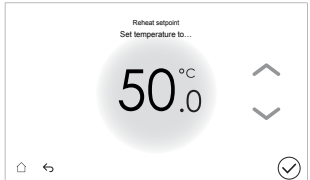
By using these two triggers, the system efficiently balances energy consumption while ensuring a reliable supply of hot water when needed.

Example:



To change the tank temperature setpoint

In **Reheat** mode, you can use the tank temperature setpoint screen to adjust the domestic hot water temperature.

1	Go to [4.5]: Domestic hot water > Reheat setpoint.
2	Adjust the domestic hot water temperature: 

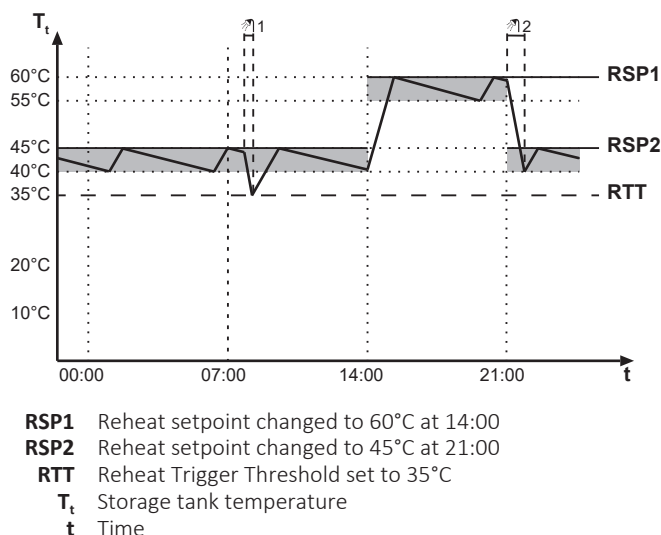
Reheat mode with schedule

In reheat mode with schedule, the DHW tank set temperature varies depending on the reheat setpoint defined in the schedule. DHW tank set temperature can be adjusted to the best possible requirement on the daily demand. The hysteresis and the trigger threshold for reheating are the same as for reheating without a schedule.

Note: The hysteresis value is always the same for each defined reheat setpoint.

1	Go to: ▪ [4.24] Domestic hot water > Enable reheat schedule
2	Switch scheduling ON (or OFF): Enable reheat schedule ☒
3	Go to: ▪ [4.24] Domestic hot water > Reheat schedule
4	Program the Reheat schedule (see "5.5.1 Using and programming schedules" [▶ 40]).

Example:



In the example 2 reheat setpoints are defined.

- At first, the reheat setpoint is programmed as **45°C**.
- Then at 14:00, the value is increased to **60°C**.
- And later at 21:00, it is lowered back to **45°C**.

With the higher temperature in the afternoon and evening, more hot water is available.

During the night and the morning where no high demand is needed, the temperature is lower.

When the temperature drops below the reheat trigger threshold, the heat pump will heat up to the reheat setpoint programmed at this time block.

5.4.2 Single heat-up

Single heat-up immediately starts heating up the DHW tank using one of the following two modes:

- **Manual**
- **Powerful operation**

Manual mode

The tank heats up in an efficient way.

Powerful operation mode

The tank heats up using the backup heater or tank boiler. For more information, see "[Powerful heating mode](#)" [▶ 37].

Manual mode

About Manual mode

Manual immediately starts the domestic hot water heat-up, but in a more efficient way than the **Powerful heating**.

Use this mode on days when there is more hot water usage than usual, and more hot water is needed in an efficient way. **Manual** heat-up can take longer than using **Powerful heating**.

To check if Manual heat-up is active

If  is displayed on the home screen, DHW tank heat-up is ongoing. However, to see if **Manual** operation is active, you can follow the activate/deactivate steps as described below.

Activate or deactivate **Manual** as follows:

1	Go to [4.1] Domestic hot water > Single heat-up . Note: Tap on the Domestic hot water bar from the home screen to quickly access [4.1].
2	Turn Single heat-up ON using the  button, and select Manual .
3	Confirm with the  button.

Or alternatively:

1	Go to [4.3] Manual setpoint .
2	Press the Start button to activate the heat-up process.

Note: To stop an ongoing heat-up process, tap on the **Domestic hot water** bar from the home screen and press the  button.

Powerful heating mode

About Powerful heating

Powerful heating starts the domestic hot water heat-up immediately. To speed up the heat-up, the additional heat source (backup heater or tank boiler) will assist the heat pump when the heat pump has passed its start-up phase, and is operating at maximum capacity.

Use this mode on days when there is more hot water usage than usual, and more hot water is needed quickly.

The **Powerful heating** mode will consume more energy than the **Manual** mode.

To check if Powerful heating is active

If  is displayed on the home screen, **Powerful heating** is active.

Activate or deactivate **Powerful heating** as follows:

1	Go to [4.1] Domestic hot water > Single heat-up . Note: Tap on the Domestic hot water bar from the home screen to quickly access [4.1].
2	Turn Single heat-up ON using the  button, and select Powerful heating .
3	Confirm with the  button.

Or alternatively:

1	Go to [4.4] Powerful operation setpoint .
2	Press the Start button to activate the heat-up process.

Note: To stop an ongoing heat-up process, tap on the **Domestic hot water** bar from the home screen and press the  button.

Usage example: You immediately need more hot water

You are in the following situation:

- You already consumed most of your domestic hot water.
- You cannot wait for the next scheduled action to heat up the domestic hot water tank.

Then you can activate powerful operation. The domestic hot water tank will start heating up the water to the **Powerful operation setpoint** temperature.



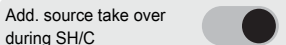
INFORMATION

When powerful operation is active, the risk of space heating/cooling and capacity shortage comfort problems is significant. In case of frequent domestic hot water operation, frequent and long space heating/cooling interruptions will happen.

5.4.3 Additional heat source for DHW

Additional heat source take-over during space heating/cooling

When this setting is enabled, the tank boiler will be used for tank heat-up if the unit is balancing between space heating/cooling and tank heat-up.

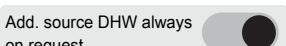
1	Go to [4.16] Domestic hot water > Add. source take over during SH/C
2	Switch Add. source take over during SH/C ON: 

Note: Default setting is OFF.

Note: When ON, energy consumption can be higher.

Additional heat source DHW always on request

When this setting is enabled, the tank boiler will be used together with the heat pump during a tank heat-up, even when the unit is not balancing between space heating/cooling and tank heat-up.

1	Go to [4.17] Domestic hot water > Add. source DHW always on request
2	Switch Add. source DHW always on request ON: 

Note: Default setting is OFF.

Note: When ON, energy consumption will be higher.

