

Operating Instructions

Hoval

TopTronic® E control module comfort black / white



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1. Heating system control

1.1 Function of the TopTronic® E control

The TopTronic® E control module is used for controlling your heating system. Using the touch-sensitive screen (referred to below as touchscreen), you can make various settings on your system at the touch of a fingertip or using the stylus.

NOTICE



The surface of the TopTronic® E control module is not allowed to be touched with sharp or pointed objects for operation – risk of scratching.

The control module has the following functions:

- Maintaining the desired room temperature independent of the outside temperature
- Heating the living space only when required
- Producing hot water only when required
- Displaying information about the system

Further functions:

- Making it possible to set the desired temperatures and select a basic program (chapter 1.9 on page 21)
- Turning the heat generator ON/OFF
- Monitoring temperatures

All the basic settings will have already been carried out by Hoval, or the heating engineer, during commissioning of the heating system. You can make further settings if you go on a journey or if your home is too cold or too warm. You can find an overview of the most frequently asked questions in chapter 1.3 on page 6.



How to save energy!

For your benefit and for the environment

Using energy more efficiently by avoiding unnecessary losses! With little effort, you can optimise the operation of your heating system and save energy at the same time.

It is worth setting your personal day and week programs

You can save valuable energy and money by specifically adjusting the heating times with a personal day or week program to take account of the times when you will be present and absent. The TopTronic® E control makes it very simple to set different switching cycles for individual daily sequences (chapter 1.10 on page 24).

1.2 Operating and display elements

The graphical displays on the control module can be operating or display elements.



If the TopTronic® E control module is in sleep mode, it can be "woken up" by touching the touchscreen. Sleep mode and the duration until the mode starts can be adjusted (chapter 1.13.13 on page 63, nos. 3 and 4).

Operating elements



Operating elements are understood to be the buttons on the control module that can be selected by touching in order to adjust various settings. The operating elements are shown in white on a black background or in black on a white background. Values that can be changed with **plus** (+) or **minus** (-) can be touched directly. As a result, a keypad appears on the control module which helps you to make the entry.

Display elements



Display elements only provide information and cannot be selected. They are shown in colour.

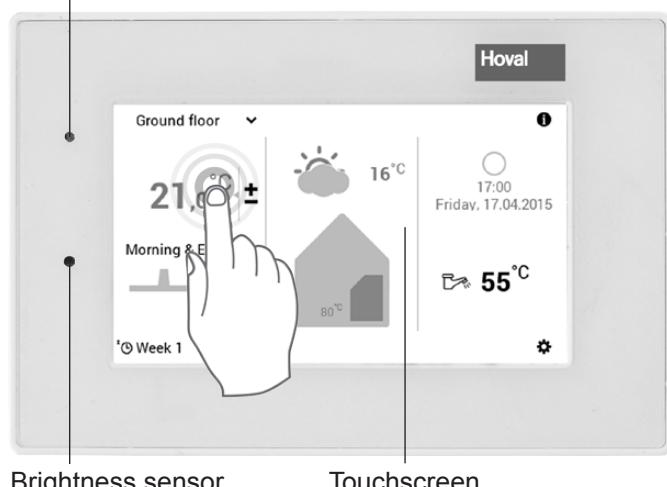
Room temperature – coloured marking

21,0°C

The room temperature on the start screen is shown in three different colours. The colours have the following meaning:

Colour	Meaning
Orange	Heating Heating operation active. The room is heated to the desired room temperature.
Blue	Cooling Cooling operation active. The room is cooled to the desired room temperature.
Grey	Inactive Heating/cooling operation inactive.

LED indicator

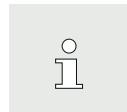
**LED operating status**

An LED indicator is additionally attached on the left of the control module. This displays the operating status and can light up in the following three colours:

Colour	Meaning
Green	Correct operation General information or warnings may be displayed on the control module. You as the customer do not need to do anything, however! Heating operation is continued.
Orange	Blocking The heat generator has been temporarily blocked because of an error. Contact Hoval customer service if the blocking leads to inadvertent cooling down of the heating system.
Red	Locking The heat generator sent a critical error and has been locked for safety reasons. The heat generator cannot continue to operate. Contact Hoval customer service!

1.3 What to do if...

The following information can be used as a first level support in frequently occurring situations.

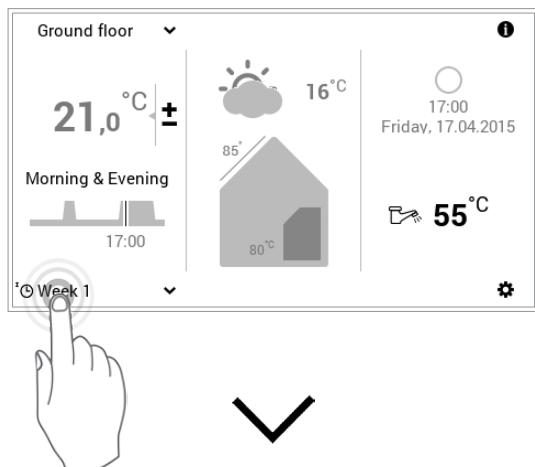
Observation	Remedy	Chapter / page
It is too cold.	Select Room temperature on the start screen and press the plus (+) button to increase the room temperature.	1.8.1 on page 14
It is too warm.	Select Room temperature on the start screen and press the minus (-) button to reduce the room temperature.	1.8.1 on page 14
From now on, equal day and night temperatures should be maintained continuously.	Select Basic programs on the start screen and choose the Constant basic program. Set the desired room temperature.	1.8.4 on page 16
This evening, the heating should remain on for longer.	Select Day programs on the start screen. Under "Select day program", set Party and enter the duration and room temperature.	1.11.3 on page 35
A larger amount of hot water is required.	Select DHW temperature (tap icon) on the start screen and press the plus (+) button to increase the water temperature. If necessary, recharge domestic hot water ("Recharging").	1.8.2 on page 15 / 1.12.7 on page 48
 <p>You can also access the function for setting the water temperature using Main menu (⚙) > Hot water.</p>		
From now on, hot water but no heating is required.	Set Heating circ. to Standby basic program and Hot water to the required basic program . Heating operation OFF, hot water ON.	1.8.4 on page 16
Suddenly, there is no heating or hot water; it is cold.	Check the control module for alarm messages and consult a heating engineer, if necessary. Check if there is still sufficient fuel/Electricity available, if necessary.	Alarm messages chapter
I will be absent for several hours during the day today.	Select Day programs (e.g. all day) on the start screen. Under "Select day program", set another day program or Absent (enter the duration and room temperature).	1.8.5 on page 17 / 1.11.3 on page 35
I am travelling for a certain period of time (e.g. two weeks).	Select Basic programs on the start screen and choose the Holiday until basic program. Set the date of your return.	1.9.2 on page 22
I am going away for an indefinite period of time.	Select Basic programs on the start screen and choose the Standby basic program. Change the basic program when you return.	1.8.4 on page 16
In summer, it is too cold or too warm.	The basic program enables you to tell which operating mode is active. Adapt the required basic program as you need to.	1.8.4 on page 16

1.4 Efficient control of the system

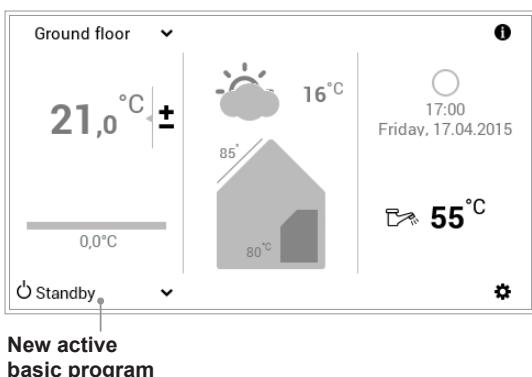
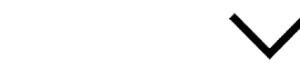
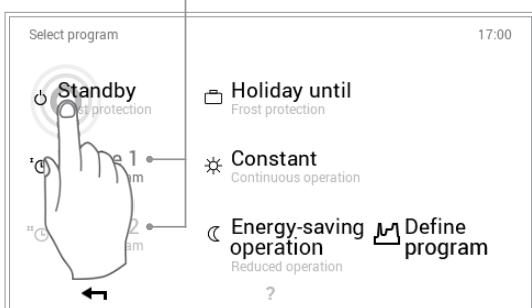
You can save a lot of energy by efficient adjustment of the heating operation. The TopTronic® E control module provides basic programs (1.9 on page 21) that help you to control your system easily and specifically when you are present and absent over a fairly long period of time. For short-term changes to the heating times, you can use various day programs in

the **Week 1** and **Week 2** basic programs (1.11 on page 33). Furthermore, the living area temperature can be increased or reduced effortlessly by selecting the current room temperature.

Basic programs

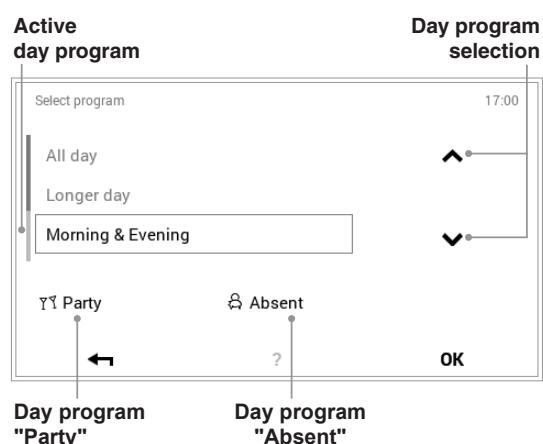
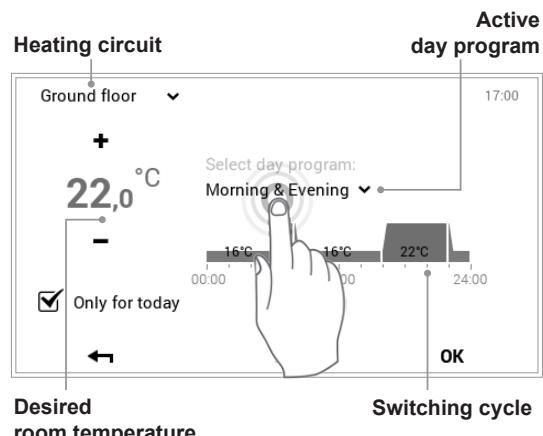
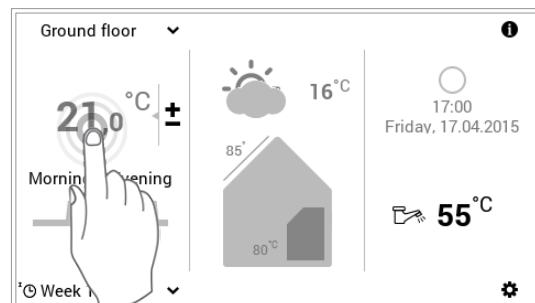


See "Week programs" chapter



New active basic program

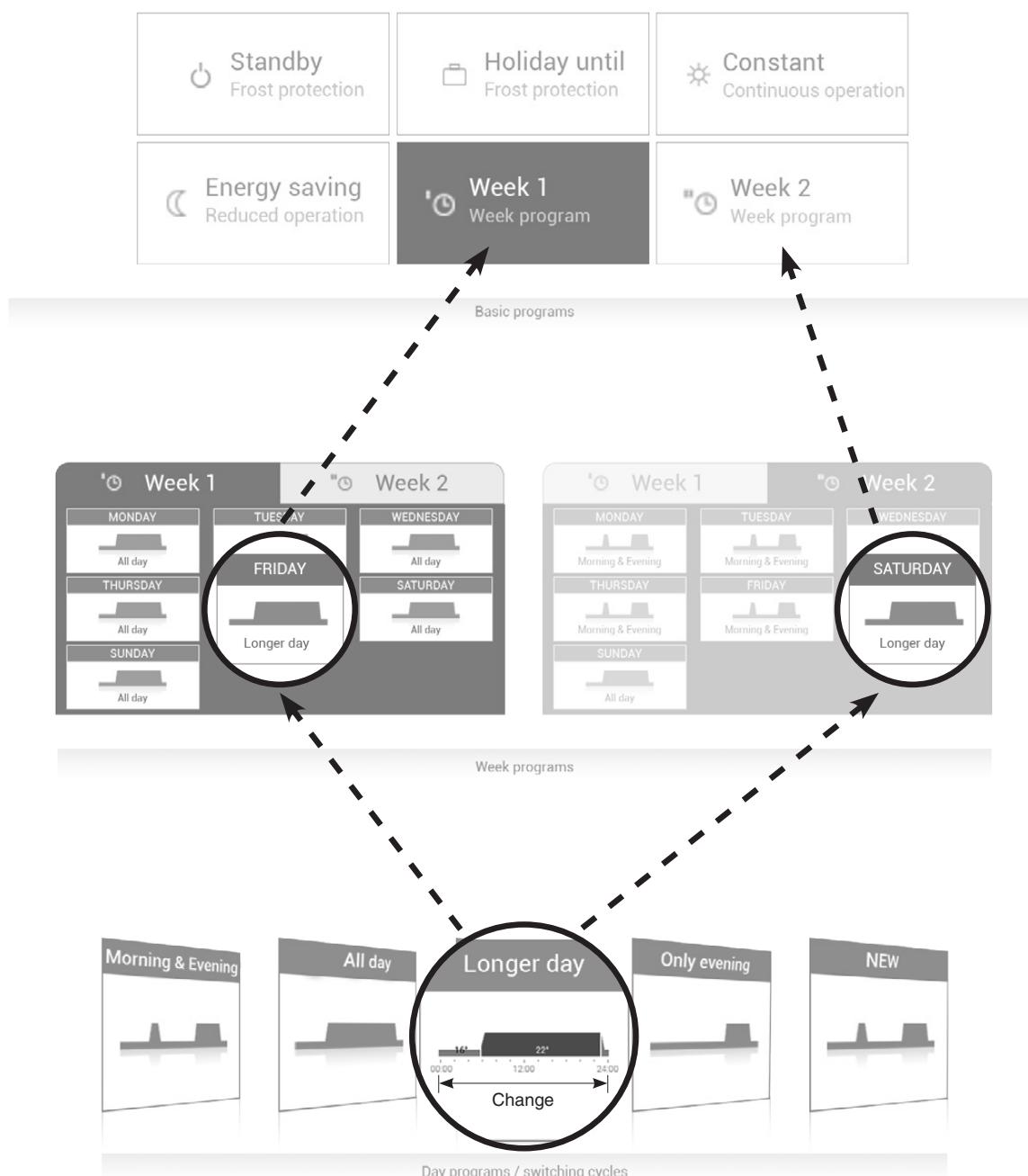
Room temperature / day programs



1.5 Individual day and week programs

To save you the trouble of selecting the required basic program every day, the control module of the TopTronic® E offers you the opportunity of using week programs. In the two basic programs that can be selected, you can plan your individual week sequences and assign day programs (1.11 on page 33) to adapt the heating times to your presence and absence using switching cycles. In

the basic settings, the control module already contains the two standard week programs, **Week 1** and **Week 2** (1.9 on page 21). You can edit the two week programs individually (1.10.4 on page 27) and give them any name (1.10.5 on page 29).

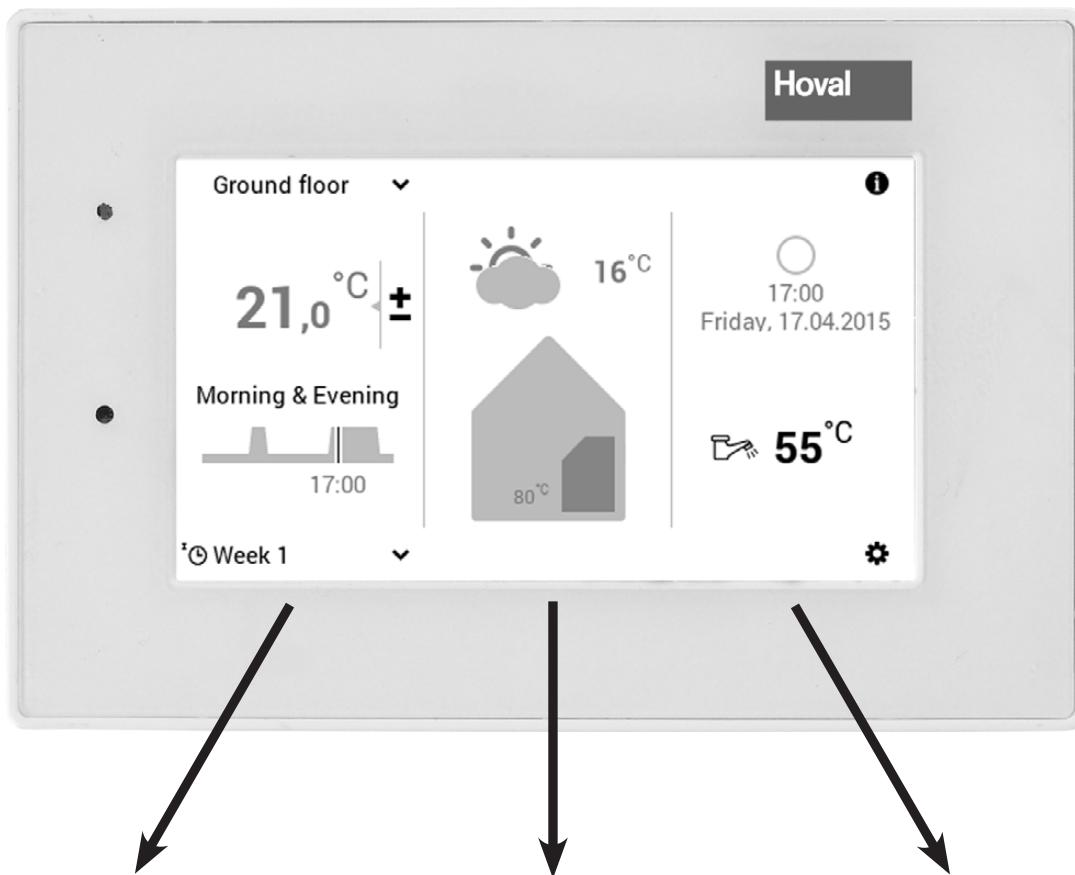


1.6 Start screen

The start screen of the control module is divided into three vertical display elements. For a detailed list of the various start screen functions, refer to 1.6.1 on page 10.

NOTICE

The surface of the TopTronic® E control module is not allowed to be touched with sharp or pointed objects for operation – risk of scratching.



Information living area

The left third of the start screen contains information about the living area. Here, you can make settings for the heating circuit, current room temperature, day program and switching cycles as well as basic program (chapter 1.4 on page 7).

Information heat generator

The middle third of the start screen contains information about the heat generator. This information area displays the error status, the outside temperature as well as information about the heating circuit. In addition, the user level (referred to below as authorisation level) can be displayed.

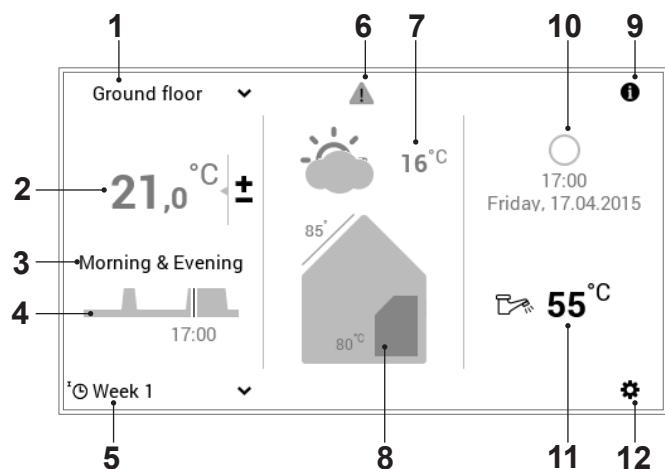
Information general

The right third of the start screen contains general information. Information about energy consumption, time/date as well as domestic hot water temperature. In connection with the TopTronic® E online, the weather forecast is displayed on the control module as an option.

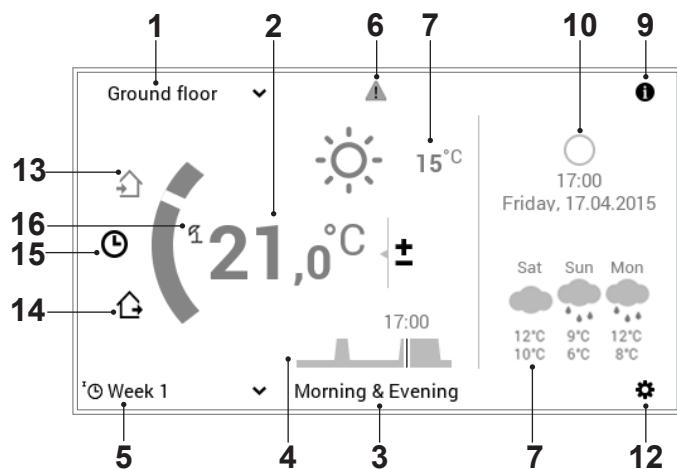
 The display of the start screen is a standard view. The operating elements can be adapted by the user. Please check the start screen settings in 1.14.2 on page 65 if the display is different.

