

User reference guide Daikin Altherma 3 H HT F

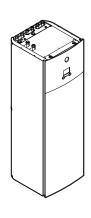


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1 Installer settings: Tables to be filled in by installer

1.1 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-OD])		
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	e)	
Emitter type[3.7]		
Control (read only) [3.9]		
Setpoint mode [3.4]		
Schedule [3.1]		
WD curve type [3.C] (read only)		
Tank		

	Setting	Fill in
	Heat up mode [5.6]	
	Comfort setpoint [5.2]	
	Eco setpoint [5.3]	
	Reheat setpoint [5.4]	
	Setpoint mode [5.B]	
	WD curve type [5.E] (read only)	

1.2 Settings menu

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

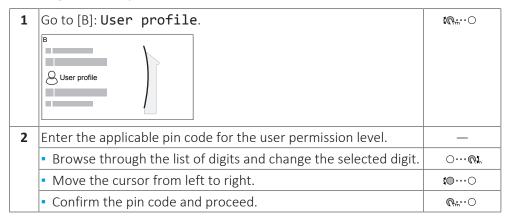
2 Quick guide

2.1 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



User pin code

The **User** pin code is **0000**.



Advanced user pin code

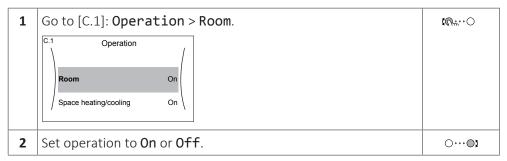
The Advanced user pin code is 1234. Additional menu items for the user are now visible.





2.2 Space heating/cooling

To turn room temperature control ON or OFF



To turn space heating/cooling operation ON or OFF



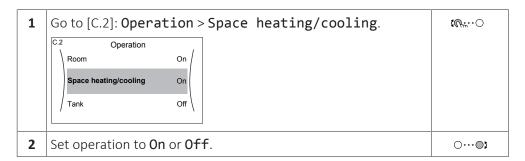
NOTICE

Room frost protection. Even if you turn OFF space heating/cooling operation ([C.2]: Operation > Space heating/cooling), room frost protection —if enabled— will remain active.



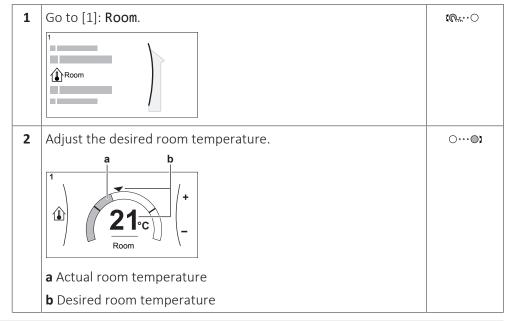
NOTICE

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.



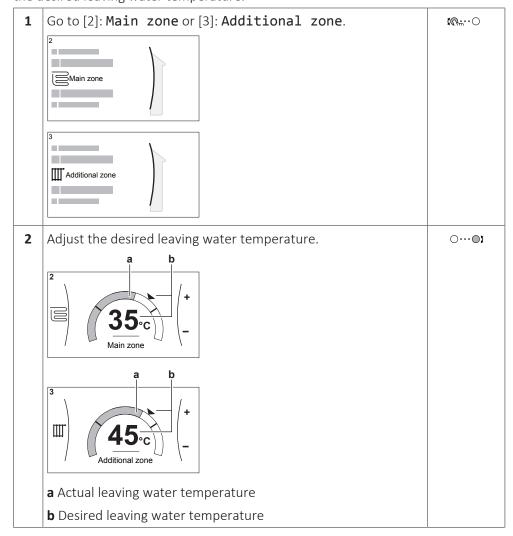
To change the desired room temperature

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



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.



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
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

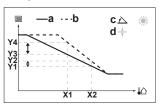
2 Change the weather-dependent curve.

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.

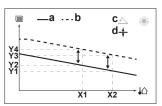


Slope-offset curve

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



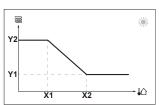
Offset. When offset is changed, the new preferred temperature at X1 is equally higher as the preferred temperature at X2.



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

Possible actions on this screen		
t 00	Select slope or offset.	
○…○}	Increase or decrease the slope/offset.	
OQm	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		
t 0…0	Go through the temperatures.	
001	Change the temperature.	
○@ ^µ	Go to the next temperature.	
© #○	Confirm changes and proceed.	

More information

For more information, see also:

- "4.4 Turning operation ON or OFF" [▶ 29]
- "4.6 Space heating/cooling control" [▶ 32]
- "4.8 Preset values and schedules" [▶ 41]
- "4.9 Weather-dependent curve" [▶ 50]

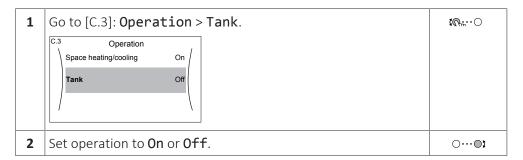
2.3 Domestic hot water

To turn tank heating operation ON or OFF



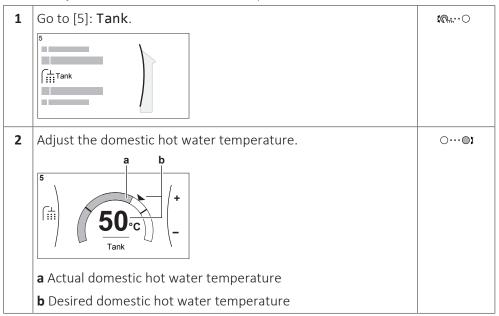
NOTICE

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.



To change the tank temperature setpoint

In Reheat only mode, you can use the tank temperature setpoint screen to read out and adjust the domestic hot water temperature.



In other modes, you can only view the setpoint screen but not modify it. Instead, you can modify the settings for the Comfort setpoint [5.2], Eco setpoint [5.3] and Reheat setpoint [5.4].

To change the weather-dependent curve for the tank

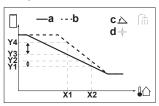
- 1 Go to [5.C] Tank > WD curve.
- **2** Change the weather-dependent curve.

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.

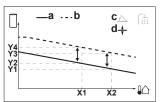


Slope-offset curve

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



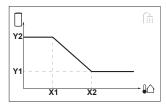
Offset. When offset is changed, the new preferred temperature at X1 is equally higher as the preferred temperature at X2.