5.5 Schedules

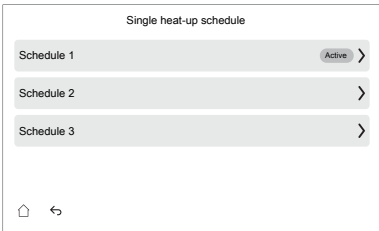
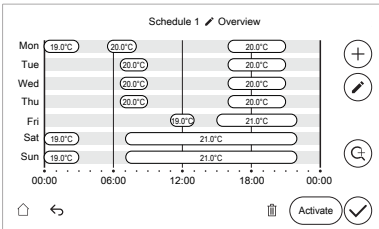
5.5.1 Using and programming schedules

About schedules

Depending on your system layout and installer configuration, schedules for multiple controls may be available.

You can...	See...
Set if a specific control needs to act according to a schedule.	" Activation screen " in " Possible schedules " [▶ 40]
Select which schedule you currently want to use for a specific control. The system contains some predefined schedules. You can:	
Consult which schedule is currently selected.	" Schedule/Control " in " Possible schedules " [▶ 40]
Select another schedule if needed.	" To select which schedule you currently want to use " [▶ 40]
Program your own schedules if the predefined schedules are not satisfactory. The actions you can program are control specific.	"Possible actions" in "Possible schedules" [▶ 40] "5.5.2 Schedule Example" [▶ 46] screen:

To select which schedule you currently want to use

1	Go to the schedule related to the specific control. For an overview, see " Possible schedules " [▶ 40]. Example: [1.3] Main zone > Heating schedule. [1.4] Main zone > Cooling schedule
2	Select the schedule that you currently want to use. 
3	Tap the Activate button. 
4	Confirm with the ✓ button.

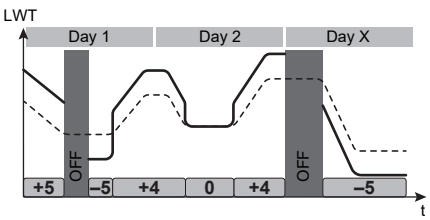
Possible schedules

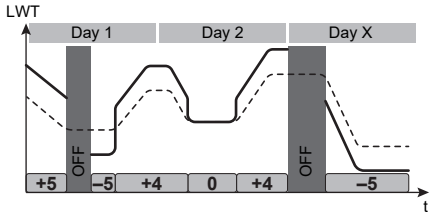
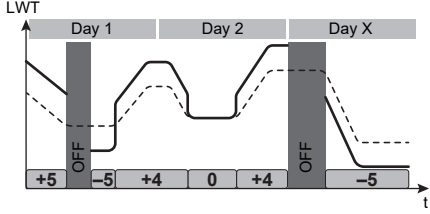
The table contains the following information:

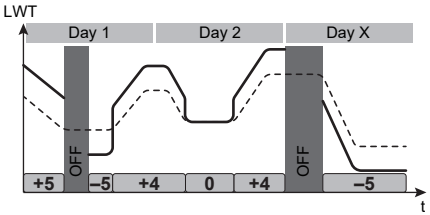
- **Schedule/Control:** This column shows you where you can consult the currently selected schedule for the specific control. If needed, you can:
 - Select another schedule. See ["To select which schedule you currently want to use"](#) [▶ 40].
 - Program your own schedule. See ["5.5.2 Schedule screen: Example"](#) [▶ 46].
- **Predefined schedules:** Number of available predefined schedules in the system for the specific control. If needed, you can program your own schedule.
- **Activation screen:** For most controls, a schedule is only effective if it activated in its corresponding activation screen. This entry shows you where to activate it.
- **Possible actions:** Actions you can use when programming a schedule.

Schedule/Control	Description
[1.3] Main zone > Heating schedule	Predefined schedules: 3 Activation: [1.2] Heating schedule enable Possible actions: Temperatures within range Restriction: Not for external room thermostat control. Schedule for the main zone in heating mode to set the desired leaving water or room temperature (depending on the installed system). Note: In case of room temperature scheduling, the baseline temperature will be used at times when no temperature is scheduled (i.e. in between the schedule blocks). To set the baseline temperature, go to [1.34] Main zone > Heating target baseline Note: In case of LWT scheduling, operation will be OFF when no temperature is scheduled. The influence of the LWT setpoint mode [1.5] is as follows: ▪ In Fixed LWT setpoint mode, the LWT schedules need to be selected. Note: When Fixed setpoint mode is selected, the shift schedules are available, but will NOT have any effect. ▪ In Weather dependent LWT setpoint mode, the shift schedules need to be selected. Note: When Weather dependent setpoint mode is selected, the fixed schedules are available but will NOT have any effect.

Schedule/Control	Description
[1.4] Main zone > Cooling schedule Schedule for the main zone in cooling mode to set the desired leaving water or room temperature (depending on the installed system).	Predefined schedules: 1 Activation: [1.23] Cooling schedule enable Possible actions: Temperatures within range Restriction: Not for external room thermostat control. Note: In case of room temperature scheduling, the baseline temperature will be used at times when no temperature is scheduled (i.e. in between the schedule blocks). To set the baseline temperature, go to [1.35] Main zone > Cooling target baseline Note: In case of LWT scheduling, operation will be OFF when no temperature is scheduled. The influence of the LWT setpoint mode [1.5] is as follows: - In Fixed LWT setpoint mode, the LWT schedules need to be selected. Note: When Fixed setpoint mode is selected, the shift schedules are available, but will NOT have any effect. - In Weather dependent LWT setpoint mode, the shift schedules need to be selected. Note: When Weather dependent setpoint mode is selected, the fixed schedules are available but will NOT have any effect.
[2.3] Additional zone > Heating schedule Schedule for the additional zone in heating mode to set the desired leaving water temperature.	Predefined schedules: 3 Activation: [2.2] Heating schedule enable Possible actions: Leaving water temperatures within range Restriction: Only for LWT control. Note: In case of LWT scheduling, operation will be OFF when no temperature is scheduled. The influence of the LWT setpoint mode [2.5] is as follows: - In Fixed LWT setpoint mode, the LWT schedules need to be selected. Note: When Fixed setpoint mode is selected, the shift schedules are available, but will NOT have any effect. - In Weather dependent LWT setpoint mode, the shift schedules need to be selected. Note: When Weather dependent setpoint mode is selected, the fixed schedules are available but will NOT have any effect.

