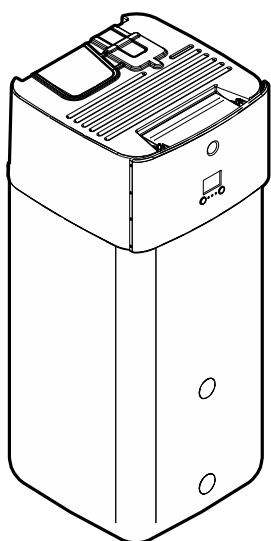




# Operation manual

## Daikin Altherma 3 H MT ECH<sub>2</sub>O



ETSH12P30EF  
ETSH12P50EF  
ETSHB12P30EF  
ETSHB12P50EF  
ETSX12P30EF  
ETSX12P50EF  
ETSXB12P30EF  
ETSXB12P50EF

Operation manual  
Daikin Altherma 3 H MT ECH<sub>2</sub>O

English

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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 the installer to inform you about the settings that he used to configure your system. Check if he has filled in the installer settings tables. If NOT, request him 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 <http://www.daikineurope.com/support-and-manuals/product-information/>
- **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 <http://www.daikineurope.com/support-and-manuals/product-information/>
- **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 <http://www.daikineurope.com/support-and-manuals/product-information/>

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

The original documentation is written in English. All other languages are translations.

### Daikin Residential Controller app



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

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



### Breadcrumbs

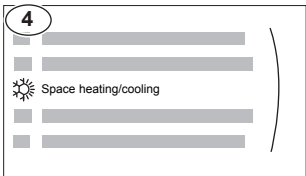
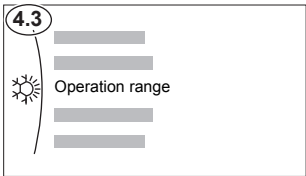
Breadcrumbs (example: [4.3]) help you to locate where you are in the menu structure of the user interface.

1	To <b>enable</b> the breadcrumbs: In the home screen or main menu screen, press the help button. The breadcrumbs appear in the top left corner of the screen.	?
2	To <b>disable</b> the breadcrumbs: Press the help button again.	?

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

1	Go to [4.3]: Space heating/cooling > Operation range.	
---	---	--

This means:

1	Starting from the home screen, turn the left dial and go to Space heating/cooling.	
		
2	Press the left dial to enter the submenu.	
3	Turn the left dial and go to Operation range.	
		
4	Press the left dial to enter the submenu.	

## 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: the dismantling of 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.

## 3 About the system

### 2.2 Instructions for safe operation



#### WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



#### WARNING

The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (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



The refrigerant inside the unit is mildly flammable, but normally does NOT leak. If the refrigerant leaks in the room and comes in contact with fire from a burner, a heater, or a cooker, this may result in fire, or the formation of a harmful gas.

Turn off any combustible heating devices, ventilate the room, and contact the dealer where you purchased the unit.

Do NOT use the unit until a service person confirms that the part from which the refrigerant leaked has been repaired.



#### 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:** 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:

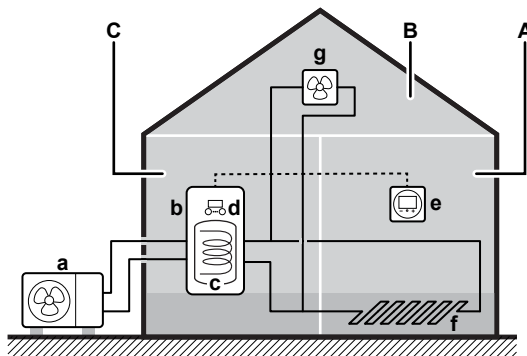
- Heat up a space
- Cool down a space (if a heating/cooling heat pump model is installed)
- Produce domestic hot water



#### INFORMATION

Cooling is only applicable in case of reversible models.

### 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** User interface of the indoor unit
- e** Dedicated Human Comfort Interface (BRC1HHDA used as room thermostat)
- f** Underfloor heating
- g** Radiators, heat pump convectors, or fan coil units

## 4 Quick guide

### 4.1 User permission level

The amount of information you can read out and edit in the menu structure depends on your user permission level:

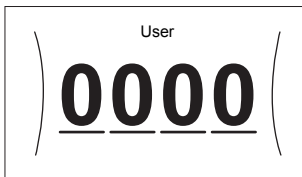
- User: Standard mode
- Advanced user: You can read out and edit more information

**To change the user permission level**

1	Go to [B]: User profile.	
2	Enter the applicable pin code for the user permission level.	—
	<ul style="list-style-type: none"> <li>Browse through the list of digits and change the selected digit.</li> </ul>	
	<ul style="list-style-type: none"> <li>Move the cursor from left to right.</li> </ul>	
	<ul style="list-style-type: none"> <li>Confirm the pin code and proceed.</li> </ul>	

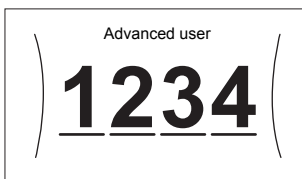
**User pin code**

The User pin code is **0000**.



**Advanced user pin code**

The Advanced user pin code is **1234**. Additional menu items for the user are now visible.



**4.2 Space heating/cooling**

**To turn space heating/cooling operation ON or OFF**



**NOTICE**

**Room frost protection.** Even if you turn OFF space heating/cooling operation ([C.2]: Operation > Space heating/cooling), room frost protection operation –if enabled– can still activate. However, for leaving water temperature control and external room thermostat control, the protection is NOT guaranteed.



**NOTICE**

**Water pipe freeze prevention.** Even if you turn OFF space heating/cooling operation ([C.2]: Operation > Space heating/cooling), water pipe freeze prevention –if enabled– will remain active.

1	Go to [C.2]: Operation > Space heating/cooling.	
2	Set operation to On or Off.	

**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]: Room.	
2	Adjust the desired room temperature.	
	<p>a Actual room temperature b Desired room temperature</p>	

**To change the desired leaving water temperature**

You can use the leaving water temperature setpoint screen to read out and adjust the desired leaving water temperature.

1	Go to [2]: Main zone or [3]: Additional zone.	
2	Adjust the desired leaving water temperature.	
	 <p>a Actual leaving water temperature b Desired leaving water temperature</p>	

**To change the weather-dependent curve for the space heating/cooling zones**

1 Go to the applicable zone:

Zone	Go to ...
Main zone – Heating	[2.5] Main zone > Heating WD curve

## 5 Operation

Zone	Go to ...
Main zone – Cooling	[2.6] Main zone > Cooling WD curve
Additional zone – Heating	[3.5] Additional zone > Heating WD curve
Additional zone – Cooling	[3.6] Additional zone > Cooling WD curve

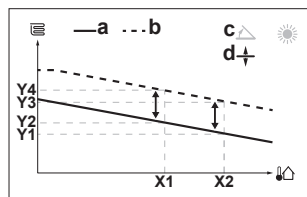
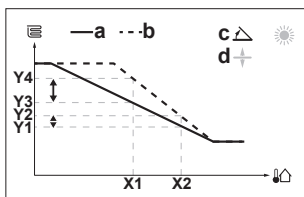
### 2 Change the weather-dependent curve.

There are 2 types of WD curves: **slope-offset curve** (default), and **2-points curve**. If needed, you can change the type in [2.E] Main zone > WD curve type. The way to adjust the curve depends on the type.