1.6.1 Elements of the start screen heat generator and living area

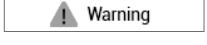
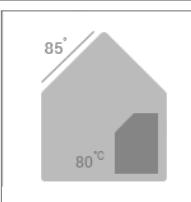
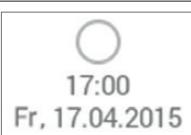
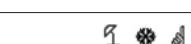
Heat generator



Living area



Position / symbol	Designation	Function	Chapter / page	
1	Ground floor ▾	Heating circuit	If a house is divided into individual heating areas, the heating circuit refers to each individually adjustable portion. Each heating circuit can have individual settings assigned to it, such as basic program, day and week program as well as room temperature. If no name is shown, then there is only one heating circuit.	1.8.3 on page 16
	∞ Ground floor ▾	Operation heating circuits	Display of the joint or individual operation of all heating and domestic hot water circuits.	
			Ground floor ▾ Individual operation of every individual heating circuit	
			∞ Ground floor ▾ Joint operation of all heating circuits (temperature and programs identical)	
2	21,0 °C ±	Room temperature	Displaying the current room temperature – in room control modules and systems with room air sensor – in the selected heating circuit. Adaptation of the temperature by increasing or reducing the preset temperature (1.8.1 on page 14). Display of the required room temperature in systems without room air sensor.	1.8.1 on page 14
3	Morning & Evening	Active day program	Currently active day program. Only displayed if the basic programs Week 1 and Week 2 (1.9 on page 21) are selected.	1.8.5 on page 17
4		Switching cycle	The diagram shows the course of the day (room temperature vertical, time horizontal) of the active basic program or the assigned day program. The vertical line represents the current status.	1.11.5 on page 38
5	'Week 1' ▾	Basic program	Assignment of the basic program for the particular situation (e.g. week programs, Constant, Holiday Until). The basic program is used as the operating mode of the heating circuit.	1.8.4 on page 16

6	 Information	Operating status	Currently active operating status  No display – correct operation	1.8.7 on page 20
		Alarm message display	 Warning	Selection and display of alarm messages
				Display authorisation level. If no level is displayed, the control is in level 0 - your operating level.
7	 16°	Outside temperature	Display of the current outside temperature (only displayed if there is a outdoor temperature sensor). In addition, the phase of the moon is displayed at night. In connection with the TopTronic® E online, the current weather is displayed.	
8	 85° 80°	Information active heat generator	Displays the current temperature in the active heat generator. If a solar plant is installed, the collector temperature is also displayed. If the heat generator/solar plant is currently active, this is indicated by an orange colour.	
9	 i	Information	Detailed information about the system	1.8.7 on page 20
10	 17:00 Fr, 17.04.2015	Phase of the moon, time and date	Display of the current time and date. In connection with the TopTronic® E online, the current phase of the moon is displayed.	
11	 55°C	Hot water	Shows the current domestic hot water temperature if necessary.	1.12 on page 44
12		Main menu	This operating element accesses the main menu.	1.13.1 on page 51
13		Day program	Immediate heating starts, the day program is activated.	1.11 on page 33
14		Present	Immediate heating starts, the "All day" day program is activated	1.11.3 on page 35
15		Week program	Back to the week program	1.8.4 on page 16
16	 ☼ * ☁	Special symbols	☼ = summer mode *= frost protection when pump on ☁ = screed drying	

The display of the start screen is a standard view. The operating elements can be adapted by the user. Please check the start screen settings in 1.14.2 on page 65 if the display is different.



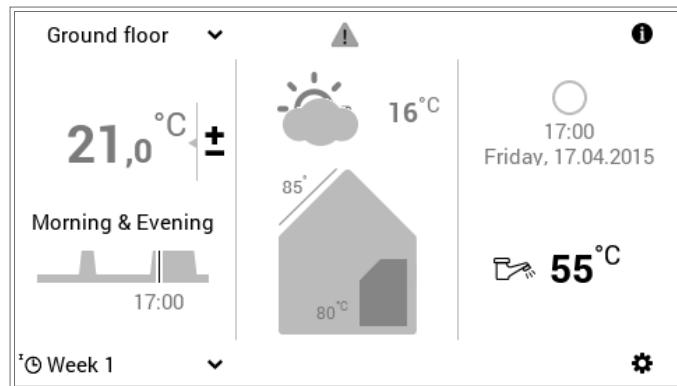
1.6.2 Optional start screen

The TopTronic® E control module includes five different displays of the start screen. Depending on the individual requirement, the required start screen can be defined during commissioning and set by the heating specialist.



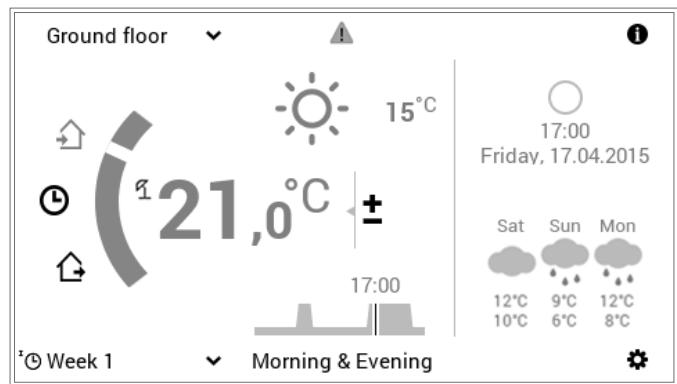
A subsequent changeover to one of the variants described below can only be made by the heating specialist.

Start screen Heat generator



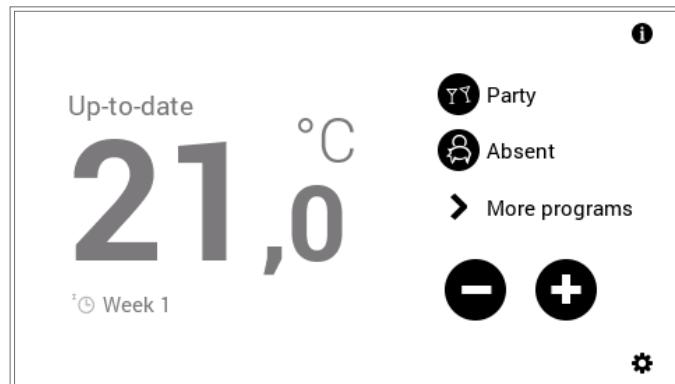
The heat generator screen shows detailed information about the heat generator. In connection with the TopTronic® E online, the weather forecast and the current phase of the moon are displayed.

Start screen Living comfort (option)



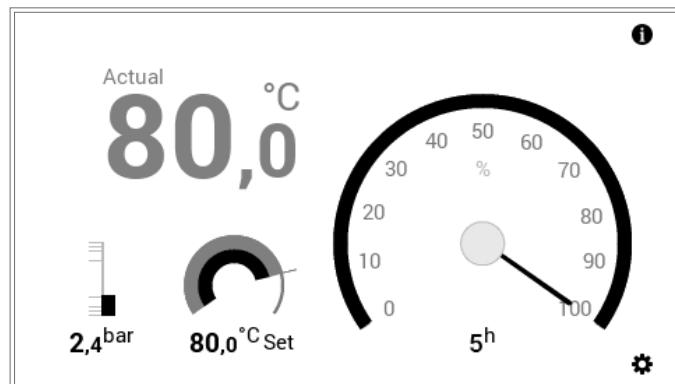
In contrast to the heat generator start screen, the "Living comfort" start screen focuses on quickly switching over between day programs (chapter 1.11 on page 33) as well as absence (chapter 1.11.3 on page 35). The information about heat generators is shown with a smaller size. In connection with the TopTronic® E online, the weather forecast and the current phase of the moon can also be displayed.

Start screen Living easy (option)



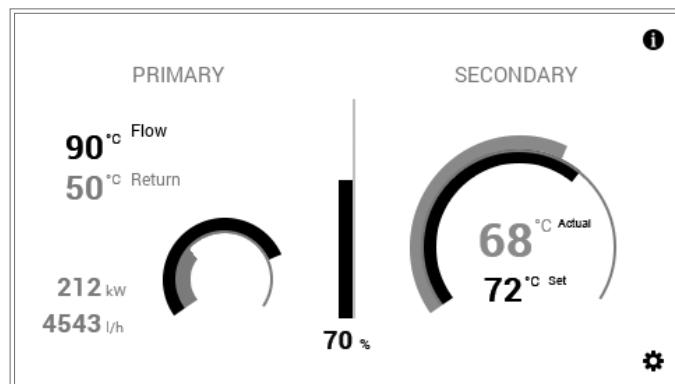
Please refer to the separate operating instructions for the room control module easy.

Start screen Industrial (option)



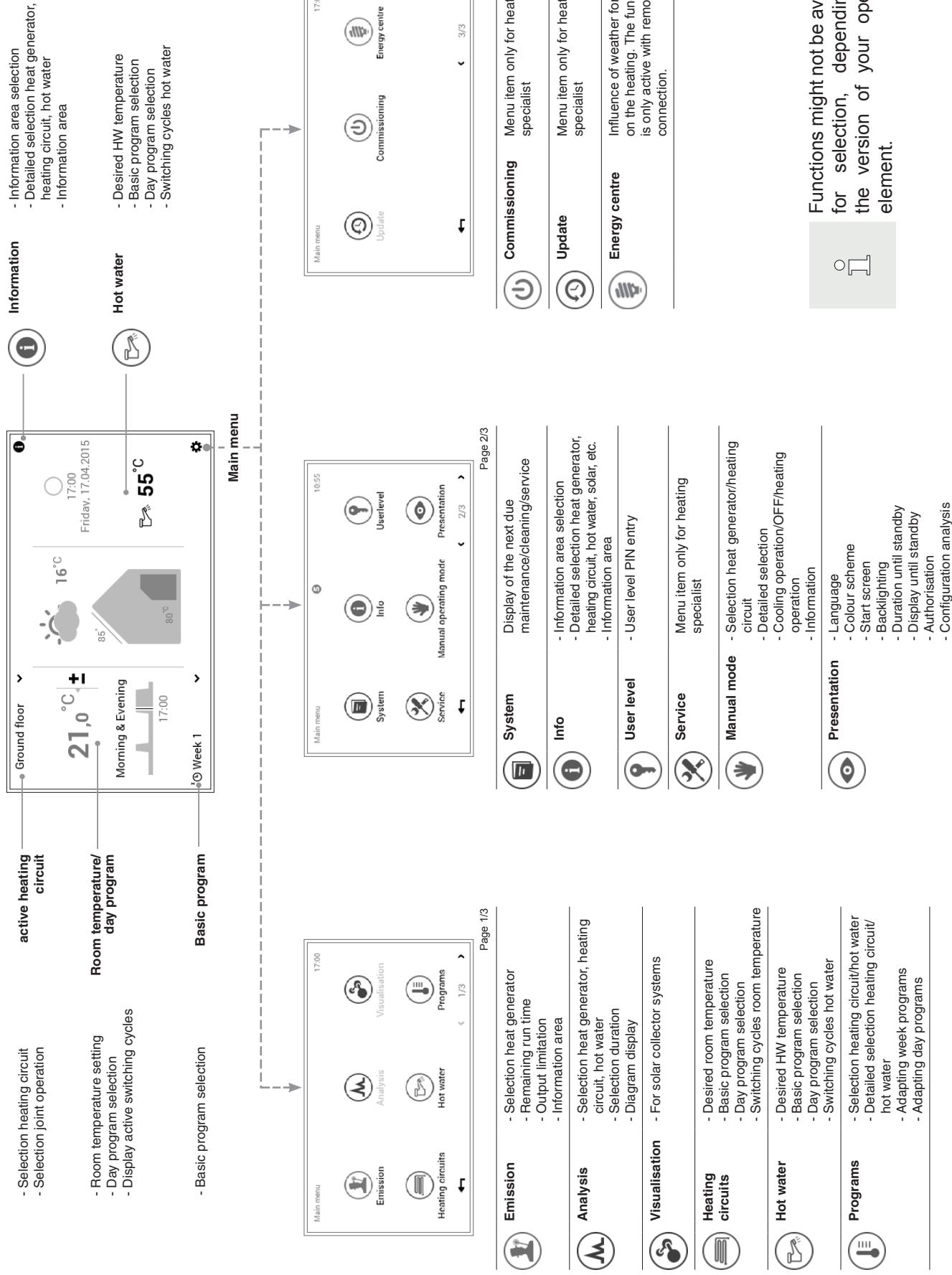
The start screen "Industrial" is usually used in large plants. As a result, only the current heat generator temperature, the water pressure (optional), the desired heat generator temperature and the operating hours are displayed.

Start screen District heating (option)



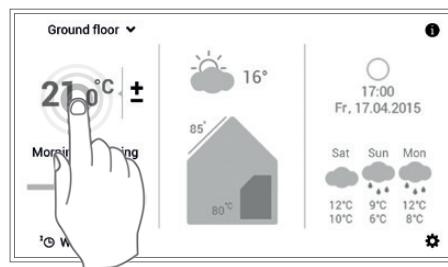
The current power (%), the temperature deviation between desired and current temperature in the graph and, optionally, the current absolute power are displayed.

1.7 Overview of control elements



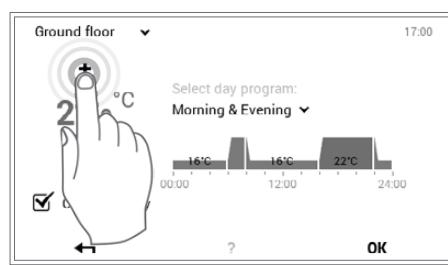
1.8 Main settings

1.8.1 Changing the room temperature

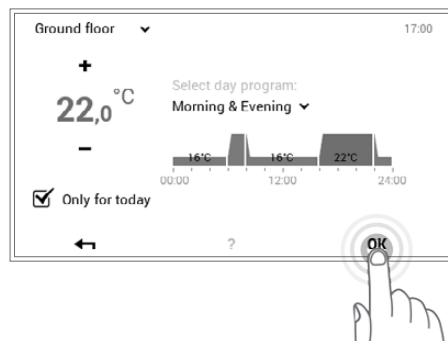


- 1** Touch the displayed **room temperature** to select it.

If there are several heating circuits, make sure that the correct heating circuit is displayed (example: ground floor). See "Selecting heating circuit" in chapter 1.8.3 on page 16.



- 2** Touch the **plus (+)** or **minus (-)** button several times to set the required room temperature.

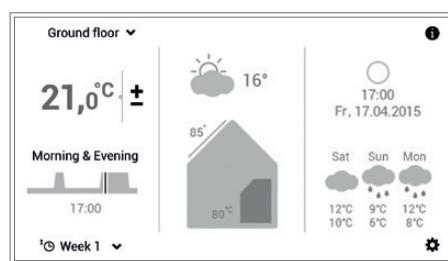


- 3** Accept the settings with **OK**.

The room temperature is only accepted in the active day program up to the end of the current cycle. Deactivate the checkbox for "**Only for today**" to store the change in the active day program.

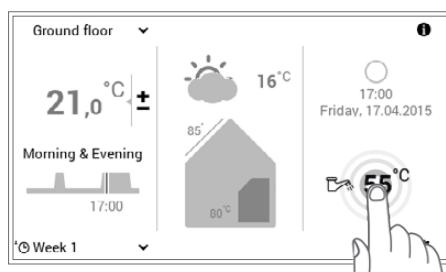


- 4** A change message is displayed. Confirm this with **OK**. Touch the **Back** (**←**) button if you want to edit the settings again.



- 5** The current room temperature is displayed on the start screen and goes up or down until the desired room temperature is reached.

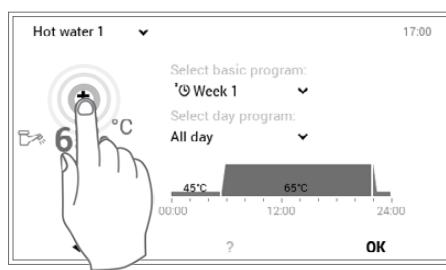
1.8.2 Adapt hot water temperature



- 1** Touch the displayed **water temperature** to select it.



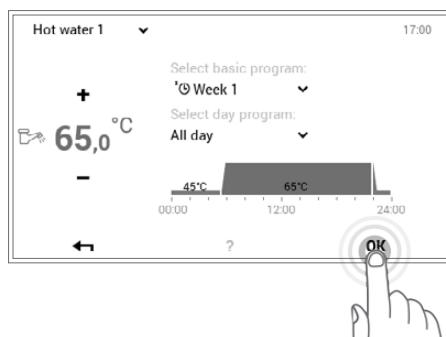
You can also access the function for setting the required water temperature using **Main menu (⚙) > Hot water** (1.13.1 on page 51, no. 5).



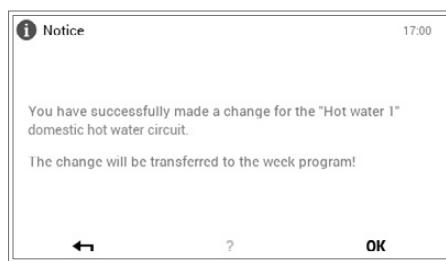
- 2** Touch the **plus (+)** or **minus (-)** button several times to set the required water temperature.



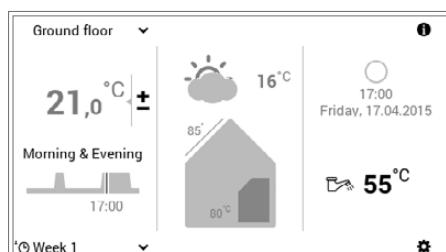
When a day program is active, the hot water temperature is only accepted in the active switching cycle.



- 3** Accept the settings with **OK**.



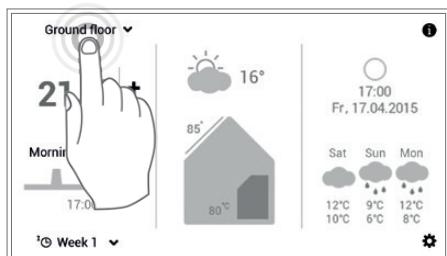
- 4** A change message is displayed. Confirm this with **OK**. Touch the **Back (←)** button if you want to edit the settings again.



- 5** The current hot water temperature is displayed on the start screen and goes up or down until the desired water temperature is reached.

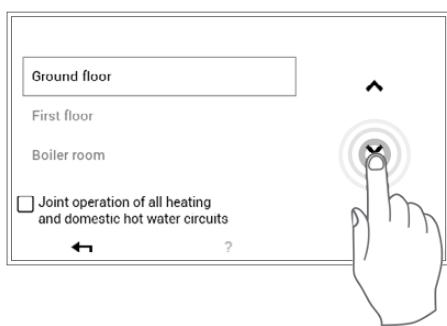
1.8.3 Select heating circuit (if there are several)

- 1** Touch the displayed **heating circuit** to select it (example: ground floor).



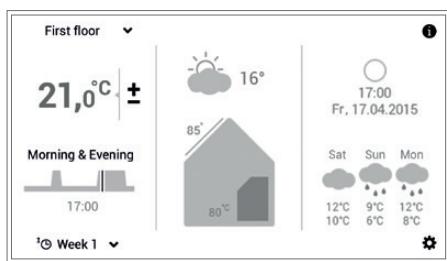
If your system only has one heating circuit, no heating circuit selection is displayed.

- 2** Use the **vertical arrows** ($\wedge \vee$) to select the required heating circuit and confirm with **OK**.



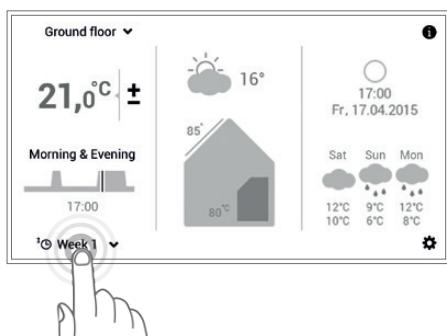
If there are several heating circuits (e.g. apartments), activating the "**Joint operation**" checkbox (1.8.8 on page 20) allows all heating circuits to be controlled jointly. The room temperature, the day program and the basic program are thus changed at the same time in all circuits.

- 3** The selected heating circuit is displayed on the start screen. All settings in the left area of the control module are now accepted for this heating circuit.

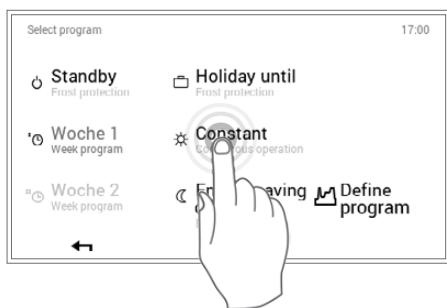


1.8.4 Change the basic program (heating circuit)

- 1** Touch the displayed **basic program** to select it (example: Week 1).



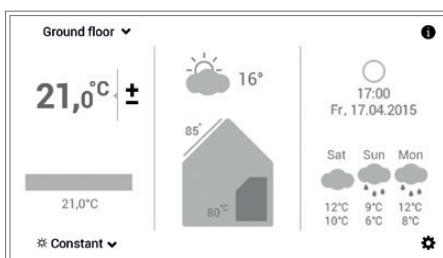
- 2** Select the desired **basic program**.



