

User reference guide

ROTEX HPU ground

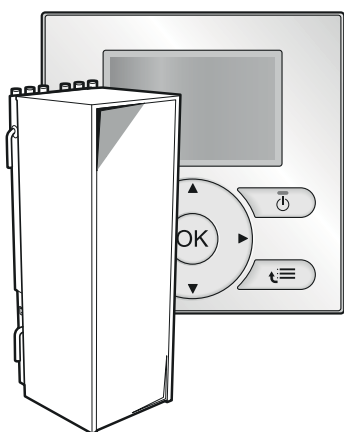


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1 General safety precautions


1.1 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.
- All activities described in the installation manual must be performed by an authorized installer.


1.1.1 Meaning of warnings and symbols


 **DANGER**
Indicates a situation that results in death or serious injury.


 **DANGER: RISK OF ELECTROCUTION**
Indicates a situation that could result in electrocution.

 **DANGER: RISK OF BURNING**
Indicates a situation that could result in burning because of extreme hot or cold temperatures.

 **WARNING**
Indicates a situation that could result in death or serious injury.


 **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.

1.2 For the user

- If you are not sure how to operate the unit, contact your installer.
- The 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 must be supervised to ensure that they do not play with the product.

 **WARNING**
To prevent electric 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.



NOTICE

- 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 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.

2 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:

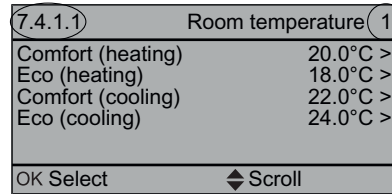
Document	Contains...	Format
General safety precautions	Safety instructions that you must read before operating your system	Paper (in the box of the indoor unit)
Operation manual	Quick guide for basic usage	
User reference guide	Detailed step-by-step instructions and background information for basic and advanced usage	Digital files on the ROTEX website.

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

Available screens

Depending on your system layout and installer configuration, not all screens in this document may be available on your user interface.

Breadcrumbs



Breadcrumbs help you to locate where you are in the menu structure of the user interface. This document also mentions these breadcrumbs.

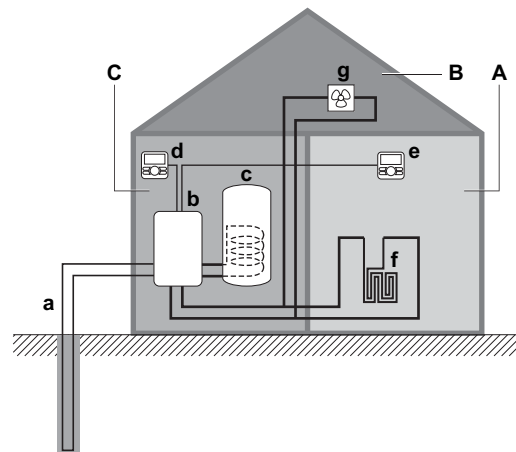
Example: Go to [7.4.1.1]: > User settings > Preset values > Room temperature > Comfort (heating)

3 About the system

Depending on the system layout, the system can:

- Heat up a space
- Produce domestic hot water (if a DHW tank is installed)

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** Brine loop
- b** Indoor unit heat pump
- c** Domestic hot water (DHW) tank
- d** User interface at the indoor unit
- e** User interface in the living room, used as room thermostat
- f** Underfloor heating
- g** Heat pump convectors or fan coil units



INFORMATION

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

4 Operation

4 Operation

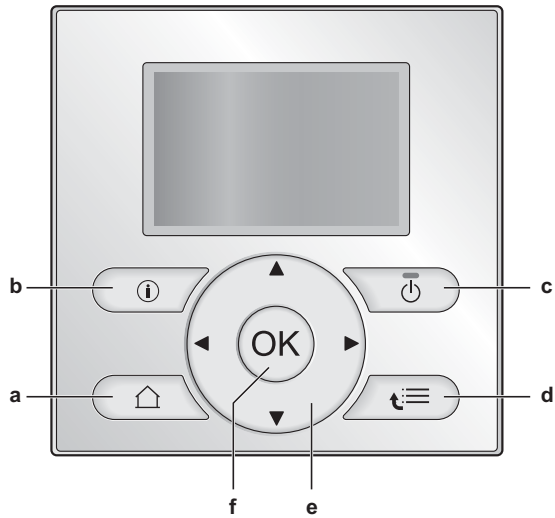
4.1 Overview: Operation

You can operate the system via the user interface. This part describes how to use the user interface:

Part	Description
At a glance	<ul style="list-style-type: none"> Buttons Status icons
Basic usage	<p>Information about:</p> <ul style="list-style-type: none"> Home pages, where you can read out and change settings that are meant for daily usage Menu structure, where you can read out and configure settings that are NOT meant for daily usage ON/OFF controls
Space heating control	<p>How to control space heating:</p> <ul style="list-style-type: none"> Setting the space operation mode Controlling the temperature
Domestic hot water control	<p>How to control domestic hot water:</p> <ul style="list-style-type: none"> Reheat mode Scheduled mode Scheduled + reheat mode
Advanced usage	<p>Information about:</p> <ul style="list-style-type: none"> Quiet mode Holiday mode Reading out information Date, time, units of measurement, contrast and backlight User profile and home pages Locking and unlocking buttons and functions
Preset values and schedules	<ul style="list-style-type: none"> How to use preset values How to select and program schedules. Overview of predefined schedules
Menu structure	Overview of menu structure
Installer settings table	Overview of installer settings

4.2 The user interface at a glance

4.2.1 Buttons



- a** HOME PAGES
- Switches between home pages (when you are on a home page).
 - Goes to the default home page (when you are in the menu structure).
- b** MALFUNCTION INFORMATION
- If a malfunction occurs, is displayed on the home pages. Press to display more information about the malfunction.
- c** ON/OFF
- Turns ON or OFF one of the controls (room temperature, leaving water temperature, DHW tank temperature).
- d** MENU STRUCTURE/BACK
- Opens the menu structure (when you are on a home page).
 - Goes up a level (when you are navigating through the menu structure).
 - Goes back 1 step (example: when you are programming a schedule in the menu structure).
- e** NAVIGATING/CHANGING SETTINGS
- Navigates the cursor on the display.
 - Navigates through the menu structure.
 - Changes settings.
 - Selects a mode.
- f** OK
- Confirms a selection.
 - Enters a submenu in the menu structure.
 - Switches between displaying actual and desired values, or between displaying actual and offset values (if applicable) on the home pages.
 - Goes to the next step (when you are programming a schedule in the menu structure).
 - Enables you to activate or deactivate child lock if pressed for more than 5 seconds on a home page.
 - Enables you to activate or deactivate a function lock if pressed for more than 5 seconds in the main menu of the menu structure.



INFORMATION

If you press or while changing settings, the changes will NOT be applied.

4.2.2 Status icons

Icon	Description
	Space operation mode = Heating.
	Not available.
	Unit is operating.
	Desired room temperature = preset value (Comfort; daytime).
	Desired room temperature = preset value (Eco; nighttime).
	<ul style="list-style-type: none"> On the room temperature home page: Desired room temperature = according to the selected schedule. On the DHW tank temperature home page: DHW tank mode = Scheduled mode.
	DHW tank mode = Reheat mode.
	DHW tank mode = Scheduled + reheat mode.
	At the next scheduled action, the desired temperature will increase.
	At the next scheduled action, the desired temperature will NOT change.
	At the next scheduled action, the desired temperature will decrease.
	The preset value (Comfort or Eco) or scheduled value is temporarily overruled.
	The system will produce domestic hot water for the indicated number of persons.
	The DHW tank booster mode is active or ready to be activated.
	Quiet mode is active.
	Holiday mode is active or ready to be activated.
	Child lock mode and/or function lock mode is active.
	An external heat source is active. Example: Gas burner.
	The disinfection mode is active.
	A malfunction occurred. Press to display more information about the malfunction.
	Weather-dependent mode is active.
	User permission level = Installer.
	Defrost/oil return mode is active.
	Hot start mode is active.
	Emergency operation is active.



INFORMATION

Quiet mode is NOT applicable for this unit.

4.3 Basic usage

4.3.1 Using home pages

About home pages

You can use the home pages to read out and change settings that are meant for daily usage. What you can see and do on the home pages is described where applicable. Depending on your system layout, the following home pages may be possible:

- Room temperature (Room)
- Main leaving water temperature (LWT main)
- Additional leaving water temperature (LWT add)
- DHW tank temperature (Tank)

To go to a home page

- 1 Press .

Result: One of the home pages is displayed.

- 2 Press again to display the next home page (if any).

4.3.2 Using the menu structure

About the menu structure

You can use the menu structure to read out and configure settings that are NOT meant for daily usage. What you can see and do in the menu structure is described where applicable. For an overview of the menu structure, see "4.8 Menu structure: Overview" on page 17.

To go to the menu structure

- 1 From a home page, press .

Result: The menu structure is displayed.

	1
Set time/date	>
Holiday	>
Quiet mode	Auto >
Operation mode	Heating >
Select schedules	
Information	
OK Select	◆ Scroll

To navigate in the menu structure

Use , , , , and .