#### Slope-offset curve

**Slope.** When slope is changed, the new preferred temperature at X1 is unequally higher than the preferred temperature at X2.

**Offset.** When offset is changed, the new preferred temperature at X1 is equally higher as the preferred temperature at X2.

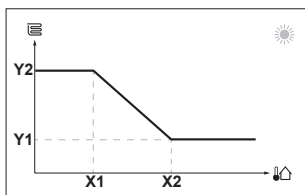


- X1, X2 Outdoor ambient temperature
- Y1~Y4 Desired leaving water temperature
- a WD curve before changes
- b WD curve after changes
- c Slope
- d Offset

#### Possible actions on this screen

	Select slope or offset.
	Increase or decrease the slope/offset.
	When slope is selected: set slope and go to offset. When offset is selected: set offset.
	Confirm changes and return to the submenu.

#### 2-points curve



- X1, X2 Outdoor ambient temperature
- Y1, Y2 Desired leaving water temperature

#### Possible actions on this screen

	Go through the temperatures.
	Change the temperature.
	Go to the next temperature.
	Confirm changes and proceed.

#### More information

For more information, see also:

- "5.4 Turning operation ON or OFF" [p 11]
- "5.6 Space heating/cooling control" [p 12]
- "5.8 Schedule screen: Example" [p 14]
- "5.9 Weather-dependent curve" [p 15]
- User reference guide

## 4.3 Domestic hot water

### To turn tank heating operation ON or OFF



#### NOTICE

To ensure safe operation of the system, do NOT turn off DHW when space heating is required.



#### NOTICE

**Disinfection mode.** Even if you turn OFF tank heating operation ([C.3]: Operation > Tank), disinfection mode will remain active. However, if you turn it OFF while disinfection is running, an AH error occurs.

1	Go to [C.3]: Operation > Tank.	
2	Set operation to On or Off.	

### To change the tank temperature setpoint

In Reheat only mode, you can use the tank temperature setpoint screen to read out and adjust the storage tank temperature. The resulting domestic hot water temperature depends on this setpoint as well as the actual storage tank temperature.

1	Go to [5]: Tank.	
2	Adjust the domestic hot water temperature.	
<p><b>a</b> Actual domestic hot water temperature <b>b</b> Desired domestic hot water temperature</p>		

In other modes, you can only view the setpoint screen but not modify it.

#### More information

For more information, see also:

- "5.4 Turning operation ON or OFF" [p 11]
- "5.7 Domestic hot water control" [p 13]
- "5.8 Schedule screen: Example" [p 14]
- User reference guide

## 5 Operation

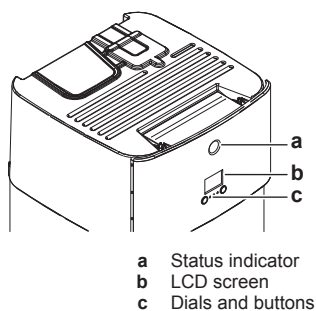


#### INFORMATION

Cooling is only applicable in case of reversible models.

## 5.1 User interface: Overview

The user interface has the following components:



- a Status indicator
- b LCD screen
- c Dials and buttons

### 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" [▶ 18] for more information.

### Slot for WLAN cartridge

With the WLAN cartridge, the installer can connect the system to the internet. As user you can then control the system via the Daikin Residential Controller app. **Note:** This slot cannot be used for SD cards.

### USB connector

With a USB memory stick, the installer can:

- Update the software. This requires a correct config file on the USB memory stick.
- Import the settings generated by E-Configurator (Heating Solutions Navigator) from the USB memory stick to the user interface (MMI). This requires a correct config file on the USB memory stick.
- Export the current settings (i.e. field settings, MMI EEPROM settings, schedule timers) from the user interface (MMI) to the USB memory stick.

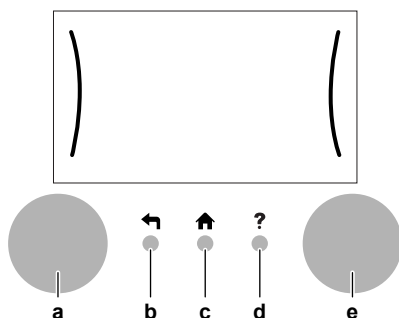
### LCD screen

The LCD screen has a sleeping function. After 15 min of non-interaction with the user interface, the screen darkens. Pressing any button or rotating any dial awakens the display.

### Dials and buttons

You use the dials and buttons:

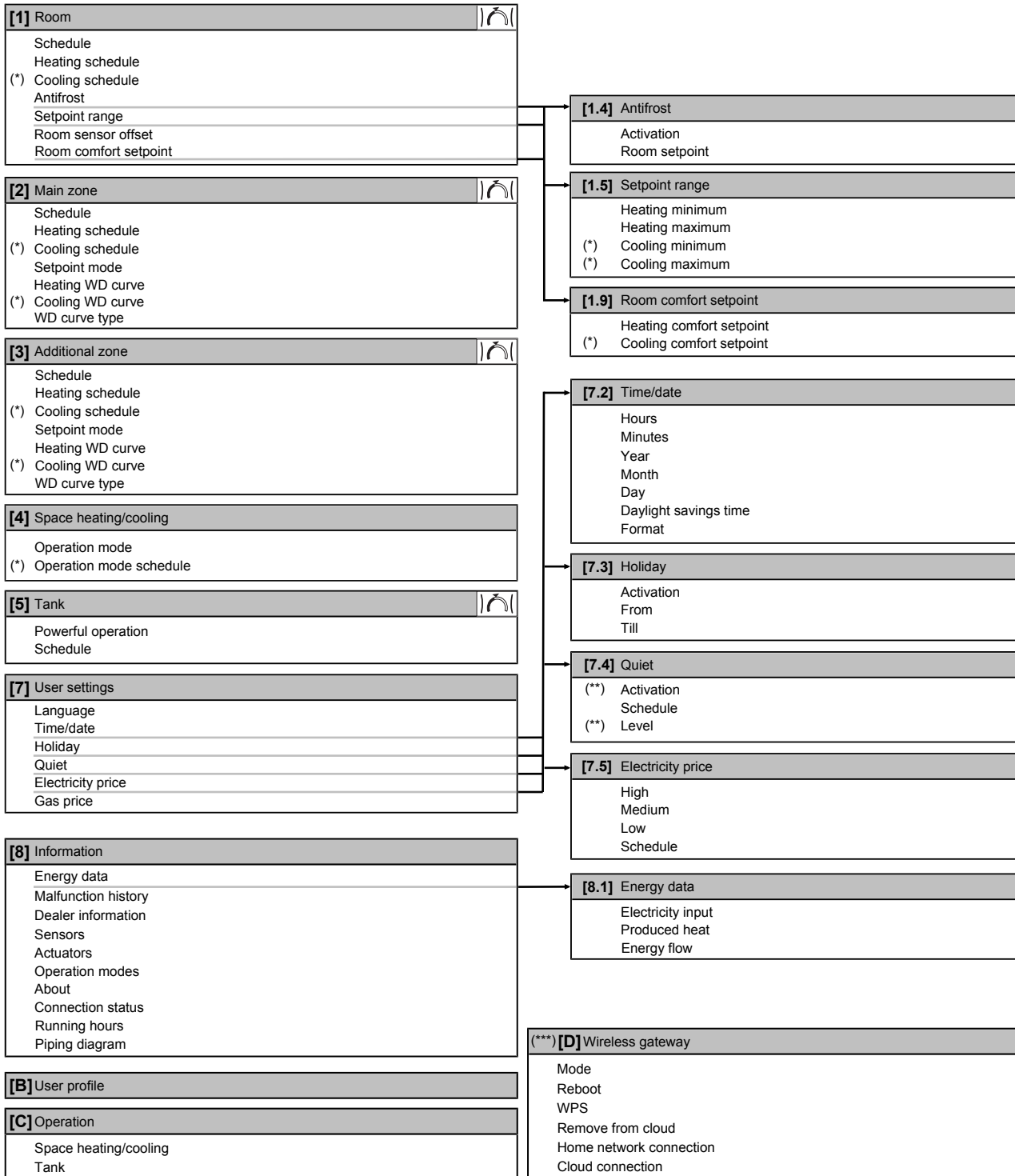
- To navigate through the screens, menus and settings of the LCD screen
- To set values