Schedule/Control	Description
[2.4] Additional zone > Cooling schedule Schedule for the additional zone in cooling mode to set the desired leaving water temperature.	Predefined schedules: 1 Activation: [2.27] Cooling schedule enable Possible actions: Leaving water temperatures within range Restriction: Only for LWT control. Note: In case of LWT scheduling, operation will be OFF when no temperature is scheduled. The influence of the LWT setpoint mode [2.5] is as follows: - In Fixed LWT setpoint mode, the LWT schedules need to be selected. Note: When Fixed setpoint mode is selected, the shift schedules are available, but will NOT have any effect. - In Weather dependent LWT setpoint mode, the shift schedules need to be selected. Note: When Weather dependent setpoint mode is selected, the fixed schedules are available but will NOT have any effect.
[1.24] Main zone > Leaving water shift heating schedule	Predefined schedules: 3 Activation: [1.36] Leaving water shift heating mode Possible actions: Leaving water shift temperatures on the weather dependent curve. Note: Only in case weather-dependent curve is used (see "5.6 Weather-dependent curve" [▶ 50]) and only for LWT control. Remark: In case of LWT shift scheduling, there will be NO operation at times when no temperature shift is scheduled. Example:  —: Shifted leaving water temperature target -----: Weather-dependent curve +5: Temperature shift value

Schedule/Control	Description
[1.25] Main zone > Leaving water shift cooling schedule	Predefined schedules: 1 Activation: [1.37] Leaving water shift cooling mode Possible actions: Leaving water shift temperatures on the weather-dependent curve. Note: Only in case weather-dependent curve is used (see "5.6 Weather-dependent curve" [► 50]) and only for LWT control. Remark: In case of LWT shift scheduling, there will be NO operation at times when no temperature shift is scheduled. Example:  —: Shifted leaving water temperature target -----: Weather-dependent curve +5: Temperature shift value
[2.18] Additional zone > Leaving water shift heating schedule	Predefined schedules: 3 Activation: [2.31] Leaving water shift heating mode Possible actions: Leaving water shift temperatures on the weather-dependent curve. Note: Only in case weather-dependent curve is used (see "5.6 Weather-dependent curve" [► 50]) and only for LWT control. Remark: In case of LWT shift scheduling, there will be NO operation at times when no temperature shift is scheduled. Example:  —: Shifted leaving water temperature target -----: Weather-dependent curve +5: Temperature shift value

Schedule/Control	Description
[2.19] Additional zone > Leaving water shift cooling schedule	Predefined schedules: 1 Activation: [2.32] Leaving water shift cooling mode Possible actions: Leaving water shift temperatures on the weather-dependent curve. Note: Only in case weather-dependent curve is used (see "5.6 Weather-dependent curve" [► 50]) and only for LWT control. Remark: In case of LWT shift scheduling, there will be NO operation at times when no temperature shift is scheduled. Example:  —: Shifted leaving water temperature target -----: Weather-dependent curve +5: Temperature shift value
[3.5] Space heating/cooling > Operation mode schedule Schedule (per month) for when to operate the unit in heating mode and when in cooling mode.	See "To set the space operation mode" [► 28].
[4.25] Domestic hot water > Reheat schedule This allows for the DHW reheat setpoint to change according to a schedule, instead of using the fixed setpoint [4.5] Reheat setpoint	Activation: [4.24] Enable reheat schedule
[4.26] Domestic hot water > DHW pump schedule Schedule for the DHW pump for instant hot water (if installed).	Program a schedule for the DHW pump. Program a domestic hot water pump schedule to determine when to turn on and off the pump. When turned on, the pump runs and makes sure hot water is instantly available at the tap. To save energy, only turn on the pump during periods of the day when instant hot water is necessary.

Schedule/Control	Description
[5.2.2] Settings > Quiet operation > Schedule OR from the home screen: tap on the Outdoor bar, and tap on Schedule. Schedule for when the unit has to use which quiet mode level.	Predefined schedules: 1 Activation: To activate, choose the option Scheduled and confirm. See "To program a quiet mode schedule" [▶ 57].
[9.4] User settings > Electricity price schedule Schedule for when a certain electricity tariff is valid.	Predefined schedules: 1 Activation: [9.3] Electricity price schedule enable Possible actions: You can enter the price per kWh. See "5.7 Energy prices" [▶ 52].

5.5.2 Schedule screen: Example

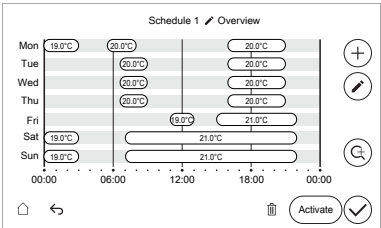
This example shows how to set a room temperature schedule in heating mode for the main zone.



INFORMATION

The procedures to program other schedules are similar.

To program the schedule: overview



Prerequisite: Room temperature scheduling is only possible if room thermostat control is active. If LWT control is active, the schedule applies to the LWT instead.

Prerequisite: Scheduling is not possible when using an external room thermostat.

- 1 Go to the schedule.
- 2 (optional) Clear the content of the whole week schedule or the content of a selected day schedule.
- 3 Program the schedule for the weekdays.
- 4 Program the schedule for the weekend.
- 5 Give the schedule a name.

Note: You can set one time block for multiple days by selecting any day, workweek, weekend or every day.

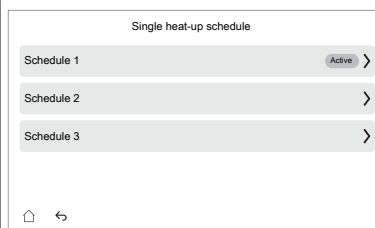
To go to the schedule

1	Go to [1.2] Main zone > Heating schedule enable.
2	Switch scheduling ON: Heating schedule enable 

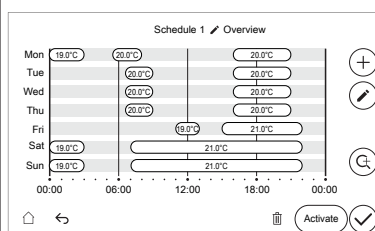
- 3** Go to [1.3] Main zone > Heating schedule.

To clear the content of the week schedule

- 1** Go to the schedule you want to clear:



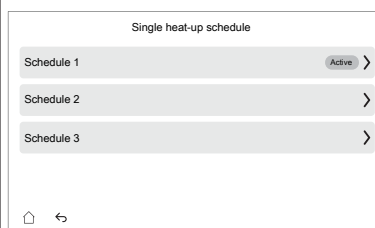
- 2** Tap the  button to delete the schedule:



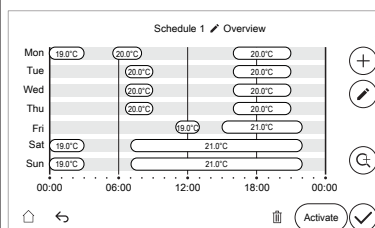
- 3** Confirm with the  button.

To clear the content of a time block in a schedule

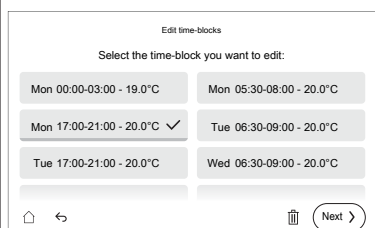
- 1** Go to the schedule you want to edit.



