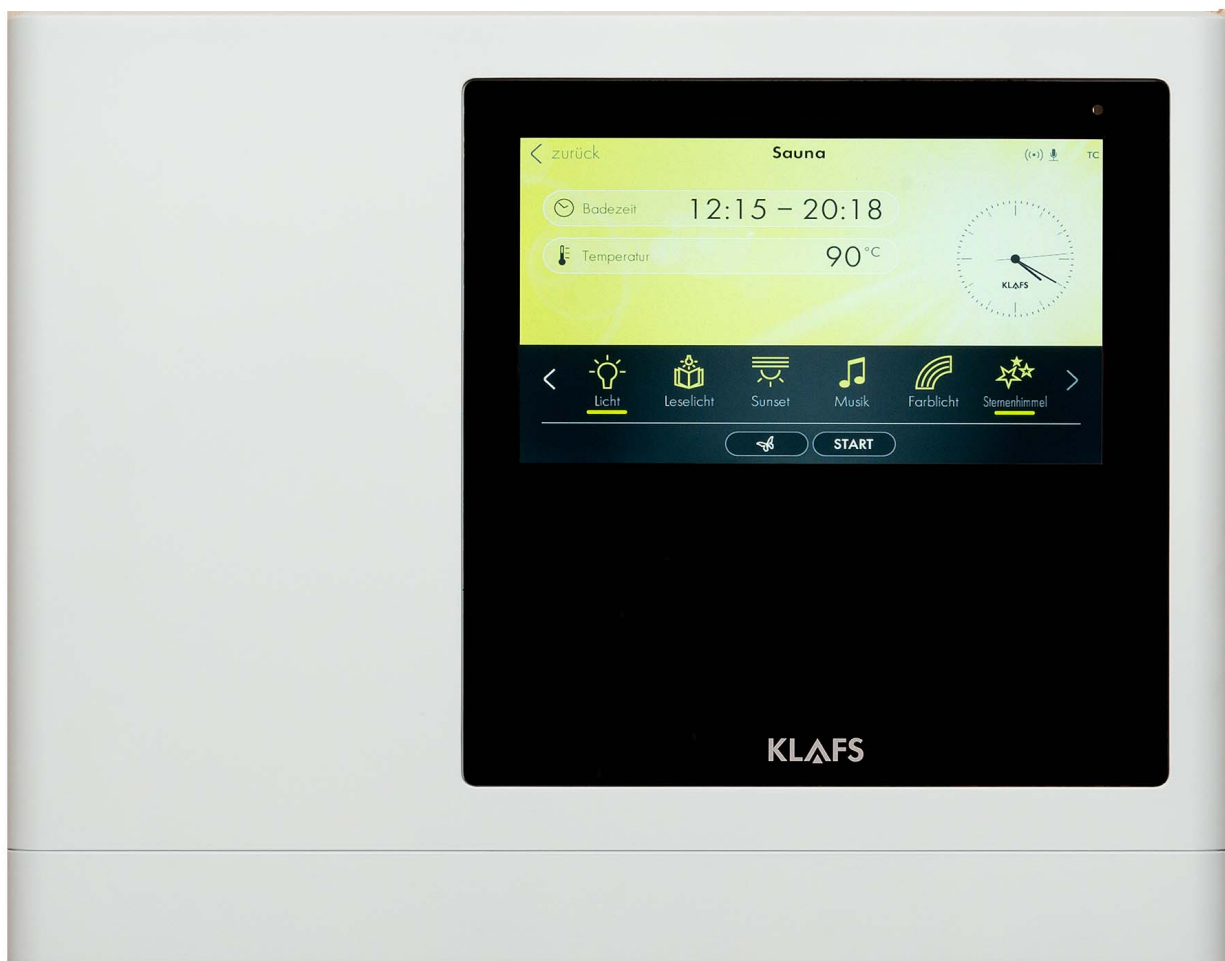


Operating instructions

KLAFS SANARIUM M, S, B, Fero S with controller model 21033, 21040 T



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— 90 °C

— 60 °C

— 40 °C

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— 90 °C

— 60 °C

— 40 °C

1. QUICK REFERENCE GUIDE - SANARIUM CONTROLLER

The KLAFS SANARIUM controller enables you to operate your SANARIUM quickly and easily. There are numerous pre-programmed standard programs available for each bathing mode. Any changes made to the standard program settings are saved in a custom program (last setting). There is a custom program for each bathing mode.