4.3.3 Turning ON/OFF controls

About turning ON/OFF controls


Before you can control...	You have to turn ON...
Room temperature	Room temperature control (Room)
Main (+ additional) leaving water temperature	Main (+ additional) leaving water temperature control (LWT main and LWT add) Main and additional leaving water temperature control are always turned ON or OFF together.
DHW tank temperature	Domestic hot water control (Tank)

If you turn ON...	Then...
Room temperature control	Main (+ additional) leaving water temperature control is automatically turned ON.
Main (+ additional) leaving water temperature control	Room temperature control is NOT automatically turned ON.


4 Operation

If you turn OFF...	Then...
Room temperature control	Main (+ additional) leaving water temperature control is NOT automatically turned OFF.
Main (+ additional) leaving water temperature control	Room temperature control is automatically turned OFF.


To check if a control is turned ON or OFF

- 1 Go to the home page of the control. **Example:** Room temperature home page (Room).
- 2 Check if the LED is ON or OFF. **Note:** If the control is turned OFF, OFF is also displayed on the screen. 


To turn ON or OFF the room temperature control

- 1 Go to the room temperature home page (Room).
- 2 Press .

To turn ON or OFF the leaving water temperature (main + additional) control

- 1 Go to one of the following the home pages:
 - Main leaving water temperature home page (LWT main)
 - Additional leaving water temperature home page (LWT add)
- 2 Press .

To turn ON or OFF the domestic hot water control

- 1 Go to the DHW tank temperature home page (Tank).
- 2 Press .

4.4 Space heating control

4.4.1 About space heating control

Controlling space heating typically consists of the following stages:

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

4.4.2 Setting the space operation mode

About space operation modes

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

4.4.3 Controlling the temperature

About controlling the temperature

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


- Room thermostat control (linked or NOT linked to leaving water temperature)
- Leaving water temperature control
- External room thermostat control

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

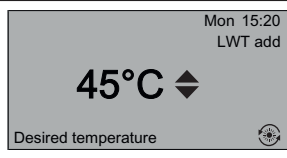
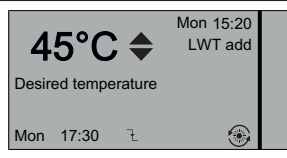
Check the installer settings table filled in by the installer.

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

If you have 2 user interfaces, perform the following procedure on the user interface at the indoor unit.

- 1 Press  multiple times to switch between home pages, and check if the additional leaving water temperature home page (LWT add) is available:

If ...	Then you have...
Available	A main zone and an additional zone
NOT available	Only a main zone



Typical additional leaving water temperature home page:	
User profile = Basic	User profile = Detailed
	

- 2 Go to [6]:  > Information.


- 3 Press  for more than 5 seconds.

Result: The user permission level switches to Adv. end user. Additional information is displayed and "+" is added to the menu title.

- 4 Check the following:

If...	Then the temperature control is...	
	Main zone	Additional zone (if any)
Room temperature is listed under: [6.1]:  > Information > Sensor information	Room thermostat control. Go to next step to check if leaving water set point and room temperature set point are linked.	External room thermostat control.
Thermostat main A is listed under: [6.5]:  > Information > Actuators	External room thermostat control.	
Else	Leaving water temperature control.	

- 5 Only for room thermostat control: Go to the main leaving water temperature home page (LWT main) and check the following:

Is  displayed next to the set point?	Then leaving water set point and room temperature set point are...
Yes	NOT linked. You can set the leaving water set point on the home page.
No	Linked by their preset values. You can set the preset values in the menu structure.

Room thermostat control

Room thermostat control means that you control the following:

- Room temperature of the main zone
- Leaving water temperature of the main zone

Room temperature of the main zone

To control the room temperature of the main zone, you can do the following:

You can...	Location
Read out the actual and desired room temperature.	Room temperature home page
Temporarily overrule the room temperature schedule.	
Change the mode from scheduled to preset value. If you do this, you also have to define (in the menu structure): <ul style="list-style-type: none"> ▪ Preset values ▪ Overrule period (Temperature lock) 	Room temperature home page if user profile = Detailed
Select which room temperature schedule you want to use.	Menu structure
Program schedules.	
Define preset values that are used by the room temperature schedule, and when you change the mode from scheduled to preset value.	

See also:

- ["Using the room temperature home page" on page 7](#)
- ["To set the overrule period" on page 8](#)
- ["4.7 Preset values and schedules" on page 14](#)

Leaving water temperature of the main zone

To control the leaving water temperature of the main zone, you can do the following:

You can...	Location
Read out the desired leaving water temperature.	Leaving water temperature home page
Adjust the leaving water temperature. Condition: Leaving water set point is NOT linked with the room temperature set point. Only change this if the desired room temperature cannot be reached.	Leaving water temperature home page (main)
Define preset values. Condition: Leaving water set point is linked with the room temperature set point. Only change this if the desired room temperature cannot be reached.	Menu structure

See also:

- ["Using the leaving water temperature home pages \(main + additional\)" on page 9](#)
- ["4.7 Preset values and schedules" on page 14](#)

Leaving water temperature control

Leaving water temperature control means that you only control the leaving water temperature. To control the leaving water temperature, you can do the following:

You can...	Location
Read out the desired leaving water temperature (main + additional).	Leaving water temperature home pages (main + additional)
<ul style="list-style-type: none"> ▪ Adjust/overrule the leaving water temperature (main). ▪ Adjust the leaving water temperature (additional). 	
Select which leaving water temperature schedule (main + additional) you want to use.	Menu structure
Program leaving water temperature schedule (main + additional).	
Define preset values that are used by the leaving water temperature schedule (main).	

See also:

- ["Using the leaving water temperature home pages \(main + additional\)" on page 9](#)
- ["4.7 Preset values and schedules" on page 14](#)

External room thermostat control

External room thermostat control means that you control the following:

- Room temperature on the external thermostat control
- Leaving water temperature on the user interface (ROTEX)


To control the leaving water temperature, you can do the following:

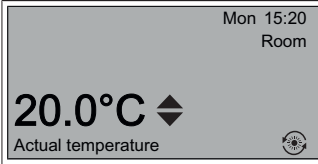
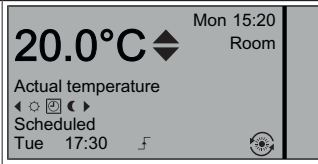
You can...	Location
Read out the desired leaving water temperature.	Leaving water temperature home pages (main + additional)
Adjust the desired leaving water temperature. Only change this if the desired room temperature cannot be reached.	

See also: ["Using the leaving water temperature home pages \(main + additional\)" on page 9](#).

Using the room temperature home page

Typical room temperature home pages

Depending on the user profile, the user interface gives you either a basic or a detailed home page. To switch between home pages, go to [7.1.3]:  > User settings > Display > User profile.

User profile = Basic	User profile = Detailed
 <p>Mon 15:20 Room 20.0°C Actual temperature</p>	 <p>Mon 15:20 Room 20.0°C Actual temperature Scheduled Tue 17:30</p>

4 Operation

To read out the actual and desired room temperature

- 1 Go to the room temperature home page (Room).

Result: You can read out the actual temperature.

20.0°C

Actual temperature

- 2 Press **OK**.

Result: You can read out the desired temperature.

22.0°C

Desired temperature

To temporarily overrule the room temperature schedule

- 1 Go to the room temperature home page (Room).
- 2 Use **▲** or **▼** to adjust the temperature.

To change the mode from scheduled to preset value

Prerequisite: User profile = Detailed.

- 1 Go to the room temperature home page (Room).
- 2 Press **◀** or **▶** to select a preset value (◊ or ◂).

Result: The mode will return to Scheduled according to the overrule period.

Example: Temporarily overruling the schedule AND changing the mode to preset value

You have configured the following settings:

Settings		Description
Preset values	Comfort (heating) = 20°C	Desired temperature when you are at home.
	Eco (heating) = 18°C	Desired temperature: <ul style="list-style-type: none"> • When you are away • During the night
Schedule	07:00 Comfort	You are at home. Desired temperature = preset value (Comfort (heating)).
	09:00 Eco	You are away. Desired temperature = preset value (Eco (heating)).
	17:00 Comfort	You are at home. Desired temperature = preset value (Comfort (heating)).
	19:00 21°C	You are at home and want it to be a little warmer. Desired temperature = custom temperature.
	23:00 Eco	Desired temperature = preset value (Eco (heating)).
Overrule period (Temperature lock)	2 hours	If you temporarily overrule the schedule by a preset value, after 2 hours the schedule will be used again.

If user profile = Basic, then you can **temporarily overrule** the room temperature schedule by pressing **▲** or **▼**.