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

Possible actions on this screen		
(0···)	Select slope or offset.	
O©‡	Increase or decrease the slope/offset.	
OQm	When slope is selected: set slope and go to offset.	
	When offset is selected: set offset.	
<i>₩</i> ○	Confirm changes and return to the submenu.	

2-points curve



X1, X2 Outdoor ambient temperature **Y1, Y2** Desired tank temperature

Possible actions on this screen		
t 00	Go through the temperatures.	
○…◎3	Change the temperature.	
OQm	Go to the next temperature.	
<i>&</i> *○	Confirm changes and proceed.	

More information

For more information, see also:

- "4.4 Turning operation ON or OFF" [▶ 29]
- "4.7 Domestic hot water control" [▶ 37]
- "4.8 Preset values and schedules" [▶ 41]
- "4.9 Weather-dependent curve" [▶ 50]

3 General information

3.1 General safety precautions

3.1.1 For the user



WARNING

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



WARNING

This appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Cleaning and user maintenance must not be carried out 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
- 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 authorized installer and must comply with applicable legislation.

Units must be treated at a specialized 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 specialized 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.

3.2 About the documentation

- The original documentation is written in English. All other languages are translations.
- The precautions described in this document cover very important topics, follow them carefully.
- The installation of the system, and all activities described in the installation manual and in the installer reference guide MUST be performed by an authorised installer.

3.2.1 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 Daikin Altherma heat pump 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.

To **enable** 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.

?

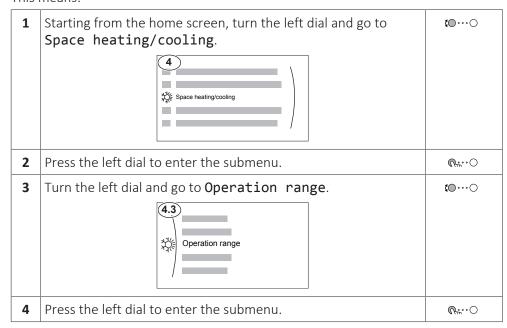


2 To disable the breadcrumbs: Press the help button again. ?

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

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

This means:



3.2.2 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

Indicates a situation that could result in burning 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
[]i	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".
	Indicates a table title or a reference to it.
	Example: "■ 1–3 Table title" means "Table 3 in chapter 1".

3.3 About the system

Depending on the system layout, the system can:

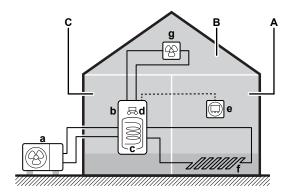
- Heat up a space
- Cool down a space (if a heating/cooling heat pump model is installed)
- Produce domestic hot water



INFORMATION

Cooling is only applicable in case a conversion kit (EKHVCONV2) is installed.

3.3.1 Components in a typical system layout





- A Main zone. Example: Living room.
- Additional zone. **Example:** Bedroom.
- C Technical room. Example: Garage.
- a Outdoor unit heat pump
- **b** Indoor unit heat pump
- c Domestic hot water (DHW) 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 Operation

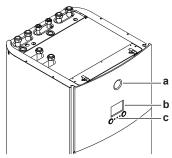


INFORMATION

Cooling is only applicable in case a conversion kit (EKHVCONV2) is installed.

4.1 User interface: Overview

The user interface has the following components:



- Status indicator
- LCD screen
- 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 "7.1 To display the help text in case of a malfunction" [> 60] for more information.

LCD screen

The LCD screen has a sleeping function. After a certain time of non-interaction with the user interface, the screen darkens. Pressing any button or rotating any dial awakens the display. The time of non-interaction differs depending on the user permission level:

• User or Advanced user: 15 min

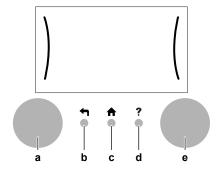
• Installer: 1 h

Dials and buttons

You use the dials and buttons:

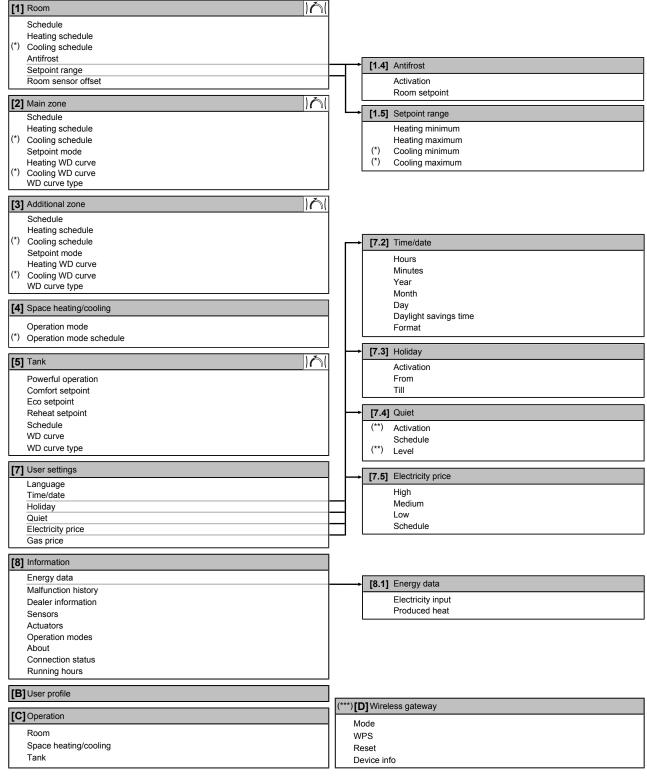
- To navigate through the screens, menus and settings of the LCD screen
- To set values





	Item	Description	
а	Left dial	The LCD shows an arc on the left side of the display when you can use the left dial.	
		■ In: O: Turn, then press the left dial. Navigate through the menu structure.	
		■ • • • : Turn the left dial. Choose a menu item.	
		• • • : Press the left dial. Confirm your choice or go to a submenu.	
b	Back button	←: Press to go back 1 step in the menu structure.	
С	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).	
е	Right dial	The LCD shows an arc on the right side of the display when you can use the right dial.	
		• ০…ঝ: Turn, then press the right dial. Change a value or setting, shown at the right side of the screen.	
		• ○···•: Turn the right dial. Navigate through the possible values and settings.	
		• O • Press the right dial. Confirm your choice and go to the next menu item.	