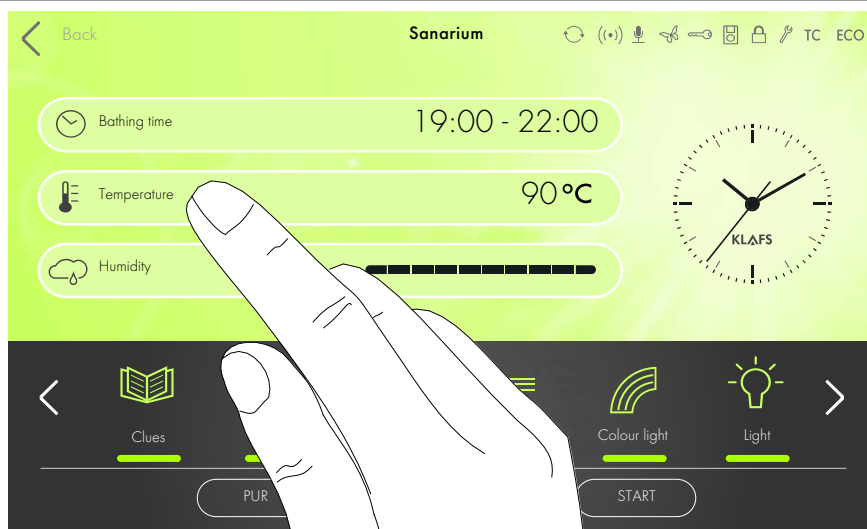
Only operate the touchscreen with your fingers. Operating the touchscreen with hard objects will leave scratches on the screen's surface or damage the screen.



Entering and changing settings will be quicker if a short pause of around 0.5 seconds is left between presses.



After five minutes of non-use, the backlighting will gradually start to dim and eventually switch off fully. If you touch the display while it is dimmed or switched off, the backlighting will switch on first. You will then be able to operate the controller via the display.



2. BATHING MODE

All bathing modes in your KLAFS SANARIUM have been designed to improve your general health and well-being.

However, you should still take into account any pre-existing health conditions when choosing your bathing program.

This includes:



- Temperature
- Relative humidity
- Infrared heat (optional)
- Bathing time.

Choose your bathing program according to its length and your condition. You should end the session and leave the cabin if you start to feel unwell.

2.1. Sauna

Sauna

with temperatures of 85 - 100 °C and a low relative humidity.

SaunaPUR (option only available with SANARIUM B and SANARIUM M)

KLAFS' development brings back the tradition of Finnish stone steam baths.

With around 60 kg of olivine stones in the sauna heater, the sauna baths are even more comfortable, and the heat infusions are more intensive. Using the SaunaPUR, you can experience the feeling of an authentic Finnish sauna.

The sauna must be pre-heated to 70 - 85 °C. When the bathing session begins, the sauna heater is switched off using the SaunaPUR function.

The slowly decreasing temperature is counterbalanced by regular heat infusions. Using the new bathing mode, it is possible to bathe in a sauna without switching noises and with reduced electromagnetic radiation.

Warm air bath

with a particularly mild climate, temperatures of 45 - 60 °C and a relative humidity of up to approx. 20%.

2.2. SANARIUM

Soft steam bath

a gentle and humid bath with temperatures of 48 - 60 °C and an absolute humidity of up to 72 g/m³.

Tropical bath

with temperatures of up to 75 °C and an absolute humidity of up to 72 g/m³.

The temperature and the absolute humidity are controlled by a microprocessor controller in both bathing modes.

Aroma bath

with the same climate settings as the soft steam bath, plus evaporation of premium-quality herbal extracts and scents. This enhances the effect of the soft steam bath.

2.3. InfraPLUS (optional)

Infrared heat

with ambient temperatures of 20 - 40 °C and variable intensity of 1 - 3 for the back heater (41 - 43 °C).

You can also set the back heater to heat for between 10 - 30 minutes.

3. TECHNICAL DATA

Controller model 21033, 21033 T: 3/N/PE 400 V - 50/60 Hz, max. 9 kW.

Controller model 21040 T: 3/N/PE 400 V - 50/60 Hz, max. 20 kW.

Room conditions: Temperature 0 °C to 40 °C, max. 80% relative humidity.

Controller model 21040 T: 3/N/PE 400 V - 50/60 Hz, max. 12 kW.

Room conditions: Temperature 0 °C to 50 °C, max. 80% relative humidity.