Individual basic programs additionally require the room temperature or the return date to be entered (1.9.2 on page 22).

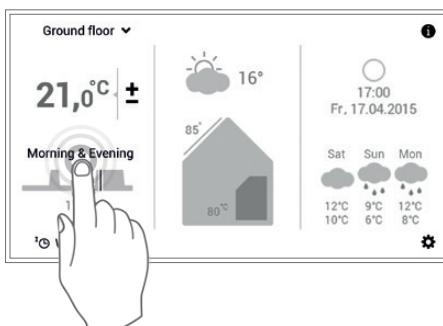


3 A change message is displayed. Confirm this with **OK**.

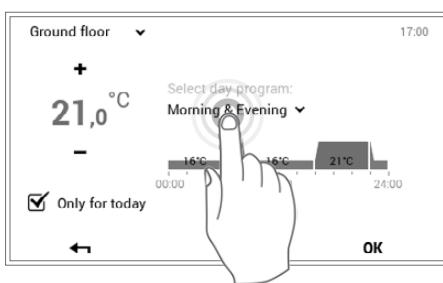


4 The new active basic program is displayed on the start screen.

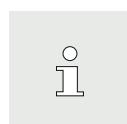
1.8.5 Change active day program (heating circuit)



1 Touch the displayed **day program** to select it (example: morning & evening).



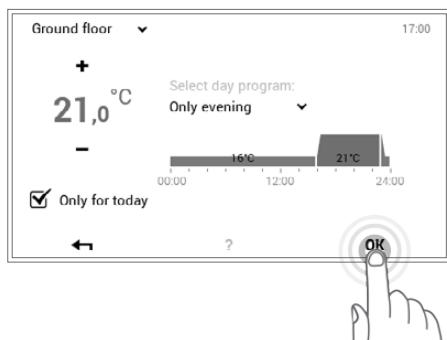
2 Touch the active **day program** to select it.



The adaptation to the day program is only accepted in the active week program for the current day. Deactivate the checkbox for "**Only for today**" to store the change in the week program.



3 Use the **vertical arrows (↑↓)** to select the required day program and confirm with **OK**.

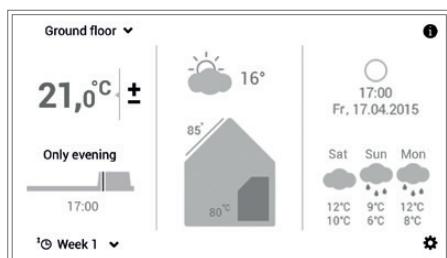


- 4** The selected day program is now displayed with the associated switching cycles as well as the room temperature.

The room temperature can be adapted again after the new desired day program has been selected.

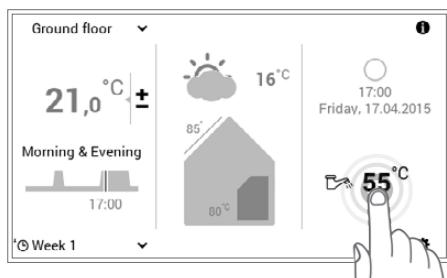


- 5** A change message is displayed. Confirm this with **OK**. Touch the **Back** (◀) button if you want to edit the settings again.



- 6** The new selected day program is displayed on the start screen.

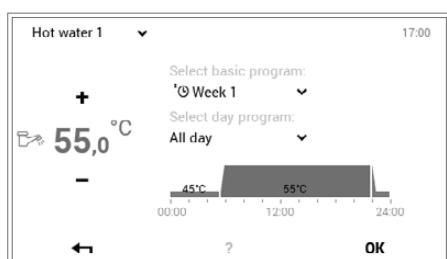
1.8.6 Change basic and day program (hot water)



- 1** Touch the displayed **hot water temperature** to select it.



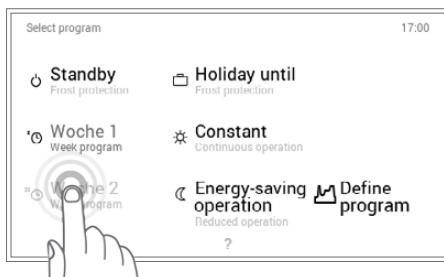
In connection with the TopTronic® E online, the weather forecast is displayed on your start screen as an option. You can also access the function for adapting the required water temperature using **Main menu > Hot water** (1.13.1 on page 51).



- 2** Touch the **hot water basic program** or **hot water day program** to select it.



Hot water basic and day programs are independent from the heating circuit basic and day programs. The hot water basic program can be set to **Week 1**, for example, while the heating operation is heating with the **Constant** setting.



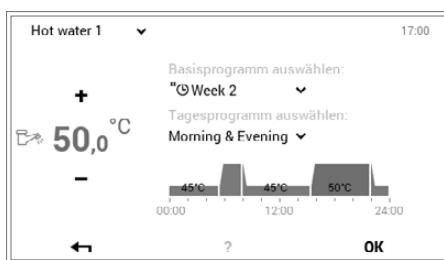
3 Select basic program:

Select the desired hot water basic program.



Select day program:

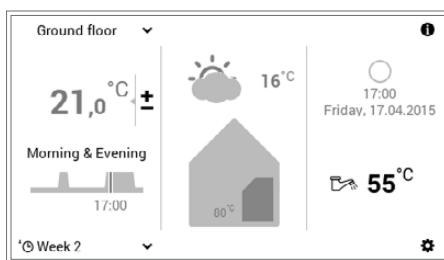
Use the **vertical arrows** (**↑↓**) to select the required hot water day program and confirm with **OK**.



4 The selected basic or day program for water heating is displayed on the menu. Press **OK** to return to the start screen.

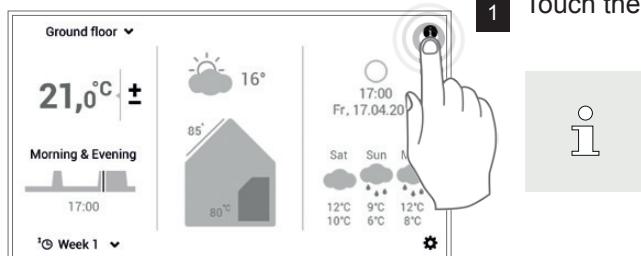


5 A change message is displayed. Confirm this with **OK**.



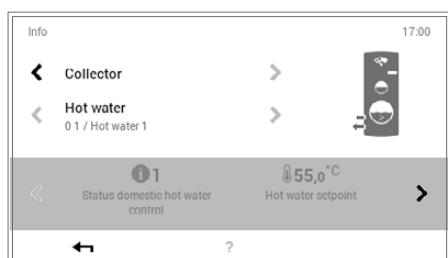
6 The current hot water temperature is displayed on the start screen and goes up or down until the water temperature of the selected basic or day program is reached.

1.8.7 Call up system information



1 Touch the **Info** (i) button to select it.

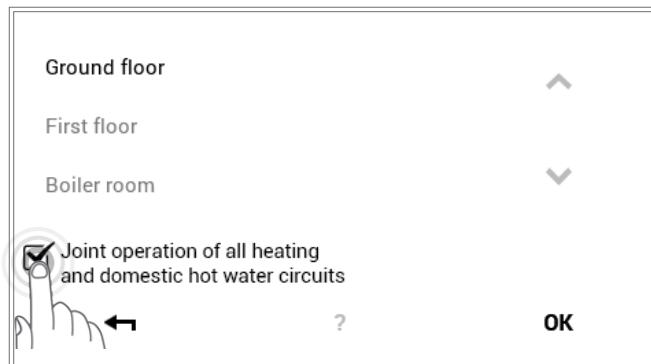
Also use the **Main menu** (⚙) > **Info (page 2)** to access the overview of the system information (1.13.2 on page 52, no. 2).



2 The **Info** menu item is displayed. Information for each system area can be called up here. To do this, use the **horizontal arrows** (↔) to select the corresponding areas. Use the **Back** (⬅) button to exit the menu item. The start screen appears again.

1.8.8 Joint operating mode for heating and hot water circuits

If your system has several heating circuits (e.g. apartments), the TopTronic® E control module offers the "Joint operation of all heating and domestic hot water circuits" function. For the same operating mode to be set for all heating and hot water circuits, it is necessary for the "Joint operation of all heating and domestic hot water circuits" checkbox to be activated (1.8.3 on page 16, no. 2). The room temperature, the day program and the basic program are thus changed at the same time in all circuits.



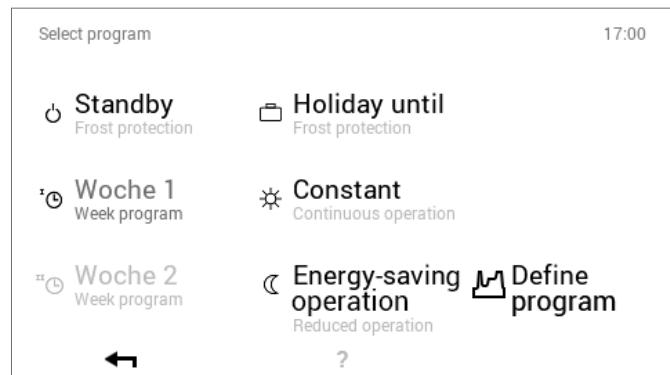
Programs are controlled as follows in joint operation:

Temperature	Synchronisation exclusively in the heating circuits  There is <u>no</u> synchronisation of the hot water temperature during the joint operating mode.
Basic programs	Synchronisation in the heating and hot water circuits
Day programs	Synchronisation exclusively in the heating circuits
"Special day programs" (Party and Absent)	Synchronisation in the heating and hot water circuits

1.9 Basic programs

Basic programs are referred to as the operating modes of the TopTronic® E control and, in contrast to the day programs (1.11 on page 33), they are usually selected for a lengthy period of time. You can thus achieve targeted energy savings by deliberately selecting the right basic program.

The basic programs **Week 1** and **Week 2** are available for recurrent weekly rhythms. Here, you can plan your individual week(s) by allocating day programs (1.11 on page 33) and regulate the heating operation specifically. In addition, for example, you can activate the **Standby** basic program if you will be absent for a relatively long period of time. The heating system consequently switches OFF and frost protection is activated. An overview of the functions of the basic programs is presented below.



The TopTronic® E automatically switches to summer disconnection as the outside temperatures rise, thus saving energy. This function requires a fresh air sensor, however.

Refer to 1.8.4 on page 16 for a detailed description of selecting basic programs.

1.9.1 Functions of the various basic programs

Basic program	Possible occasion and functions
I Week 1 Day programs	You go to work during the day from Monday to Friday, and are at home on Saturday and Sunday. <ul style="list-style-type: none"> • Heating operation defined by individual day programs • Hot water operation active in a separate basic program • In the standard program mornings and evenings heating operation at 22 °C, during the day and at night reduced heating operation (16 °C). On Saturdays and Sundays, heating operation during the day at 22 °C and at night reduced heating operation (16 °C). • Mon – Fri = morning & evening / Sat and Sun = all day • For more information about "Week 1", see chapter 1.10 on page 24
II Week 2 Day programs	You are at home all day, every day of the week. <ul style="list-style-type: none"> • Heating operation defined by individual day programs • Hot water operation active in a separate basic program • In the standard program during the day continuous heating operation at 22 °C, at night reduced heating operation (16 °C). On Saturdays and Sundays, heating operation during the day at 22 °C and at night reduced heating operation (16 °C). • Mon – Sun = heating "all day" • For more information about "Week 2", see chapter 1.10 on page 24
Energy-saving operation Reduced operation	You feel comfortable with a slightly lower temperature and you would like to save energy. <ul style="list-style-type: none"> • Continuously reduced 24 h operation • Constant room temperature - optional • Hot water operation active in a separate basic program

 **Constant**
Continuous operation

You would like to heat the rooms during the night, too.

- Room temperature is not reduced during the night
- Constant room temperature - optional
- Hot water operation active in a separate basic program

 **Holiday until**
Frost protection

You are going on holiday for e.g. 1 week and you know the date of your return.

- Heating system OFF
- No hot water operation
- Frost protection activated

 **Standby**
Frost protection

You are travelling for an indefinite period of time in spring or in autumn. It does not matter if the rooms are cold on your return. You do not need warm water on your return.

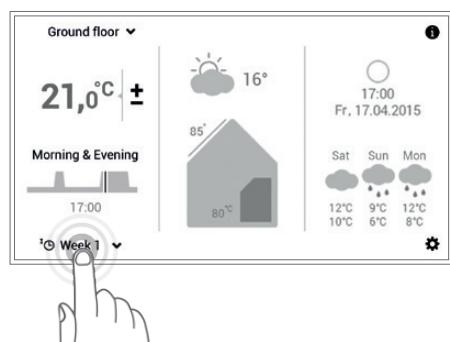
- Heating system OFF
- Frost protection active
- No hot water operation

 If joint operating mode is not active, the "Standby" basic program only acts on the selected heating circuit!

1.9.2 "Holiday until" – enter return date

Switching to the **Holiday until** basic program additionally requires the return date to be entered for automatic resumption of heating operation. On the entered return

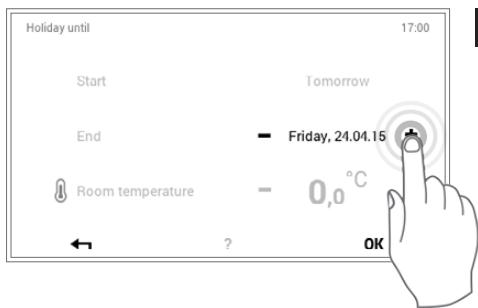
date (0:00 hours), the system switches back to the previously active basic program.



1 Touch the displayed **basic program** to select it (example: Week 1).

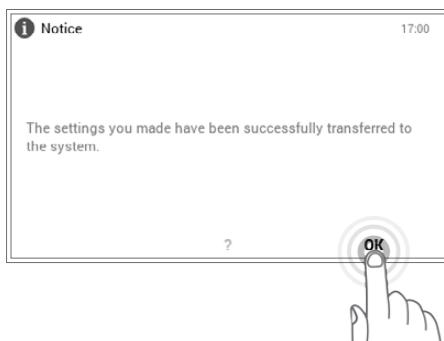


2 Select the **Holiday until** basic program.

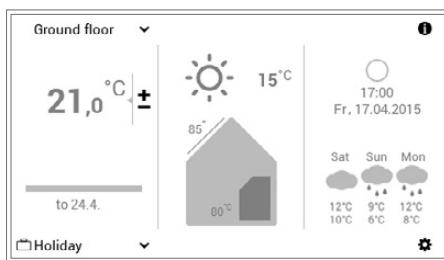


- 3** Touch the **plus (+)** button several times or select the **current date** to select the required return date (end). Accept the settings with **OK**.

Start: the system is switched OFF at 0:00 hours (frost protection activated).



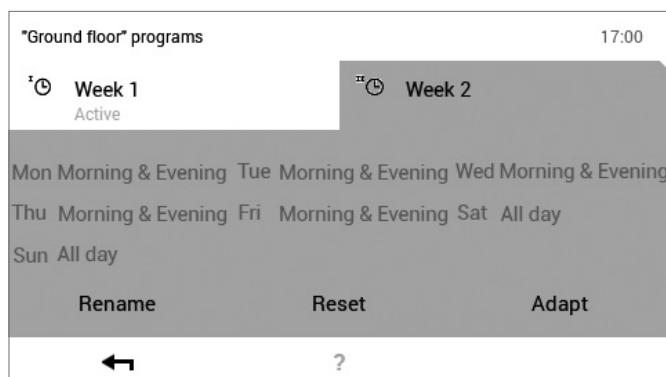
- 7** A change message is displayed. Confirm this with **OK**.



- 8** The newly selected basic program is displayed on the start screen.

1.10 Week programs

The **Week 1** and **Week 2** operating modes integrated in the basic programs are referred to as week programs. These enable you to plan your individual weekly rhythm (example: working week, early shift, late shift, etc.). To make the selection easier for you, it is possible to edit the names of the week program individually. In this case, each day of the week keeps its own day program with integrated switching cycles (1.11 on page 33). You can also adapt these to your personal requirements and assign them to the week program.



Refer to 1.10.4 on page 27 for a detailed description of editing the week programs.



1.10.1 Week program default settings

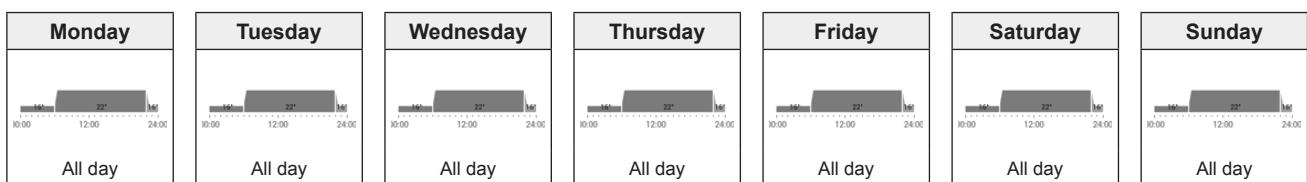
The predefined week programs (Week 1 and Week 2) are used as default settings and can be activated using the **Week 1** and **Week 2** basic programs as operating mode. They can be edited individually (1.10.4 on page 27) and renamed (1.10.5 on page 29). Changed week programs can be reset to the default settings (see below) (1.10.6 on page 31).

Resetting the week programs does not reset the day programs they include!

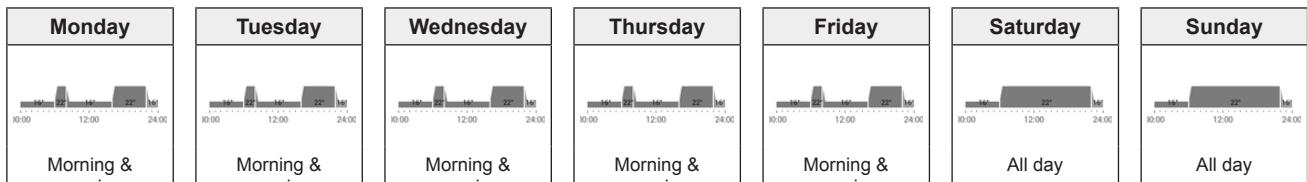


Week program default settings:

Week 1



Week 2



Attention: Each heating circuit has two week programs. These can be composed of five different day programs (1.11 on page 33). These day programs only apply in the particular heating circuit and are independent from the programs in other circuits!



1.10.2 Notes on personal week programs

For a clear display of the week programs that you have created, you will find two empty tables below in which you can record the day programs that you have stored.



For heating systems with several heating circuits, please make a **copy** of the empty tables.

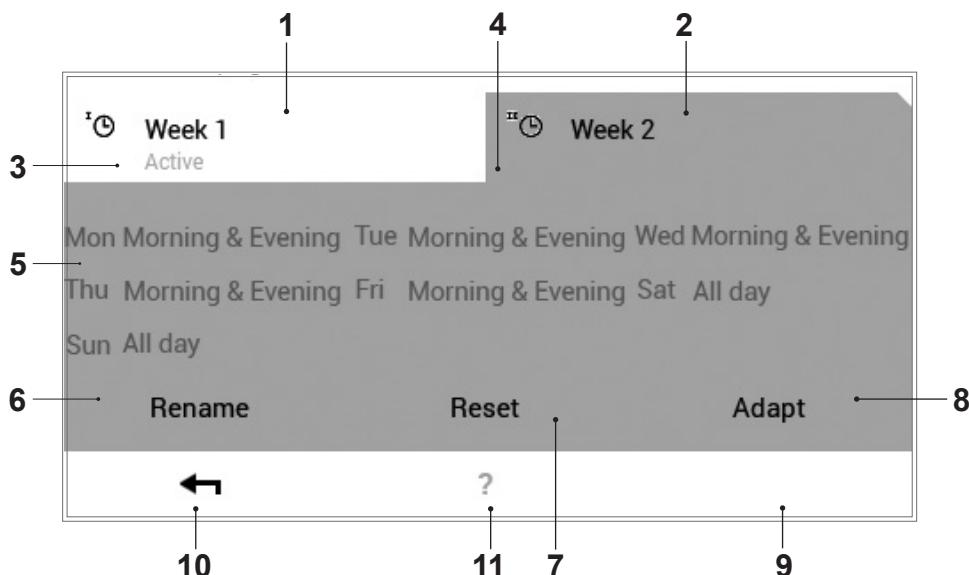
Week program 1: _____

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Day program:						

Week program 2: _____

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Day program:						

1.10.3 Week program operating elements

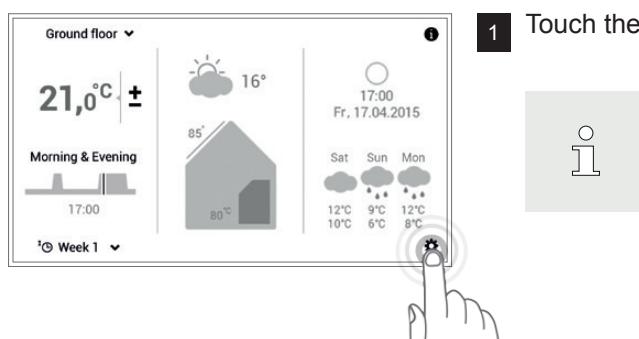


No.	Designation	Function
1	Week program 1	Heating program with individual week cycle 1
2	Week program 2	Heating program with individual week cycle 2
3	Active week program in heating circuit	Displays the active week program in the heating circuit. The message is not displayed if neither of the two week programs is operating.
4	For editing active week program	Marks the week program selected for editing (rename / reset / adapt).
5	Defined week cycle	Day programs assigned to the week days. The seven assigned day programs thus make up the week cycle or the week program.
6	Rename	Individual renaming of the selected week program (1.10.5 on page 29)
7	Reset	Reset the selected week program to the default settings (1.10.6 on page 31)
8	Adapt	Assignment of the day programs to the individual days of the week (1.10.4 on page 27)
9	OK	Save (OK) the changes in the selected week program and return to the previous screen
10	Back	Return (←) to the previous screen. Changes made are not accepted/stored.
11	Help	Summarised information about the screen area shown above



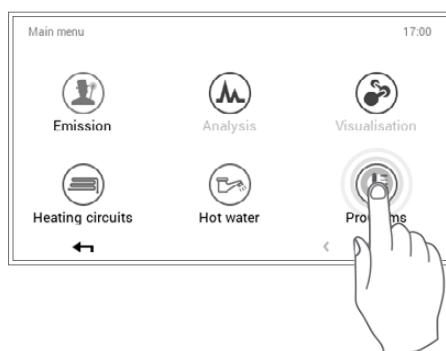
The illustrated screen is the standard view. Various elements can be renamed and adapted by the user in the menu.