4.2 Menu structure: Overview user settings



 $) \bigcirc ($ Setpoint screen

Only applicable when EKHVCONV2 is installed

Only accessible by installer

Only applicable when WLAN adapter is installed



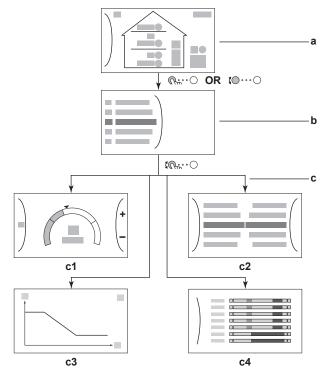
INFORMATION

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



4.3 Possible screens: Overview

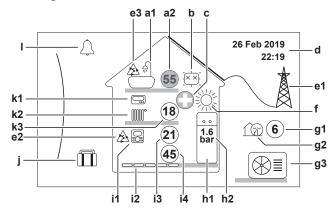
The most common screens are as follows:



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

4.3.1 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.	
<i>©</i> #○	Go to the main menu screen.
?	Enable/disable breadcrumbs.

	Itei	n	Description
а	Domestic hot water		water
	a1 Domestic hot water		Domestic hot water
	a2	55	Measured tank temperature ^(a)
b	Disin	fection /	Powerful
		<u>ix</u> x.	Disinfection mode active
		\\	Powerful operation mode active
С	Eme	rgency	
		0	Heat pump failure and system operates in Emergency mode or heat pump is forced off.
d	Current date and time		
е	Smart energy		
	e1	\	Smart energy is available via solar panels or smart grid.
	e2	A	Smart energy is currently being used for space heating.
	е3	À	Smart energy is currently being used for domestic hot water.
f	Spac	e operat	ion mode
	₩ Cooling		Cooling
	# Heating		Heating
g	Outdoor / quiet mode		
	g1 6 Measured outdoor temperature ^(a)		Measured outdoor temperature ^(a)
	g2 1 Quiet mode active		Quiet mode active
	g3		Outdoor unit



	Item		Description		
h	Indo	or unit /	domestic hot water tank		
	h1	00	Floor-standing indoor unit with integrated tank		
		00	Wall-mounted indoor unit		
			Wall-mounted indoor unit with separated tank		
	h2	1.6 bar	Water pressure		
i	Mair	n zone			
	i1	Installed	room thermostat type:		
			Unit operation is decided based on the ambient temperature of the dedicated Human Comfort Interface (BRC1HHDA used as room thermostat).		
			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.		
	i2	Installed	heat emitter type:		
		00000	Underfloor heating		
			Fancoil unit		
		_0000	Radiator		
	i3	21)	Measured room temperature ^(a)		
	i4	45	Leaving water temperature setpoint ^(a)		
j	Holid	day mode			
			Holiday mode active		
k	Addi	tional zo	ne		
	k1	Installed room thermostat type:			
		000	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.		
	k2	Installed heat emitter type:			
			Underfloor heating		
			Fancoil unit		
		_0000°	Radiator		
	k3	18	Leaving water temperature setpoint ^(a)		

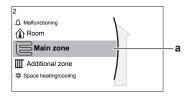
	Item	Description
ı	Malfunction	
	Δ	A malfunction occurred.
See "7.1 To display the help text in case of a malfunction" [> 60] for more information.		i i i i i i i i i i i i i i i i i i i

 $^{^{\}mbox{\scriptsize (a)}}$ If the corresponding operation (for example: space heating) is not active, the circle is greyed out.



4.3.2 Main menu screen

Starting from the home screen, press (\bigcirc) or turn (\bigcirc ··· \bigcirc) 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]	△ or △ Malfunctioning	Restriction: Only displayed if a malfunction occurs.
		See "7.1 To display the help text in case of a malfunction" [> 60] for more information.
[1]	1 Room	Restriction: 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]	Ⅲ Additional zone	Restriction: 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).
[4]	☼ Space heating/	Shows the applicable symbol of your unit.
	cooling	Put the unit in heating mode or cooling mode. You cannot change the mode on heating only models.
[5]	ៅ់ Tank	Set the domestic hot water tank temperature.
[7]	OUser settings	Gives access to user settings such as holiday mode and quiet mode.
[8]	① Information	Displays data and information about the indoor unit.
[9]	X Installer settings	Restriction: Only for the installer.
		Gives access to advanced settings.

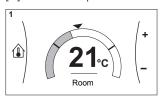
	Submenu	Description
[A]	≜ Commissioning	Restriction: Only for the installer.
		Perform tests and maintenance.
[B]	⊗User profile	Change the active user profile.
[C]	Operation	Turn heating/cooling functionality and domestic hot water preparation on or off.



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

Examples

[1] Room temperature screen



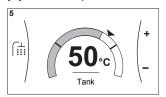
[3] Additional zone screen



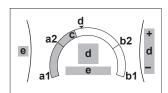
[2] Main zone screen



[5] Tank temperature screen



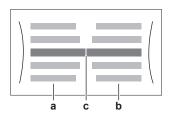
Explanation



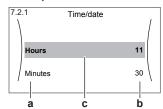
Possible actions on this screen	
© ···○ Go through the list of the submenu.	
©:○ Go to the submenu.	
○…○ℷ	Adjust and automatically apply the desired temperature.

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	С	Measured by the unit
Desired temperature	d	Turn the right dial to increase/decrease.
Submenu	е	Turn or press the left dial to go to the submenu.

4.3.4 Detailed screen with values



Example:



- Settings а
- Values b
- ${f c}$ Selected setting and value

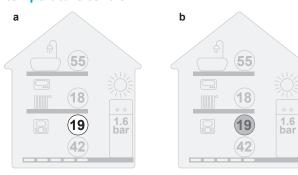
Possible actions on this screen	
€	Go through the list of settings.
○…○1	Change the value.
O@hn	Go to the next setting.
<i>U</i> #○	Confirm changes and proceed.

4.4 Turning operation ON or OFF

4.4.1 Visual indication

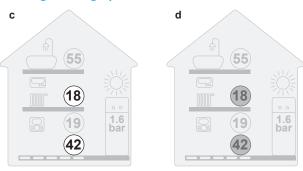
Certain functionalities of the unit can be enabled or disabled separately. If a functionality is disabled, the corresponding temperature icon in the home screen will be greyed out.