- 2** Tap the  button to edit the time blocks of the schedule:



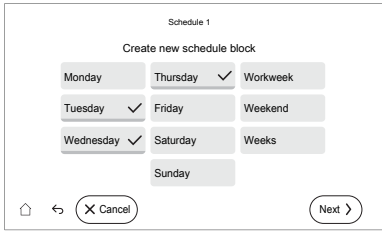
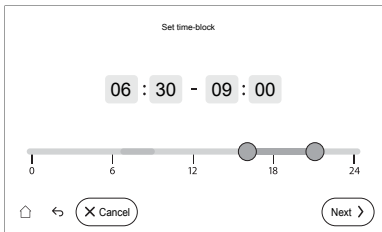
- 3** Select the time block you want to clear:



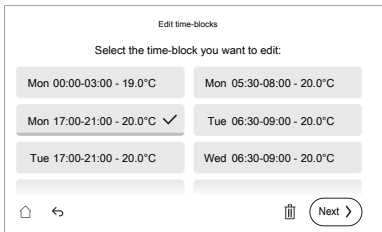
- 4** Tap the  button to clear the time block.

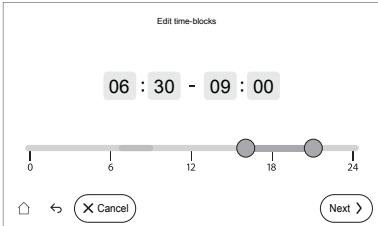
- 5** Confirm with the  button.

To add time blocks

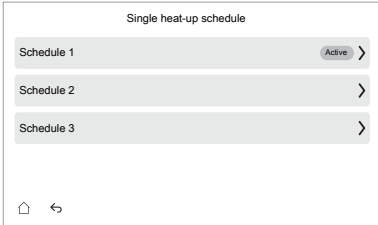
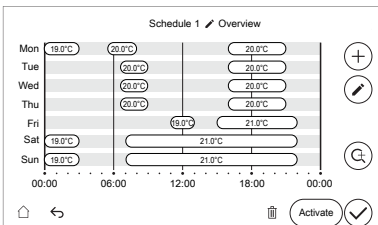
1	Tap the + button to add a time block.
2	Select one or more days for the time block to apply to: 
3	Tap the Next button.
4	Set the first schedule starting and ending time for the time block:  - Change the time entries directly by swiping up/down or tapping the +/- signs. - OR use the bar, by dragging the starting time point and ending time point.
5	Tap the Next button.
6	Set the desired temperature.
7	Confirm with the ✓ button.
8	Add more time blocks if needed. Note: In case of room temperature scheduling, the baseline temperature will be used at times when no temperature is scheduled. To set the baseline temperature, go to: [1.34] Main zone > Heating target baseline [1.35] Main zone > Cooling target baseline Remark: In case of LWT scheduling and LWT shift scheduling, there will be NO operation at times when no temperature is scheduled.

To edit a time block

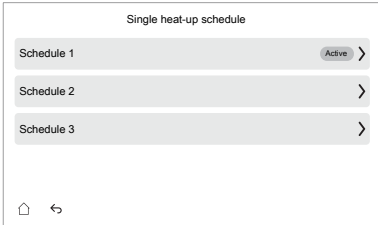
1	Tap the ✎ button to edit a time block.
2	Select the time block you want to edit: 
3	Tap the Next button.

4	Set the first schedule starting and ending time for the time block:  - Change the time entries directly by swiping up/down or tapping the +/- signs. - OR use the bar, by dragging the starting time point and ending time point.
5	Tap the Next button.
6	Set the desired temperature.
7	Confirm with the ✓ button.

To rename a schedule

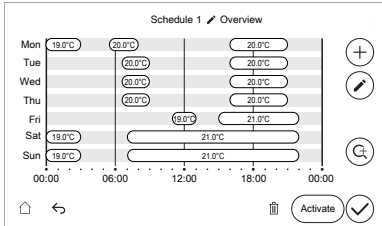
1	Go to the schedule you want to rename: 
2	Tap the ✎ icon next to the schedule name to rename the schedule: 
3	Rename the schedule using the on-screen keyboard.
4	Confirm with the ✓ button.

To activate a schedule

1	Select the schedule: 
---	---

2

Tap the **Activate** button:



Note: In the schedule overview, the active schedule will be marked with 'Active'.

4

Confirm with the ✓ button.

Usage example: You work in a 3-shift system

If you work in a 3-shift system, you can do the following:

- 1 Program 3 room temperature schedules and give them appropriate names.
Example: EarlyShift, DayShift and LateShift
- 2 Select the schedule that you currently want to use.

5.6 Weather-dependent curve

5.6.1 What is a weather-dependent curve?

Weather-dependent operation

The unit operates 'weather-dependent' if the desired leaving water temperature is determined automatically by the outdoor temperature. It therefore is connected to a temperature sensor on the North wall of the building. If the outdoor temperature drops or rises, the unit compensates instantly. Thus, the unit does not have to wait for feedback by the thermostat to increase or decrease the temperature of the leaving water. Because it reacts more quickly, it prevents high rises and drops of the indoor temperature and water temperature at tap points.

Advantage

Weather-dependent operation reduces energy consumption.

Weather-dependent curve

To be able to compensate for differences in temperature, the unit relies on its weather-dependent curve. This curve defines how much the temperature of the leaving water must be at different outdoor temperatures. Because the slope of the curve depends on local circumstances such as climate and the insulation of the building, the curve can be adjusted by an installer or user.

Type of weather-dependent curve

The type of weather-dependent curve is "2-points curve".

Availability

The weather-dependent curve is available for:

- Main zone - Heating
- Main zone - Cooling
- Additional zone - Heating
- Additional zone - Cooling

5.6.2 Using weather-dependent curves

Related screens

The following table describes:

- Where you can define the different weather-dependent curves
- When the curve is used (restriction)

To define the curve, go to...	Curve is used when...
[1.8] Main zone > Heating WD curve	[1.5] Heating setpoint mode = Weather dependent
[1.9] Main zone > Cooling WD curve	[1.7] Cooling setpoint mode = Weather dependent
[2.8] Additional zone > Heating WD curve	[2.5] Heating setpoint mode = Weather dependent
[2.9] Additional zone > Cooling WD curve	[2.7] Cooling setpoint mode = Weather dependent



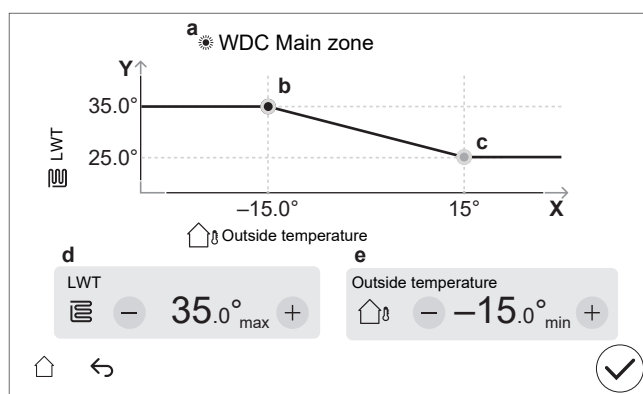
INFORMATION

Maximum and minimum setpoints

You cannot configure the curve with temperatures that are higher or lower than the set maximum and minimum setpoints for that zone. When the maximum or minimum setpoint is reached, the curve flattens out.