Item	Description
a Left dial	The LCD shows an arc on the left side of the display when you can use the left dial. <ul style="list-style-type: none"> <li>▪ : Turn, then press the left dial. Navigate through the menu structure.</li> <li>▪ : Turn the left dial. Choose a menu item.</li> <li>▪ : Press the left dial. Confirm your choice or go to a submenu.</li> </ul>
b Back button	: Press to go back 1 step in the menu structure.
c Home button	: Press to go back to the home screen.
d Help button	: Press to show a help text related to the current page (if available).
e Right dial	The LCD shows an arc on the right side of the display when you can use the right dial. <ul style="list-style-type: none"> <li>▪ : Turn, then press the right dial. Change a value or setting, shown at the right side of the screen.</li> <li>▪ : Turn the right dial. Navigate through the possible values and settings.</li> <li>▪ : Press the right dial. Confirm your choice and go to the next menu item.</li> </ul>

# 5 Operation

## 5.2 Menu structure: Overview user settings



Setpoint screen

(\*) Only applicable for reversible models, or heating only models + conversion kit

(\*\*) Only accessible by installer

(\*\*\*) Only applicable when WLAN is installed

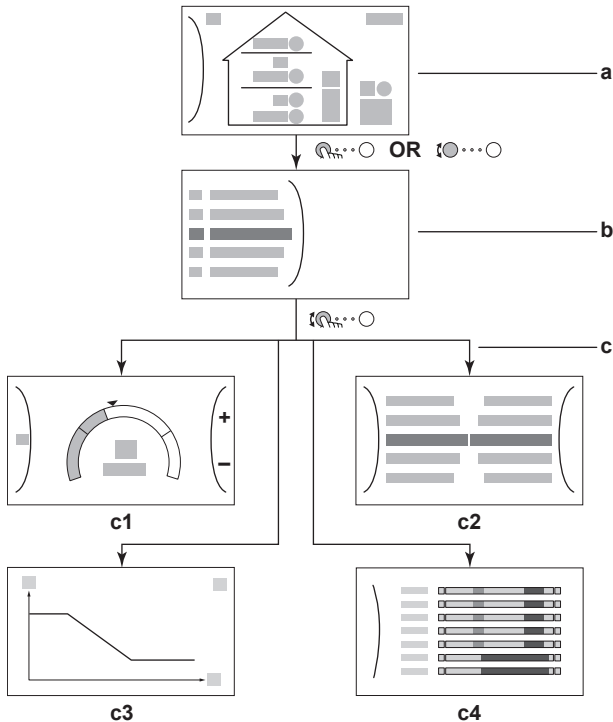


### INFORMATION

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

### 5.3 Possible screens: Overview

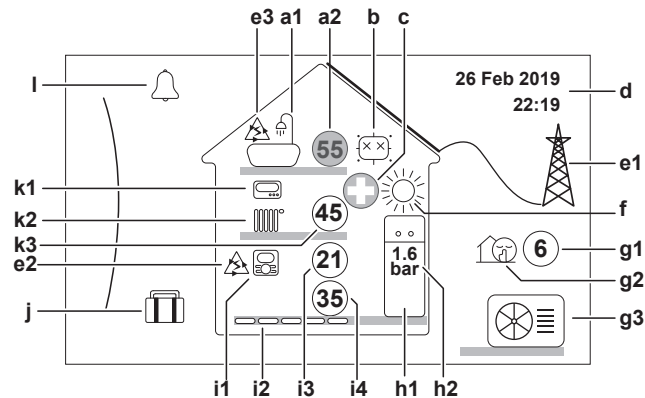
The most common screens are as follows:



- a Home screen
- b Main menu screen
- c Lower level screens:
  - c1: Setpoint screen
  - c2: Detailed screen with values
  - c3: Screen with weather-dependent curve
  - c4: Screen with schedule

#### 5.3.1 Home screen

Press the button to go back to the home screen. You see an overview of the unit configuration and the room and setpoint temperatures. Only symbols applicable for your configuration are visible on the home screen.










Possible actions on this screen	
	Go through the list of the main menu.
	Go to the main menu screen.
	Enable/disable breadcrumbs.

Item	Description
<b>a</b>	<b>Domestic hot water</b>
a1	Domestic hot water
a2	Measured tank temperature <sup>(a)</sup>

Item	Description
<b>b</b>	<b>Disinfection / Powerful</b>
	Disinfection mode active
	Powerful operation mode active
<b>c</b>	<b>Emergency</b>
	Heat pump failure and system operates in Emergency mode or heat pump is forced off.
<b>d</b>	<b>Current date and time</b>
<b>e</b>	<b>Smart energy</b>
e1	Smart energy is available via solar panels or smart grid.
e2	Smart energy is currently being used for space heating.
e3	Smart energy is currently being used for domestic hot water.
<b>f</b>	<b>Space operation mode</b>
	Cooling
	Heating
<b>g</b>	<b>Outdoor / quiet mode</b>
g1	Measured outdoor temperature <sup>(a)</sup>
g2	Quiet mode active
g3	Outdoor unit
<b>h</b>	<b>Indoor unit / domestic hot water tank</b>
h1	Floor-standing indoor unit with integrated tank
	Wall-mounted indoor unit
	Wall-mounted indoor unit with separated tank
h2	Water pressure
<b>i</b>	<b>Main zone</b>
i1	Installed room thermostat type: <ul style="list-style-type: none"> <li> Unit operation is decided based on the ambient temperature of the dedicated Human Comfort Interface (BRC1HHDA used as room thermostat).</li> <li> Unit operation is decided by the external room thermostat (wired or wireless).</li> <li> No room thermostat installed or set. Unit operation is decided based on the leaving water temperature regardless of the actual room temperature and/or heating demand of the room.</li> </ul>
i2	Installed heat emitter type: <ul style="list-style-type: none"> <li> Underfloor heating</li> <li> Fancoil unit</li> <li> Radiator</li> </ul>
i3	Measured room temperature <sup>(a)</sup>
i4	Leaving water temperature setpoint <sup>(a)</sup>
<b>j</b>	<b>Holiday mode</b>
	Holiday mode active

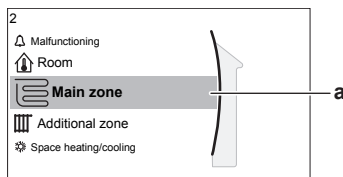
## 5 Operation

Item	Description
<b>k</b>	<b>Additional zone</b>
<b>k1</b>	Installed room thermostat type:
	Unit operation is decided by the external room thermostat (wired or wireless).
—	No room thermostat installed or set. Unit operation is decided based on the leaving water temperature regardless of the actual room temperature and/or heating demand of the room.
<b>k2</b>	Installed heat emitter type:
	Underfloor heating
	Fancoil unit
	Radiator
<b>k3</b>	 Leaving water temperature setpoint <sup>(a)</sup>
<b>l</b>	<b>Malfunction</b>
	A malfunction occurred.
	See "8.1 To display the help text in case of a malfunction" [▶ 18] for more information.