Room temperature control



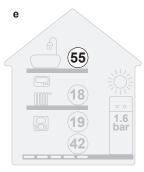
- Room temperature control ON
- Room temperature control OFF

Space heating/cooling operation



- c Space heating/cooling operation ON
- Space heating/cooling operation OFF

Tank heating operation

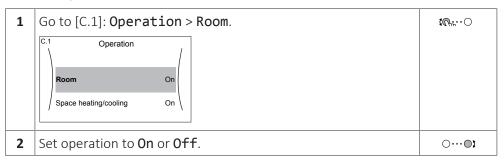




- Tank heating operation ON
- Tank heating operation OFF

4.4.2 To turn ON or OFF

Room temperature control



Space heating/cooling operation



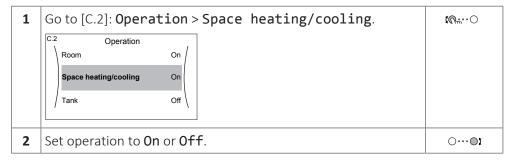
NOTICE

Room frost protection. Even if you turn OFF space heating/cooling operation ([C.2]: Operation > Space heating/cooling), room frost protection —if enabled— will remain active.



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.

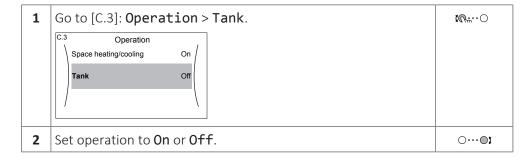


Tank heating operation



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.





4.5 Reading out information

To read out information

Possible read-out information

In menu	You can read out
[8.1] Energy data	Produced energy, consumed electricity, and consumed gas
[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
	Example: Domestic hot water pump ON/OFF
[8.6] Operation modes	Current operation mode
	Example: 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



4.6 Space heating/cooling control

4.6.1 About space heating/cooling control

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

- Setting the space operation mode
- 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

4.6.2 Setting the space operation mode

About space operation modes

This unit is a heating only model. The system can heat up a space, but NOT cool down a space.

However, if the kit EKHVCONV2 is installed, the system can cool down a space, and you have to tell the system which space operation mode to use: heating or cooling.

To determine if a heating/cooling heat pump model is installed

Go to [4]: Space heating/cooling.	
neck if [4.1] Operation mode is listed and editable. If so, a	(04)
1	<u> </u>

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 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



2	Select one of the following options:	: ₩○
	Heating: Only heating mode	
	Cooling: Only cooling mode	
	• Automatic: The operation mode changes automatically based on the outdoor temperature. Restricted according to the operation mode schedule.	

Automatic heating/cooling changeover is NOT applicable for heating only models. When **Automatic** is selected, the changing of the operation mode is based on the **Operation mode schedule** [4.2].

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.	₹ 0%○
2	Select a month.	€○
3	For each month, select an option:	O@#
	• Reversible: Not restricted	
	• Heating only: Restricted	
	Cooling only: Restricted	
4	Confirm the changes.	<i>©</i> #○

Example: Changeover restrictions

When	Restriction
During cold season.	Heating only
Example: October, November, December, January, February and March.	
During warm season.	Cooling only
Example: June, July and August.	
In-between.	Heating/Cooling
Example: April, May and September.	

If both the **Operation mode** and the **Operation mode schedule** are set to **Automatic**, the operation mode will be determined by the outdoor temperature.

4.6.3 Determining which temperature control you are using

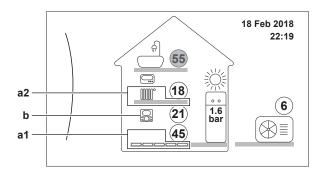
To determine which temperature control you are using (method 1)

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.



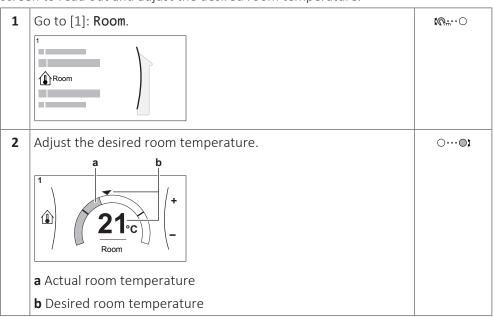


- Heat emitter of the main zone (in this example Underfloor heating)
- Heat emitter of the additional zone (in this example Radiator). If no icon is displayed, there is no a2 additional zone.
- Room thermostat type of the main zone:

If b=	Then the temperature control is		
	Main zone	Additional zone (if any)	
	Room thermostat control	External room thermostat	
	External room thermostat control	control	
No icon	Leaving water temperature control	Leaving water temperature control	

4.6.4 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.



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.	: ₩○	
---	-------------------------------	-------------	--



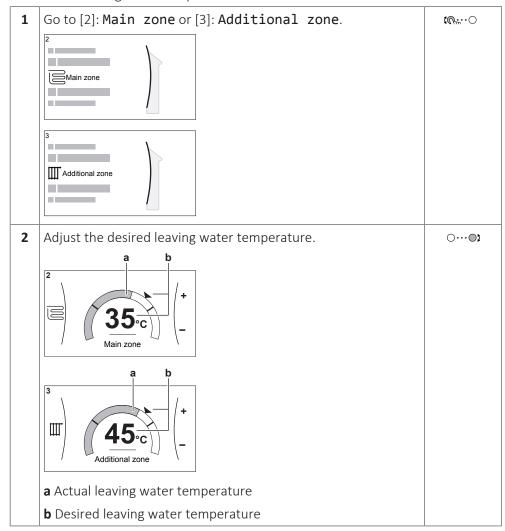
4.6.5 To change the desired leaving water temperature



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.



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.

To turn off leaving water temperature scheduling

1	Go to one of the following:	1 04○
	• [2.1]: Main zone > Schedule	
	• [3.1]: Additional zone > Schedule	

2 Select No. $\text{res} \circ \circ$

To enable weather-dependent operation for the leaving water temperature See "4.9.4 Using weather-dependent curves" [▶ 53].