Optional InfraPLUS: 1/N/PE 230 V - 50/60 Hz, max. 400 W per InfraPLUS unit.

4. INTENDED USE

The controller is intended for use with the heaters tested and approved by the German VDE (Association for Electrical, Electronic and Information Technologies) or TÜV (Technical Inspection Authority):

- Sauna heater with or without evaporator
- InfraPLUS (optional).

The controller is only to be used as intended. Intended use also assumes adherence to the manufacturer's operating, installation and servicing instructions. The manufacturer is not responsible for any damage resulting from unintended use or unapproved changes to the controller. The user does these things at their own risk.

The controller may only be operated, maintained and repaired by persons who are familiar with it and aware of the risks involved. Always observe the relevant German VDE regulations and other generally recognised safety precautions.

5. SAFETY PRECAUTIONS FOR INFRARED EMITTER

Note the following information before using infrared emitters.

- Do not use the infrared cabin within 24 hours of being exposed to UV radiation from an artificial source or sunbathing.
- Consult a doctor before using the infrared heat cabin if you are at risk of overheating due to circulatory issues or if you suffer from cardiovascular diseases or diabetes.
- Seek medical advice to avoid triggering erythema ab igne as a result of exposure to infrared radiation. Do not expose yourself to the radiation again if the erythema becomes chronic (the skin stays red for longer than one day) or if reticulated colour changes remain after regular exposure to infrared radiation.
- Do not use the infrared cabin if you have reduced sensitivity to heat, have consumed alcohol or have taken sedatives.

6. GENERAL SAFETY PRECAUTIONS

Read and observe the operating instructions and safety precautions before commissioning.

- Disconnect the controller from the mains before opening the controller housing.
- The controller may only be connected to the mains by a locally authorised electrician.
- Only connect the sauna and SANARIUM units directly to the mains via a fixed connection in accordance with VDE regulations. In the connecting feed line, use a residual-current circuit breaker $I_{\Delta N} \leq 0.03 \text{ A}$ with a contact gap of at least 3 mm.
- Please contact KLAFS customer service in case of a fault.
- Remote operation (remote power-on unit): Setting, controlling and/or adjusting the controller using a command or a remote control unit that is outside the range of vision of the sauna heater. Remote operation (remote power-on unit) may be used only together with the safety-contact switch (SCS) or the BONATHERM under-bench heater.
- Only use original KLAFS spare parts.
- Unapproved changes to the controller are not permitted.
- Install the controller in accordance with the installation instructions.
- Electrical wiring inside the cabin and the cabin walls must have silicone insulation.
- Before commissioning the controller, always make sure that there are no flammable objects near the sauna heater or infrared heater in the cabin. RISK OF FIRE
- Do not use the sauna to dry your washing.

- Never use undiluted essential oils. Only use the indicated concentration (approx. 20 - 30 drops of oil in one litre of water).
- Only use KLAFS essential oil extracts.
- Never store the bottle containing the essential oil inside the sauna cabin.
- Regularly check the sauna heater for damage.
- Never pour herbal extracts, used in SANARIUM mode, directly into the evaporator. Outside of the cabin, fill the aroma cup a quarter full with water and add the herbal extracts drop by drop in accordance with the instructions on the bottle. Then re-attach the aroma cup to the steam outlet.
- Check the heater for flammable objects before restarting the timer or switching on the heater via a separate remote activation system.
- The unit can be used by children over eight years of age, by people with reduced physical, sensory or mental capabilities and by people who lack experience/knowledge in using it provided that they are supervised while doing so and/or have been shown how to use the unit safely and understand the potential risks involved. Do not allow children to play in the unit. Children should not clean the unit or carry out basic maintenance on it without supervision.