<sup>(a)</sup> If the corresponding operation (for example: space heating) is not active, the circle is greyed out.





### 5.3.2 Main menu screen










Starting from the home screen, press (🔍) or turn (🔍) the left dial to open the main menu screen. From the main menu, you can access the different setpoint screens and submenus.



a Selected submenu

Possible actions on this screen	
	Go through the list.
	Enter the submenu.
?	Enable/disable breadcrumbs.

Submenu	Description
[0]  Malfunctioning	<b>Restriction:</b> Only displayed if a malfunction occurs. See "8.1 To display the help text in case of a malfunction" [▶ 18] for more information.
[1]  Room	<b>Restriction:</b> Only displayed if a dedicated Human Comfort Interface (BRC1HHDA used as room thermostat) is controlling the indoor unit. Set the room temperature.
[2]  Main zone	Shows the applicable symbol for your main zone emitter type. Set the leaving water temperature for the main zone.
[3]  Additional zone	<b>Restriction:</b> Only displayed if there are two leaving water temperature zones. Shows the applicable symbol for your additional zone emitter type. Set the leaving water temperature for the additional zone (if present).

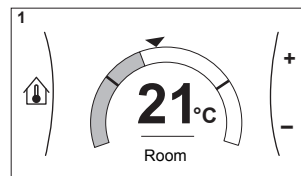
Submenu	Description
[4]  Space heating/cooling	Shows the applicable symbol of your unit. Put the unit in heating mode or cooling mode. You cannot change the mode on heating only models.
[5]  Tank	Set the storage tank temperature.
[7]  User settings	Gives access to user settings such as holiday mode and quiet mode.
[8]  Information	Displays data and information about the indoor unit.
[9]  Installer settings	<b>Restriction:</b> Only for the installer. Gives access to advanced settings.
[A]  Commissioning	<b>Restriction:</b> Only for the installer. Perform tests and maintenance.
[B]  User profile	Change the active user profile.
[C]  Operation	Turn heating/cooling functionality and domestic hot water preparation on or off.
[D]  Wireless gateway	<b>Restriction:</b> Only displayed if a wireless LAN (WLAN) is installed. Contains settings needed when configuring the Daikin Residential Controller app.

### 5.3.3 Setpoint screen

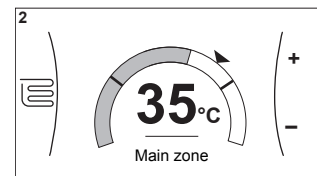
The setpoint screen is displayed for screens describing system components that need a setpoint value.

#### Examples

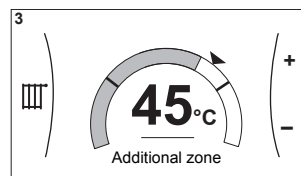
[1] Room temperature screen



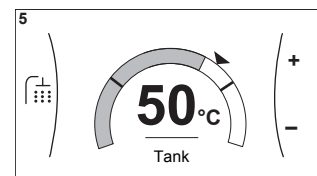
[2] Main zone screen



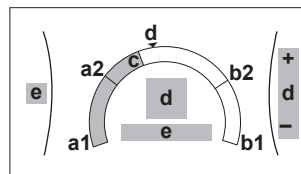
[3] Additional zone screen






[5] Tank temperature screen



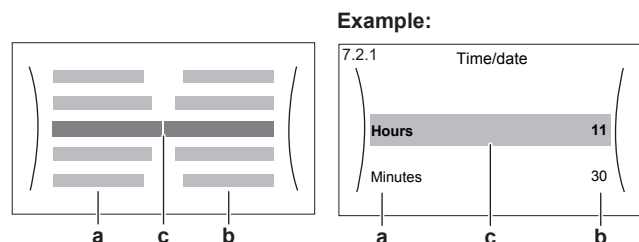
#### Explanation



Possible actions on this screen	
	Go through the list of the submenu.
	Go to the submenu.
	Adjust and automatically apply the desired temperature.

Item	Description	
Minimum temperature limit	a1	Fixed by the unit
	a2	Restricted by the installer
Maximum temperature limit	b1	Fixed by the unit
	b2	Restricted by the installer
Current temperature	c	Measured by the unit
Desired temperature	d	Turn the right dial to increase/decrease.
Submenu	e	Turn or press the left dial to go to the submenu.

### 5.3.4 Detailed screen with values



- a Settings
- b Values
- c Selected setting and value

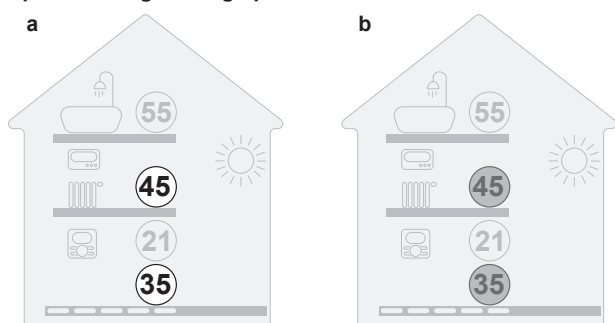
Possible actions on this screen	
	Go through the list of settings.
	Change the value.
	Go to the next setting.
	Confirm changes and proceed.

## 5.4 Turning operation ON or OFF

### 5.4.1 Visual indication

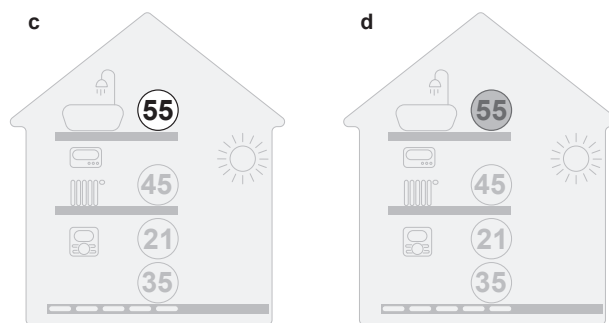
Certain functionalities of the unit can be enabled or disabled separately. If a functionality is disabled, the corresponding temperature icon in the home screen will be greyed out.

#### Space heating/cooling operation



- a Space heating/cooling operation ON
- b Space heating/cooling operation OFF

#### Tank heating operation



- c Tank heating operation ON
- d Tank heating operation OFF

### 5.4.2 To turn ON or OFF

#### Space heating/cooling operation



#### NOTICE

**Room frost protection.** Even if you turn OFF space heating/cooling operation ([C.2]: Operation > Space heating/cooling), room frost protection operation – if enabled – can still activate. However, for leaving water temperature control and external room thermostat control, the protection is NOT guaranteed.