4.7 Domestic hot water control

4.7.1 About domestic hot water control

Depending on the DHW tank mode (installer setting), you use a different domestic hot water control:

- Reheat only
- Schedule + reheat
- Schedule only



INFORMATION

In case of error code AH and no interruption of the disinfection function occurred due to domestic hot water tapping, following actions are recommended:

- When the Reheat only or Schedule + reheat mode is selected, it is recommended to program the start-up of the disinfection function at least 4 hours later than the last expected large hot water tapping. This start-up can be set by installer settings (disinfection function).
- When the **Schedule only** mode is selected, it is recommended to program an **Eco** action 3 hours before the scheduled start-up of the disinfection function to preheat the tank.

When weather-dependent operation is used for the tank, the tank temperature is determined automatically by the outdoor temperature. For more information, see "4.9 Weather-dependent curve" [> 50].

To determine which domestic hot water mode you are using (method 1)

Check the installer settings table filled in by the installer.

To determine which domestic hot water mode you are using (method 2)

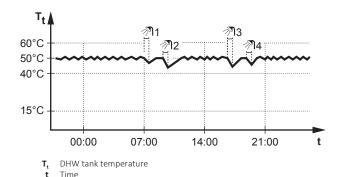
1	Go to [5]: Tank .	t ₩○
2	Check which items are displayed:	10 0
	[5.1] Powerful operation [5.2] Comfort setpoint [5.3] February Eco setpoint [5.4] Reheat setpoint [5.5] Schedule	

If is displayed	Then the DHW tank mode =
Only [5.1] Powerful operation	Reheat only
All items except [5.4] Reheat setpoint are displayed	Schedule only
All items including [5.4] Reheat setpoint are displayed	Schedule + reheat

4.7.2 Reheat mode

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





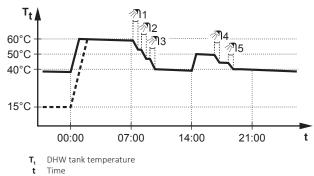
INFORMATION

When the DHW tank mode is reheat, the risk for capacity shortage and comfort problem is significant. In case of frequent reheat operation, space heating/cooling function is regularly interrupted.

4.7.3 Scheduled mode

In scheduled mode the DHW tank produces hot water corresponding to a schedule. The best time to allow the tank to produce hot water is at night, because the space heating demand is lower.

Example:



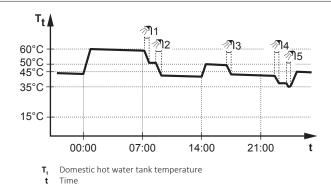
- Initially, the DHW tank temperature is the same as the temperature of the domestic water entering the DHW tank (example: 15°C).
- At 00:00 the DHW tank is programmed to heat up the water to a preset value (example: Comfort = 60°C).
- During the morning, you consume hot water and the DHW tank temperature decreases.
- At 14:00 the DHW tank is programmed to heat up the water to a preset value (example: Eco = 50°C). Hot water is available again.
- During the afternoon and evening, you consume hot water again and the DHW tank temperature decreases again.
- At 00:00 the next day, the cycle repeats.

4.7.4 Scheduled + reheat mode

In scheduled + reheat mode, the domestic hot water control is the same as in scheduled mode. However, when the DHW tank temperature drops below a preset value (=reheat tank temperature - hysteresis value; example: 35°C), the DHW tank heats up until it reaches the reheat set point (example: 45°C). This ensures that a minimum amount of hot water is available at all times.

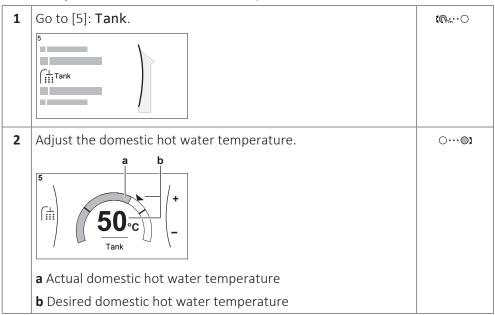
Example:





4.7.5 To change the domestic hot water temperature

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



In other modes, you can only view the setpoint screen but not modify it. Instead, you can modify the settings for the **Comfort setpoint** [5.2], **Eco setpoint** [5.3] and **Reheat setpoint** [5.4].

When weather-dependent operation is used for the tank, the tank temperature is determined automatically by the outdoor temperature. For more information, see "4.9 Weather-dependent curve" [> 50].

4.7.6 Using DHW powerful operation

About powerful operation

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

To check if powerful operation is active

If $\stackrel{\boldsymbol{\longleftarrow}}{\bullet}$ 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	t ₩○
2	Turn powerful operation Off or On .	t ₩○

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.



4.8.1 Using preset values

About preset values

For some settings in the system, you can define preset values. You only need to set these values one time, then reuse the values in other screens such as the scheduling screen. If you later want to change the value, you only have to do it in one place.

To define tank temperature preset values

The domestic hot water schedule makes use of different preset values:

Preset value	Where used
Comfort setpoint	In schedule if domestic hot water tank mode is
Eco setpoint	• Schedule only
	• Schedule + reheat
Reheat setpoint	If domestic hot water tank mode is
	• Schedule + reheat

To define energy prices

Only possible if **Bivalent** is enabled by the installer.

Preset value	Where used
Electricity price>	Used in the weekly schedule screen when setting
- High	the energy prices.
- Medium	
- Low	

4.8.2 Setting the energy prices

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

- a fixed gas price
- 3 electricity price levels
- a weekly schedule timer for electricity prices.

Refer to the installation manual for more information.

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

Price	Value in breadcrumb
Fuel: 5.3 euro cents/kWh	[7.6]=5.3
Electricity: 12 euro cents/kWh	[7.5.1]=12

To set the gas price

1	Go to [7.6]: User settings > Gas price.	(R _{th})
2	Select the correct gas price.	t 00
3	Confirm the changes.	<i>©</i> #○





INFORMATION

Price value ranging from 0.00~990 valuta/kWh (with 2 significant values).

To set the electricity price

1	Go to [7.5.1]/[7.5.2]/[7.5.3]: User settings > Electricity price > High/Medium/Low.	(U*○
2	Select the correct electricity price.	1 0····
3	Confirm the changes.	<i>©</i> ;○
4	Repeat this for all three electricity prices.	_



INFORMATION

Price value ranging from 0.00~990 valuta/kWh (with 2 significant values).



INFORMATION

If no schedule is set, the **Electricity price** for **High** is taken into account.