To define a weather-dependent curve

Define the weather-dependent curve using two setpoints (**b, c**). **Example:**



Item	Description
a	Selected weather-dependent curve: ▪ [1.8] Main zone – Heating (☀) ▪ [1.9] Main zone – Cooling (❄) ▪ [2.8] Additional zone – Heating (☀) ▪ [2.9] Additional zone – Cooling (❄)
b, c	Setpoint 1 and setpoint 2. You can change them: ▪ By dragging the setpoint. ▪ By tapping the setpoint, and then using the – / + buttons in d, e.
d, e	Values of the selected setpoint. You can change the values using the – / + buttons.
X-axis	Outdoor temperature.

Item	Description
Y-axis	Leaving water temperature for the selected zone. The icon corresponds to the heat emitter for that zone: : Underfloor heating : Heat pump convector : Radiator

To fine-tune a weather-dependent curve

The following table describes how to fine-tune the weather-dependent curve of a zone:

You feel...		Fine-tune with setpoints:			
At regular outdoor temperatures ...	At cold outdoor temperatures ...	Setpoint 1 (b)		Setpoint 2 (c)	
		X	Y	X	Y
OK	Cold	↑	↑	—	—
OK	Hot	↓	↓	—	—
Cold	OK	—	—	↑	↑
Cold	Cold	↑	↑	↑	↑
Cold	Hot	↓	↓	↑	↑
Hot	OK	—	—	↓	↓
Hot	Cold	↑	↑	↓	↓
Hot	Hot	↓	↓	↓	↓

5.7 Energy prices

In the system, you can set the following energy prices:

- a fixed gas price (only shown in case bivalent or tank boiler is present)
- three electricity price levels
- a weekly schedule timer for electricity prices.

Example: How to set the energy prices on the user interface?

Price	Value in breadcrumb
Gas: 5.3 euro cents/kWh	[9.5]=5.3
Electricity: 12 euro cents/kWh	[9.1]=12

5.7.1 Energy price considered

About the setting

Restriction: The [9.13] **Energy price considered** setting is only shown in case bivalent or tank boiler is present.

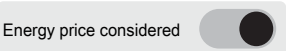
If an external heat source is available, the main heat source will be chosen based on a comparison between both efficiencies of the heat sources.

The decision on which source to select depends on the setting [9.13] **Energy price considered**. This setting defines if the energy prices are considered or not.

- **When considered**, the main heat source will be decided based on the bivalent changeover condition decided by the energy prices with dedicated ambient boundaries selected by the installer
- **When NOT considered**, the main heat source will be decided based on the ambient boundaries selected by the installer without taking into account the energy prices. This case is mainly capacity driven, where below the selected boundaries, the boiler will cover the space heating.

See the Installer reference guide for more information.

To go to [9.13] Energy price considered

1	Go to [9.13] Energy > Energy price considered .
2	Switch the setting ON or OFF: 

5.7.2 To set the fixed electricity price (no scheduling)

1	Go to [9.1] Energy > Electricity price
2	Select the correct electricity price.
3	Confirm with the ✓ button.

Note: When no schedule is set for the electricity price, this price will be taken into account.



INFORMATION

Price value ranging from 0.00~5000 valuta/kWh (with 2 significant values).

5.7.3 To set the scheduled electricity baseline price

Restriction: Only shown when bivalent or tank boiler is present.

When [9.4] **Electricity price schedule** is ON, the electric price follows a block based schedule. The **Electricity price baseline** will be used at times when no electricity price is scheduled (i.e. in between the schedule blocks).

1	Go to [9.2] Energy > Electricity price baseline
2	Select the correct electricity price baseline.
3	Confirm with the ✓ button.



INFORMATION

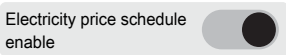
Price value ranging from 0.00~5000 valuta/kWh (with 2 significant values).

5.7.4 To set the electricity price schedule

1	Go to [9.4] Energy > Electricity price schedule .
2	Program the selection using the scheduling screen. See " 5.5.2 Schedule screen: Example " [▶ 46].
3	Confirm with the ✓ button.

To enable the schedule:

1	Go to [9.3] Energy > Electricity price schedule enable .
---	--

2	Switch Electricity price schedule enable ON: 
---	--

5.7.5 To set the gas price

Restriction: Only when bivalent or tank boiler is present.

1	Go to [9.5] Energy > Gas price .
2	Select the correct gas price.
3	Confirm with the ✓ button.



INFORMATION

Price value ranging from 0.00~5000 valuta/kWh (with 2 significant values).

5.7.6 About energy prices in case of an incentive per kWh renewable energy

An incentive can be taken into account when setting the energy prices. Although the running cost can increase, the total operation cost, taking into account the reimbursement will be optimized.



NOTICE

Make sure to modify the setting of the energy prices at the end of the incentive period.

To set the gas price in case of an incentive per kWh renewable energy

Calculate the value for the gas price with the following formula:

- Actual gas price+(Incentive/kWh×0.9)

For the procedure to set the gas price, see ["5.7.5 To set the gas price"](#) [▶ 54].

To set the electricity price in case of an incentive per kWh renewable energy

Calculate the value for the electricity price with following formula:

- Actual electricity price+Incentive/kWh

For the procedure to set the electricity price, see:

- ["5.7.2 To set the fixed electricity price \(no scheduling\)"](#) [▶ 53]
- ["5.7.3 To set the scheduled electricity baseline price"](#) [▶ 53]
- ["5.7.4 To set the electricity price schedule"](#) [▶ 53]

Example

This is an example and the prices and/or values used in this example are NOT accurate.

Data	Price/kWh
Gas price	4.08
Electricity price	12.49
Renewable heat incentive per kWh	5

Calculation of the gas price

Gas price=Actual gas price+(Incentive/kWh×0.9)

Gas price=4.08+(5×0.9)

Gas price=8.58

Calculation of the electricity price

Electricity price=Actual electricity price+Incentive/kWh

Electricity price=12.49+5

Electricity price=17.49

Price	Value in breadcrumb
Gas: 4.08 /kWh	[9.5]=8.6
Electricity: 12.49 /kWh	[9.1]=17

5.8 Other functionalities

5.8.1 To set Time/date

- 1 Go to [5.3] **Settings > Time/date**.

Note: If your region observes daylight saving time, you can switch [5.3] **Daylight savings time** ON.