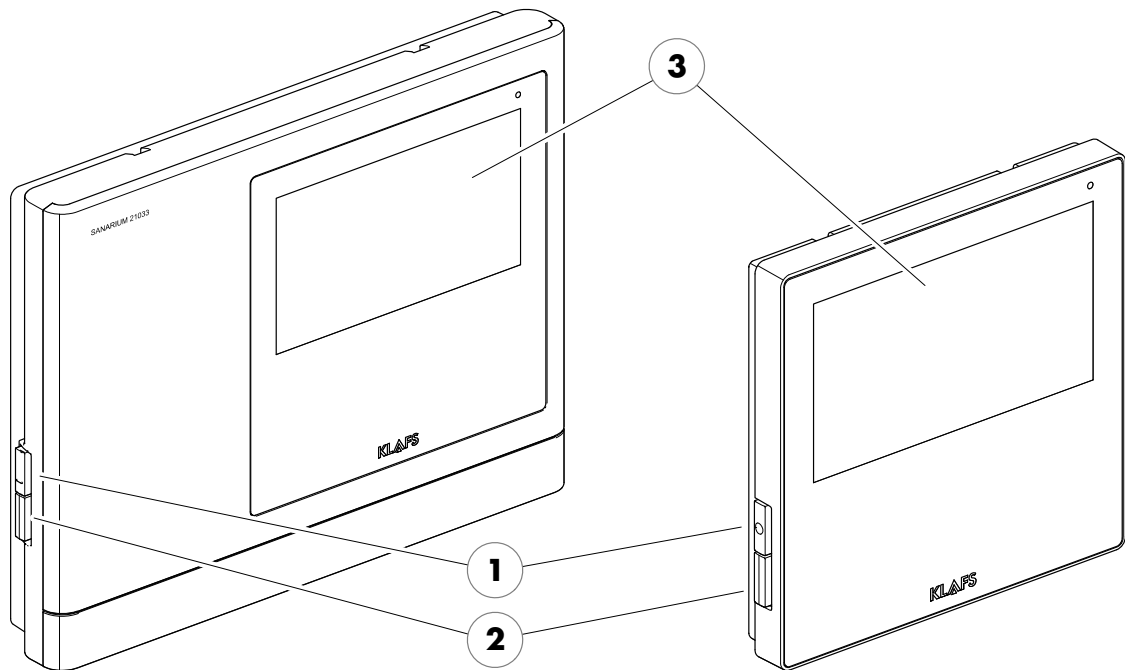
— 90 °C

— 60 °C

— 40 °C

7. CONTROLLER

7.1. Operating and display elements

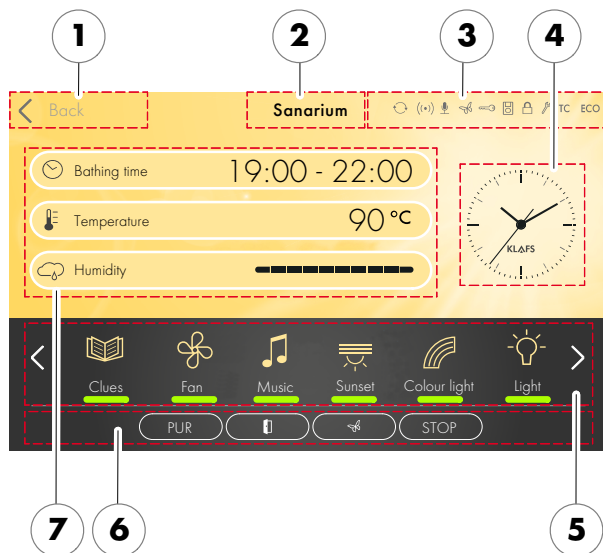


Item	Description
1.	<p>Controller main switch.</p> <ul style="list-style-type: none"> • The main switch switches off the mains power to the controller. • The clock in the controller has a power reserve for a few months in the event of a power failure.
2.	<p>Cabin light switch.</p> <ul style="list-style-type: none"> • When the controller is connected to the mains, the cabin light may be switched on independently of the main switch.
3.	<p>Touchscreen.</p> <ul style="list-style-type: none"> • See page 12.








7.2. Touchscreen

Section

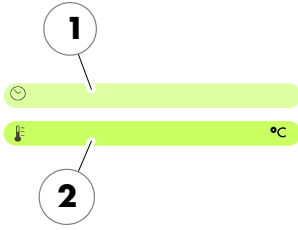
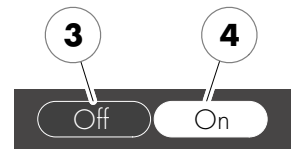
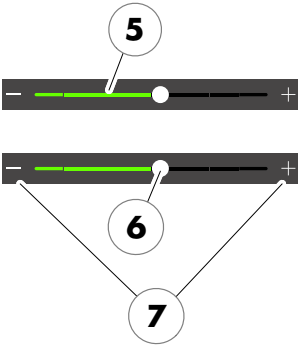


1. Session.
 - See page 15.
2. Bathing mode.
 - See page 15.
3. Status bar.
 - Display only, no touchscreen function.
 - The symbol display depends on the configuration.
 - See page 16.
4. Clock.
 - See page 17.
5. Extras.
 - The symbol display depends on the configuration.
 - See page 18.
6. PUR bathing mode, Start/Stop, cabin control, Green Sauna.
 - Start/Stop: Starts the bathing program with the displayed bathing parameters or stops the program in progress.
 - See page 19.
7. Bathing parameters.
 - Bathing time, temperature, humidity, intensity.
 - See page 21.