To set the electricity price schedule timer

1	Go to [7.5.4]: User settings > Electricity price > Schedule.	(0;;··○
2	Program the selection using the scheduling screen. You can set the High , Medium and Low electricity prices according to your electricity supplier.	_
3	Confirm the changes.	© #○



INFORMATION

The values correspond with the electricity price values for High, Medium and Low previously set. If no schedule is set, the electricity price for <code>High</code> is taken into account.

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 "To set the gas price" [> 41].

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 "To set the electricity price" [> 42].

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= $4.08+(5\times0.9)$

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	[7.6]=8.6
Electricity: 12.49 /kWh	[7.5.1]=17



4.8.3 Using and programming schedules

About schedules

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

You can:

- Select which schedules you currently want to use.
- Program your own schedules if the predefined schedules are not satisfactory. The actions you can program are control specific.

Possible scheduling screens

Name and location	Usage
[1.2] Room > Heating schedule	Program the desired room temperature in heating mode.
[1.3] Room > Cooling schedule	Program the desired room temperature in cooling mode.
[2.2] Main zone > Heating schedule	Program the desired leaving water temperature for the main zone in heating mode.
[2.3] Main zone > Cooling schedule	Program the desired leaving water temperature for the main zone in cooling mode.
[3.2] Additional zone > Heating schedule	Program the desired leaving water temperature for the additional zone in heating mode.
[3.3] Additional zone > Cooling schedule	Program the desired leaving water temperature for the additional zone in cooling mode.
[4.2] Space heating/ cooling > Operation mode schedule	See "4.6.2 Setting the space operation mode" [▶ 32].
[5.5] Tank > Schedule	Program the domestic hot water tank temperature for your normal domestic hot water needs:
	- Comfort
	• Eco
	• Stop
[7.4.2] User settings > Quiet > Schedule	Program when the unit has to use which quiet mode level:
	• Off
	• Quiet
	• More quiet
	• Most quiet
[7.5.4] User settings > Electricity price > Schedule	Program when a certain electricity tariff is valid.

Example of programming a schedule

See "4.8.4 Schedule screen: Example" [▶ 45].



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

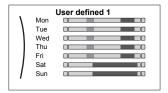


INFORMATION

The procedures to program other schedules are similar.

To program the schedule: overview

Example: You want to program the following schedule:



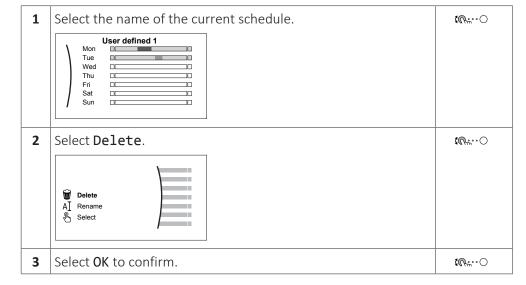
Prerequisite: The room temperature schedule is only available if room thermostat control is active. If leaving water temperature control is active, you can program the main zone schedule instead.

- **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

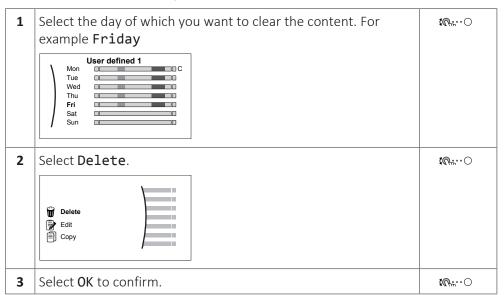
1	Go to [1.1]: Room > Schedule.	: ₩○
2	Set scheduling to Yes .	: ₩○
3	Go to [1.2]: Room > Heating schedule.	: ₩○

To clear the content of the week schedule

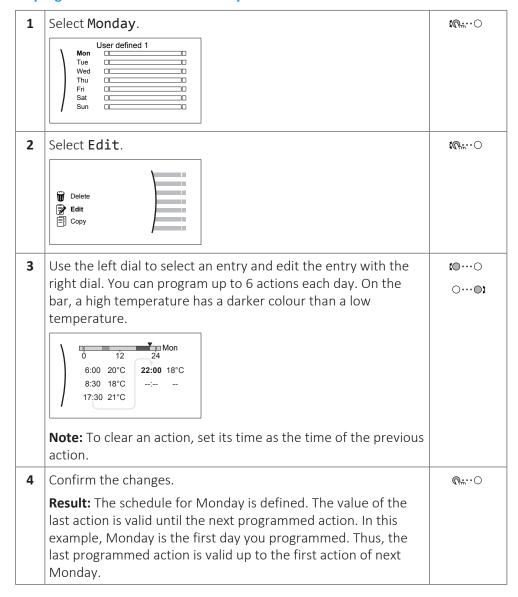




To clear the content of a day schedule

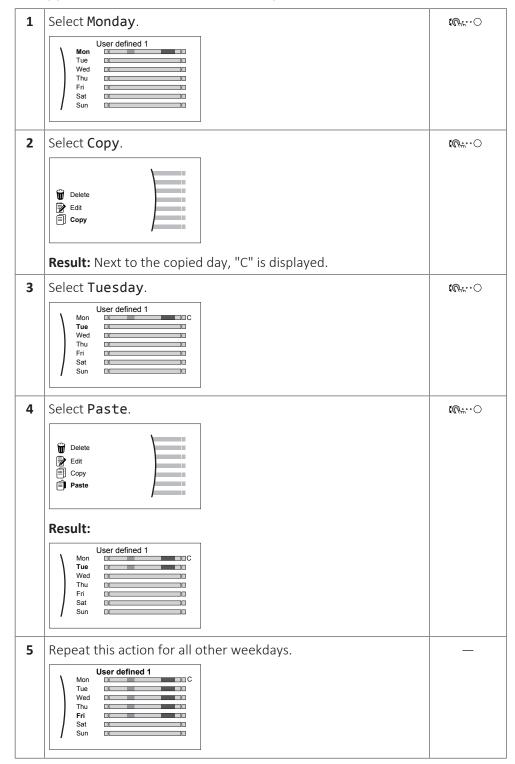


To program the schedule for Monday





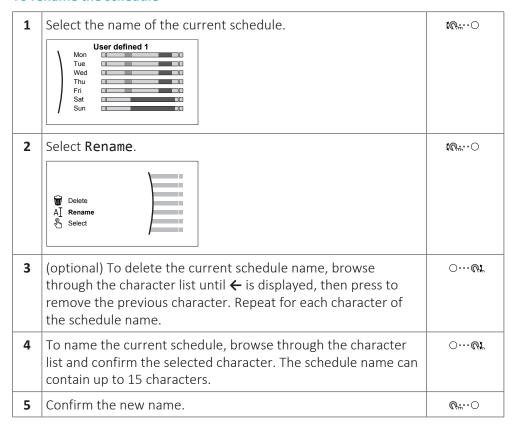
To copy the schedule to the other weekdays



To program the schedule for Saturday and copy it to Sunday

1	Select Saturday .	€ Chin ○
2	Select Edit.	€ @**••○

To rename the schedule





INFORMATION

Not all schedules can be renamed.