Situation	Description
	<p>15:20 => Scheduled temperature = preset value (Eco (heating)) = 18°C.</p> <p>You temporarily overrule the schedule.</p> <p>Desired temperature = custom temperature = 19°C.</p> <p>At the next scheduled action (17:00), the schedule will be used again.</p>

If user profile = Detailed, then you can:

- **Temporarily overrule** the room temperature schedule by pressing **▲** or **▼** (same as if user profile = Basic)
- **Change the mode** from scheduled to a preset value by pressing **◀** or **▶**

Situation	Description
	<p>Room temperature schedule is used.</p> <p>15:20 => Desired temperature = preset value (Eco (heating)) = 18°C.</p> <p>The next scheduled action is at 17:00 and the desired temperature will then increase.</p>
	<p>You temporarily overrule the schedule.</p> <p>Desired temperature = custom temperature = 19°C.</p> <p>At the next scheduled action (17:00), the schedule will be used again.</p>
	<p>You change the mode from scheduled to preset value (Comfort (heating)).</p> <p>Desired temperature = preset value (Comfort (heating)) = 20°C.</p> <p>After 2 hours, the schedule will be used again (17:20 => 20°C).</p>
	<p>Before you have changed the mode from scheduled to preset value, and now you temporarily overrule the preset value.</p> <p>Desired temperature = custom temperature = 21°C.</p> <p>After 2 hours, the schedule will be used again (17:20 => 20°C).</p>

To set the overrule period

- 1 Go to [7.2]: **☰** > User settings > Temperature lock.
- 2 Select a value and press **OK**:
 - Permanent
 - hours (2, 4, 6, 8)

Usage example: You have a party

If you are in the following situation:

- You are using the following room temperature schedule:
 - 17:00 preset value (Comfort) = 20°C
 - 23:00 preset value (Eco) = 18°C
- Tonight you have a party and you want to use the preset value (Comfort) until 02:00.

Then you can do the following:

- Set the overrule period (Temperature lock) to 6 hours.
- At 20:00, go to the room temperature home page (Room).
- Press to select .

Result: The preset value (Comfort) will be used until 02:00. After that, the schedule will be used again.

Usage example: You go away for a couple of hours

If you are in the following situation:

- You are using the following room temperature schedule:
 - 08:00 preset value (Comfort) = 20°C
 - 23:00 preset value (Eco) = 18°C
- At 14:00, you go away for 3 hours.

Then you can do the following:

- Set the overrule period (Temperature lock) to 2 hours.
- Go to the room temperature home page (Room).
- Press to select .

Result: For the next 2 hours, the room will NOT be heated to the scheduled 20°C, but to the preset value (Eco = 18°C). After the 2 hours, the room will heat up again to the scheduled 20°C.

Advantage:

You save energy because you do NOT heat the room unnecessary, and by the time you come home the room is warm again.

Using the leaving water temperature home pages (main + additional)



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.

Example: Underfloor heating is designed for lower leaving water temperature than radiators and heat pump convectors and/or fan coil units. You only have to adjust leaving water temperature settings in case of problems.

Typical leaving water temperature home pages

Main zone:

User profile = Basic	User profile = Detailed
<p>Mon 15:20 LWT main 35°C ◆ Desired temperature</p>	<p>Mon 15:20 LWT main 35°C ◆ Desired temperature Mon 17:30 </p>

Additional zone:

User profile = Basic	User profile = Detailed
<p>Mon 15:20 LWT add 45°C ◆ Desired temperature</p>	<p>Mon 15:20 LWT add 45°C ◆ Desired temperature Mon 17:30 </p>

To read out the desired leaving water temperature (main + additional)

Go to the leaving water temperature home page (LWT main or LWT add).

To adjust/overrule the leaving water temperature (main)(NOT linked to room thermostat control)



INFORMATION

Adjusting the leaving water temperature is permanent unless the leaving water temperature is according to a schedule. In that case the overruling is valid until the next scheduled action.

- Go to [7.4.2]: > User settings > Preset values > LWT main.

35°C 37°C

- Press or to adjust/overrule. **Example:**

To adjust the leaving water temperature (additional)

- Go to the additional leaving water temperature home page (LWT add).

45°C 47°C

- Press or to adjust. **Example:**

4.5 Domestic hot water control

4.5.1 About domestic hot water control

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

- Reheat mode
- Scheduled mode
- Scheduled + reheat mode



CAUTION

The backup heater permission schedule is used to restrict or allow backup heater operation based on a weekly program. Advice: In order to avoid unsuccessful disinfection function, at least allow the backup heater (by the weekly program) for minimum 4 hours starting from the scheduled start-up of disinfection. If the backup heater is restricted during disinfection, this function will NOT be successful and the applicable warning AH will be generated.

4 Operation



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 Domestic hot water > Type > Reheat or Reheat + sched. 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 Domestic hot water > Type > Scheduled only is selected, it is recommended to program a Storage eco 3 hours before the scheduled start-up of the disinfection function to preheat the tank.

To determine which DHW tank mode you are using (method 1)

Check the installer settings table filled in by the installer.

To determine which DHW tank mode you are using (method 2)

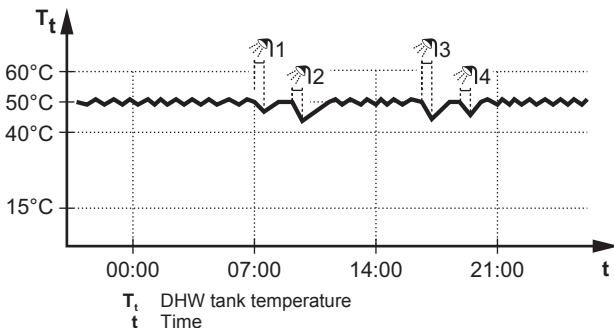
Prerequisite: User profile = Detailed.

- Go to the DHW tank temperature home page (Tank).
- Check which icons are displayed:

If... is displayed	Then the DHW tank mode =...
	Reheat mode
	Scheduled mode
	Scheduled + reheat mode

4.5.2 Reheat mode

In reheat mode (⊕), the DHW tank continuously heats up to the temperature shown on the DHW tank temperature home page (example: 50°C).



In reheat mode, you can do the following:

You can...	Location
Read out the desired reheat temperature.	DHW tank temperature home page
Adjust the reheat temperature.	
Condition: is displayed on the DHW tank temperature home page.	
Activate the DHW tank booster mode.	

You can...	Location
(Only for field supplied domestic hot water pump for secondary return) Program a domestic hot water pump schedule to determine when to turn ON and OFF the pump. When turned ON, the pump runs and makes sure hot water is instantly available at the tap. To save energy, only turn ON the pump during periods of the day when instant hot water is necessary.	Menu structure

See also:

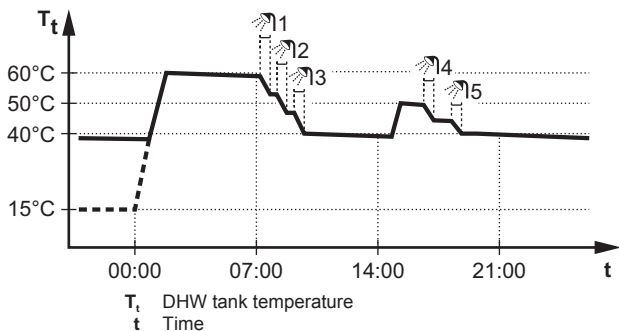
- "4.5.5 Using the DHW tank temperature home page" on page 11
- "4.5.6 Using the DHW tank booster mode" on page 12
- "4.7 Preset values and schedules" on page 14

4.5.3 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
- Electricity tariffs are 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: Storage comfort = 60°C = [6-0A]).
- During the morning, you consume hot water and the DHW tank temperature decreases. As long as the DHW tank temperature stays above 40°C, hot water is available.
- At 14:00 the DHW tank is programmed to heat up the water to a preset value (example: Storage eco = 50°C = [6-0B]). 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.

In scheduled mode, you can do the following:

You can...	Location
Read out the active or next scheduled desired temperature.	DHW tank temperature home page
Overrule the active or next scheduled desired temperature.	home page
Condition: \blacklozenge is displayed on the DHW tank temperature home page.	
Activate the DHW tank booster mode.	
Select a DHW tank temperature schedule.	Menu structure
Program a DHW tank temperature schedule.	
Define preset values that are used by the DHW tank temperature schedule.	
(Only for field supplied domestic hot water pump for secondary return)	
Program a domestic hot water pump schedule to determine when to turn ON and OFF the pump.	
When turned ON, the pump runs and makes sure hot water is instantly available at the tap. To save energy, only turn ON the pump during periods of the day when instant hot water is necessary.	

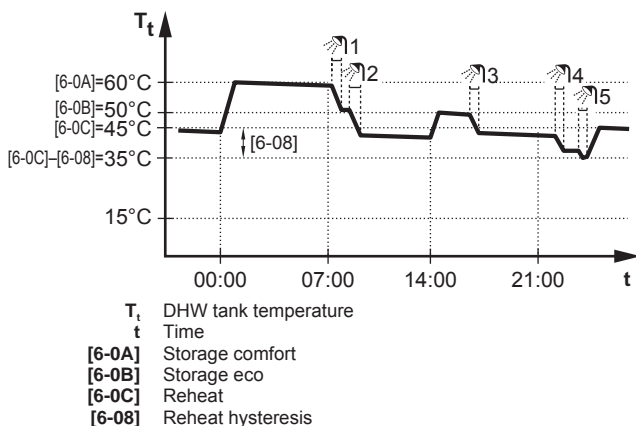
See also:

- "4.5.5 Using the DHW tank temperature home page" on page 11
- "4.5.6 Using the DHW tank booster mode" on page 12
- "4.7 Preset values and schedules" on page 14

4.5.4 Scheduled + reheat mode

In scheduled + reheat mode ($\text{☉} \text{⊗}$), 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 = [6-0C]–[6-08]; example: 35°C), the DHW tank heats up until it reaches the reheat set point ([6-0C]; example: 45°C). This ensures that a minimum amount of hot water is available at all times.