#### NOTICE

**Water pipe freeze prevention.** Even if you turn OFF space heating/cooling operation ([C.2]: Operation > Space heating/cooling), water pipe freeze prevention – if enabled – will remain active.

1	Go to [C.2]: Operation > Space heating/cooling.	
2	Set operation to On or Off.	

#### Tank heating operation



#### NOTICE

To ensure safe operation of the system, do NOT turn off DHW when space heating is required.



#### NOTICE

**Disinfection mode.** Even if you turn OFF tank heating operation ([C.3]: Operation > Tank), disinfection mode will remain active. However, if you turn it OFF while disinfection is running, an AH error occurs.

1	Go to [C.3]: Operation > Tank.	
2	Set operation to On or Off.	

## 5.5 Reading out information

#### To read out information

1	Go to [8]: Information.	
---	-------------------------	--

## 5 Operation

### Possible read-out information

In menu...	You can read out...
[8.1] Energy data	Produced energy, consumed electricity, and consumed gas, energy flow diagram
[8.2] Malfunction history	Malfunction history
[8.3] Dealer information	Contact/helpdesk number
[8.4] Sensors	Room, tank or domestic hot water, outside, and leaving water temperature (if applicable)
[8.5] Actuators	Status/mode of each actuator <b>Example:</b> Domestic hot water pump ON/OFF
[8.6] Operation modes	Current operation mode <b>Example:</b> Defrost/oil return mode
[8.7] About	Version information about the system
[8.8] Connection status	Information about the connection status of the unit, the room thermostat and the LAN adapter.
[8.9] Running hours	Running hours of specific system components
[8.B] Piping diagram	Real-time sensor and actuator information of the main system components

## 5.6 Space heating/cooling control

### 5.6.1 Setting the space operation mode

#### About space operation modes

Your unit can be a heating or a heating/cooling model:

- If your unit is a heating model, it can heat up a space.
- If 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.

To tell the system which space operation to use, you can:

You can...	Location
Check which space operation mode is currently used.	Home screen
Set the space operation mode permanently.	Main menu
Restrict automatic changeover according to a monthly schedule.	

#### To set the space operation mode

1	Go to [4.1]: Space heating/cooling > Operation mode	
2	Select one of the following options: <ul style="list-style-type: none"> <li>• Heating: Only heating mode</li> <li>• Cooling: Only cooling mode</li> <li>• Automatic: The operation mode changes automatically between heating and cooling based on the outdoor temperature. Restricted per month according to the Operation mode schedule [4.2].</li> </ul>	

#### To restrict automatic changeover according to a schedule

**Conditions:** You set the space operation mode to Automatic.

1	Go to [4.2]: Space heating/cooling > Operation mode schedule.	
---	---	--

2	Select a month.	
3	For each month, select an option: <ul style="list-style-type: none"> <li>• Reversible: Not restricted</li> <li>• Heating only: Restricted</li> <li>• Cooling only: Restricted</li> </ul>	
4	Confirm the changes.	

### 5.6.2 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]: Room.	
2	Adjust the desired room temperature.	
<p><b>a</b> Actual room temperature <b>b</b> Desired room temperature</p>		

#### 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.

#### To turn off room temperature scheduling

1	Go to [1.1]: Room > Schedule.	
2	Select No.	

### 5.6.3 To change the desired leaving water temperature

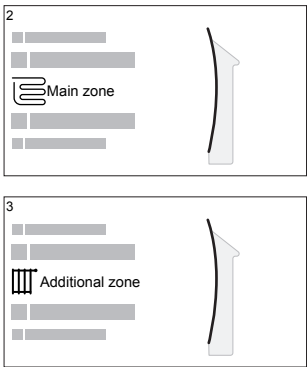


#### INFORMATION

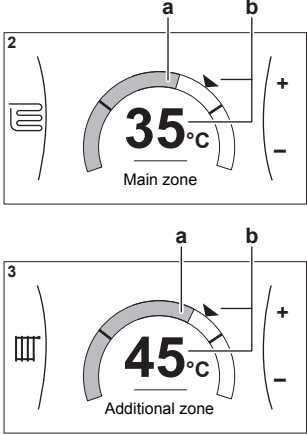
The leaving water is the water that is sent to the heat emitters. The desired leaving water temperature is set by your installer in accordance with the heat emitter type. Only adjust the leaving water temperature settings in case of problems.

You can use the leaving water temperature setpoint screen to read out and adjust the desired leaving water temperature.

**1** Go to [2]: Main zone or [3]: Additional zone.



**2** Adjust the desired leaving water temperature.

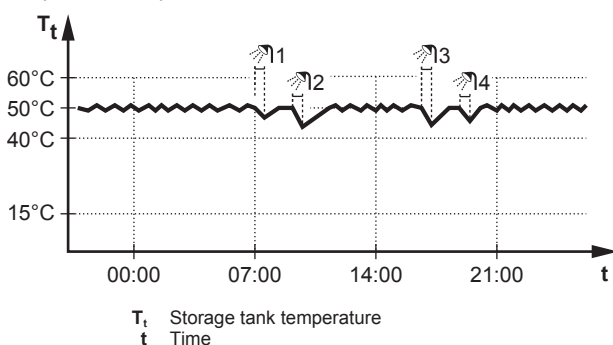


**a** Actual leaving water temperature  
**b** Desired leaving water temperature

## 5.7 Domestic hot water control

### 5.7.1 Reheat mode

In reheat mode the storage tank continuously heats up to the temperature shown on the home screen (example: 50°C) when the temperature drops below a certain value.



#### INFORMATION

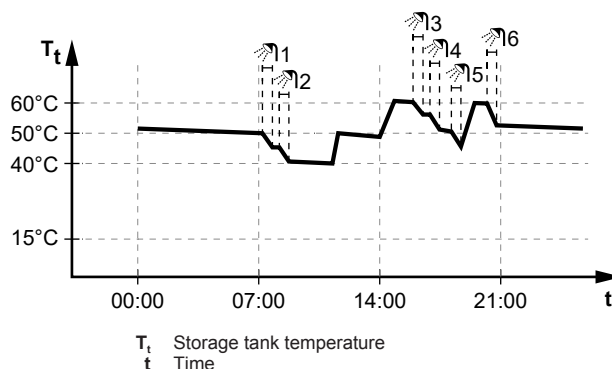
Risk of space heating capacity shortage: In case of frequent tank operation, frequent and long space heating/cooling interruption will happen when selecting the following:

Tank > Heat up mode > Reheat only.

### 5.7.2 Scheduled reheat mode

In scheduled reheat mode the storage tank set temperature varies according to the schedule. When the tank temperature drops below the set temperature minus the heat pump ON hysteresis temperature [6-00], the tank heats up to the reheat temperature.

Example:




- At 14:00 the DHW schedule is programmed to heat up the tank to 60°C.
- At 21:00 the DHW schedule is programmed to heat up the tank to 50°C. This value is valid until 14:00 the next day.
- With the higher set temperature, in the afternoon and evening more hot water is available.
- During the morning, you consume hot water and the storage tank temperature decreases.
- When the tank temperature drops below a preset value (=set temperature – hysteresis value; example 40°C), the tank is heated up to 50°C.
- During the afternoon and evening, you consume hot water again and the DHW tank temperature decreases again.
- When the tank temperature drops below a preset value (=set temperature – hysteresis value; example 50°C), the tank is heated up to 60°C.