1.10.4 Adapt week program

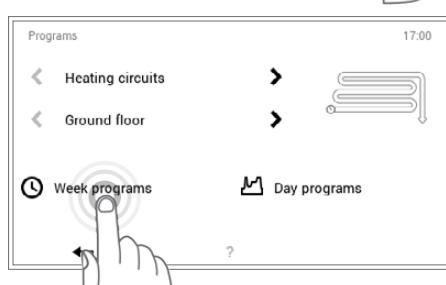


1 Touch the **Main menu** (⚙) button to select it.

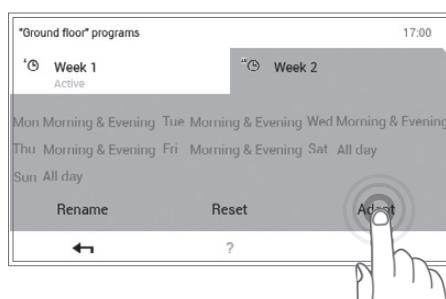
"Adapt week program" is also possible using Basic program
'⌚ Woche 1' > "Define program".



2 Touch the **Programs** button to select it.

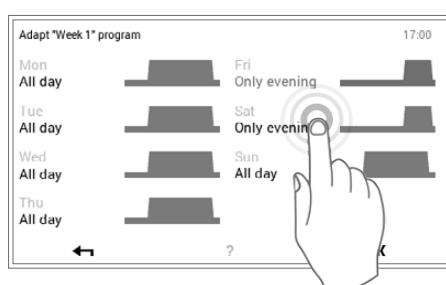


3 The overview for the heating circuit and the program selection appears.
Select the required heating circuit and then **Week programs**.

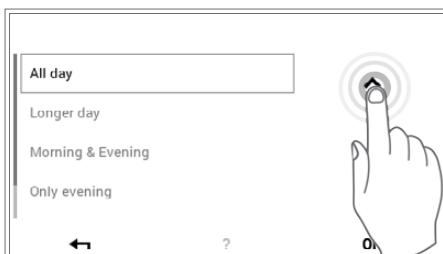


4 Select the required week program (example: Week 2). Touch the **Adapt** button to make settings in the selected week program.

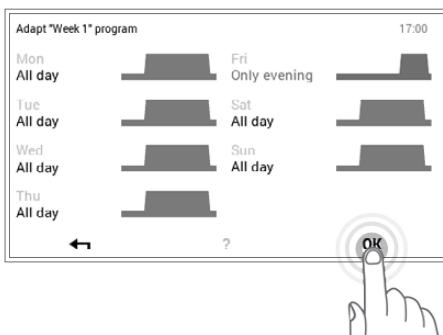
The names of the week programs (Week 1 and Week 2) may be different if they have already been changed.



5 Select the required **week day** to assign a new day program to it.



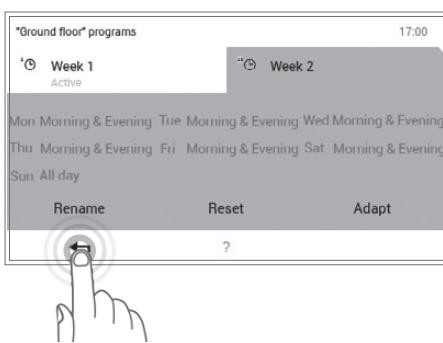
- 6 Use the **vertical arrows** (**^▼**) to select the new day program and confirm with **OK**.



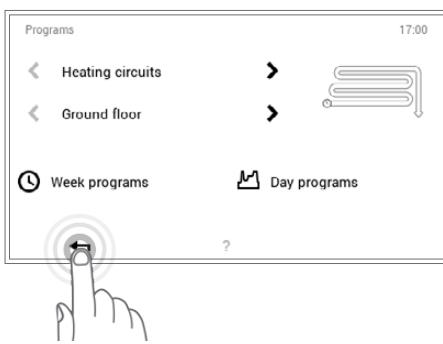
- 7 The overview of the selected week program opens again. Press **OK** to accept the adaptation.



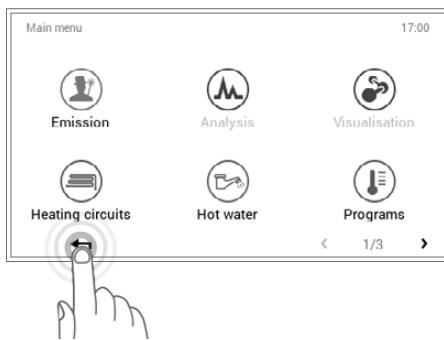
- 8 A change message is displayed. Confirm this with **OK**.



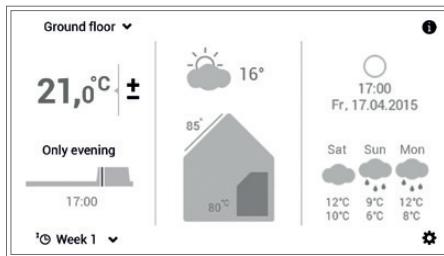
- 9 The adaptations are displayed in the selected week program. Press **Back** (**◀**) to return to the menu item.



- 10 Touch **Back** (**◀**) to close the **Programs** menu item.

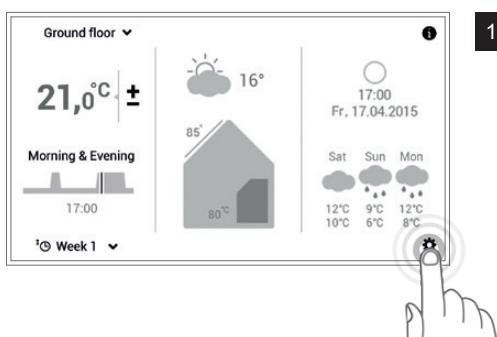


11 Select **Back** () again to close the main menu.

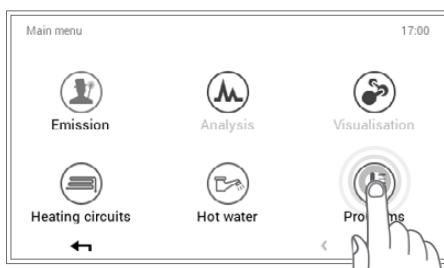


12 If the week program is active, the settings are displayed on the start screen.

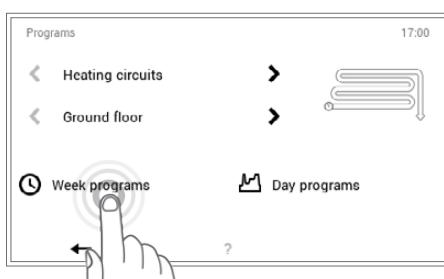
1.10.5 Rename week program



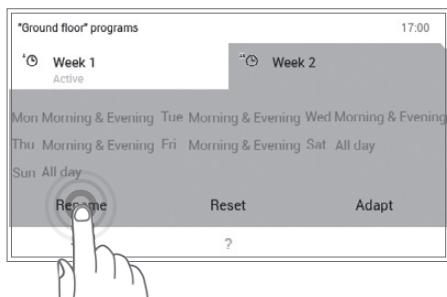
1 Touch the **Main menu** () button to select it.



2 Touch the **Programs** button to select it.



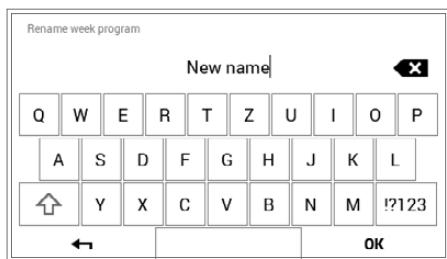
3 The overview for the heating circuit and the program selection appears. Select the required heating circuit and then **Week programs**.



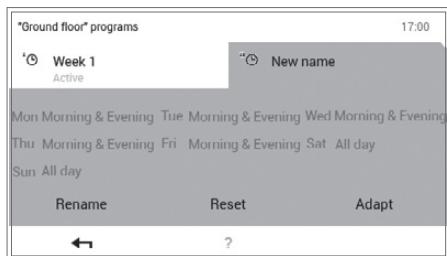
- 4 Select the required week program (example: Week 2). Touch the **Rename** button to select it.



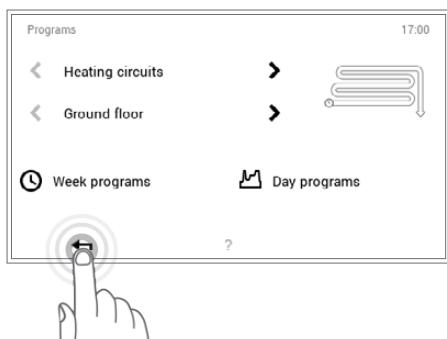
The names of the week programs (Week 1 and Week 2) may be different if they have already been changed.



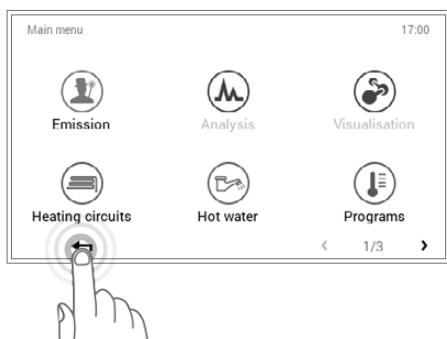
- 5 A **keypad** appears on the screen that you can use for renaming the selected week program. Press **OK** to accept the entry.



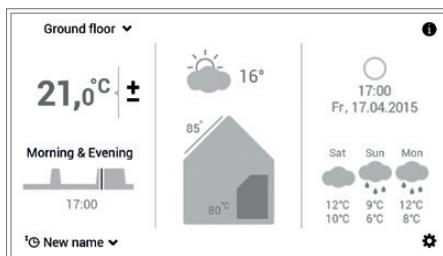
- 6 The new name is displayed in the selected week program. Press **OK** or **Back** () to return to the menu item.



- 7 Touch **Back** () to close the **Programs** menu item.

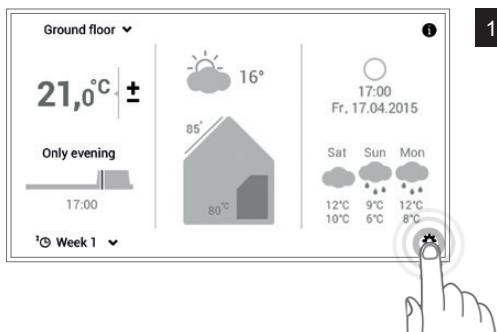


- 8 Select **Back** () again to close the main menu.

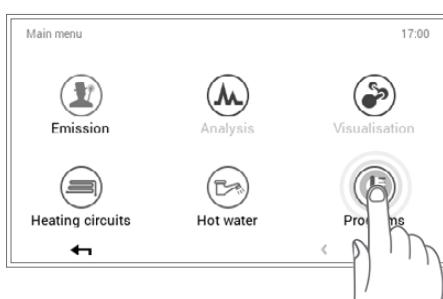


- 9 If the newly named week program is active as the basic program, the new name is displayed on the start screen.

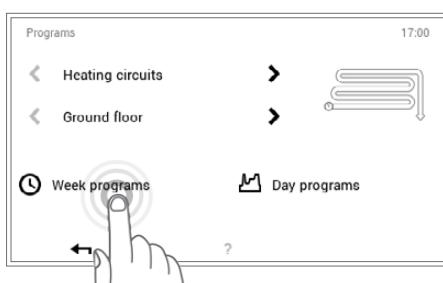
1.10.6 Reset week program



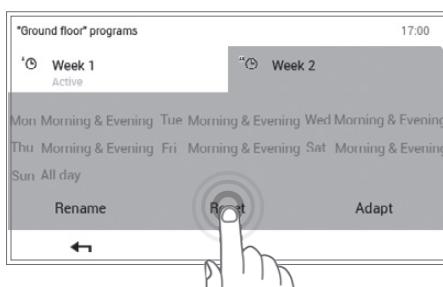
- 1 Touch the **Main menu** (⚙) button to select it.



- 2 Touch the **Programs** button to select it.

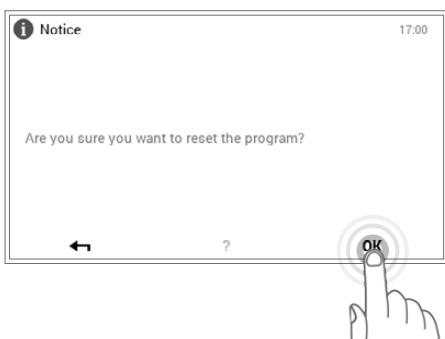


- 3 The overview for the heating circuit and the program selection appears. Select the required heating circuit and then **Week programs**.

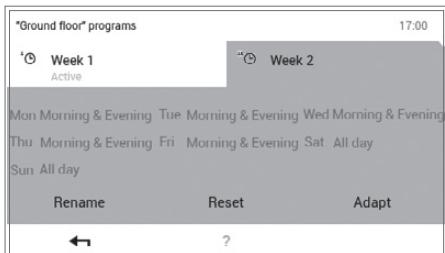


- 4 Select the required week program (example: Week 2). Touch the **Reset** button to reset the settings in the selected week program to their default values.

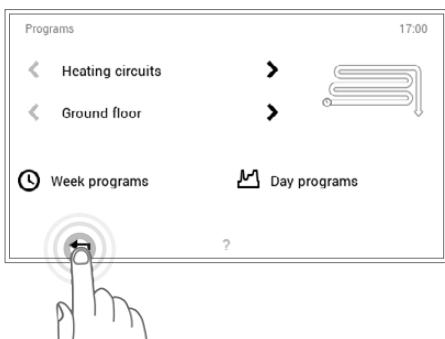
The names of the week programs (Week 1 and Week 2) may be different if they have already been changed.



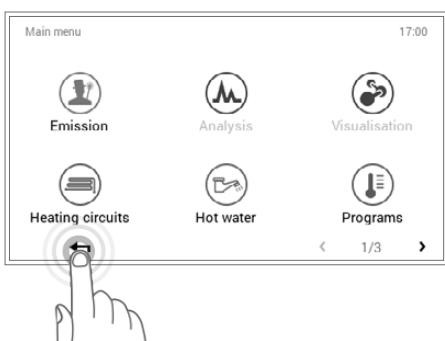
- 5** A confirmation message is displayed. Confirm this with **OK**. Press **Back** (⬅) to go back without resetting the program.



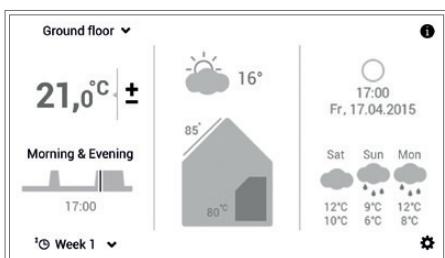
- 6** The pre-programmed standard program is displayed in the selected week program. Press **OK** or **Back** (⬅) to return to the menu item.



- 7** Touch **Back** (⬅) to close the **Programs** menu item.



- 8** Select **Back** (⬅) again to close the main menu.



- 9** If the reset week program is active, the default settings are displayed on the start screen.

1.11 Day programs / switching cycles

cycles

Day programs are elements which are subordinate to the week program and contain what are referred to as switching cycles with corresponding room temperature specifications. You can adapt day programs and switching cycles to meet your particular requirements. Thus, for example, the heat output can be reduced for regular and recurrent periods of absence (e.g. working day) or the temperature can be specifically adapted for absences with different time periods.



- The heating circuit day programs/switching cycles are independent from the hot water day programs (1.12 on page 44).
- The preset day programs with defined switching cycles can be adapted and renamed.
- The switching cycles of a day program are only active if the corresponding week program is selected as the basic program.
- A maximum of six switching cycles are possible for each day program.

1.11.1 Default settings for day programs / switching

Default settings for day programs

Day programs	Switching cycle / temperature			Example
	from	to	°C	
All day	00:00	06:00	16	I work at home and I am present all day.
	06:00	22:00	22	
	22:00	00:00	16	
Longer day	00:00	06:00	16	I am at home all day and I go to bed later in the evening.
	06:00	23:00	22	
	23:00	00:00	16	
Morning & evening	00:00	06:00	16	I go to work at 08:00 hours in the morning and I do not return home until 17:00 hours in the evening.
	06:00	08:00	22	
	08:00	16:00	16	
	16:00	22:00	22	
	22:00	00:00	16	
Only evening	00:00	16:00	16	I do not need any heating in the morning before I set off to work. I get back home at 17:00 hours in the evening.
	16:00	23:00	22	
	23:00	00:00	16	

NEW

from	to	°C
00:00	06:00	16
06:00	08:00	22
08:00	16:00	16
16:00	22:00	22
22:00	00:00	16

I create my own day program and adapt the switching cycles individually to my requirements. I use the switching cycles of the "Morning & evening" day program as a template.

1.11.2 Notes on personal day programs

For a clear display of the day programs that you have created, you will find six tables below in which you can make a note of the stored switching cycles and temperature settings. Please remember that only six day

programs can be recorded in the tables. For systems with several heating circuits, please make a **copy** of the empty tables.

Day program for living area (heating circuit):			
Name of day program	from	to	°C

Day program for living area (heating circuit):			
Name of day program	from	to	°C

Day program for living area (heating circuit):			
Name of day program	from	to	°C

Day program for living area (heating circuit):			
Name of day program	from	to	°C

Day program for living area (heating circuit):			
Name of day program	from	to	°C

Day program for living area (heating circuit):			
Name of day program	from	to	°C

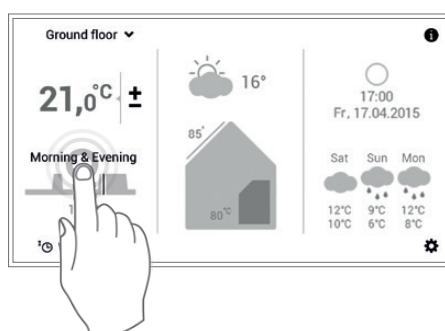
1.11.3 Party and absent

On the TopTronic® E, the day program can be changed at any time when a week program is active (1.8.5 on page 17). If you come home earlier, for example, you can immediately activate the heating with a suitable day

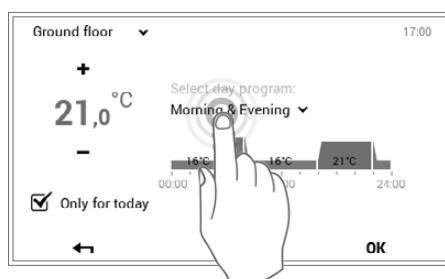
program. Furthermore, if you are going to have a party or if you will be absent for a short time, you can extend or reduce the heating time with the "Party" or "Absent" programs.

Day program	Possible occasion and function
 Party	You have guests in the evening. <ul style="list-style-type: none"> Continued heating operation at the entered room temperature until the end of the desired period of time (duration) The room temperature should not be lowered at the preset time (day program)
 Absent	You leave home in the afternoon and will only come back late in the evening. <ul style="list-style-type: none"> (Reduced) heating operation at the desired room temperature until the end of the entered period of time (duration) Calorifier frost protected (5 °C)

The two "Party" and "Absent" programs can be selected as follows:



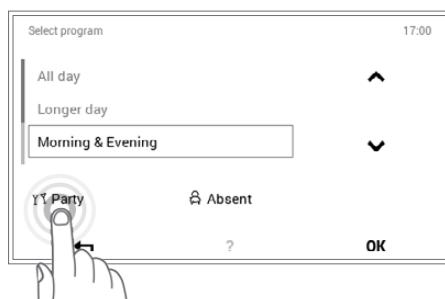
- 1 Touch the displayed **day program** to select it (example: morning & evening).