Example:



In scheduled + reheat mode, you can do the following:

You can...	Location
Do the same things as in scheduled mode.	—
Adjust the preset value (Reheat).	Menu structure

See also:

- "4.5.3 Scheduled mode" on page 10
- "4.7 Preset values and schedules" on page 14

4.5.5 Using the DHW tank temperature home page

Typical DHW tank temperature home pages

Depending on the user profile, the user interface gives you either a basic or a detailed home page. Depending on an installer setting, either an actual temperature or a number of people is displayed to indicate the domestic hot water tank temperature. The examples in the illustrations below are in DHW tank mode = Scheduled.

User profile = Basic	User profile = Detailed

Depending on an installer setting, you have to define how much hot water you want differently:

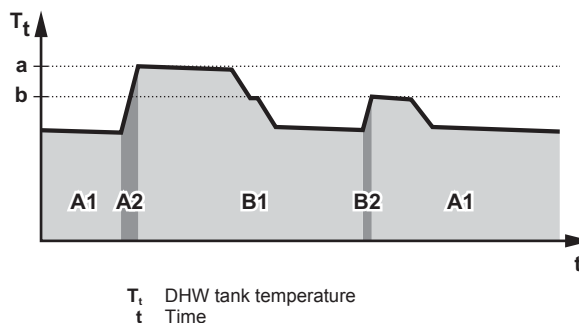
If you see...	Then you have to define...
$60^\circ\text{C} \blacklozenge$	To which temperature the DHW tank has to heat up.
$4 \text{ people} \blacklozenge$	For how many people you need hot water. The software then automatically calculates the corresponding DHW tank temperature based on installer settings.

To read out and adjust the desired reheat temperature (in scheduled and reheat mode)

- Go to [7.4.3.3]: ☉ > User settings > Preset values > Tank temperature > Reheat.
Result: You can read out the desired reheat temperature.
- Press \blacklozenge or \blacklozenge to adjust.

To read out and overrule the active or next scheduled desired temperature (in scheduled mode or scheduled + reheat mode)

- Go to the DHW tank temperature home page (Tank).
Result: $60^\circ\text{C} \blacklozenge$ or $4 \text{ people} \blacklozenge$ is displayed.



4 Operation

During period...	You can read out...
A1	The next scheduled action (a)
A2	The active action (a)
B1	The next scheduled action (b)
B2	The active action (b)

- Press or to overrule. **Note:** If the desired temperature is weather dependent, you cannot change it on the home page.

Usage example: You need more hot water than scheduled

If you are in the following situation:

- Current time = 10:30
- Next scheduled action of the DHW tank = Heat up to the preset value (Eco; example: 55°C and sufficient for 2 persons) at 14:00
- This evening you need hot water for 3 persons

Then you can do the following:

- Go to the DHW tank temperature home page (Tank).
- Overrule the next scheduled action by doing one of the following:
 - Change from 55°C to 60°C (when defining hot water as temperature)
 - Change from 2 persons to 3 persons (when defining hot water as number of persons)

Advantages:

- You will have sufficient hot water (= comfortable).
- You do NOT have to change the schedule (= easy).
- You do NOT have to activate the DHW tank booster mode (= energy saving).

4.5.6 Using the DHW tank booster mode

About the DHW tank booster mode

You can use the DHW tank booster mode to immediately start heating up the water to the preset value (Storage comfort). However, this consumes extra energy.

To check if the DHW tank booster mode is active

- Go to the DHW tank temperature home page (Tank).
- Check the following:
 - In user profile = Basic: If is displayed, the DHW tank booster mode is active.
 - In user profile = Detailed: If is selected, the DHW tank booster mode is active.

To activate the DHW tank booster mode (method 1)

- Go to the DHW tank temperature home page (Tank).
- Press for more than 5 seconds.

To activate the DHW tank booster mode (method 2)

Prerequisite: User profile = Detailed

- Go to the DHW tank temperature home page (Tank).
- Press to select .

Usage example: You immediately need more hot water

If you are in the following situation:

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

Then you can activate the DHW tank booster mode.

Advantage: The DHW tank immediately starts heating up the water to the preset value (Storage comfort).

4.6 Advanced usage

4.6.1 Using quiet mode



INFORMATION

Quiet mode is NOT applicable for this unit.

4.6.2 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. You can only use holiday mode if temperature control = room thermostat control. See also "4.4.3 Controlling the temperature" on page 6.

Using holiday mode typically consists of the following stages:

- Configuring the holiday for one of the following situations:
- Activating the holiday mode.
 - If you do NOT activate, the configured holiday settings will NOT be used.
 - If you activate:

Period	Then...
Before and after your holiday	Your normal schedules will be used.
During your holiday	The configured holiday settings will be used.

To check if holiday mode is activated and/or running

- Press to go to one of the home pages.
- Check the following:

If... is displayed	Then...
	One of the following holiday modes is activated: <ul style="list-style-type: none"> Holiday mode (Away) is activated, but NOT running yet. Holiday mode (Home) is activated. You cannot see if the holiday mode is already running.
	Holiday mode (Away) is activated and running.

To configure the holiday (when you stay at home)

- Go to [2.2]: > Holiday > Holiday mode.
- Select Home.
- Configure the holiday mode settings (when you stay at home).
- Activate the holiday mode.

Possible holiday mode settings (when you stay at home)

Setting	Description
From and Until	First and last day of your holiday.
Use day schedule	Day schedule used during your holiday. Example: Saturday

To configure the holiday (when you go away)

- 1 Go to [2.2]: > Holiday > Holiday mode.
- 2 Select Away.
- 3 Configure the holiday mode settings (when you go away).
- 4 Activate the holiday mode.

Possible holiday mode settings (when you go away)

Setting	Description
From and Until	First and last day of your holiday.
Operation mode	Operation mode used during your holiday.
Heating	Set point used during your holiday when the unit is operating in heating mode.
DHW	Turn ON or OFF domestic hot water operation during your holiday.

To activate or deactivate the holiday mode

Prerequisite: You have configured the holiday.

- 1 Go to [2.1]: > Holiday > Holiday.
- 2 Do one of the following:
 - To activate, select Yes and press .
 - To deactivate, select No and press .

Usage example: You go away during the winter

If you are in the following situation:

- In 2 days, you go away for 2 weeks during the winter.
- You want to save energy, but prevent your house from freezing.

Then you can do the following:

- 1 Configure the holiday. Go to [2]: > Holiday, and configure the following settings:

Setting	Value
Holiday mode	Away
From	2 February 2013
Until	16 February 2013
Operation mode	Heating
Heating	12°C

- 2 Activate the holiday mode.
 - Go to [2.1]: > Holiday > Holiday.
 - Select Yes and press .

Advantage:

- Before and after your holiday, your normal schedule will be used.
- During your holiday, you save energy and prevent your house from freezing.

Usage example: You come home during your holiday

If you are in the following situation:

- You configured and activated the holiday mode (Away).
- During your holiday, you come home for a few hours and want to use your normal schedule.

Then you can do the following:

- 1 Deactivate the holiday mode.
- 2 When you go away again, activate the holiday mode again.

Advantage:

You do NOT have to change your schedule or holiday configuration.

4.6.3 Reading out information**About reading out information**

The amount of information you can read out in the menu structure ([6]: Information) depends on your user permission level:

- End user (= default)
- Adv. end user: You can read out more information.

To switch between user permission levels (End user and Advanced end user)

- 1 Go to [6] or any of its submenus: > Information.
- 2 Press for more than 4 seconds.

Result: The user permission level switches to Adv. end user. Additional information is displayed and "+" is added to the menu title.

- 3 If you do NOT press any button for more than 1 hour or press again for more than 4 seconds, the user permission level switches back to End user.

To read out information

Go to [6]: > Information.

Possible read-out information

If user permission level = End user, you can read out the following information:

In menu...	You can read out...
[6.1] Sensor information	Room, tank or DHW, and outside temperature.
[6.2] Energy metering	Produced energy, consumed electricity, and consumed gas.
[6.3] Error handling	Error history and contact/helpdesk number.
[6.4] User permission level	Current user permission level.

If user permission level = Adv. end user, you can read out the following additional information:

In menu...	You can read out...
[6.1] Sensor information	Room, tank or DHW, outside, and leaving water temperature. (If applicable)
[6.2] Energy metering	Produced energy, consumed electricity, and consumed gas.
[6.5] Actuators	Status/mode of each actuator. Example: Domestic hot water pump ON/OFF.
[6.6] Operation modes	Current operation mode. Example: Defrost/oil return mode.
[6.7] Running hours	Running hours of the system.
[6.8] Version	Version information about the system.