5.8.2 To set the Location and language

You can change the location and language as follows:

1	Go to [5.9] Settings > Location and language .
2	Set the following: ▪ Country ▪ Language
3	Confirm with the ✓ button.

5.8.3 To change the Display brightness

You can change the display brightness as follows:

1	Go to [5.17] Settings > Display brightness .
2	Adjust the brightness.
3	Confirm with the ✓ button.

5.8.4 To change the Keyboard lay-out

You can change the keyboard lay-out as follows:

1	Go to [5.12] Settings > Keyboard lay-out .
2	Choose: ▪ QWERTY ▪ AZERTY
3	Confirm with the ✓ button.

5.8.5 Using quiet mode

About quiet mode

You can use quiet mode to decrease the sound of the outdoor unit. However, this also decreases the heating/cooling capacity of the system. There are multiple quiet mode levels.

The user can:

- Completely deactivate quiet mode (user)
- Manually activate a quiet mode level (user)
- Program a quiet mode schedule (advanced user)

The installer can:

- Configure restrictions based on local regulations

**INFORMATION**

If the outdoor temperature is below zero, we recommend to NOT use the most quiet level.

To check if quiet mode is active

If one of the following icons is displayed on the home screen, quiet mode is active:

- Quiet
- More quiet
- Most quiet

To completely deactivate quiet mode

(required permission level = user)

1	Go to [5.2] Settings > Quiet operation . Note: Tap on the Outdoor bar from the home screen to quickly access [5.2].
2	Tap Off .
3	Confirm with the button. Result: The unit never runs in quiet mode.

To manually activate a quiet mode level

(required permission level = user)

1	Go to [5.2] Settings > Quiet operation . Note: Tap on the Outdoor bar from the home screen to quickly access [5.2].
2	Tap Manual .
3	Confirm with the button.
4	In [5.2.1] Quiet mode - Manual , select the applicable quiet mode level. Possible values: ▪ Off ▪ Quiet ▪ More quiet ▪ Most quiet

5	Confirm with the ✓ button. Result: The unit always runs in the selected quiet mode level.
----------	---

To program a quiet mode schedule

(required permission level = advanced user)

1	Go to [5.2] Settings > Quiet operation . Note: Tap on the Outdoor bar from the home screen to quickly access [5.2].
2	Tap Scheduled . Result: The following buttons appear: ▪ Schedule ▪ Restrictions (only for installers)
3	Tap Schedule .
4	In [5.2.2] Quiet operation schedule , program when the unit has to use which quiet mode level. For more information about scheduling, see " 5.5.1 Using and programming schedules " [▶ 40].
5	Confirm with the ✓ button. Result: You return to the previous screen.
6	In [5.2] Quiet operation , confirm again with the ✓ button. Result: The possible outcomes for the quiet mode differ depending on the schedule (if programmed) and the restrictions (if defined). See below.

To configure restrictions based on local regulations

(required permission level = installer)

On top of the quiet mode schedule that an advanced user can program, the installer can configure additional restrictions.

The possible outcomes for the quiet mode differ depending on the schedule (if programmed) and the restrictions (if configured by the installer). See below.

Possible outcomes when quiet mode is set to Scheduled

If...		Then quiet mode =...
Restrictions (time + level) defined?	Schedule programmed?	
No	No	OFF
	Yes	Follows schedule
Yes	No	Follows restriction
	Yes	The applicable level will be the most stringent one, which could either be the user-defined level in the schedule or the installer-defined restriction (e.g. 'most quiet' > 'quiet').

5.8.6 Using holiday mode

About holiday mode

During your holiday, you can use the holiday mode to deviate from your normal schedules without having to change them. While holiday mode is active, space heating/cooling operation and domestic hot water operation will be turned off. Room frost protection, water pipe freeze prevention and disinfection operation will remain active.

Typical workflow

Using holiday mode typically consists of the following stages:

- 1 Activating the holiday mode.
- 2 Setting the starting date and ending date of your holiday.

To check if holiday mode is activated and/or running

If  is displayed on the home screen, holiday mode is active.

To configure the holiday

Go to [5.27] **Settings > Holiday**, and do the following:

1	To activate the holiday mode, switch [5.27.1] Holiday mode ON: 
2	To define the holiday period: - Go to [5.27.2] Holiday period. - Under From, set the first day of your holiday. - Under Till, set the last day of your holiday. - Confirm with the  button. Note: The holiday period starts at noon (12h00) of the first day, and ends at noon (12h00) of the last day.

5.8.7 Using WLAN

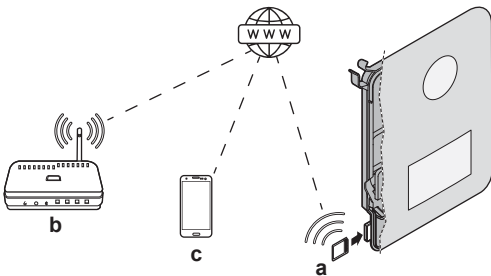
**INFORMATION**

Restriction: WLAN settings are only visible when a WLAN cartridge is inserted in the user interface.

About the WLAN cartridge

The WLAN cartridge connects the system to the internet. As user you can then control the system via the ONECTA app.

This needs the following components:



a	WLAN cartridge	The WLAN cartridge needs to be inserted in the user interface.
---	----------------	--

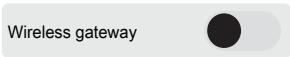
b	Router	Field supply.
c	Smartphone + app 	The ONECTA app needs to be installed on the user's smartphone. See: http://www.onlinecontroller.daikineurope.com/ 

Configuration

To configure the ONECTA app, follow the in-app instructions. While doing this, the following actions and information are needed on the user interface:

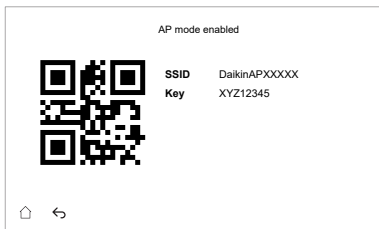
- [8.3] **Wireless gateway**
 - [8.3.1] **Wireless gateway** (ON/OFF)
 - [8.3.2] **Enable AP mode**
 - [8.3.3] **Reboot the gateway**
 - [8.3.4] **WPS**
 - [8.3.5] **Remove from cloud**
 - [8.3.6] **Home network connection**
 - [8.3.7] **Reset to factory default**

[8.3.1] Wireless gateway

1	Go to [8.3.1]: Wireless gateway > Wireless gateway .
2	Remark: Wireless gateway MUST stay in the OFF position, even when WLAN is installed:  Keeping the switch in OFF position will not impact WLAN functionality.

[8.3.2] Enable AP mode

Make the WLAN cartridge active as access point:

1	Go to [8.3.2]: Wireless gateway > Enable AP mode .
2	This setting generates a random SSID and key (+ QR code) needed by the ONECTA app:  Press one of the buttons to exit the screen.