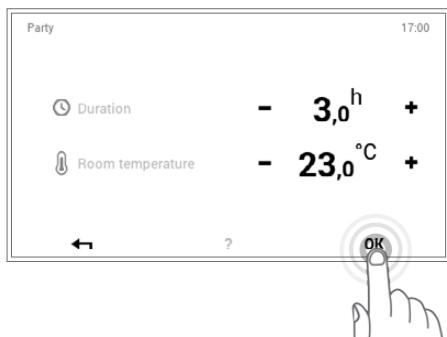
- 2 Touch the active **day program** to select it.



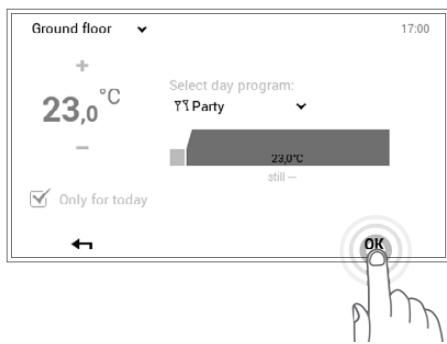
The adaptation to the day program is only accepted in the active week program for the current day. Deactivate the checkbox for "**Only for today**" to store the change in the week program.



- 3 Select the desired program, **Party** or **Absent**.



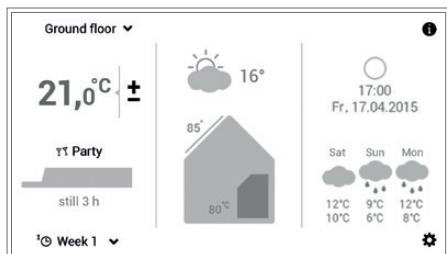
- 4** Press plus (+) and minus (-) to set the required duration and room temperature and confirm with **OK**.



- 5** The active day program and the set room temperature can be seen on the screen. Accept the setting with **OK**.



- 6** A change message is displayed. Confirm this with **OK**. Touch the **Back** (←) button if you want to edit the settings again.

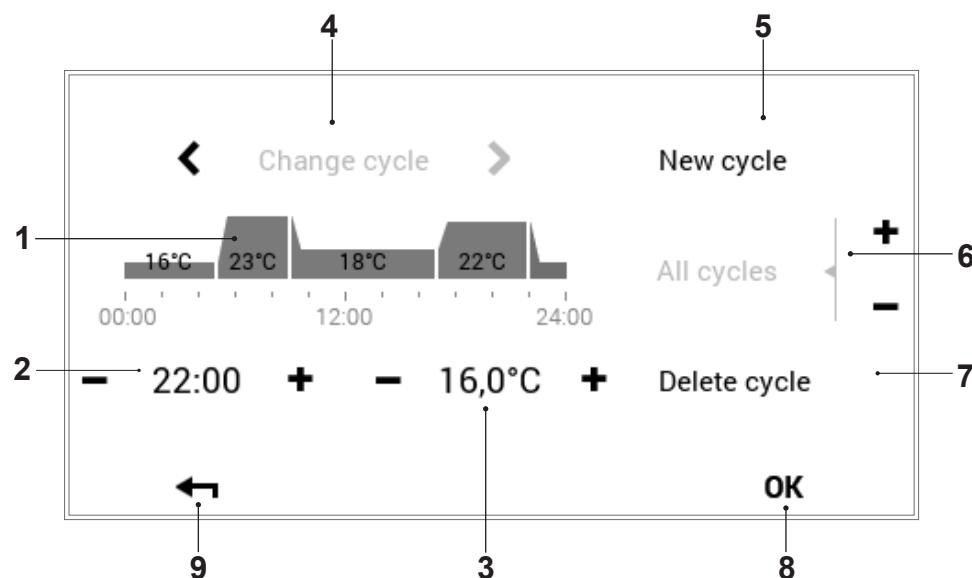


- 7** The new selected day program (Party) is displayed on the start screen.



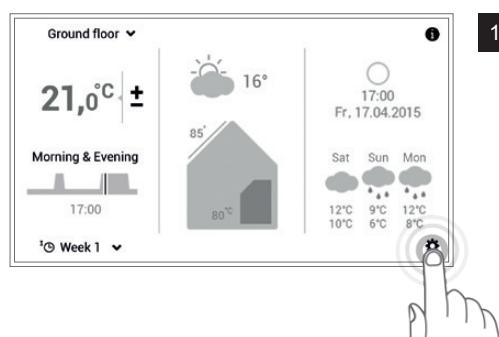
"Party" and "Absent" are special day programs and cannot be included in week programs.

1.11.4 Day program / switching cycles operating elements

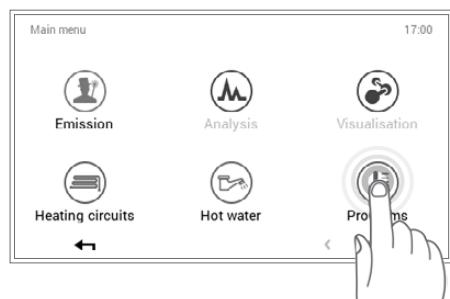


No.	Designation	Function
1	Day program / switching cycles	For adapting the selected day program with time cycles and corresponding temperature specifications. The time period marked in yellow shows the cycle that is active during the editing. The horizontal arrows (< >) are used for selecting the required period of time. Alternatively, the switching cycle to be edited can also be touched directly.
2	Start time – active cycle	Displays the start time of the selected cycle. Changes can be made to the start time using plus (+) and minus (-).
3	Temperature – active cycle	Represents the room temperature defined in the cycle. The temperature can be changed in the active cycle with plus (+) and minus (-).
4	Change cycle	Switch the cycle to be edited to the left or right. Alternatively, the switching cycle to be edited can also be touched directly.
5	New cycle	Create a new time cycle. The new cycle is added at the end of the day program.
6	All cycles	Increase or reduce the temperature of all cycles with plus (+) and minus (-) in the complete day program.
7	Delete cycle	Remove the selected cycle.
8	OK	Save (OK) the changes in the selected day program and return to the previous screen.
9	Back	Return (←) to the previous screen.

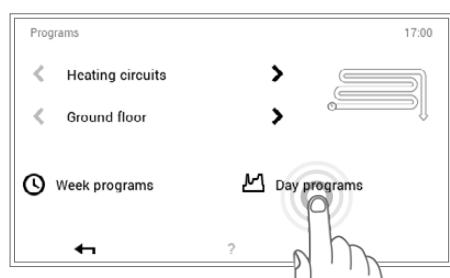
1.11.5 Change room temperatures and switching cycles in the day program



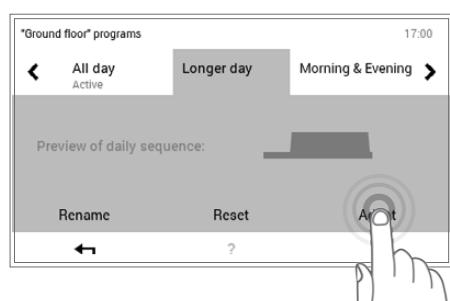
1 Touch the **Main menu** (⚙) button to select it.



2 Touch the **Programs** button to select it.



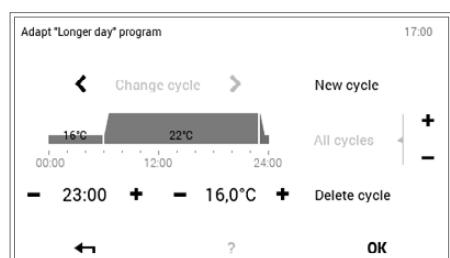
3 The overview for the heating circuit and the program selection appears. Select the required heating circuit and then **Day programs**.



4 Select the desired day program (example: longer day) with the **horizontal arrows** (< >). Touch the **Adapt** button to make settings in the selected day program.



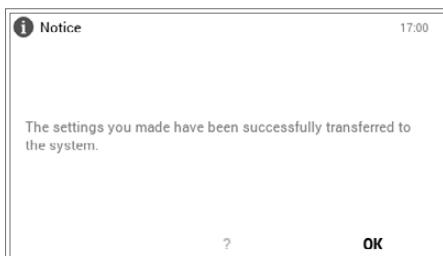
The names of the day programs may be different if they have already been changed.



5 The overview of the selected day program is opened. Various adaptations can be made to the selected day program/switiching cycle using **plus** (+) and **minus** (-). Press **OK** to accept the entry.



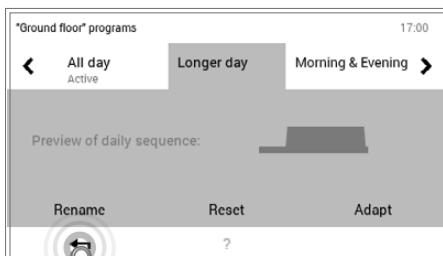
Refer to 1.11.4 on page 37 for a detailed description of the day program overview.



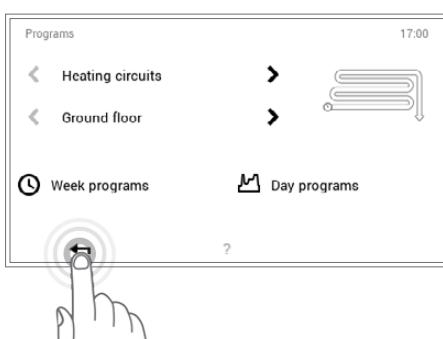
- 6 A change message is displayed. Confirm this with **OK**.



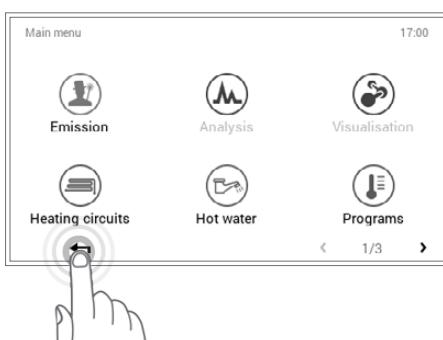
The change now acts both in week program 1 and in week program 2 (on all days of the week to which the changed day program is assigned).



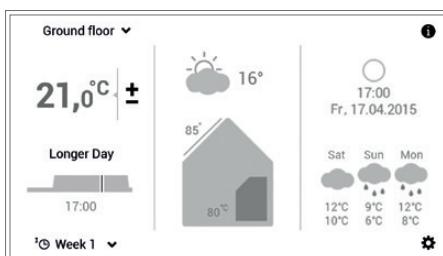
- 7 The adaptations are displayed in the selected day program. Press **Back** (⬅) to return to the menu item.



- 8 Touch **Back** (⬅) to close the **Programs** menu item.

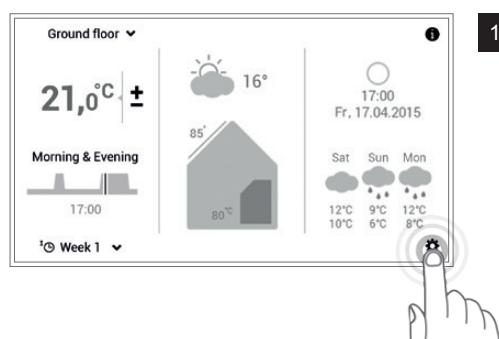


- 9 Select **Back** (⬅) again to close the main menu.

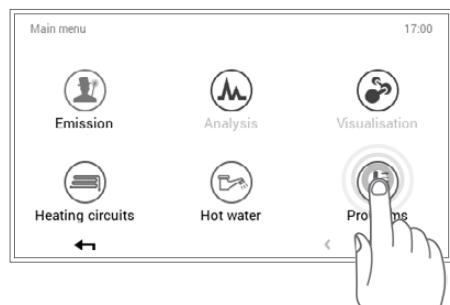


- 10 If the edited day program is active, the settings are displayed on the start screen.

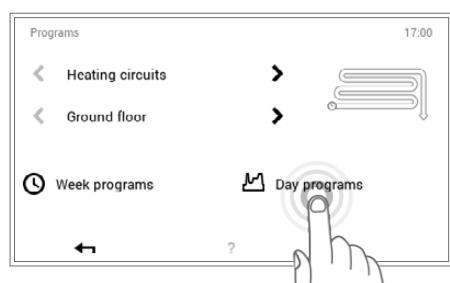
1.11.6 Rename day program



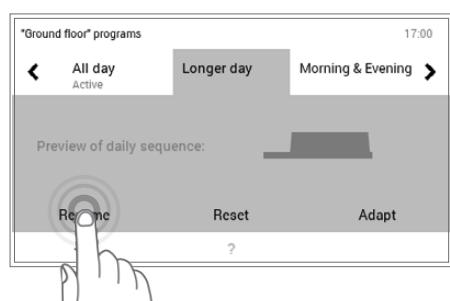
1 Touch the **Main menu** (✿) button to select it.



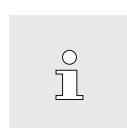
2 Touch the **Programs** button to select it.



3 The overview for the heating circuit and the program selection appears. Select the required heating circuit and then **Day programs**.



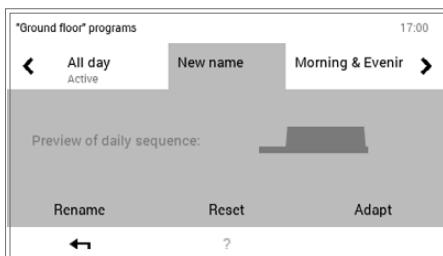
4 Select the desired day program (example: longer day) with the **horizontal arrows** (◀ ▶). Touch the **Rename** button to select it.



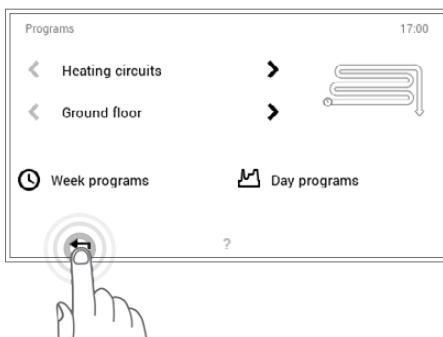
The names of the day programs may be different if they have already been changed.



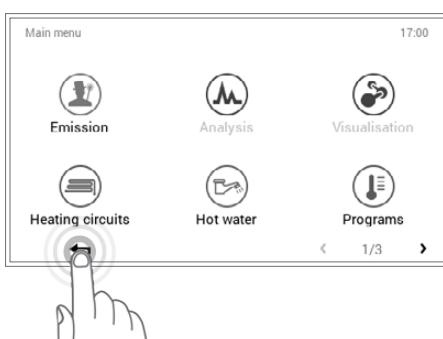
5 A **keypad** appears on the screen that you can use for renaming the selected day program. Press **OK** to accept the entry.



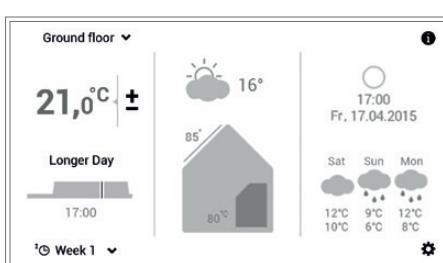
- 6** The new name is displayed in the selected day program. Press **Back** () to return to the menu item.



- 7** Touch **Back** () to close the **Programs** menu item.

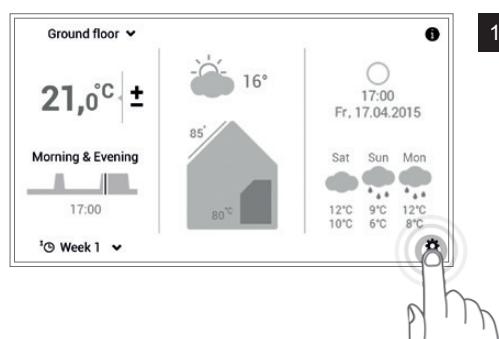


- 8** Select **Back** () again to close the main menu.

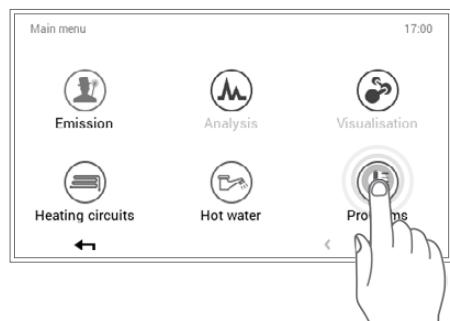


- 9** If the newly named day program is active as the basic program, the new name is displayed on the start screen.

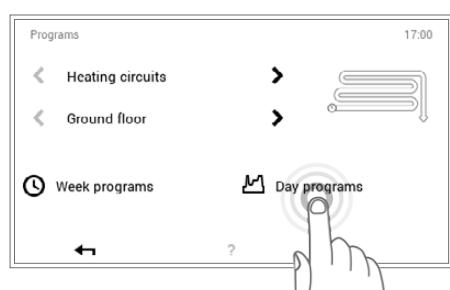
1.11.7 Reset day program



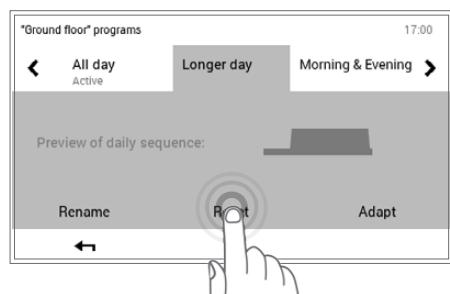
1 Touch the **Main menu** (⚙) button to select it.



2 Touch the **Programs** button to select it.



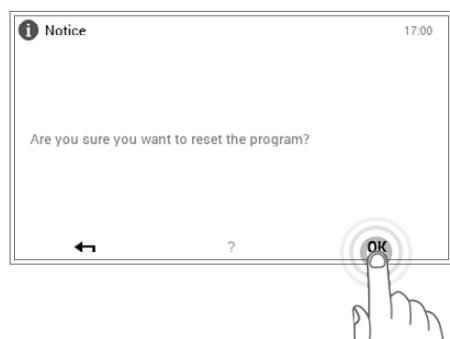
3 The overview for the heating circuit and the program selection appears. Select the required heating circuit and then **Day programs**.



4 Select the desired day program (example: longer day) with the **horizontal arrows** (↔). Touch the **Reset** button to reset the settings in the selected day program to their default values.



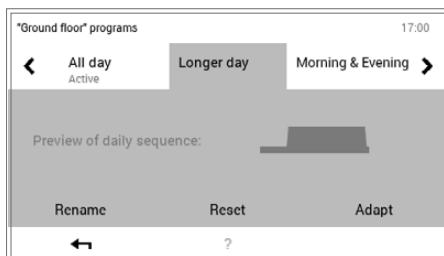
The names of the day programs may be different if they have already been changed.



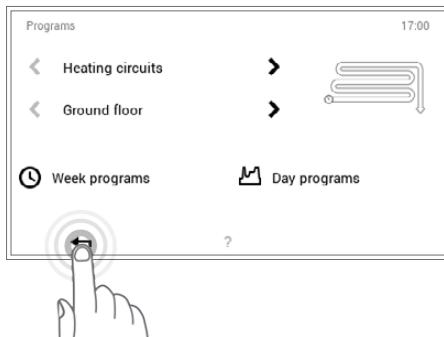
5 A confirmation message is displayed. Confirm this with **OK**. Press **Back** (←) to go back without resetting the program.



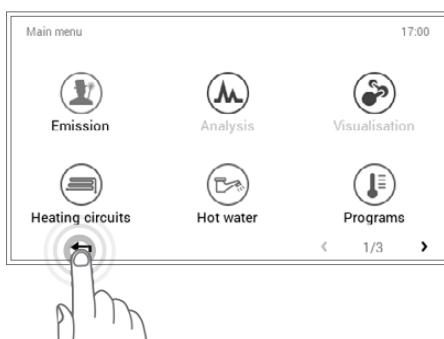
The name, the switching cycles as well as the required room temperatures of the day program are reset to the factory setting. If the reset day program is used in the week program, the factory setting is also active for this.



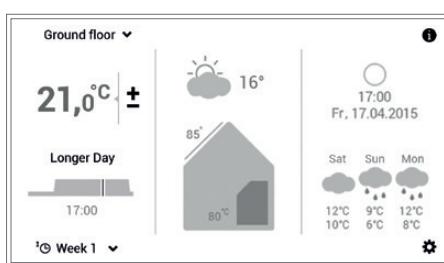
- 6** The pre-programmed standard program is displayed in the selected day program. Press **Back** () to return to the menu item.



- 7** Touch **Back** () to close the **Programs** menu item.



- 8** Select **Back** () again to close the main menu.



- 9** If the reset day program is active, the default settings are displayed on the start screen.