4.6.4 Configuring date, time, units of measurement, contrast and backlight**To configure time and date**

Go to [1]: > Set time/date.

To configure units of measurement

Go to [7.6]: > User settings > Unit of measurement.

4 Operation

Possible units of measurement settings

Setting	Possible units of measurement
Decimal point	<ul style="list-style-type: none"> ▪ Dot ▪ Comma
Temperature	<ul style="list-style-type: none"> ▪ °C ▪ °F
Produced energy	<ul style="list-style-type: none"> ▪ kWh ▪ MBtu
Flow	<ul style="list-style-type: none"> ▪ l/min ▪ GPM

To configure the contrast of the user interface

Go to [7.1.1]: > User settings > Display > Contrast.

To configure the backlit LCD time of the user interface

Go to [7.1.2]: > User settings > Display > Backlit LCD time.

4.6.5 Configuring user profile and home pages

To set a user profile

- 1 Go to [7.1.3]: > User settings > Display > User profile.
- 2 Select a user profile and press **OK**.

Possible user profiles

If user profile = Detailed, you can see and do more on the home pages.

User profile	Example
Basic	
Detailed	

To configure which home pages are made available to the end user

- 1 Go to [7.1.4]: > User settings > Display > Available home pages.
Result: The home pages that are possible for your system layout are listed.
- 2 Select a home page and press **OK**.
- 3 Do one of the following:
 - To display the home page, select Yes and press **OK**.
 - To hide the home page, select No and press **OK**.

4.6.6 Locking and unlocking buttons and functions

About locking and unlocking

You can use the following locking modes:

- Child lock: Locks all buttons to prevent children from changing settings.
- Function lock: Locks a specific function to prevent people from changing its settings.

Possible function locks

To check if locking is active

- 1 Press to go to one of the home pages.
- 2 If is displayed, child lock is active.

Note: If you are on a home page and try to use a function that is locked, is displayed for 1 second.

To activate or deactivate child lock

- 1 Press to go to one of the home pages.
- 2 Press **OK** for more than 5 seconds.

To activate or deactivate a function lock

- 1 Press to go to the menu structure.
- 2 Press **OK** for more than 5 seconds.
- 3 Select a function and press **OK**.
- 4 Select Lock or Unlock, and press **OK**.

4.7 Preset values and schedules

4.7.1 Using preset values

About preset values

You can define preset values for multiple controls. Preset values make it easy to use the same value in many places (schedules and room temperature home page (and)). If you later want to change the value, you only have to do it in one place.

To define preset values

- 1 Go to [7.4]: > User settings > Preset values.
- 2 Select for which control you want to define a preset value.
Example: Room temperature.
- 3 Select a preset value and press **OK**. **Example:** Comfort (heating).
- 4 Select a temperature and press **OK**.

Possible preset values

Control	Preset value	Where used
Room temperature	Comfort	<ul style="list-style-type: none"> ▪ Room temperature schedules ▪ Room temperature home page (and) if user profile = Detailed
	Eco	
LWT main	Comfort	Main leaving water temperature schedules
	Eco	
Tank temperature	Storage comfort	DHW tank temperature schedule if DHW tank mode is <ul style="list-style-type: none"> ▪ Scheduled ▪ Scheduled + reheat
	Storage eco	
	Reheat	DHW tank temperature schedule if DHW tank mode = Scheduled + reheat
Quiet level		Not applicable.

4.7.2 Using and programming schedules

About schedules

Depending on your system layout and installer configuration, schedules (predefined and/or user-defined) 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 actions per control

Control	Possible actions
Room temperature	Program when to heat up or cool down a space:
Main leaving water temperature	<ul style="list-style-type: none"> ▪ Comfort (preset value) ▪ Eco (preset value) ▪ [Custom temperature]
Additional leaving water temperature	Program when the additional leaving water temperature is turned ON and OFF.
DHW tank temperature	Program when to heat up the DHW tank. The possible actions depend on an installer setting. Possible actions 1: <ul style="list-style-type: none"> ▪ Storage comfort (preset value)^(a) ▪ Storage eco (preset value)^(a) ▪ Storage stop^(b)
Quiet mode	Not applicable.
(Only for field supplied domestic hot water pump for secondary return) Domestic hot water pump	Program when the domestic hot water pump is turned ON and OFF.

- (a) Start heating up until the desired setpoint (Comfort/Eco) is reached.
- (b) Stop heating, even if the desired temperature is not reached yet; example: if electric tariffs are higher during the day, you can program a stop at 06:00.

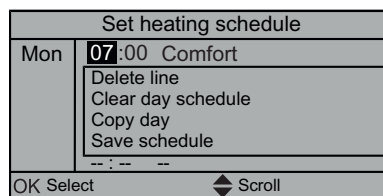
To select which schedule you currently want to use

- 1 Go to [5]: > Select schedules.
- 2 Select for which control you want to use a schedule. **Example:** [5.1] Room temperature.
- 3 Select for which operation mode you want to use a schedule. **Example:** [5.1.1] Heating.
- 4 Select a predefined or user-defined schedule and press **OK**.

To program a schedule

- 1 Go to [7.3]: > User settings > Set schedules.
- 2 Open an empty, predefined or user-defined schedule.
- 3 Change it.
- 4 Save it.

Guidelines when programming



You can:

- Delete lines from the schedule
- Clear a day schedule
- Copy from one day to others

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.

4.7.3 Schedules: Example



INFORMATION

The procedures to program other controls are similar.

In this example:

- Room temperature schedule in heating mode
- Monday = Tuesday = Wednesday = Thursday = Friday
- Saturday = Sunday

To program the schedule

- 1 Go to [7.3.1.1]: > User settings > Set schedules > Room temp. > Set heating schedule.
- 2 Select Empty and press **OK**.
- 3 Program the schedule for Monday. See below for more details.
- 4 Copy from Monday to Tuesday, Wednesday, Thursday and Friday. See below for more details.
- 5 Program the schedule for Saturday.
- 6 Copy from Saturday to Sunday.
- 7 Save the schedule and give it a name. See below for more details.

To program the schedule for Monday

- 1 Use and to select Monday.
- 2 Press to enter the schedule for Monday.
- 3 Program the schedule for Monday:
 - Use and to select an entry.
 - Use and to change the value of an entry.

To copy from one day to another

- 1 Select the day from which you want to copy and press **OK**. **Example:** Monday.
- 2 Select Copy day and press **OK**.
- 3 Set the days you want to copy to Yes and press **OK**. **Example:** Tuesday = Yes, Wednesday = Yes, Thursday = Yes and Friday = Yes.

4 Operation

To save the schedule

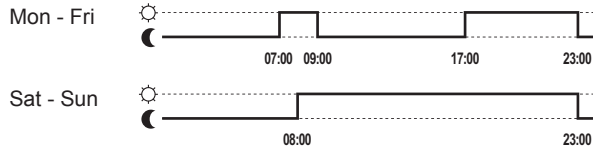
- 1 Press **OK**, select Save schedule and press **OK**.
- 2 Select User defined 1, User defined 2 or User defined 3 and press **OK**.
- 3 Change the name and press **OK**. (Only applicable for room temperature schedules). **Example:** MyWeekSchedule

4.7.4 Predefined schedules: Room temperature + leaving water temperature (main)

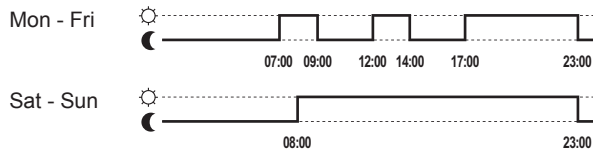
☀: Desired temperature = Preset value (Comfort)

☾: Desired temperature = Preset value (Eco)

Predefined 1



Predefined 2



Predefined 3

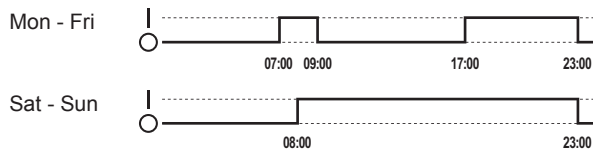


4.7.5 Predefined schedules: Leaving water temperature (additional)

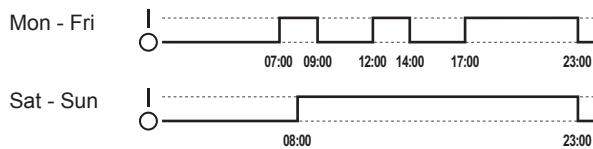
|: Additional zone = On

○: Additional zone = OFF

Predefined 1



Predefined 2



Predefined 3

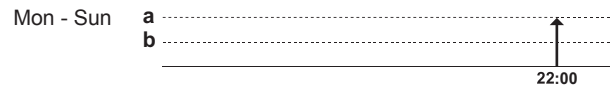


4.7.6 Predefined schedules: DHW tank temperature

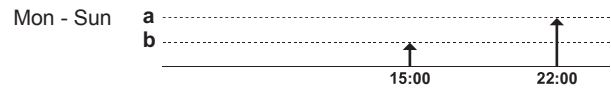
a: Start production of domestic hot water. Desired DHW tank temperature = Preset value (Storage comfort)

b: Start production of domestic hot water. Desired DHW tank temperature = Preset value (Storage eco)