### 5.7.3 Using DHW powerful operation



#### About powerful operation

Powerful operation allows the domestic hot water to be heated by the backup heater or booster heater. Use this mode on days when there is more hot water usage than usual.

#### To check if powerful operation is active

If  is displayed on the home screen, powerful operation is active.

Activate or deactivate Powerful operation as follows:

1	Go to [5.1]: Tank > Powerful operation	
2	Turn powerful operation Off or On.	

#### 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 Comfort 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 Operation

### 5.8 Schedule screen: Example

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

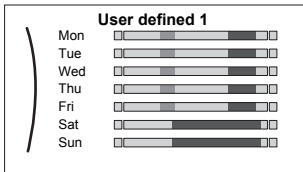


#### INFORMATION

The procedures to program other schedules are similar.

#### To program the schedule: overview

**Example:** You want to program the following schedule:



**Prerequisite:** The room temperature schedule is only available if room thermostat control is active. If leaving water temperature control is active, you can program the main zone schedule instead.

- 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 Monday.
- 4 Copy the schedule to the other weekdays.
- 5 Program the schedule for Saturday and copy it to Sunday.
- 6 Give the schedule a name.

#### To go to the schedule

1	Go to [1.1]: Room > Schedule.	
2	Set scheduling to Yes.	
3	Go to [1.2]: Room > Heating schedule.	

#### To clear the content of the week schedule

1	Select the name of the current schedule.	
2	Select Delete.	
3	Select OK to confirm.	

#### To clear the content of a day schedule

1	Select the day of which you want to clear the content. For example Friday	

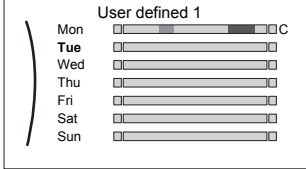


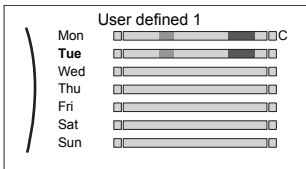

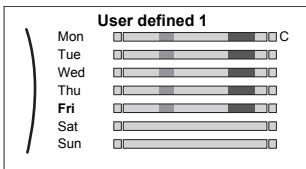
2	Select Delete.	
3	Select OK to confirm.	

#### To program the schedule for Monday



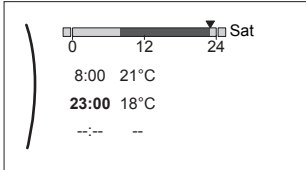






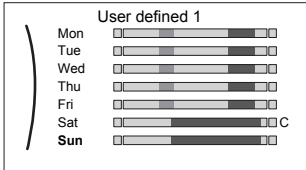

1	Select Monday.	
2	Select Edit.	
3	Use the left dial to select an entry with the right dial. You can program up to 6 actions each day. On the bar, a high temperature has a darker colour than a low temperature.	
<p><b>Note:</b> To clear an action, set its time as the time of the previous action.</p>		
4	Confirm the changes.	
<p><b>Result:</b> The schedule for Monday is defined. The value of the last action is valid until the next programmed action. In this example, Monday is the first day you programmed. Thus, the last programmed action is valid up to the first action of next Monday.</p>		

#### To copy the schedule to the other weekdays

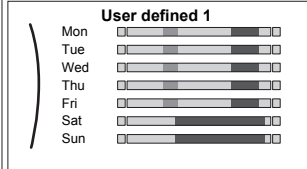

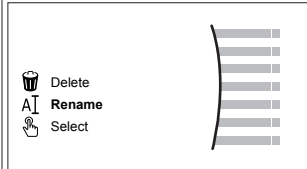




1	Select Monday.	
2	Select Copy.	
<p><b>Result:</b> Next to the copied day, "C" is displayed.</p>		

<p><b>3</b> Select Tuesday.</p> 	
<p><b>4</b> Select Paste.</p>  <p><b>Result:</b></p> 	
<p><b>5</b> Repeat this action for all other weekdays.</p> 	<p>—</p>

### To program the schedule for Saturday and copy it to Sunday

<p><b>1</b> Select Saturday.</p>	
<p><b>2</b> Select Edit.</p>	
<p><b>3</b> Use the left dial to select an entry and edit the entry with the right dial.</p> 	 
<p><b>4</b> Confirm the changes.</p>	
<p><b>5</b> Select Saturday.</p>	
<p><b>6</b> Select Copy.</p>	
<p><b>7</b> Select Sunday.</p>	
<p><b>8</b> Select Paste.</p> <p><b>Result:</b></p> 	

### To rename the schedule

<p><b>1</b> Select the name of the current schedule.</p> 	
<p><b>2</b> Select Rename.</p> 	
<p><b>3</b> (optional) To delete the current schedule name, browse through the character list until ← is displayed, then press to remove the previous character. Repeat for each character of the schedule name.</p>	
<p><b>4</b> To name the current schedule, browse through the character list and confirm the selected character. The schedule name can contain up to 15 characters.</p>	
<p><b>5</b> Confirm the new name.</p>	



### INFORMATION

Not all schedules can be renamed.

## 5.9 Weather-dependent curve

### 5.9.1 What is a weather-dependent curve?

#### Weather-dependent operation

The unit operates 'weather dependent' if the desired leaving water or tank 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 or tank. 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 tank or 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 house, the curve can be adjusted by an installer or user.

#### Types of weather-dependent curve

There are 2 types of weather-dependent curves:

- 2-points curve
- Slope-offset curve

Which type of curve you use to make adjustments, depends on your personal preference. See "5.9.4 Using weather-dependent curves" [p 17].

#### Availability

The weather-dependent curve is available for:

- Main zone - Heating

## 5 Operation

- Main zone - Cooling
- Additional zone - Heating
- Additional zone - Cooling
- Tank (only available to installers)



### INFORMATION

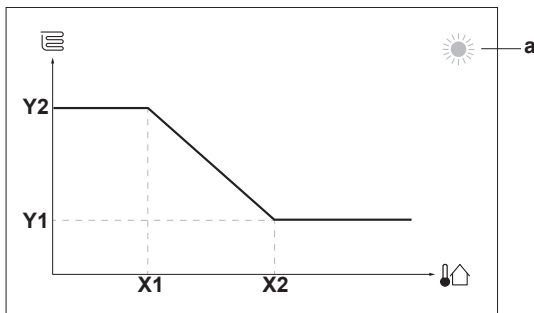
To operate weather dependent, correctly configure the setpoint of the main zone, additional zone or tank. See "5.9.4 Using weather-dependent curves" [p 17].