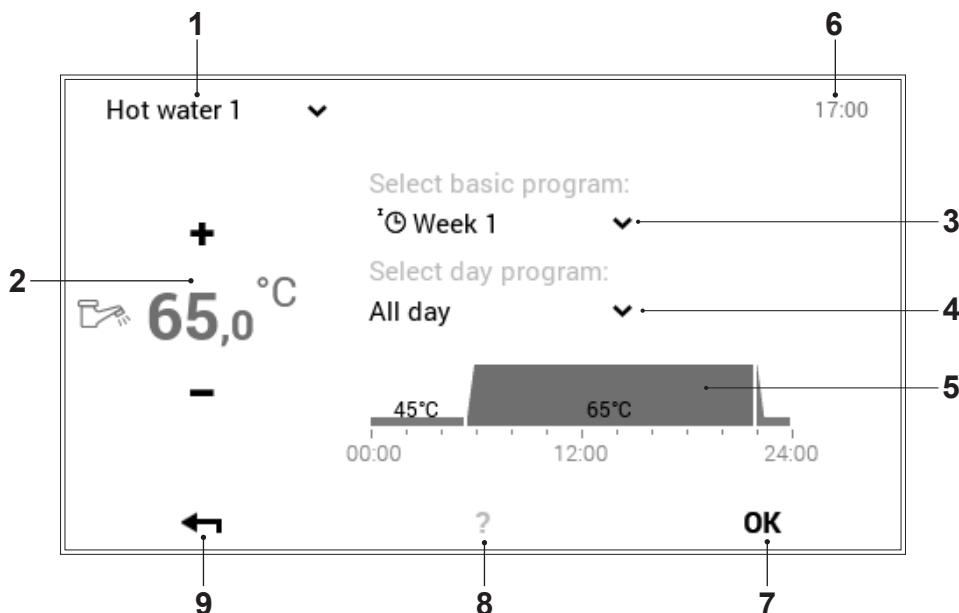
1.12 Hot water

Like in the area of the heating circuits, it is also possible to work with basic, week and day programs for hot water. The hot water programs that can be selected are independent from the heating circuit. Bear in mind that you have to activate each of the basic, week and day programs of the hot water separately (1.8.6 on page 18) and edit them (1.13.6 on page 56, no. 1).



There is no synchronisation of the hot water temperature during the joint operating mode (1.8.8 on page 20).

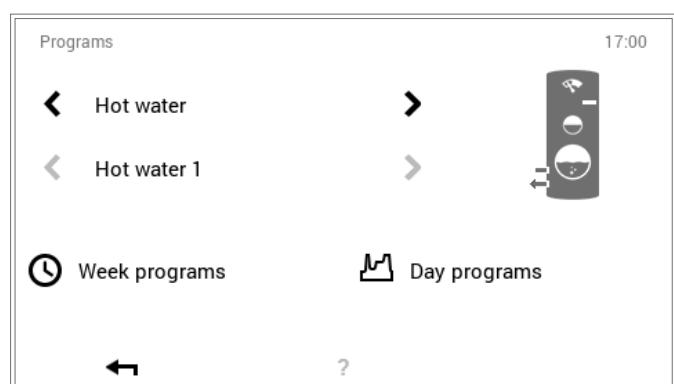
1.12.1 Hot water operating elements



No.	Designation	Function
1	Hot water circuit	Display of the hot water circuit to be edited. Changes to the menu item are only stored in the selected hot water circuit. Use the down arrow (▼) to switch to another hot water circuit in the heating system.
2	Hot water temperature	Represents the hot water temperature desired in the particular switching cycle. The hot water temperature can be changed in the active switching cycle using plus (+) and minus (-).
3	Basic program	Selection of the basic program. Use the down arrow (▼) to select a new program for editing.
4	Day program	Active day program in the week program. Use the down arrow (▼) to change the day program.
5	Switching cycles	Graphical display of the currently selected day program with all time cycles and corresponding temperature specifications. The time period marked in yellow shows the active cycle in which the water temperature can be changed with plus (+) and minus (-).
6	Time of day	Displays the current time.
7	OK	Save (OK) the changes in the selected hot water circuit and return to the previous screen
8	Help	No function is available at present
9	Back	Used as a button (←) for returning to the main menu.

1.12.2 Week programs – hot water

As well as the week and day programs for the heating cycles, the TopTronic® E control module includes additional week and day programs for water heating. The structure of the programs and the functions are identical.



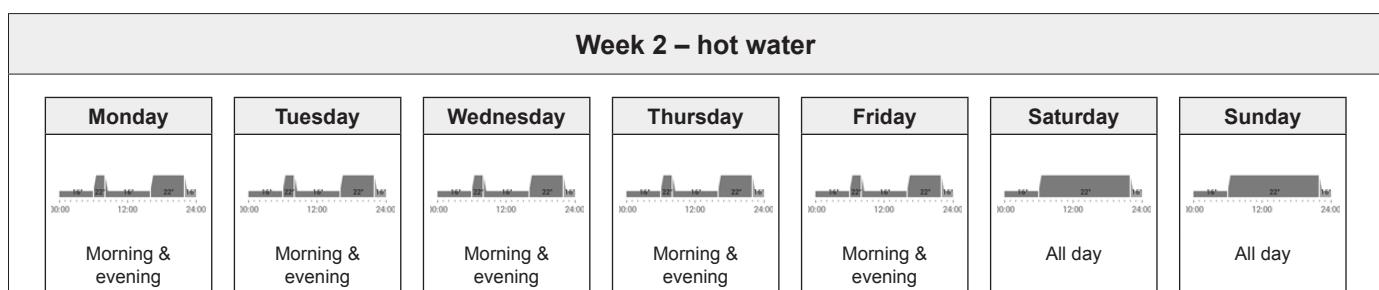
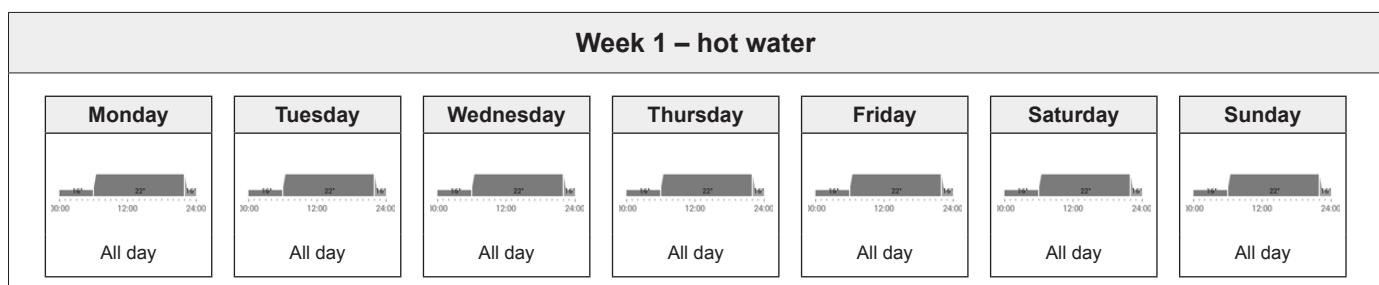
 The settings can be made using **Main menu** (⚙️) > **Programs**. For a detailed description, refer to 1.13.6 on page 56, no. 1.

1.12.3 Week program default settings – hot water

The following week programs are used as default settings and can be activated with **Main menu** (⚙️) > **Hot water**. The two week programs can be individually edited (1.13.6 on page 56), renamed (1.13.6 on page 56) and reset (1.13.6 on page 56).

 Resetting the week programs does not reset the day programs they include!

Week program default settings – hot water:



 Attention: Each hot water circuit has two week programs. These can be composed of five different day programs (1.12.4 on page 46). These day programs only apply in the particular hot water circuit and are independent from the programs in other circuits!

1.12.4 Day programs / switching cycles for hot water

You can adapt the hot water day programs and switching cycles to your individual requirements and, in this way, control the water heating specifically for the required time period and hot water temperature if you use the hot water on a regular basis, for example.



- The hot water day programs/switching cycles are independent from the heating circuit day programs (1.11 on page 33).
- The preset day programs with defined switching cycles can be adapted and renamed.
- The switching cycles of a day program are only active if the corresponding week program is selected as the basic program.
- A maximum of six switching cycles are possible for each day program.

1.12.5 Default settings for day programs / switching cycles – hot water

In the factory setting, the names and the switching cycles of the hot water day programs are predefined as with the heating circuits. Two of these standard day programs (all day and morning & evening) are assigned to both week programs **Week 1** and **Week 2**. If you adapt these two day programs to your individual requirements, you need to consider that both week programs are also changed (1.12.2 on page 45). You can edit the default settings listed below as you require (1.13.6 on page 56), rename them at any time (1.13.6 on page 56) and reset to the default settings (1.13.6 on page 56).

Default settings for day programs – hot water:

Day programs	Switching cycle / temperature			Example
	from	to	°C	
All day				I work at home and I am present all day.
	00:00	06:00	45	
	05:30	22:00	50	
	22:00	00:00	45	
Morning & evening				I go to work at 08:00 hours in the morning and I do not return home until 17:00 hours in the evening.
	00:00	05:30	45	
	05:30	08:00	50	
	08:00	15:30	45	
	15:30	22:00	50	
	22:00	00:00	45	
Only evening				I do not need any hot water in the morning before I set off to work. I get back home at 17:00 hours in the evening.
	00:00	15:30	45	
	15:30	22:00	50	
	22:00	00:00	45	
All day legio				I work at home and I am present all day. In addition, the legionella function is active (1.12.6 on page 47).
	00:00	05:30	45	
	05:30	15:30	50	
	15:30	16:30	60	
	16:30	22:00	50	
	22:00	00:00	45	

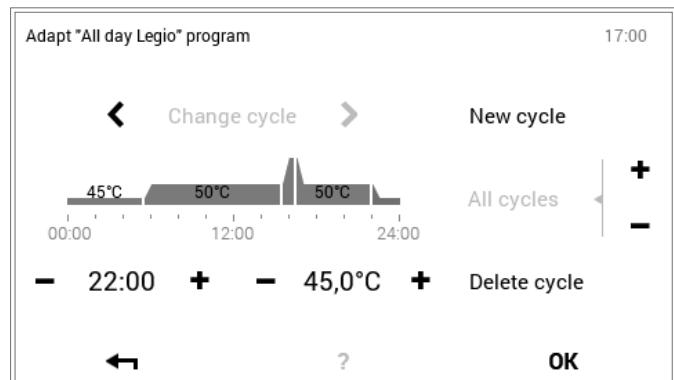
NEW

from	to	°C
00:00	05:30	45
05:30	08:00	50
08:00	15:30	45
15:30	22:00	50
22:00	00:00	45

I create my own day program and adapt the switching cycles individually to my requirements. I use the switching cycles of the "Morning & evening" day program as a template.

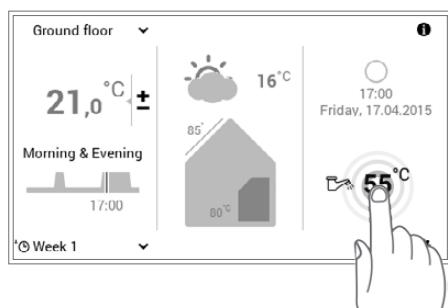
1.12.6 Legionella function

Legionella are bacteria that can cause Legionnaire's disease. The optimum conditions for these bacteria to exist are hot water that is kept between 25 and 50 °C for long periods. Legionella are killed off when the full content of the water tank is heated through to 60 °C. The TopTronic® E control module includes a separate hot water day program (all day legio) that can be activated once a week in the week program.

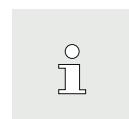


The legionella function can be activated in the **Main menu (⚙) > Programs** (1.13.6 on page 56) by allocating the "all day legio" day program in the week program.

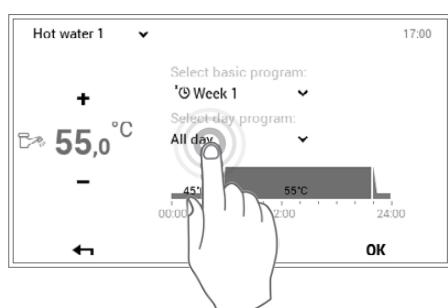
1.12.7 Recharging hot water



- 1** Touch the displayed **water temperature** to select it.



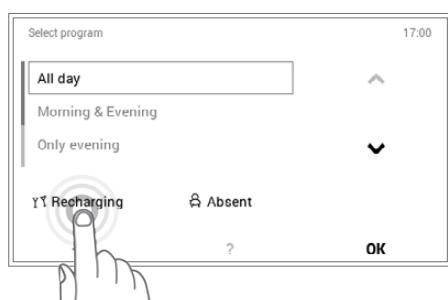
In connection with the TopTronic® E online, the weather forecast is displayed on your start screen as an option. You can also access the function for adapting the required water temperature using **Main menu > Hot water** (1.13.1 on page 51).



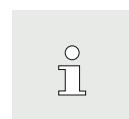
- 2** Touch the active **hot water day program** to select it.



The hot water day program is independent from the heating circuit day program. For example, it can be set to "morning & evening" while the heating operation is running with "all day".



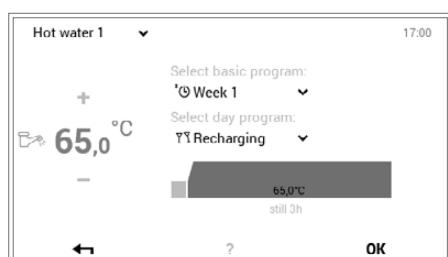
- 3** In the program selection, select the **Recharging** button.



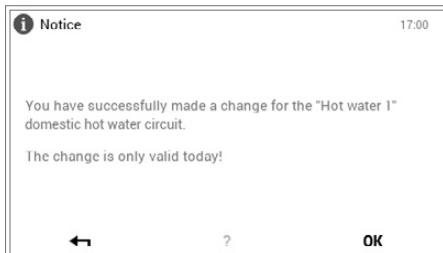
With "Recharging", it is possible to heat additional hot water. The duration and the hot water temperature can be set individually.



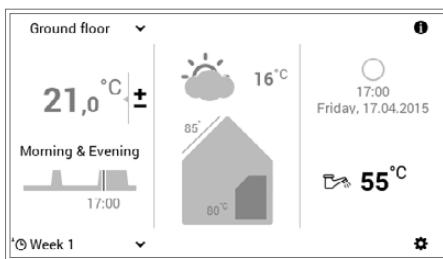
- 4** Press **plus (+)** and **minus (-)** to set the required duration and water temperature for recharging. Press **OK** to accept the settings.



- 5** Hot water recharging is shown in the menu. Confirm the entries with **OK**.

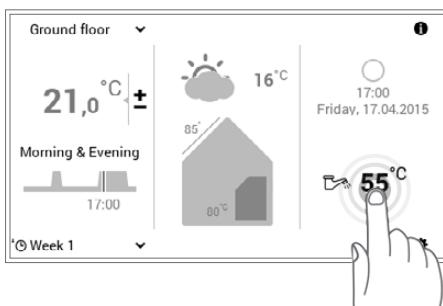


- 6 A confirmation message is displayed. Confirm this with **OK**. Touch the **Back** (⬅) button if you want to edit the settings again.



- 7 The current hot water temperature is displayed on the start screen and goes up or down until the desired water temperature of the recharging is reached.

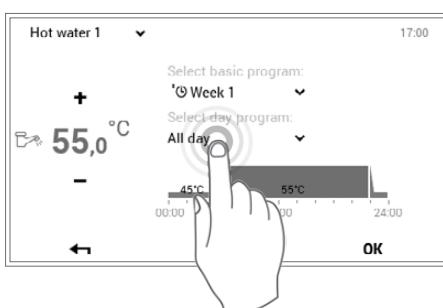
1.12.8 Set hot water program to absent



- 1 Touch the displayed **hot water temperature** to select it.



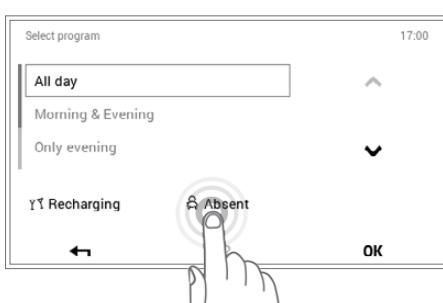
In connection with the TopTronic® E online, the weather forecast is displayed on your start screen as an option. You can also access the function for adapting the required water temperature using **Main menu > Hot water** (1.13.1 on page 51).



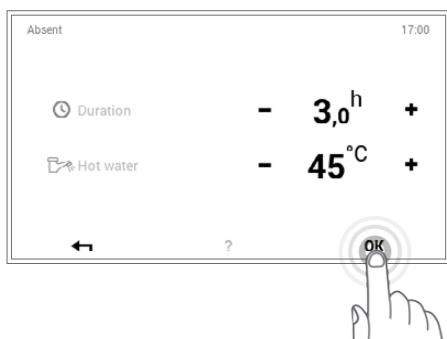
- 2 Touch the active **hot water day program** to select it.



The hot water day program is independent from the heating circuit day program. For example, it can be set to "all day" while the heating operation is running with "morning & evening".



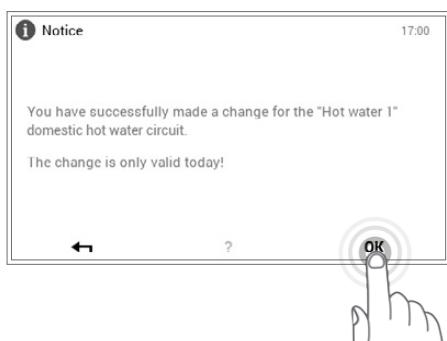
- 3 In the program selection, select the **Absent** button.



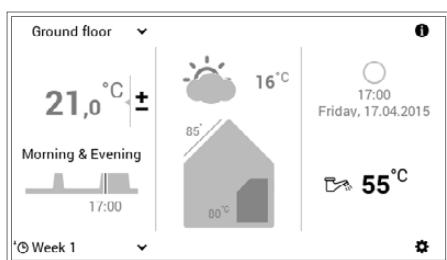
- 4** Press **plus (+)** and **minus (-)** to set the required duration of the absence as well as the desired water temperature. Press **OK** to accept the settings.



- 5** **Absent** is shown in the menu. Confirm the entries with **OK**.



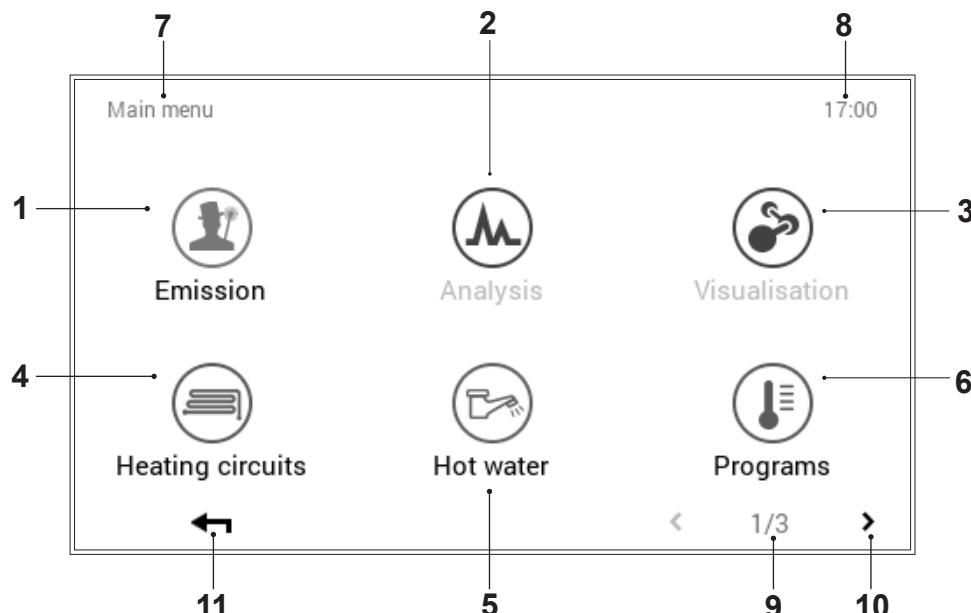
- 6** A confirmation message is displayed. Confirm this with **OK**. Touch the **Back (←)** button if you want to edit the settings again.



- 7** The current hot water temperature is displayed on the start screen and goes up or down until the desired water temperature for the absence is reached.

1.13 Other operating elements

1.13.1 Main menu view 1

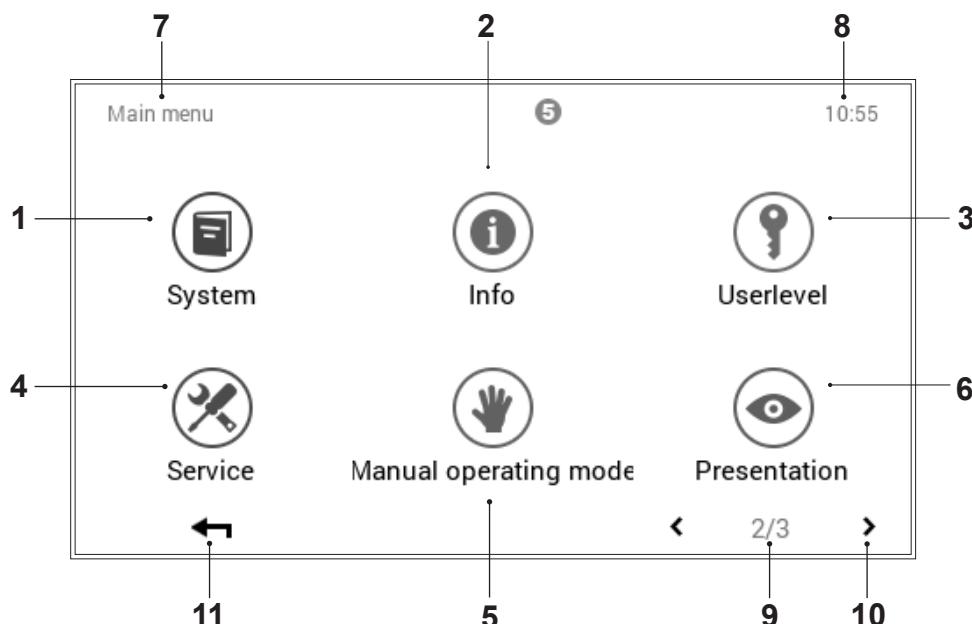


No.	Designation	Function
1	Emission metering	For heating specialist: setting the emission output limitation
2	Analysis	Analysis for the heat generator(s), heating circuits and the hot water
3	Visualisation	For heating specialist: not available with all heat generators
4	Heating circuits	Display and editing possibility of the selected heating circuit. Depending on the structure of the system, it is possible to select between one or more heating circuits. Information about the active operating and day program (1.13.7 on page 57)
5	Hot water	Display and editing possibility of the selected hot water circuit. Depending on the structure of the system, it is also possible to select between one or more circuits in the hot water area. Specifications regarding an active operating and day program with adapted hot water temperature (1.12.1 on page 44)
6	Programs	Menu item for adapting week and day programs in the selected heating or hot water circuit (1.13.6 on page 56)
7	Position in the menu	Name of the currently selected menu item
8	Time of day	Displays the current time.
9	Page in the main menu	Display of the active main menu page (1)
10	Scroll	Arrow (>) for navigating from main menu page 1 to main menu page 2
11	Back	Used as a button (←) for returning to the start screen.