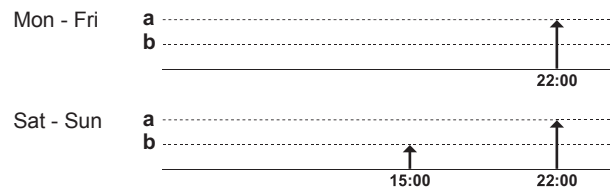
Predefined 1



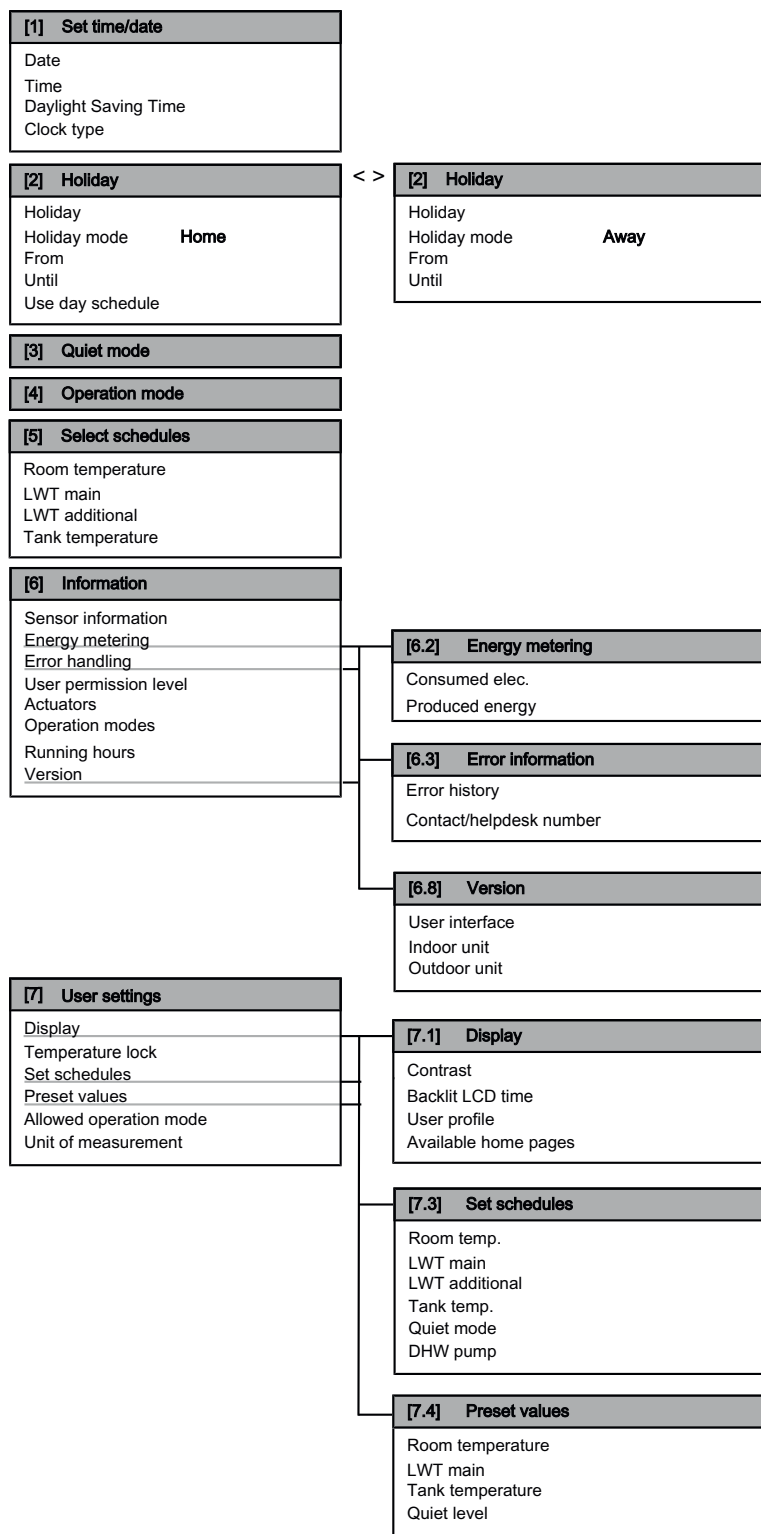
Predefined 2



Predefined 3



4.8 Menu structure: Overview user settings



5 Energy saving tips



INFORMATION

Energy metering functionality is NOT applicable and/or NOT valid for this unit if it is calculated by the unit. If optional external meters are used, energy metering display is valid.



INFORMATION

Quiet mode and quiet level is NOT applicable for this unit.



INFORMATION

- Indoor unit relates to indoor unit PCB which controls the hydraulic part of the ground source heat pump.
- Outdoor unit relates to outdoor unit PCB which controls the compressor module of the ground source heat pump.

4.9 Installer settings: Tables to be filled in by installer

4.9.1 Quick wizard

Setting	Default	Fill in...
Preferential kWh rate power supply [A.2.1.6]		
Preferential kWh rate	0 (No)	
Space heating settings [A.2.1]		
Unit control method	0 (LWT control)	
User interface location	1 (In room)	
Number of LWT zones	0 (1 LWT zone)	
Pump operation mode	1 (Sample)	
Domestic hot water settings [A.2.2]		
DHW pump	0 (No)	
Thermostats [A.2.2]		
Contact type main	1 (Thermo ON/OFF)	
Contact type add.	1 (Thermo ON/OFF)	
External sensor	0 (No)	
Digital I/O PCB [A.2.2.6]		
Ext. backup heat src	0 (No)	
Alarm output	0 (Normally open)	
Demand PCB [A.2.2.7]		
Demand PCB	0 (No)	
Energy metering [A.2.2]		
External kWh meter 1	0 (No)	
External kWh meter 2	0 (No)	
Capacities (energy metering) [A.2.3]		
BUH: step 1	3 kW	
BUH: step 2	3 kW	
Auto emergency [A.5.1.2]		
Auto emergency operation	Manual	



INFORMATION

Auto emergency: By default, backup heater operation during emergency operation is NOT allowed. This means that when a heat pump failure occurs the user needs to manually confirm that backup heater may operate during emergency. If the house is unattended for longer periods, we recommend that setting [A.5.1.2] Auto emergency operation shall be set to Automatic.

4.9.2 Space heating control

Setting	Default	Fill in...
Leaving water temperature: Main zone [A.3.1.1]		
LWT setpoint mode	1 (Weather dep.)	
Set weather-dependent heating	-20/15/60/25	
Leaving water temperature: Additional zone [A.3.1.2]		
LWT setpoint mode	1 (Weather dep.)	
Set weather-dependent heating	25/60/15/-20	
Leaving water temperature: Delta T emitter [A.3.1.3]		
Heating	8°C	
Leaving water temperature: Modulation [A.3.1.1.5]		
Modulated LWT	0 (No)	
Leaving water temperature: Emitter type [A.3.1.1.7]		
Emitter type	0 (Quick)	

4.9.3 Domestic hot water control [A.4]

Setting	Default	Fill in...
Type	1 (Reheat + sched.)	
Setpoint readout type	0 (Temperature)	
Maximum setpoint	60°C	

4.9.4 Contact/helpdesk number [6.3.2]

Setting	Default	Fill in...
Contact/helpdesk number	—	

5 Energy saving tips

Tips about room temperature

- Make sure the desired room temperature is NEVER too high, but ALWAYS according to your actual needs. Each saved degree can save up to 6% of heating 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.
- Use a weekly schedule for your normal space heating needs. If necessary, you can easily deviate from the schedule:
 - For shorter periods: You can overrule the scheduled room temperature. **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. **Example:** When you stay at home during your holiday, or when you go away during your holiday.

Tips about leaving water temperature

- In heating mode, a lower desired leaving water temperature results in lower energy consumption and better performance.
- 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

- Make sure the number (available hot water for x persons) on the DHW tank temperature home page is NOT higher than your actual needs.
- 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 (Storage comfort = higher DHW tank temperature) during the night, because then space heating demand is lower and electric tariffs may be 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 (Storage 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.

As end user, you have to:

- Keep the user interface clean with a soft damp cloth. Do NOT use any detergents.
- Regularly check if the water pressure indicated on the manometer is above 1 bar.

Refrigerant


This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do NOT vent gases into the atmosphere.

Refrigerant type: R410A

Global warming potential value: 1975



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

6.2 To find the contact/helpdesk number

Go to [6.3.2]:  > Information > Error handling > Contact/helpdesk number.


7 Troubleshooting

7.1 Overview: Troubleshooting

If a malfunction occurs,  is displayed on the home pages. You can press  to display more information about the malfunction.

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.

7.2 To check the error history

Go to [6.3.1]:  > Information > Error handling > Error history.

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. If the problem recurs daily, do one of the following: <ul style="list-style-type: none"> ▪ Increase (decrease) the room temperature preset value. ▪ Adjust the room temperature schedule.
The desired room temperature cannot be reached.	Increase the desired leaving water temperature in accordance with the heat emitter type.