[8.3.3] Reboot the gateway

Reboot the WLAN cartridge:

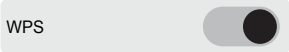
1	Go to [8.3.3]: Wireless gateway > Reboot the gateway .
2	In the Reboot the gateway screen, choose Confirm to reboot.

[8.3.4] WPS

Connect the WLAN cartridge to the router:

**INFORMATION**

You can only use this function if it is supported by the software version of the WLAN, and the software version of the ONECTA app.

1	Go to [8.3.4]: Wireless gateway > WPS .
2	Switch WPS ON: 

[8.3.5] Remove from cloud

Remove the WLAN cartridge from the cloud:

1	Go to [8.3.5]: Wireless gateway > Remove from cloud .
2	In the Remove from cloud screen, choose Confirm to remove the WLAN from the cloud.

[8.3.6] Home network connection

Read out the status of the connection to the home network:

1	Go to [8.3.6]: Wireless gateway > Home network connection .
2	Read out the connection status: ▪ Disconnected from [WLAN_SSID] ▪ Connected to [WLAN_SSID]

[8.3.7] Reset to factory default

Trigger to reset the WLAN cartridge to factory default (forget all network data):

1	Go to [8.3.7]: Wireless gateway > Reset to factory default .
2	Please confirm to reset to factory default. This action cannot be undone.

5.9 Emergency operation

If the heat pump fails, the **Emergency selection** setting determines how the system will act.

1	Go to [5.23] Settings > Emergency selection .
----------	---

Emergency selection

When a heat pump failure occurs, then this setting (same as setting [5.23]) defines whether the electrical heater (backup heater / booster heater / tank boiler if applicable) can take over the space heating and DHW operation.

When there is no automatic full take-over by the electrical heater, a pop-up (with the same content as setting [5.30]) appears where you can manually acknowledge that the electrical heater can fully take over (i.e. space heating to normal setpoint and DHW operation = ON).

When the house is unattended for longer periods, we recommend to use **auto SH reduced/DHW off** to keep energy consumption low.

[5.23]	When heat pump failure occurs, then there is ... by the electrical heater	Full take-over
Manual	No take-over: - Space heating = OFF - DHW operation = OFF	After manual acknowledgment
Automatic	Full take-over: - Space heating to normal setpoint - DHW operation = ON	Automatic
auto SH reduced/DHW on	Partial take-over: - Space heating to reduced setpoint - DHW operation = ON	After manual acknowledgment
auto SH reduced/DHW off	Partial take-over: - Space heating to reduced setpoint - DHW operation = OFF	After manual acknowledgment
auto SH normal/DHW off	Partial take-over: - Space heating to normal setpoint - DHW operation = OFF	After manual acknowledgment

**INFORMATION**

If a heat pump failure occurs and **Emergency selection** is NOT set to **Automatic**, the following functions will remain active even if the user does NOT acknowledge emergency operation:

- Room frost protection
- Underfloor heating screed dryout
- Water pipe freeze prevention
- Disinfection

6 Energy saving tips

Tips about room temperature

- Make sure the desired room temperature is NOT too high (in heating mode) or too low (in cooling mode), but according to your actual needs. Each saved degree can save up to 6% of heating/cooling costs.
- Do NOT increase/decrease the desired room temperature to speed up space heating/cooling. The space will NOT heat up/cool down faster.
- When your system layout contains slow heat emitters (example: underfloor heating), avoid large fluctuation of the desired room temperature and do NOT let the room temperature drop too low/rise too high. It will take more time and energy to heat up/cool down the room again.
- Use a weekly schedule for your normal space heating or cooling needs. If necessary, you can easily deviate from the schedule:
 - For shorter periods: You can overrule the scheduled room temperature until the next scheduled action. **Example:** When you have a party, or when you are leaving for a couple of hours.
 - For longer periods: You can use the holiday mode.

Tips about DHW tank temperature

- Use a weekly schedule for your normal domestic hot water needs (ONLY in scheduled mode).
 - Program to heat up the DHW tank to a somewhat higher value during the night, because then space heating demand is lower.
 - If heating up the DHW tank once at night is NOT sufficient, program to additionally heat up the DHW tank to a somewhat lower value during the day.
- Make sure the desired DHW tank temperature is NOT too high. **Example:** After installation, lower the DHW tank temperature daily by one degree and check if you still have enough hot water.
- Program to turn ON the domestic hot water pump ONLY during periods of the day when instant hot water is necessary. **Example:** In the morning and evening.

Tips about DHW temperature

- Make sure the desired DHW temperature, reflected by storage tank temperature, is NOT too high. **Example:** After installation, lower the tank temperature daily by 1°C and check if you still have enough hot water.
- Program to turn ON the domestic hot water pump ONLY during periods of the day when instant hot water is necessary. **Example:** In the morning and evening.

7 Maintenance and service

7.1 Overview: Maintenance and service

The installer has to perform a yearly maintenance. You can find the contact/helpdesk number via the user interface.

1	Go to [6.2]: Information > Dealer information.
----------	--

As end user, you have to:

- Keep the area around the unit clean.
- Keep the user interface clean with a soft damp cloth. Do NOT use any detergents.
- Regularly check via [6.3] **Information > Sensors** that the water pressure is above 1 bar.
- Carry out a visual check of the water level inside the storage tank: Check if the red level indicator is visible. If NOT, add water to the storage tank (for details see Installer reference guide).

Refrigerant

Refrigerant type: R290

Global warming potential (GWP) value: 3

Periodical inspections for refrigerant leaks may be required depending on the applicable legislation. Contact your installer for more information.

Any repair and service work that would relate to refrigerant needs to be done by a Daikin certified technician.



WARNING

NEVER directly touch any accidental leaking refrigerant. This could result in severe wounds caused by frostbite.

8 Troubleshooting

Contact

For the symptoms listed below, you can try to solve the problem yourself. For any other problem, contact your installer. You can find the contact/helpdesk number via the user interface.

1	Go to [6.2]: Information > Dealer information.
---	--

8.1 To display the help text in case of a malfunction

In case of a malfunction, the following icon will appear on the home screen depending on the severity:

- : Error
- : Warning
- : Information

You can get a short and a long description of the malfunction as follows:

1	Go to [11] Malfunctioning. Result: The ongoing malfunctions are shown with the following information: ▪ The Level icon: - : Error - : Warning - : Information ▪ The error code ▪ The Type icon: - : Safety: these are critical errors that can result in an unsafe situation (e.g. refrigerant leak). - : Protection: these are errors related to the protection of the user or the system (eg overheating/disinfection/undercooling). - : Technical: these are all other errors indicating a technical problem of the unit or peripherals (e.g. sensor abnormality).
2	Tap on the error message in the error screen. Result: A long description of the error is displayed on the screen.