Individual menu items are active or inactive depending on the type of control module.



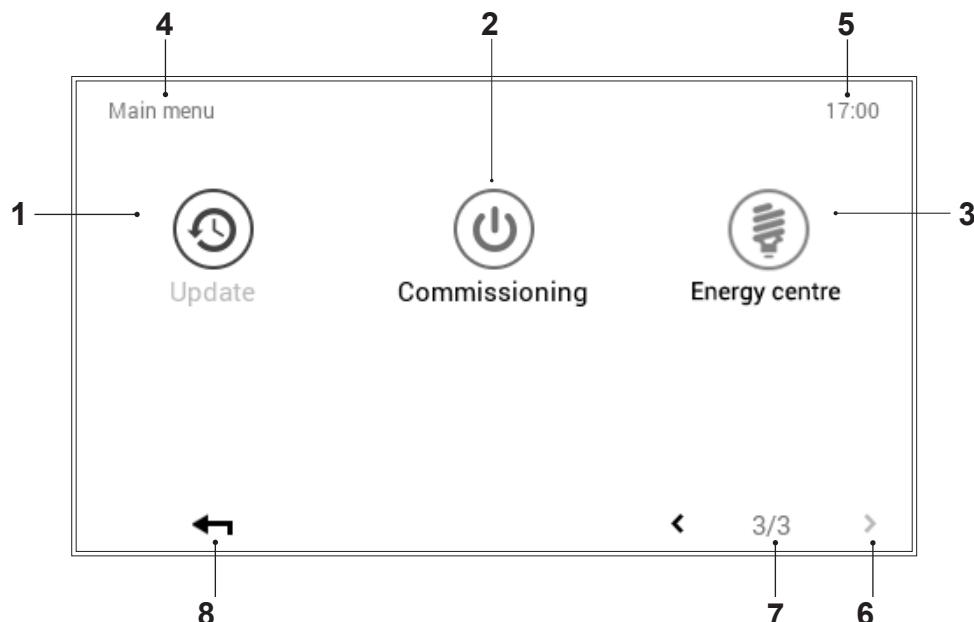
1.13.2 Main menu view 2



No.	Designation	Function
1	System	Provides information about maintenance, service and cleaning of the system.
2	Info	Display of various information about the system regarding the heat generator, heating circuit, hot water and solar. Bear in mind that a system may include several heat generators and heating or hot water circuits (1.13.8 on page 58).
3	User level / authorisation level	For heating specialist: Releasing the authorisation level by entering the particular password
4	Service	For heating specialist: menu item for making adaptations to system settings
5	Manual mode	The heat generators, heating circuits and hot water circuits in the heating system can be operated manually at an adjustable temperature (1.13.11 on page 61).
6	Presentation	Changing the current language, changing the colour scheme, adapting the start screen as well as various other settings (1.13.12 on page 62, 1.13.13 on page 63)
7	Position in the menu	Name of the currently selected menu item
8	Time of day	Displays the current time.
9	Page in the main menu	Display of the active main menu page (2)
10	Scroll	Arrow (< >) for navigating to main menu page 1 (left arrow) and main menu page 3 (right arrow)
11	Back	Used as a button (↔) for returning to the start screen.

 Individual menu items are active or inactive depending on the type of control module.

1.13.3 Main menu view 3



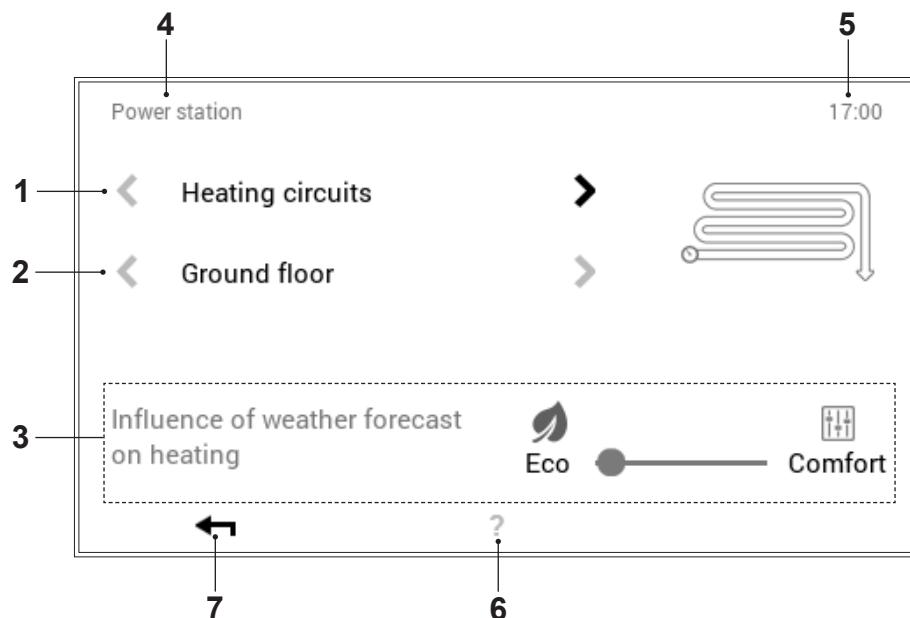
No.	Designation	Function
1	Update	Menu item only for heating specialist
2	Commissioning	Menu item only for heating specialist
3	Power station	Influence of weather forecast on heating. Selection of the heating or hot water circuit to be edited only functions if: - the TTE control is connected to the Internet - there is at least 1 heating or 1 hot water circuit with solar
4	Position in the menu	Name of the currently selected menu item
5	Time of day	Displays the current time.
6	Page in the main menu	Display of the active main menu page (1)
7	Scroll	Arrow (<) for navigating from main menu page 3 to main menu page 2
8	Back	Used as a button (↔) for returning to the start screen.



Individual menu items are active or inactive depending on the type of control module.

1.13.4 Power station

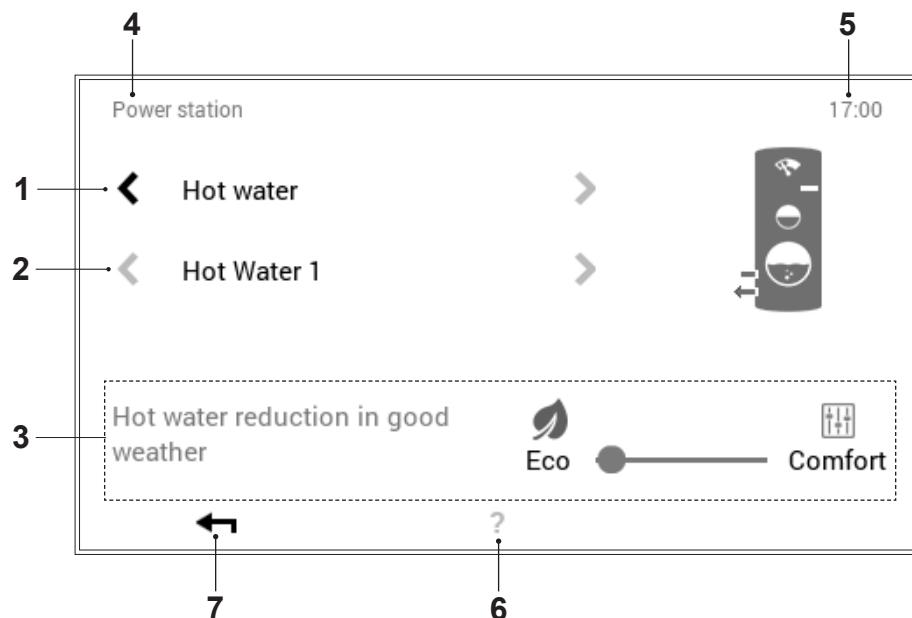
(Main menu / Energy control)



No.	Designation	Function
1	Heating circuits	Selection of the heating circuit to be edited.
2	Circuit selection	There can be several circuits in the selected heating circuit. If the system contains more than one circuit, this is indicated by the white, active horizontal arrows (< >). If there is only one heating or hot water circuit, the arrows are greyed out.
3	Eco-Comfort slider	If the slider is moved to " Eco ", the heating control is influenced by the weather forecast to the greatest possible extent. If the slider is moved to " Comfort ", the weather forecast is not considered.  If the forecast is not received, it may not be possible for the required room temperature to be maintained. However, the possible energy saving is at its greatest in this position.
4	Position in the menu	Name of the currently selected menu item
5	Time of day	Displays the current time.
6	Help	No function is available at present
7	Back	Used as a button (←) for returning to the main menu.

1.13.5 Power station

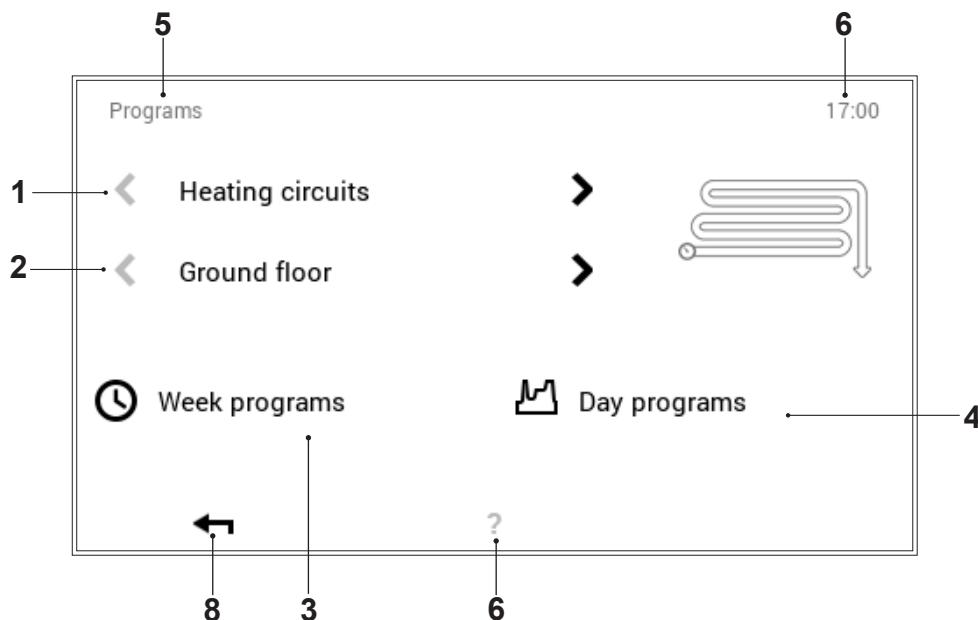
(Main menu / Energy control)



No.	Designation	Function
1	Hot water circuits	Selection of the hot water circuit to be edited
2	Circuit selection	There can be several circuits in the selected hot water circuit. If the system contains more than one circuit, this is indicated by the white, active horizontal arrows (< >). If there is only one heating or hot water circuit, the arrows are greyed out.
3	Eco-Comfort slider	If the slider is moved to "Eco", the heat generator is influenced by the weather forecast to the greatest possible extent, i.e. it reduces the amount of hot water in good weather and increases it in bad weather. If the slider is moved to "Comfort", the weather forecast is not considered.  If the forecast is not received, the amount of hot water in the tank might not be sufficient or the solar plant will not provide its heat to the calorifier.
4	Position in the menu	Name of the currently selected menu item
5	Time of day	Displays the current time.
6	Help	No function is available at present
7	Back	Used as a button (←) for returning to the main menu.

1.13.6 Programs

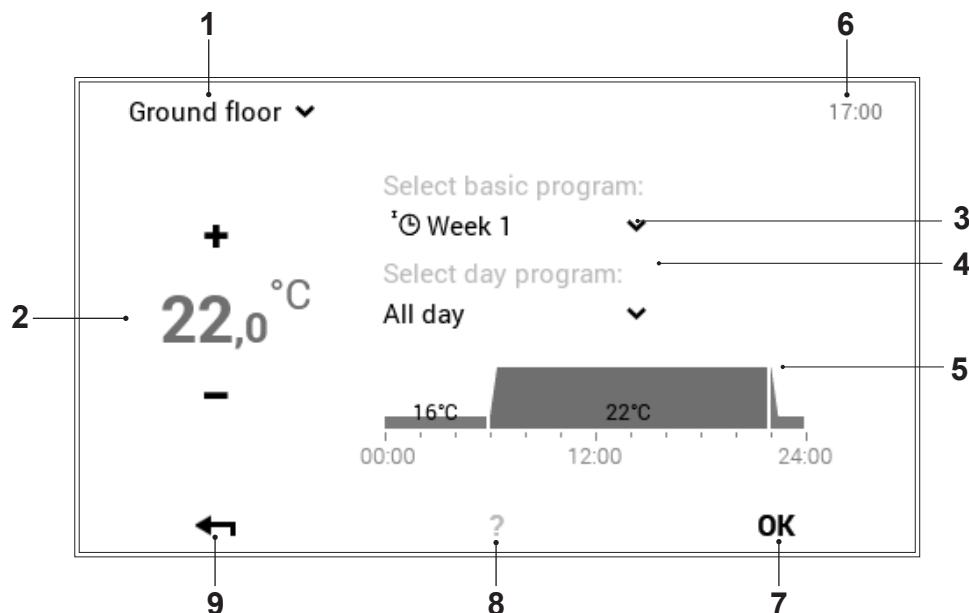
(Main menu / Programs)



No.	Designation	Function
1	Heating or hot water circuits	Selection of the heating or hot water circuit to be edited. The room temperature is set in the "Heating circuit" menu, the water temperature is set in the hot water circuit. The horizontal arrows (<>) are used for selecting between the heating or hot water circuit.
2	Circuit selection	There can be several circuits in the selected heating or hot water circuit. If the system contains more than one circuit, this is indicated by the white, active horizontal arrows (<>). If there is only one heating or hot water circuit, the arrows are greyed out.
3	Week programs	Editing the week programs in the selected heating or hot water circuit. In the week program, a day program can be assigned to the different days of the week, and thus an individual week sequence can be defined (1.10 on page 24).
4	Day programs	Day programs can be defined by max. six switching cycles per day. Editing the day programs in the selected heating or hot water circuit. The desired room temperature is set in the heating circuit, the desired hot water temperature is set in the hot water circuit (1.11 on page 33).
5	Position in the menu	Name of the currently selected menu item
6	Time of day	Displays the current time.
7	Help	No function is available at present
8	Back	Used as a button (←) for returning to the main menu.

1.13.7 Heating circuit

(Main menu / Heating circ.)

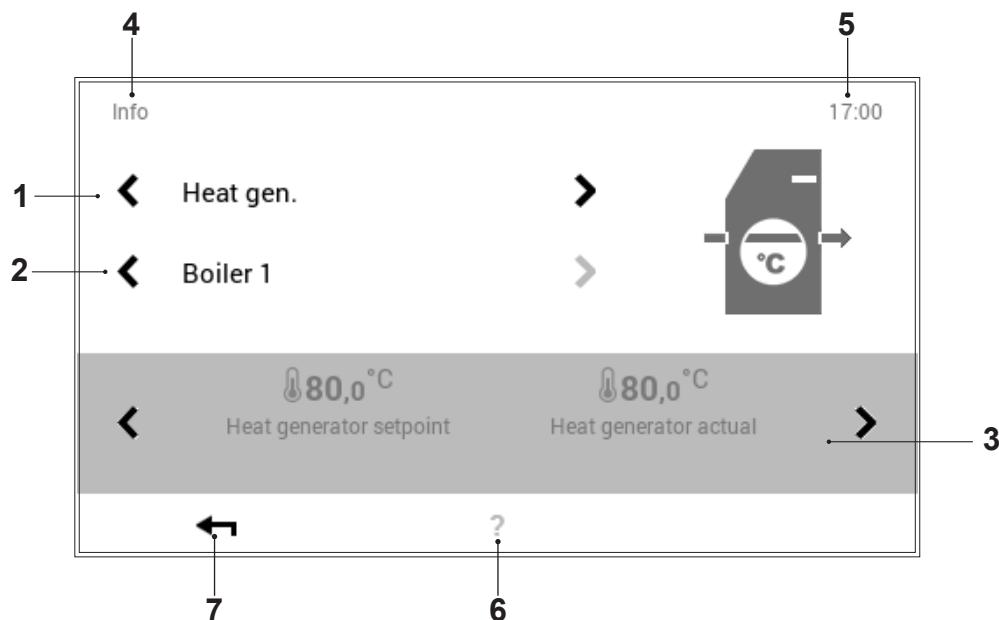


No.	Designation	Function
1	Active heating circuit	Display of the heating circuit to be edited. Changed settings are exclusively accepted in the selected heating circuit. Use the down arrow (↙) to change the heating circuit.
2	Desired temperature	Displays the temperature programmed in the switching cycle. The temperature can be changed in the active switching cycle using plus (+) and minus (-).
3	Basic program	Selection of the basic program. Use the down arrow (↙) to select a new program for editing.
4	Day program	Use the down arrow (↙) to change the day program.
5	Switching cycles	Graphical display of the currently selected day program with all time cycles and corresponding temperature specifications. The time period marked in yellow shows the currently active cycle in which the desired temperature can be changed with plus (+) and minus (-).
6	Time of day	Displays the current time.
7	OK	Save (OK) the changes in the selected heating circuit and return to the previous screen
8	Help	No function is available at present
9	Back	Used as a button (←) for returning to the main menu.

 Temporary settings "Only for today" are not possible in the "Heating circ." menu item.

1.13.8 Info

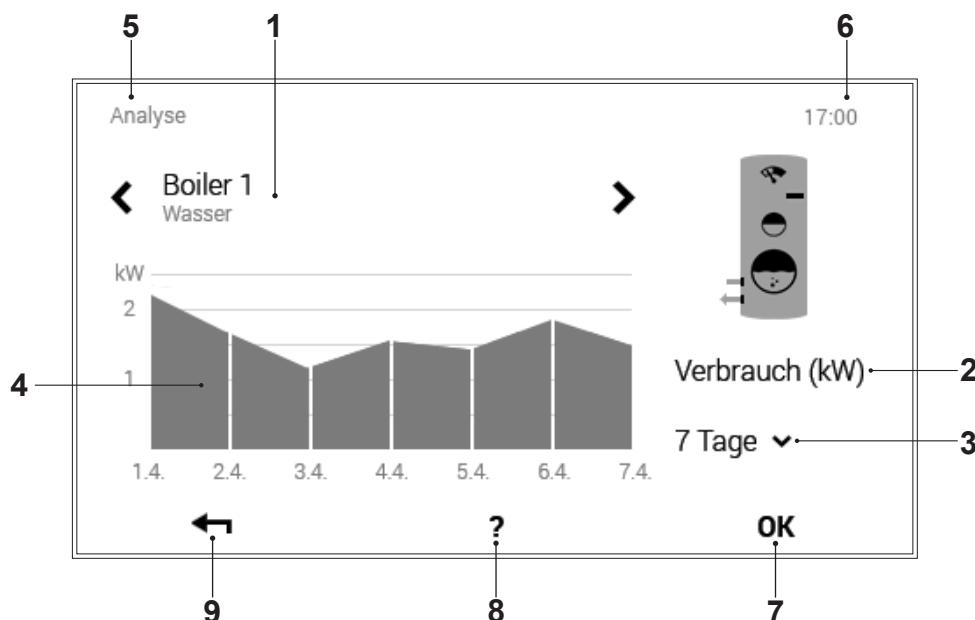
(Main menu / Info)



No.	Designation	Function
1	Heat generator / heating circuits / hot water	Selection of the system part. It is possible to switch between the heat generator, the heating circuit and the hot water area using the horizontal arrows (↔).
2	Detailed selection	Selection of the desired heat generator, heating circuit or hot water circuit. If the system contains several circuits, this is indicated by the white, active horizontal arrows (↔).
3	Information	Information about the selected system area. Additional output information can be displayed on the screen using the horizontal arrows (↔).
4	Position in the menu	Name of the currently selected menu item
5	Time of day	Displays the current time.
6	Help	No function is available at present
7	Back	Used as a button (←) for returning to the main menu.