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 booster mode. However, this consumes extra energy.
The desired DHW tank temperature is too low.	If you can wait, overrule (increase) the active or next scheduled desired temperature so that more hot water will be produced exceptionally. If the problems recurs daily, do one of the following: <ul style="list-style-type: none"> ▪ Increase the DHW tank temperature preset value. ▪ Adjust the DHW tank temperature schedule. Example: Program to additionally heat up the DHW tank to a preset value (Storage eco = lower tank temperature) during the day.

8 Relocation

7.5 Symptom: Heat pump failure

When the heat pump fails to operate the backup heater can serve as an emergency heater and either automatically or non-automatically take over the heat load. When auto emergency is activated and a heat pump failure occurs, the backup heater will automatically take over the heat load. When a heat pump failure occurs and auto emergency is not activated, the domestic hot water and space heating operations will stop and need to be recovered manually. The user interface will then ask you to confirm whether the backup heater can take over the heat load or not. When the heat pump fails, ⓘ will appear on the user interface.

Possible cause	Corrective action
Heat pump is damaged.	<ul style="list-style-type: none">Press ⓘ to view a description of the problem.Press ⓘ again.Select OK to allow the backup heater to take over the heat load.Call your local dealer to get the heat pump fixed.



INFORMATION

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

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

9.1 Overview: Disposal

If you want to dispose 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.

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.

Authorized 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

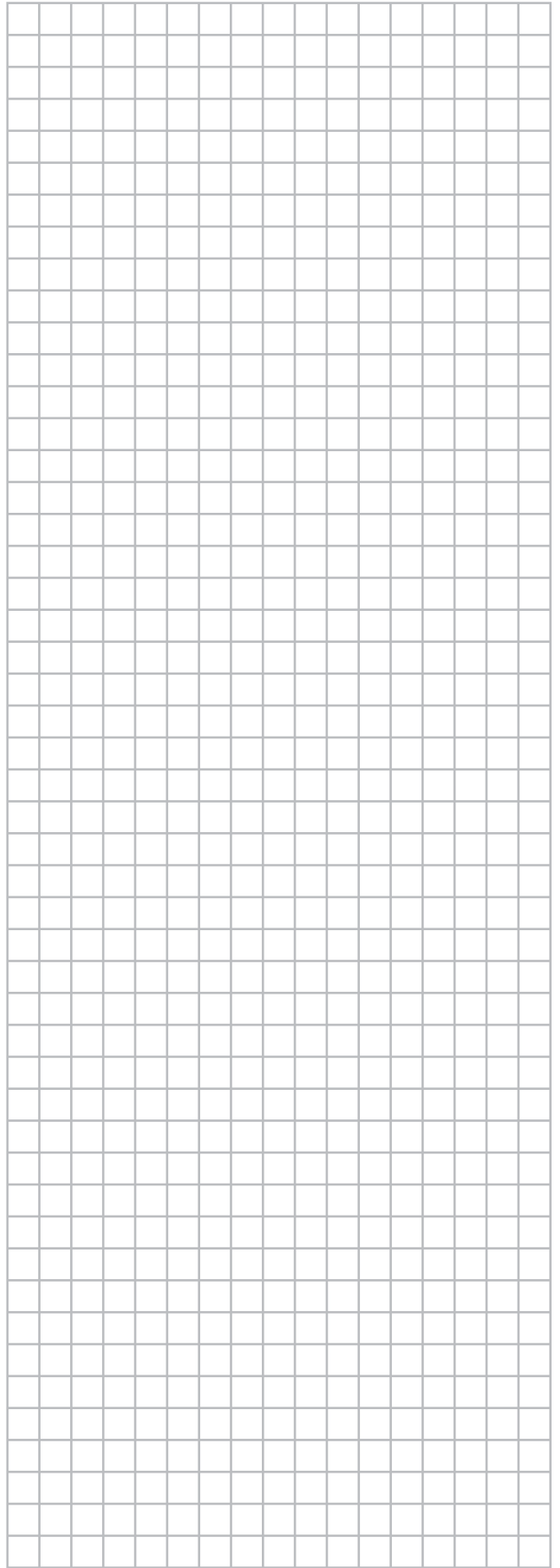
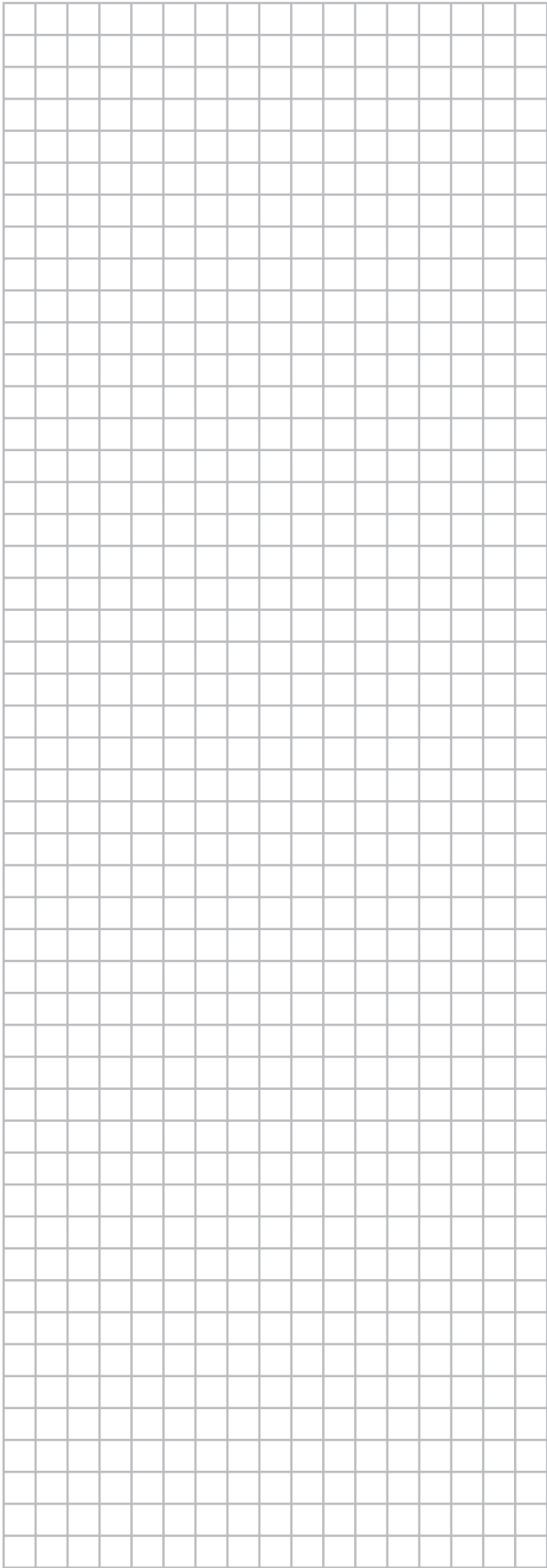
Labels, manuals, information sheets and equipment that are delivered with the product and that need to be installed according to the instructions in the accompanying documentation.