8.2 To check the malfunction history

Always check the malfunction history while troubleshooting.

Conditions: The user permission level is set to advanced end user.

1	Go to [11]: Malfunction history.
---	---

You see a list of the most recent malfunctions.

8.3 Symptom: You are feeling too cold (hot) in your living room

Possible cause	Corrective action
The desired room temperature is too low (high).	Increase (decrease) the desired room temperature. See "5.3.10 To change the desired room temperature" [▶ 32]. If the problem recurs daily, do one of the following: ▪ Increase (decrease) the room temperature preset value. See the user reference guide. ▪ Adjust the room temperature schedule. See "5.5.2 Schedule screen: Example" [▶ 46].
The desired room temperature cannot be reached.	Increase the desired leaving water temperature in accordance with the heat emitter type. See "5.3.12 To change the desired leaving water temperature" [▶ 33].
The weather-dependent curve is set incorrectly.	Adjust the weather-dependent curve. See "5.6 Weather-dependent curve" [▶ 50].

8.4 Symptom: The water at the tap is too cold

Possible cause	Corrective action
You ran out of domestic hot water because of unusually high consumption. The desired DHW tank temperature is too low.	If you immediately need domestic hot water, activate: ▪ [4.1] Powerful heating. This is the quickest heat-up, but consumes extra energy. See "Powerful heating mode" [▶ 37]. ▪ [4.3] Manual. This is an efficient heat-up, but can take longer than powerful operation. If the problems recur daily, do one of the following: ▪ Increase the DHW tank temperature preset value. See the user reference guide. ▪ Adjust the DHW tank temperature schedule. Example: Program to additionally heat up the DHW tank to a somewhat lower value during the day. See "5.5.2 Schedule screen: Example" [▶ 46].

8.5 Symptom: Heat pump failure

When the heat pump fails, the **Emergency selection** setting determines how the system will act. See ["5.9 Emergency operation"](#) [▶ 60].

When the heat pump fails,  or  will appear on the user interface.

Possible cause	Corrective action
Heat pump is damaged.	See "8.1 To display the help text in case of a malfunction" [▶ 64].



INFORMATION

When the backup heater takes over the heat load, electricity consumption will be considerably higher.

8.6 Symptom: The system is making gurgling noises after commissioning

Possible cause	Corrective action
There is air in the system.	Purge air from the system. ^(a)
Incorrect hydraulic balance.	To be performed by the installer: 1 Perform hydraulic balancing to assure that the flow is correctly distributed between the emitters. 2 If hydraulic balancing is not sufficient, it is recommended to increase the Delta T heating ([1.14] / [2.14]) value. 3 If hydraulic balancing is not sufficient, it is recommended to increase the Delta T cooling ([1.18] / [2.17]) value.
Various malfunctions.	Check if  or  is displayed on the home screen of the user interface. See "8.1 To display the help text in case of a malfunction" [▶ 64] for more information about the malfunction.

^(a) We recommend to purge air with the air purge function of the unit (to be performed by the installer). If you purge air from the heat emitters or collectors, mind the following:



WARNING

Air purging heat emitters or collectors. Before you purge air from heat emitters or collectors, check if  or  is displayed on the home screen of the user interface.

- If not, you can purge air immediately.
- If yes, make sure that the room where you want to purge air is sufficiently ventilated. **Reason:** In case of a breakdown, refrigerant might leak into the water circuit, and subsequently into the room when you purge air from the heat emitters or collectors.

9 Relocation

9.1 Overview: Relocation

If you want to relocate parts of your system, contact your installer. You can find the contact/helpdesk number via the user interface.

10 Disposal

When you want to dispose of the unit, do NOT do it yourself but contact a Daikin certified technician.



NOTICE

Do NOT try to dismantle the system yourself: dismantling of the system, treatment of the refrigerant, oil and other parts MUST comply with applicable legislation. Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery.

11 Glossary

DHW = Domestic hot water

Hot water used, in any type of building, for domestic purposes.

LWT = Leaving water temperature

Water temperature at the water outlet of the unit.

Dealer

Sales distributor for the product.

Authorised installer

Technical skilled person who is qualified to install the product.

User

Person who is owner of the product and/or operates the product.

Applicable legislation

All international, European, national and local directives, laws, regulations and/or codes that are relevant and applicable for a certain product or domain.

Service company

Qualified company which can perform or coordinate the required service to the product.

Installation manual

Instruction manual specified for a certain product or application, explaining how to install, configure and maintain it.

Operation manual

Instruction manual specified for a certain product or application, explaining how to operate it.

Accessories

Labels, manuals, information sheets and equipment that are delivered with the product and that need to be installed according to the instructions in the accompanying documentation.

Optional equipment

Equipment made or approved by Daikin that can be combined with the product according to the instructions in the accompanying documentation.

Field supply

Equipment NOT made by Daikin that can be combined with the product according to the instructions in the accompanying documentation.

12 Installer settings: Tables to be filled in by installer

12.1 Configuration wizard

	Setting	Fill in...
[10.1]	Location and language [5.9]	
	Country	
	Language	
[10.2]	Timezone [5.10] (only for Russia)	
	Timezone	
[10.3]	Time/date [5.3]	
	Daylight savings time (ON/OFF)	
[10.4]	System 1/4	
	Number of zones	
	Bivalent [5.37]	
[10.5]	System 2/4	
	—	
[10.6]	System 3/4	
	—	
[10.7]	System 4/4	
	Emergency selection [5.23]	
[10.8]	Backup heater [5.5]	
	Grid configuration	
	Maximum capacity	
	Fuse >10A (ON/OFF)	
[10.9]	Main zone 1/4	
	Emitter type [1.11]	
	Control [1.12]	
[10.10]	Main zone 2/4	
	Heating setpoint mode [1.5]	
	Cooling setpoint mode [1.7]	
[10.11]	Main zone 3/4 (Heating WD curve) [1.8]	
	LWT	
	Outside temperature	
[10.12]	Main zone 4/4 (Cooling WD curve) [1.9]	
	LWT	
	Outside temperature	

	Setting	Fill in...
[10.13]	Additional zone 1/4	
	Emitter type [2.11]	
	Control [2.12]	
[10.14]	Additional zone 2/4	
	Heating setpoint mode [2.5]	
	Cooling setpoint mode [2.7]	
[10.15]	Additional zone 3/4 (Heating WD curve) [2.8]	
	LWT	
	Outside temperature	
[10.16]	Additional zone 4/4 (Cooling WD curve) [2.9]	
	LWT	
	Outside temperature	
[10.18]	DHW 2/2	
	Tank setpoint [4.5]	
	Hysteresis [4.12]	

12.2 Settings menu

	Setting	Fill in...
	Main zone	
	Ext thermostat type [1.13]	
	Additional zone (if applicable)	
	Ext thermostat type [2.13]	
	Information	
	Dealer information [6.2]	