### 5.9.2 2-points curve

Define the weather-dependent curve with these two setpoints:

- Setpoint (X1, Y2)
- Setpoint (X2, Y1)

#### Example



Item	Description
<b>a</b>	Selected weather dependent zone: <ul style="list-style-type: none"> <li>☀: Main zone or additional zone heating</li> <li>❄: Main zone or additional zone cooling</li> <li>🏠: Domestic hot water</li> </ul>
<b>X1, X2</b>	Examples of outdoor ambient temperature
<b>Y1, Y2</b>	Examples of desired tank temperature or leaving water temperature. The icon corresponds to the heat emitter for that zone: <ul style="list-style-type: none"> <li>🏠: Underfloor heating</li> <li>🏠: Fan coil unit</li> <li>🏠: Radiator</li> <li>🏠: Storage tank</li> </ul>

#### Possible actions on this screen

⏪⋯⋯⋯⏩	Go through the temperatures.
⏪⋯⋯⋯⏩	Change the temperature.
⏪⋯⋯⏩	Go to the next temperature.
⏪⋯⋯⏩	Confirm changes and proceed.

### 5.9.3 Slope-offset curve

#### Slope and offset

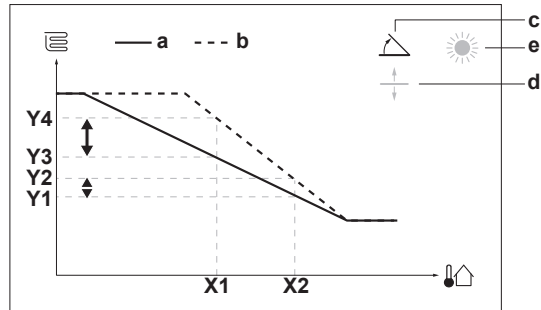
Define the weather-dependent curve by its slope and offset:

- Change the **slope** to differently increase or decrease the temperature of the leaving water for different ambient temperatures. For example, if leaving water temperature is in general fine but at low ambient temperatures too cold, raise the slope so that leaving water temperature is heated increasingly more at decreasingly lower ambient temperatures.

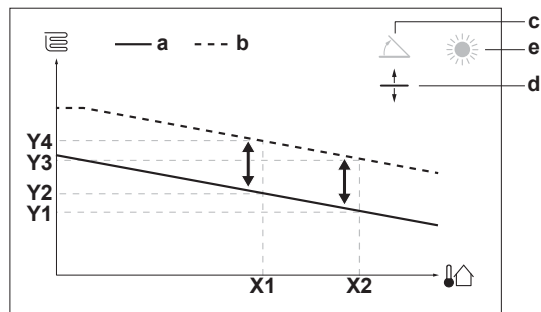
- Change the **offset** to equally increase or decrease the temperature of the leaving water for different ambient temperatures. For example, if leaving water temperature is always a bit too cold at different ambient temperatures, shift the offset up to equally increase the leaving water temperature for all ambient temperatures.

#### Examples

Weather-dependent curve when slope is selected:



Weather-dependent curve when offset is selected:



Item	Description
<b>a</b>	WD curve before changes.
<b>b</b>	WD curve after changes (as example): <ul style="list-style-type: none"> <li>• When slope is changed, the new preferred temperature at X1 is unequally higher than the preferred temperature at X2.</li> <li>• When offset is changed, the new preferred temperature at X1 is equally higher as the preferred temperature at X2.</li> </ul>
<b>c</b>	Slope
<b>d</b>	Offset
<b>e</b>	Selected weather dependent zone: <ul style="list-style-type: none"> <li>☀: Main zone or additional zone heating</li> <li>❄: Main zone or additional zone cooling</li> <li>🏠: Domestic hot water</li> </ul>
<b>X1, X2</b>	Examples of outdoor ambient temperature
<b>Y1, Y2, Y3, Y4</b>	Examples of desired tank temperature or leaving water temperature. The icon corresponds to the heat emitter for that zone: <ul style="list-style-type: none"> <li>🏠: Underfloor heating</li> <li>🏠: Fan coil unit</li> <li>🏠: Radiator</li> <li>🏠: Storage tank</li> </ul>

Possible actions on this screen	
	Select slope or offset.
	Increase or decrease the slope/offset.
	When slope is selected: set slope and go to offset. When offset is selected: set offset.
	Confirm changes and return to the submenu.

### 5.9.4 Using weather-dependent curves

Configure weather-dependent curves as following:

#### To define the setpoint mode

To use the weather-dependent curve, you need to define the correct setpoint mode:

Go to setpoint mode ...	Set the setpoint mode to ...
<b>Main zone – Heating</b>	
[2.4] Main zone > Setpoint mode	WD heating, fixed cooling OR Weather dependent
<b>Main zone – Cooling</b>	
[2.4] Main zone > Setpoint mode	Weather dependent
<b>Additional zone – Heating</b>	
[3.4] Additional zone > Setpoint mode	WD heating, fixed cooling OR Weather dependent
<b>Additional zone – Cooling</b>	
[3.4] Additional zone > Setpoint mode	Weather dependent
<b>Tank</b>	
[5.B] Tank > Setpoint mode	<b>Restriction:</b> Only available to installers. Weather dependent

#### To change the type of weather-dependent curve

To change the type for all zones (main + additional) and for the tank, go to [2.E] Main zone > WD curve type.

Viewing which type is selected is also possible via:

- [3.C] Additional zone > WD curve type
- [5.E] Tank > WD curve type

**Restriction:** Only available to installers.

#### To change the weather-dependent curve

Zone	Go to ...
<b>Main zone – Heating</b>	[2.5] Main zone > Heating WD curve
<b>Main zone – Cooling</b>	[2.6] Main zone > Cooling WD curve
<b>Additional zone – Heating</b>	[3.5] Additional zone > Heating WD curve
<b>Additional zone – Cooling</b>	[3.6] Additional zone > Cooling WD curve
<b>Tank</b>	<b>Restriction:</b> Only available to installers. [5.C] Tank > WD curve



#### 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 or for the tank. When the maximum or minimum setpoint is reached, the curve flattens out.

#### To fine-tune the weather-dependent curve: slope-offset curve

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

You feel ...		Fine-tune with slope and offset:	
At regular outdoor temperatures ...	At cold outdoor temperatures ...	Slope	Offset
OK	Cold	↑	—
OK	Hot	↓	—
Cold	OK	↓	↑
Cold	Cold	—	↑
Cold	Hot	↓	↑
Hot	OK	↑	↓
Hot	Cold	↑	↓
Hot	Hot	—	↓

#### To fine-tune the weather-dependent curve: 2-points curve

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

You feel ...		Fine-tune with setpoints:			
At regular outdoor temperatures ...	At cold outdoor temperatures ...	Y2 <sup>(a)</sup>	Y1 <sup>(a)</sup>	X1 <sup>(a)</sup>	X2 <sup>(a)</sup>
OK	Cold	↑	—	↑	—
OK	Hot	↓	—	↓	—
Cold	OK	—	↑	—	↑
Cold	Cold	↑	↑	↑	↑
Cold	Hot	↓	↑	↓	↑
Hot	OK	—	↓	—	↓
Hot	Cold	↑	↓	↑	↓
Hot	Hot	↓	↓	↓	↓

<sup>(a)</sup> See "5.9.2 2-points curve" [p. 16].

## 6 Energy saving tips

### Tips about room temperature

- Make sure the desired room temperature is NEVER too high (in heating mode) or too low (in cooling mode), but ALWAYS 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 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.

## 7 Maintenance and service

- 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 [8.3]: 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 if 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).