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 in heating mode and give them appropriate names. **Example:** EarlyShift, DayShift and LateShift
- 2 Select the schedule that you currently want to use.



4.9 Weather-dependent curve

4.9.1 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 "4.9.4 Using weather-dependent curves" [> 53].

Availability

The weather-dependent curve is available for:

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



INFORMATION

To operate weather dependent, correctly configure the setpoint of the main zone, additional zone or tank. See "4.9.4 Using weather-dependent curves" [> 53].

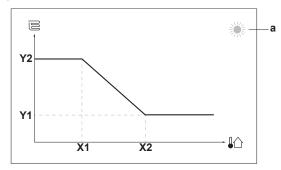
4.9.2 2-points curve

Define the weather-dependent curve with these two setpoints:

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



Example



Item	Description
а	Selected weather dependent zone:
	- ※: Main zone or additional zone heating
	■ 🔆: Main zone or additional zone cooling
	- ៅ្រ: Domestic hot water
X1, X2	Examples of outdoor ambient temperature
Y1, Y2	Examples of desired tank temperature or leaving water temperature. The icon corresponds to the heat emitter for that zone:
	■ 🖫: Underfloor heating
	■ 🖃: Fan coil unit
	■ III: Radiator
	Domestic hot water tank

Possible actions on this screen			
••••	Go through the temperatures.		
○···○\$	Change the temperature.		
OQm	Go to the next temperature.		
<i>©</i> *○	Confirm changes and proceed.		

4.9.3 Slope-offset curve

Slope and offset

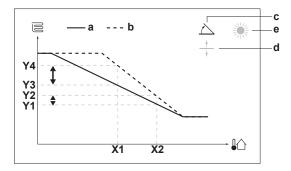
Define the weather-dependent curve by its slope and offset:

- 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.

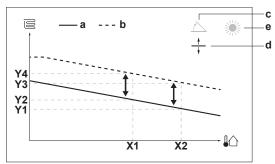
Examples

Weather-dependent curve when slope is selected:





Weather-dependent curve when offset is selected:



Item	Description					
а	WD curve before changes.					
b	WD curve after changes (as example):					
	• When slope is changed, the new preferred temperature at X1 is unequally higher than the preferred temperature at X2.					
	• When offset is changed, the new preferred temperature at X1 is equally higher as the preferred temperature at X2.					
С	Slope					
d	Offset					
е	Selected weather dependent zone:					
	- ※: Main zone or additional zone heating					
	■ ‡: Main zone or additional zone cooling					
	• ि:::: Domestic hot water					
X1, X2	Examples of outdoor ambient temperature					
Y1, Y2, Y3, Y4	Examples of desired tank temperature or leaving water temperature. The icon corresponds to the heat emitter for that zone: Underfloor heating Fan coil unit Radiator Domestic hot water tank					

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

4.9.4 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			
Main zone – Heating				
[2.4] Main zone > Setpoint mode	WD heating, fixed cooling OR Weather dependent			
Main zone – Cooling				
[2.4] Main zone > Setpoint mode	Weather dependent			
Additional zone – Heating				
[3.4] Additional zone > Setpoint mode	WD heating, fixed cooling OR Weather dependent			
Additional zone – Cooling				
[3.4] Additional zone > Setpoint mode	Weather dependent			
Tank				
[5.B] Tank > Setpoint mode	Weather dependent			

To change the type of weather-dependent curve

To change the type for all zones 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

To change the weather-dependent curve

Zone	Go to
Main zone – Heating	[2.5] Main zone > Heating WD curve
Main zone – Cooling	[2.6] Main zone > Cooling WD curve
Additional zone – Heating	[3.5] Additional zone > Heating WD curve



Zone	Go to
Additional zone – Cooling	[3.6] Additional zone > Cooling WD curve
Tank	[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	<u> </u>	_	
Cold	OK	<u> </u>	↑	
Cold	Cold	_	↑	
Cold	Hot	<u> </u>	1	
Hot	OK	↑	<u> </u>	
Hot	Cold	↑	<u> </u>	
Hot	Hot	_	<u> </u>	

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 f	eel	Fine	-tune wi	th setpo	ints:
At regular outdoor temperatures	At cold outdoor temperatures	Y2 ^(a)	Y1 ^(a)	X1 ^(a)	X2 ^(a)
OK	Cold	\uparrow	_	\uparrow	_
OK	Hot	\	_	\	_
Cold	OK	-	\uparrow	_	\uparrow
Cold	Cold	1	\uparrow	\uparrow	\uparrow
Cold	Hot	\ \	\uparrow	\	\uparrow
Hot	OK	_	↓	_	\downarrow
Hot	Cold	1	\downarrow	\uparrow	\downarrow
Hot	Hot	\downarrow	\downarrow	\downarrow	\downarrow

⁽a) See "4.9.2 2-points curve" [▶ 50].



4.10 Other functionalities

4.10.1 To configure time and date

1 Go to [7.2] User settings > Time/date.	0	
---	---	--

4.10.2 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 installer can:

- Completely deactivate quiet mode
- Manually activate a quiet mode level
- Enable the user to program a quiet mode schedule

If enabled by the installer, the user can program a quiet mode schedule.



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 $\widehat{\square}$ is displayed on the home screen, quiet mode is active.

To program a quiet mode schedule

Restriction: Only possible if enabled by the installer.

1	Go to [7.4.2]: User settings > Quiet > Schedule.	t U*○
	Program the schedule. For more information about scheduling, see "4.8.4 Schedule screen: Example" [▶ 45].	_

4.10.3 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 and anti-legionella operation will remain active.