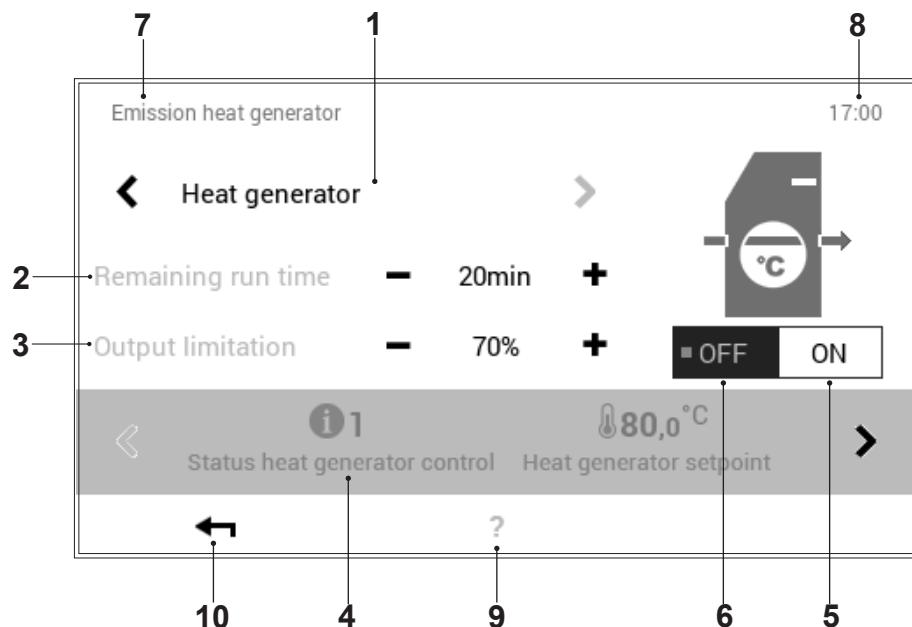
1.13.9 Analysis

(Main menu / Analysis)



No.	Designation	Function
1	Heat generator / heating circuits / hot water	Selection of the area to be analysed. It is possible to select between the heat generator, the heating circuit and the hot water area using the horizontal arrows (< >).
2	Measuring parameter	Display of the recorded measuring parameter
3	Selection duration	Use the down arrow (▼) to select the required duration.
4	Analysis / graphic	Display of the measuring parameter of the selected heat generator, heating circuit or hot water in the desired duration
5	Position in the menu	Name of the currently selected menu item
6	Time of day	Displays the current time.
7	OK	Save (OK) the changes in the selected heating circuit and return to the previous screen
8	Help	No function is available at present
9	Back	Used as a button (←) for returning to the main menu.

1.13.10 Emission - only for heating specialist
 (Main menu / Emission (not in with Heat pumps))

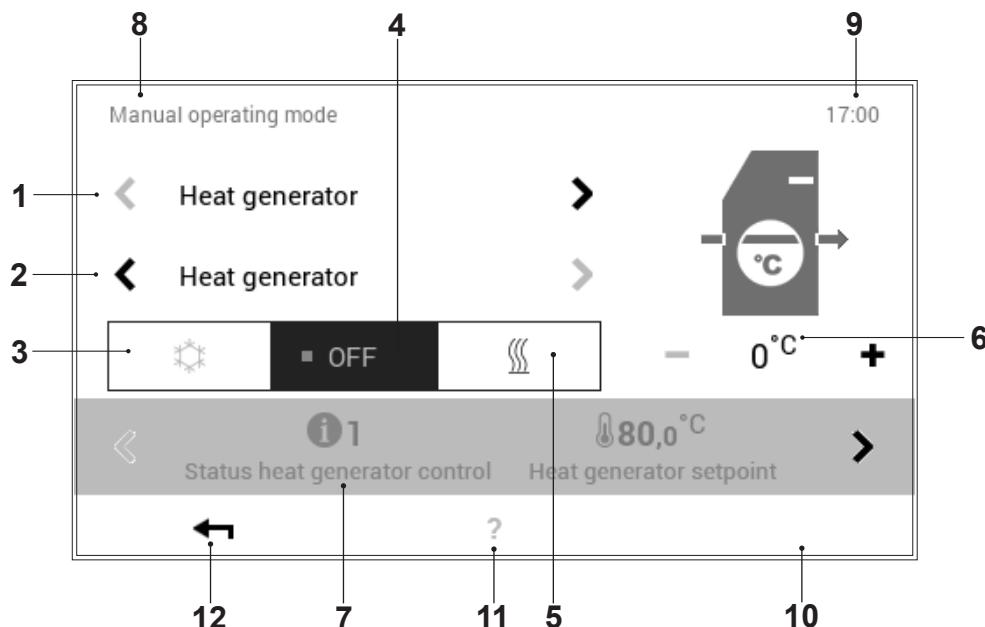


No.	Designation	Function
1	Selection heat generator	Display of the heat generators present in the heating system. The horizontal arrows (< >) are used for selecting the required heat generator.
2	Time	Duration of emission measurement. Setting the required time with plus (+) and minus (-), i.e. to be defined by the heating specialist before the start of the measurement. The heat generator is switched off after the time has elapsed.
3	Power limitation	Entry of the required power limitation. Regulation of the required power limitation by plus (+) and minus (-).
4	System information	Information about the system in the selected heat generator. Additional information can be displayed with the horizontal arrows (< >).
5	ON	Switching on the heat generator
6	OFF	Switching off the heat generator
7	Position in the menu	Name of the currently selected menu item
8	Time of day	Displays the current time.
9	Help	No function is available at present
10	Back	Used as a button (↔) for returning to the main menu.

The emission measurement is automatically deactivated when the "Emission" menu item is exited!

1.13.11 Manual operation

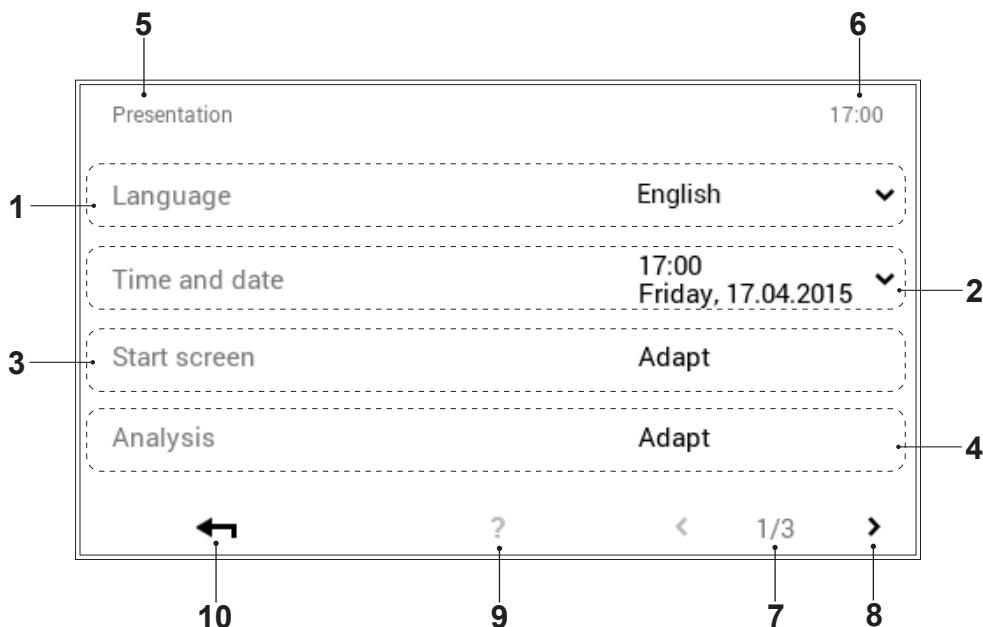
(Main menu / Manual operating mode)



No.	Designation	Function
1	Heat generator / heating circuits	The control permits individual manual operation, i.e. manual operation can be activated on any heat generator and heating circuit that is present.
2	Detailed selection	Selection of the desired heat generator or heating circuit. The system can include several heat generators and heating circuits. If there is more than one heat generator/circuit, the horizontal arrows (< >) are shown in white. If there is only one heating or hot water circuit available for selection, the arrows are greyed out and cannot be selected.
3	Cooling	Activation of cooling operation (if possible in the system)
4	OFF	Switch off active manual operation. The system switches over to automatic operation.
5	Heating	Activate "Heating" manual operation
6	Temperature	Display of the desired temperature. The temperature can be changed using plus (+) and minus (-).
7	Information	Information about the selected manual operation. Additional information can be displayed on the screen with the horizontal arrows (< >).
8	Position in the menu	Name of the currently selected menu item
9	Time of day	Displays the current time.
10	OK	Save (OK) the changes in the selected heating circuit and return to the previous screen
11	Help	No function is available at present
12	Back	Used as a button (←) for returning to the main menu.

1.13.12 Presentation 1

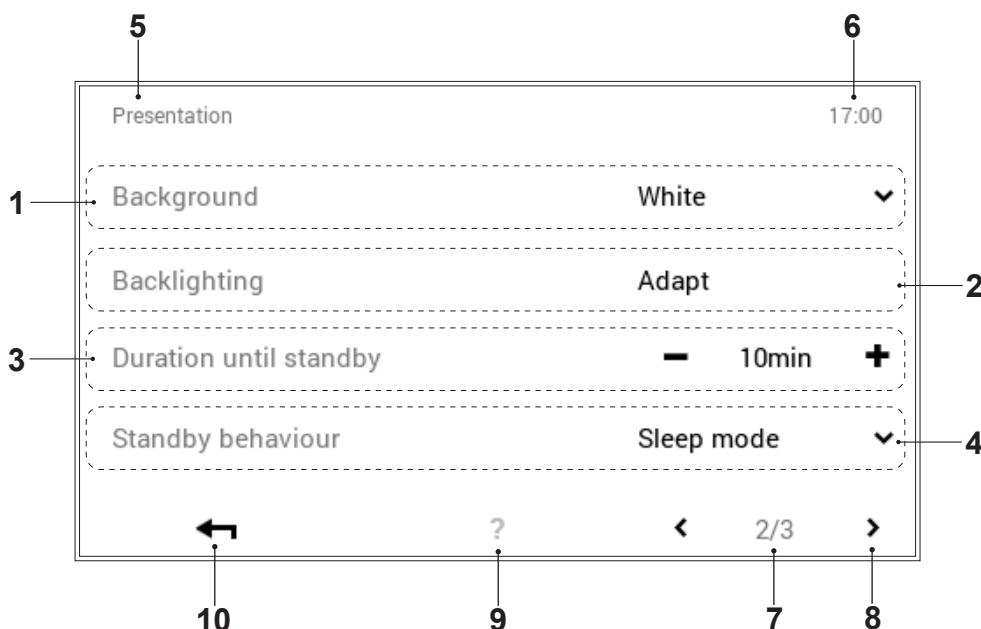
(Main menu / Presentation)



No.	Designation	Function
1	Language	Selection of the desired language. The active language can be selected with the down arrow (▼).
2	Time & date	Changing the current date and time
3	Start screen	Selection of the display elements you want on the start screen. Select the "Adapt" button to make adaptations to the start screen.
4	Analysis	Analysis settings (recording)
5	Position in the menu	Name of the currently selected menu item
6	Time of day	Displays the current time.
7	Page in the menu	Display of the active menu page (1). Menu page 3 only for heating specialist.
8	Scroll	Arrow (>) for navigating from menu page 1 to page 2
9	Help	No function is available at present
10	Back	Used as a button (↔) for returning to the main menu.

1.13.13 Presentation 2

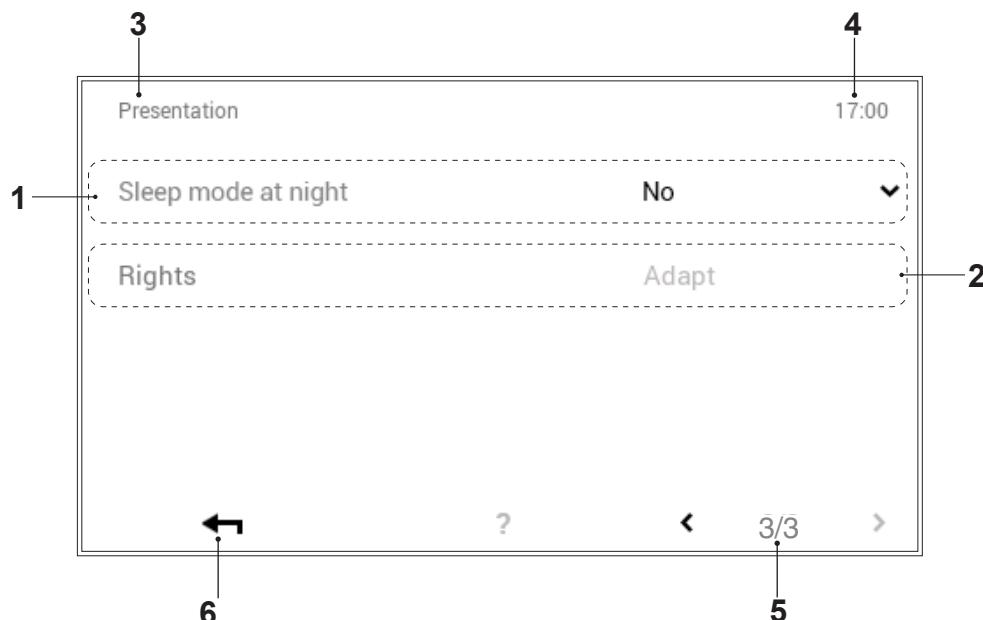
(Main menu / Presentation)



No.	Designation	Function
1	Background	Adaptation of the colour scheme of the control. The arrow key (▼) can be used for selecting between a black and a white background.
2	Backlighting	Adaptation of the current display mode, time until the screen is darkened as well as percentage specification for maximum and minimum screen brightness.
3	Duration until standby	Entry of the required number of minutes until the control enters standby mode. The number of minutes can be changed with plus (+) and minus (-). To deactivate standby mode, it is necessary for "No standby" to be selected in the "Standby behaviour" menu item (no. 4).
4	Standby behaviour	Screen with active standby modus. Depending on the selection, when the screen enters standby mode, it switches to the start screen, to the "Visualisation" main menu item or to sleep mode (black screen). Selecting "No standby" means that standby mode is deactivated.
5	Position in the menu	Name of the currently selected menu item.
6	Time of day	Displays the current time.
7	Page in the menu	Display of the active menu page (2).
8	Scroll	Arrow (◀) for navigating from menu page 2 to page 1.
9	Wizard	No function is available at present.
10	Back	Used as a button (↔) for returning to the main menu.

1.13.14 Presentation 3

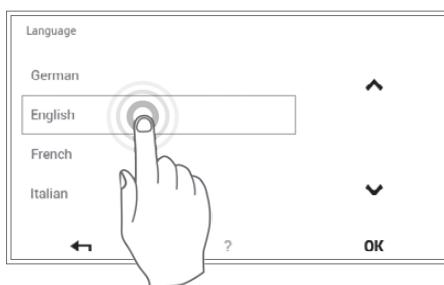
(Main menu / Presentation)



No.	Designation	Function
1	Sleep mode at night	When it is dark, the touchscreen automatically switches to sleep mode, i.e. the screen switches itself off if reactivated when daylight returns.
2	Authorisation	Can only be adjusted by the specialist
3	Position in the menu	Name of the currently selected menu item
4	Time of day	Displays the current time.
5	Page in the menu	Display of the active menu page (3).
6	Back	Used as a button (↔) for returning to the main menu.

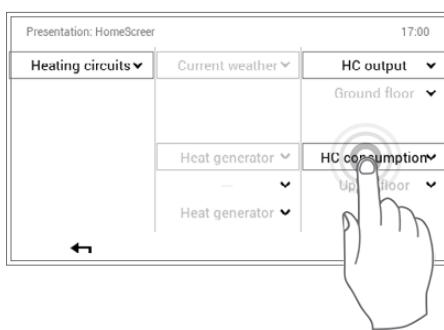
1.14 Further settings

1.14.1 Setting the language



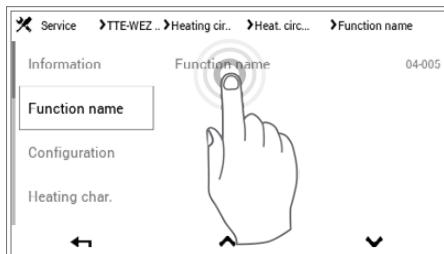
The language of the control can be changed at **Start screen > Main menu (⚙) > Presentation > Language** (1.13.12 on page 62, no. 1).

1.14.2 Adapt start screen individually



The elements of the start screen can be individually adapted at **Start screen > Main menu (⚙) > Presentation > Start screen** (1.13.12 on page 62, no. 5).

1.14.3 Rename heating circuit

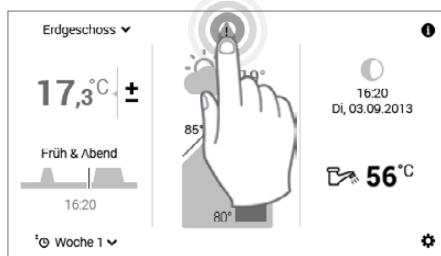


You can give a name to your heating circuit at **Start screen > Main menu > Service > TTE-WEZ .. > Heating circ.. > Heat. circ... > Function name**. Bear in mind that your system can include one or more heating circuits.

2. Alarm messages

2.1 Display alarm message

1 Touch the displayed **alarm message icon** to select it.

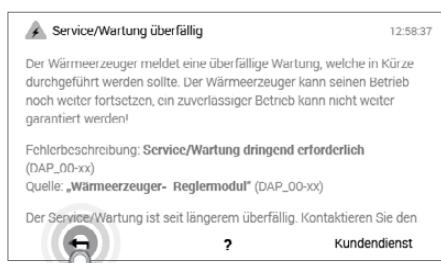


2 Touch **Details (▼)** to select it.

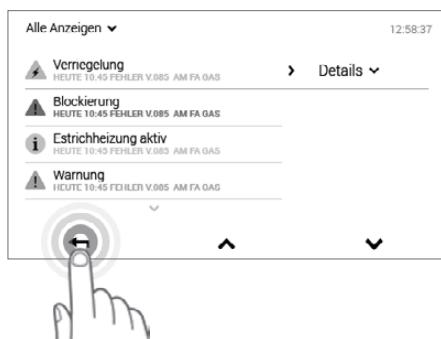


Use the **Display All (▼)** button at the top left of the screen to select all prior alarm messages by category (information, warning, etc.).

3 A detailed alarm message appears. The message contains detailed information about the malfunction. Use **Back (◀)** to close the alarm message view.



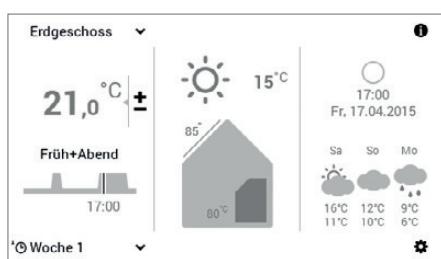
4 Select **Back (◀)** again to close the **alarm message overview**.



5 Once the malfunction has been rectified, the alarm message icon is no longer displayed in the start screen.



If alarm messages cannot be rectified using the information displayed on the control module, contact Hoval customer service.



3. Save energy

3.1 Specific steps for saving energy

ENERGY



With only a few simple measures, you can



Save energy on a sustainable basis



Cut energy costs



Protect the environment.

It's easy! Just bear in mind the following tips:

- **Set the room temperature and the heating times independently!**

Adapt the heating times and room temperatures according to when you will be present and absent (Kapitel 1.11.3, Seite 35, and Kapitel 1.9.2, Seite 22). A temperature reduction of only 1 °C can save 6% of your energy costs.

- **Ventilate correctly**

Ventilate every three to four hours for a few minutes with the window full open, preferably with a through draft. Avoid leaving the windows tilted open when it is cold outside! Correct heating and ventilation also help to prevent mildew forming. Ventilation is not necessary if you are using a domestic ventilation unit.

- **Close roller blinds and shutters at night**

Keep the roller blinds and shutters on doors and windows closed at night to reduce energy losses. If necessary, seal gaps and cracks at windows and doors.

- **Do not obstruct radiators**

Avoid placing furniture in front of radiators. Also avoid closing curtains during the day. At night, on the other hand, they can have an insulating effect. Furthermore, avoid drying damp laundry directly on the radiators. The heat generated by the radiators cannot get into the room in the first place and the hot water is merely circulated.

- **Reduce the room temperature at night**

Save energy while you sleep by reducing the room temperature at night. The room should not cool down excessively, though. This increases the energy required to reheat it, and pipes could freeze.

- **Set the domestic hot water temperature**

Set the domestic hot water temperature as low as possible. Aim for temperatures between 45 °C and 60 °C. Remember to activate the legionella function once a week in the week programme (Kapitel 1.12.6, Seite 47).

- **Take a shower rather than a bath**

A bath consumes about three times as much energy and water as a shower.

- **Regular maintenance**

Have your heating system regularly cleaned and checked by a specialist. Bleed the radiators if you hear noises coming from the pipework or if the radiators do not achieve an even temperature.

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