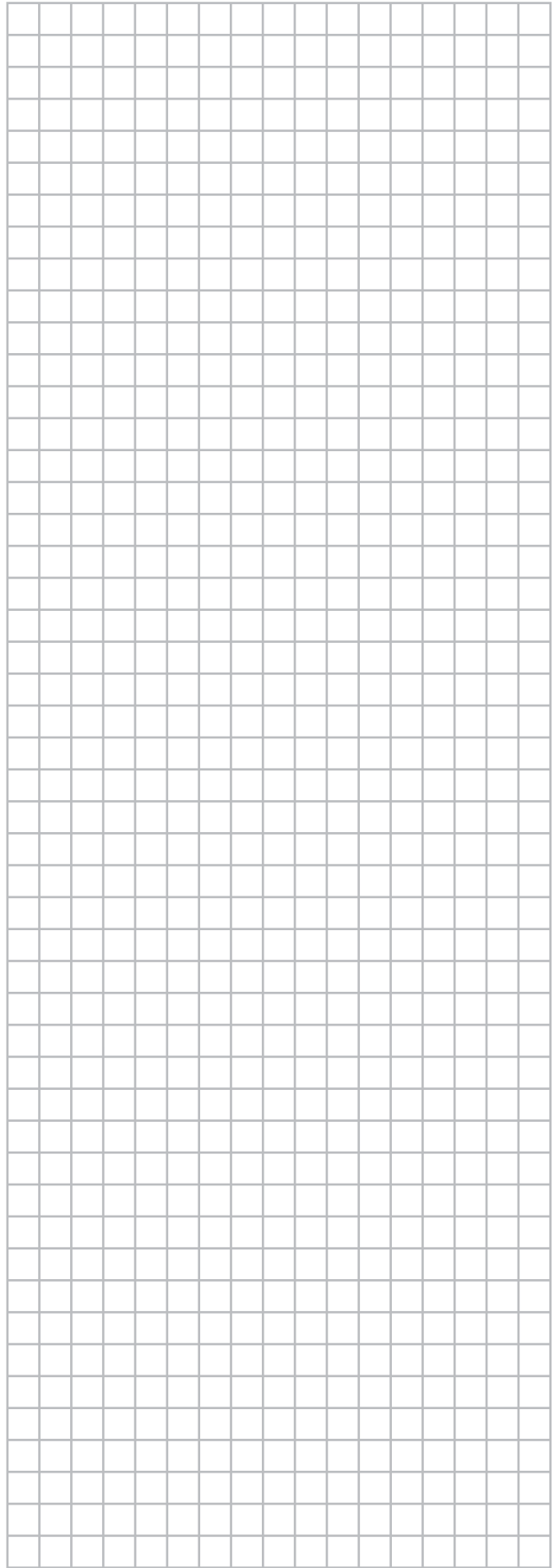
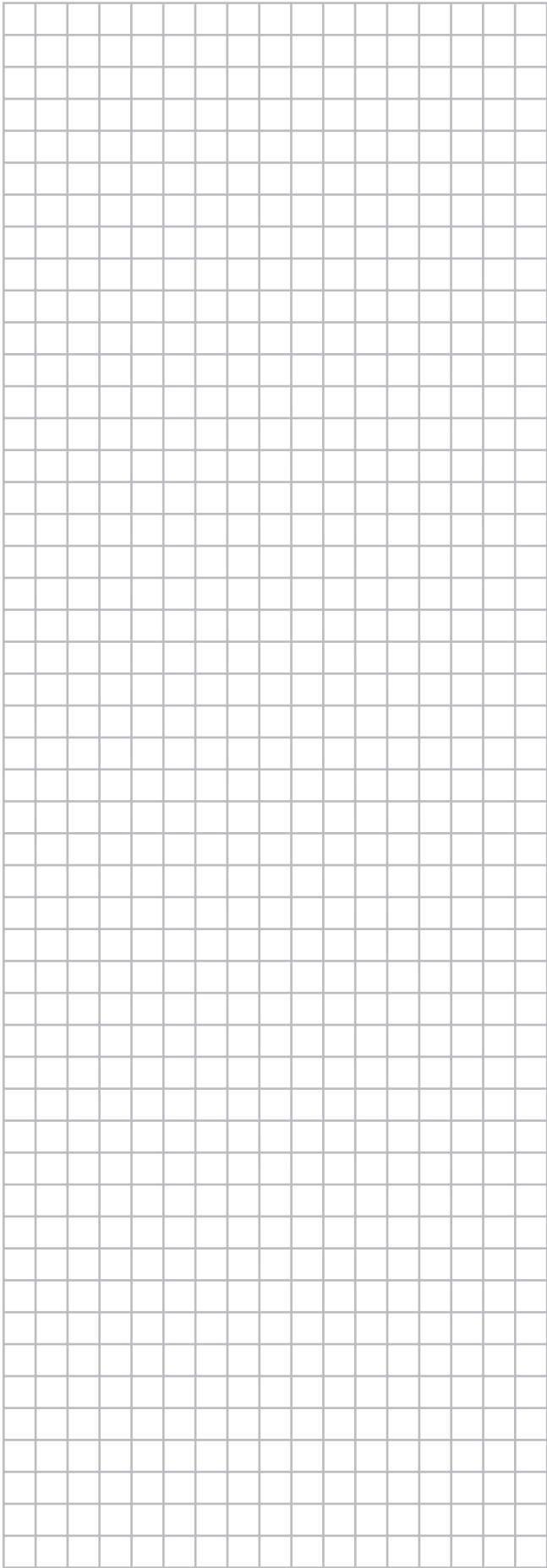
Optional equipment

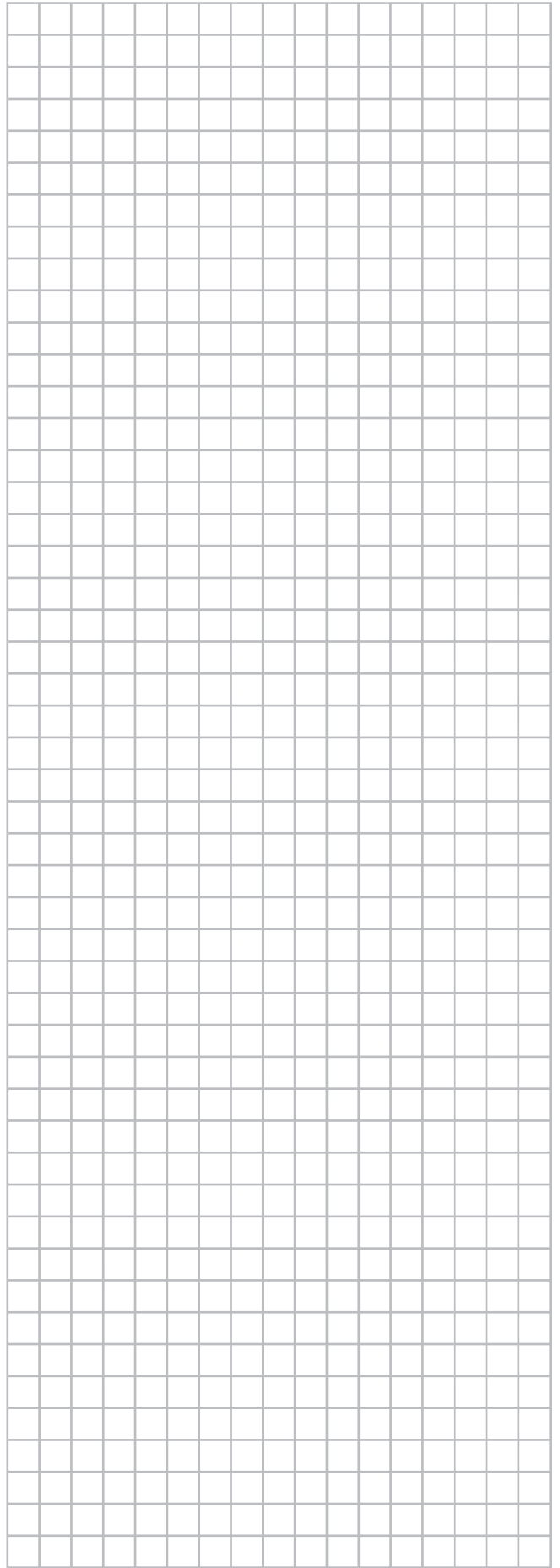
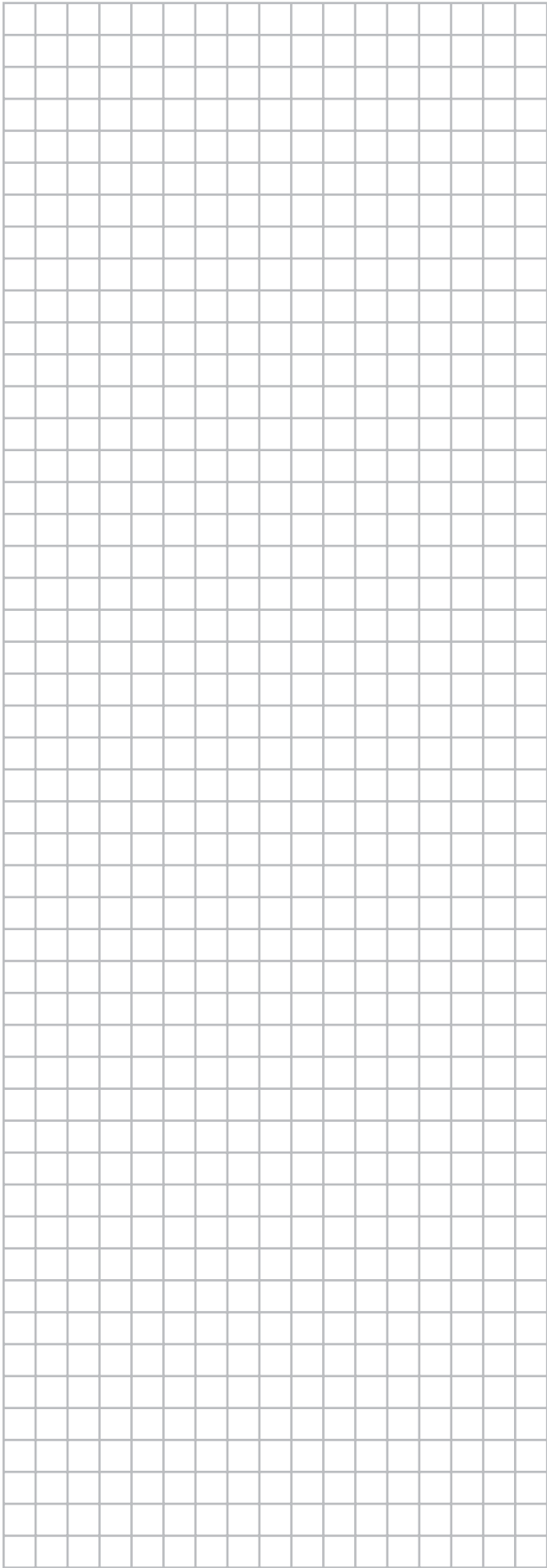
Equipment made or approved by ROTEX that can be combined with the product according to the instructions in the accompanying documentation.

Field supply

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







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