Typical workflow

Using holiday mode typically consists of the following stages:

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

To check if holiday mode is activated and/or running

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



To configure the holiday

1	Activate the holiday mode.	_
	Go to [7.3.1]: User settings > Holiday > Activation. Activation From Till	: ∩ _{+;} ○
	• Select On .	€ @**••○
2	Set the first day of your holiday.	_
	• Go to [7.3.2]: From .	1 0₩○
	Select a date.	
		○…◎ℷ
	Confirm the changes.	<i>©</i> #○
3	Set the last day of your holiday.	_
	• Go to [7.3.3]: Till .	
	Select a date.	
		OO
	Confirm the changes.	<i>©</i> ;○

4.10.4 WLAN adapter



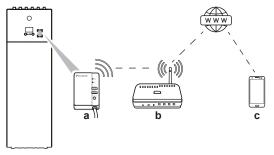
INFORMATION

Restriction: WLAN adapter settings are only visible when a WLAN adapter is installed.

About the WLAN adapter

The wireless LAN adapter connects the heat pump system to the internet. As user you can then control the heat pump system via the Daikin Residential Controller арр.

This needs the following components:



а	·	The WLAN adapter needs to be installed by the installer on the indoor unit (on the inside of the front panel).
b	Router	Field supply.



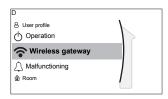
The Daikin Residential Controller app needs to be installed on the user's smartphone. See:

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



Configuration

To configure the Daikin Residential Controller app, follow the in-app instructions. While doing this, the following actions and information are needed on the user interface of the indoor unit:



[D] Wireless gateway

[D.1] Mode

[D.2] WPS

[D.3] Reset

[D.4] Device info

[D.1] Mode: Turn AP mode ON (= WLAN adapter active as access point):

1	Go to [D.1]: Wireless gateway > Mode.	t U+○	ı
2	In the Enable AP mode screen, select Yes .	1 €○	

[D.2] WPS: Connect the WLAN adapter to the router:

:	1	Go to [D.2]: Wireless gateway > WPS.	t U+○
2	2	In the Connect to home network screen, select OK.	1 €○

[D.3] **Reset**: Reset the WLAN adapter:

1	Go to [D.3]: Wireless gateway > Reset.	! @*○
2	In the Reset the gateway screen, select OK.	: ₩…○

[D.4] **Device info**: Consult information about the WLAN adapter:

1	Go to [D.4]: Wireless gateway > Device info.	! @*○
2	Read out SSID, MAC address, and Serial number.	: ₩…○



5 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 the desired room temperature to speed up space heating. The space will NOT heat up faster.
- When your system layout contains slow heat emitters (example: under floor heating), avoid large fluctuation of the desired room temperature and do NOT let the room temperature drop too low. It will take more time and energy to heat up the room again.

Tips about leaving water temperature

- In heating mode, a lower desired leaving water temperature results in lower energy consumption and better performance. In cooling, the opposite is valid.
- Set the desired leaving water temperature in accordance with the heat emitter type. Example: Underfloor heating is designed for lower leaving water temperature than radiators and heat pump convectors.

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 preset value (Comfort = higher DHW tank temperature) 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 preset value (Eco = lower DHW tank temperature) during the day.
- Make sure the desired DHW tank temperature is NOT too high. Example: After installation, lower the DHW 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.



6 Maintenance and service

6.1 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.

(P:...)

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.

Refrigerant

This product contains fluorinated greenhouse gases. Do NOT vent gases into the atmosphere.

Refrigerant type: R32

Global warming potential (GWP) value: 675



NOTICE

Applicable legislation on **fluorinated greenhouse gases** requires that the refrigerant charge of the unit is indicated both in weight and CO_2 equivalent.

Formula to calculate the quantity in CO_2 equivalent tonnes: GWP value of the refrigerant × total refrigerant charge [in kg] / 1000

Please contact your installer for more information.



WARNING: FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



WARNING

The appliance shall be stored in a 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.



7 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.	1 04○	
---	--	--------------	--

7.1 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
- <u> </u> 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.	
	Result: A short description of the error and the error code is displayed on the screen.	
2	2 Press ? in the error screen.	
	Result: A long description of the error is displayed on the	
	screen.	

7.2 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.



7.3 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 "4.6.4 To change the desired room temperature" [> 34].
	If the problem recurs daily, do one of the following:
	Increase (decrease) the room temperature preset value. See "4.8.1 Using preset values" [▶ 41].
	■ Adjust the room temperature schedule. See "4.8.3 Using and programming schedules" [▶ 44] and "4.8.4 Schedule screen: Example" [▶ 45].
The desired room temperature cannot be reached.	Increase the desired leaving water temperature in accordance with the heat emitter type. See "4.6.5 To change the desired leaving water temperature" [> 35].
The weather-dependent curve is set incorrectly.	Adjust the weather-dependent curve. See "4.9 Weather-dependent curve" [> 50].

7.4 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 DHW tank	
too low. consumes extra consumes extra consumes extra	Powerful operation. However, this consumes extra energy. See "4.7.6 Using DHW powerful operation" [▶ 39].	
	If the problems recurs daily, do one of the following:	
	 Increase the DHW tank temperature preset value. See "4.8.1 Using preset values" [▶ 41]. 	
	■ Adjust the DHW tank temperature schedule. Example: Program to additionally heat up the DHW tank to a preset value (Eco setpoint = lower tank temperature) during the day. See "4.8.3 Using and programming schedules" [▶ 44] and "4.8.4 Schedule screen: Example" [▶ 45].	

7.5 Symptom: Heat pump failure

When the heat pump fails to operate, the backup heater 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 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 if the user activates this via the Malfunctioning main menu screen.

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

Possible cause	Corrective action
, ,	See "7.1 To display the help text in case of a malfunction" [> 60].



INFORMATION

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

7.6 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)
Various malfunctions.	Check if △ or △ is displayed on the home screen of the user interface. See "7.1 To display the help text in case of a malfunction" [▶ 60] 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 \bigcirc or \bigcirc 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.



8 Relocation

8.1 Overview: Relocation

If you want to relocate parts of your system (user interface, indoor unit, outdoor unit, DHW tank...), contact your installer. You can find the contact/helpdesk number via the user interface.



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 heat pump.

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.