## 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 [8.3]: Information > Dealer information.	
---	--	--

### 8.1 To display the help text in case of a malfunction

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

- : Error
- : Malfunction

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

1	Press the left dial to open the main menu and go to Malfunctioning. <b>Result:</b> A short description of the error and the error code is displayed on the screen.	
2	Press ? in the error screen. <b>Result:</b> A long description of the error is displayed on the screen.	?

### 8.2 To check the malfunction history

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

1	Go to [8.2]: Information > 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 " <a href="#">5.6.2 To change the desired room temperature</a> " [▶ 12].  If the problem recurs daily, do one of the following: <ul style="list-style-type: none"> <li>Increase (decrease) the room temperature preset value. See the user reference guide.</li> <li>Adjust the room temperature schedule. See "<a href="#">5.8 Schedule screen: Example</a>" [▶ 14].</li> </ul>
The desired room temperature cannot be reached.	Increase the desired leaving water temperature in accordance with the heat emitter type. See " <a href="#">5.6.3 To change the desired leaving water temperature</a> " [▶ 12].
The weather-dependent curve is set incorrectly.	Adjust the weather-dependent curve. See " <a href="#">5.9 Weather-dependent curve</a> " [▶ 15].

### 8.4 Symptom: The water at the tap is too cold

Possible cause	Corrective action
You ran out of domestic hot water because of unusual high consumption.	If you immediately need domestic hot water, activate the tank Powerful operation. However, this consumes extra energy. See " <a href="#">5.7.3 Using DHW powerful operation</a> " [▶ 13].
The desired storage tank temperature is too low.	If the problems recurs daily, do one of the following: <ul style="list-style-type: none"> <li>Adjust the storage tank temperature schedule. See "<a href="#">5.8 Schedule screen: Example</a>" [▶ 14].</li> </ul>

### 8.5 Symptom: Heat pump failure



When the heat pump fails to operate, the backup heater or boiler can serve as an emergency heater. It then takes over the heat load either automatically or by manual interaction.

- When Emergency is set to Automatic and a heat pump failure occurs, the backup heater or boiler automatically takes over the domestic hot water production and space heating.
- When Emergency is set to Manual and a heat pump failure occurs, the domestic hot water heating and space heating stops.

To manually recover it via the user interface, go to the Malfunctioning main menu screen and confirm whether the backup heater can take over the heat load or not.

- Alternatively, when Emergency is set to:
  - auto SH reduced/DHW on, space heating is reduced but domestic hot water is still available.
  - auto SH reduced/DHW off, space heating is reduced and domestic hot water is NOT available.
  - auto SH normal/DHW off, space heating operates as normally but domestic hot water is NOT available.

Similarly as in Manual mode, the unit can take the full load with the backup heater or boiler if the user activates this via the Malfunctioning main menu screen.

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" [p 18].



#### 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. <sup>(a)</sup>
Incorrect hydraulic balance.	To be performed by the installer: <ol style="list-style-type: none"> <li>Perform hydraulic balancing to assure that the flow is correctly distributed between the emitters.</li> <li>If hydraulic balancing is not sufficient, change the pump limitation settings ([9-0D] and [9-0E] if applicable).</li> </ol>
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" [p 18] for more information about the malfunction.

<sup>(a)</sup> 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:** Refrigerant might leak into the water circuit, and subsequently into the room when you purge air from the heat emitters or collectors.

## 9 Disposal



#### 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.

## 10 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.

## 11 Installer settings: Tables to be filled in by installer

### 11.1 Configuration wizard

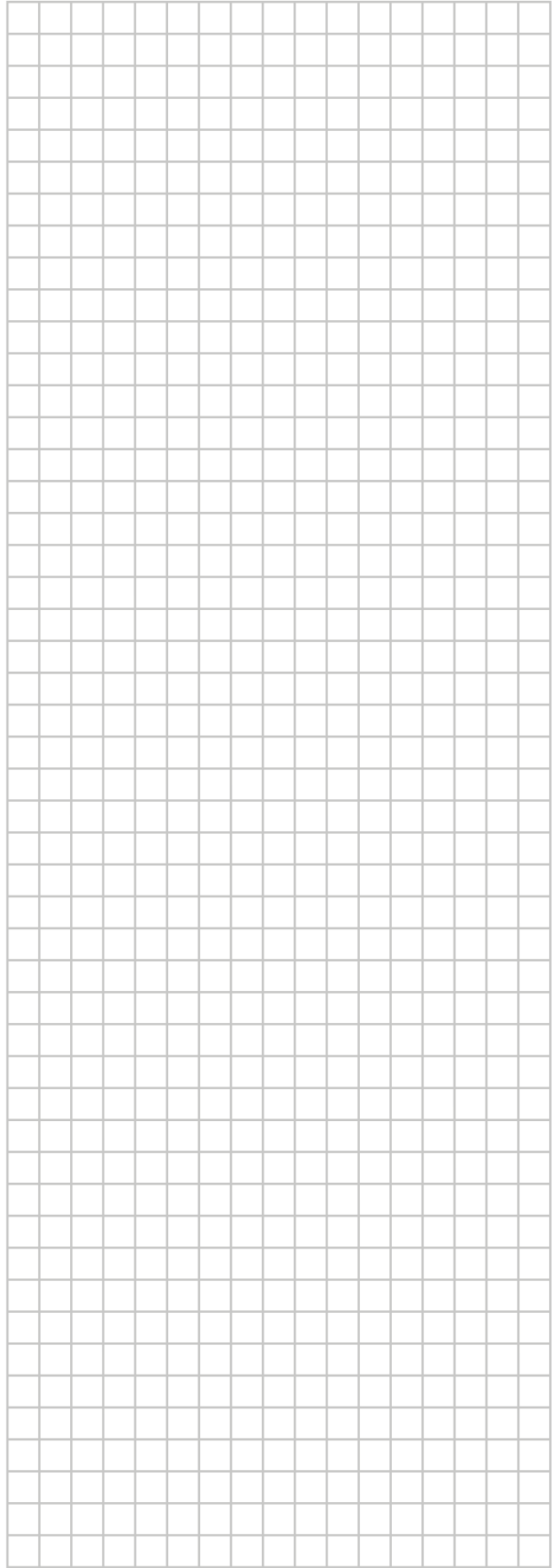
Setting	Fill in...
System	
Indoor unit type (read only)	
Backup heater type [9.3.1] (read only)	
Domestic hot water [9.2.1]	
Emergency [9.5]	
Number of zones [4.4]	
Glycol Filled system (overview field setting [E-0D])	
Solar [9.2.4]	
Backup heater	
Voltage [9.3.2]	
Configuration [9.3.3]	
Capacity step 1 [9.3.4]	
Additional capacity step 2 [9.3.5] (if applicable)	
Main zone	
Emitter type [2.7]	
Control [2.9]	
Setpoint mode [2.4]	
Schedule [2.1]	
WD curve type [2.E]	
Additional zone (only if [4.4]=1, dual zone)	
Emitter type [3.7]	
Control (read only) [3.9]	
Setpoint mode [3.4]	
Schedule [3.1]	
WD curve type [3.C] (read only)	
Tank	
Heat up mode [5.6]	
Hysteresis [5.9]	

## 11 Installer settings: Tables to be filled in by installer

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### 11.2 Settings menu

Setting	Fill in...
Main zone	
Thermostat type [2.A]	
Additional zone (if applicable)	
Thermostat type [3.A]	
Information	
Dealer information [8.3]	







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