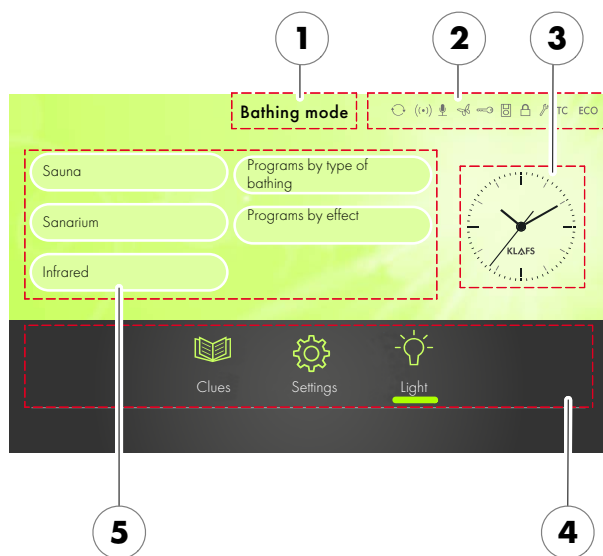
7.3. Touchscreen - Basic operation and display symbols

Example	
Symbol:	Display/function:
	The control panel must be switched on at the main switch. <ul style="list-style-type: none"> • See page 22.
	Operate the control panel by pressing on the touchscreen with your finger. The touchscreen is divided into display sections and function symbols. Functions are activated by pressing the symbols displayed. Entering and changing settings will be quicker if a short pause of around 0.5 seconds is left between presses.
	If you do not press any symbol or confirm the new value by touching an area outside the setting within three seconds, the controller will automatically exit input mode and apply the new setting.
	After five minutes of non-use, the backlighting will gradually start to dim and then the screen will switch off fully within a minute. If you touch the display while it is dimmed or switched off, the backlighting will switch on first. You will then be able to operate the controller via the display.
	Screen background. Green: Standby, settings. Blue: Heating up. Orange: In operation.
	Symbol. E.g. light. Pressing a symbol opens a dialog with the available settings and for switching the selected function on/off. Light bar (1). Indicates that a function has been activated or started. The function can be deactivated or stopped by pressing the symbol for that function again.
	Left/right arrows. Pressing the respective direction takes you to the previous/next step or enables you to scroll through the available options.

7.3. Touchscreen - Basic operation and display symbols

Example	
Symbol:	Display/function:
	<p>Symbols highlighted in colour. E.g. duration, temperature or numerical value.</p> <p>Pressing the field selects or activates the function.</p> <p>Active/selected (1). Not active (2).</p>
	<p>Switches a function on/off.</p> <ul style="list-style-type: none"> Pressing the function selects it and highlights it in colour. <p>Not active (3). Active (4).</p>
	<p>Indicators. E.g. bar scale (5).</p> <p>The bar scale displays the settings in ten bars. The bar scale is used to set parameters such as humidity, volume, fan speed and screen brightness.</p> <ul style="list-style-type: none"> Press and hold the slider (6) to move the bar scale to the left or right. <p>or</p> <ul style="list-style-type: none"> Increase or decrease the value by pressing the "+" (7) or "-" (7) symbol respectively. If you do not confirm the new value by touching an area outside the setting within three seconds, the controller will automatically exit input mode and apply the new setting.
	<p>Cancel, confirm.</p> <p>Press the cross button (8) to cancel changing a setting and discard the input value. Press the tick button (9) to confirm the new setting or input value and apply it.</p>
	<p>Favourite.</p> <p>Available (10). Active (11).</p>

7.4. Touchscreen - Section 1: Sessions










1. Title line of the current window.
2. Status bar.
 - Display only, no touchscreen function.
 - The symbol display depends on the configuration.
 - See page 16.
3. Clock.
 - See page 17.
4. Tips, settings, light.
 - Tips and recommendations for bathing modes or extras. Controller system settings.
 - For the system settings, see page 18.
 - Switches the cabin light on/off.
5. Bathing sessions, program selection according to criteria.

7.5. Touchscreen - Section 2: Bathing modes

Symbol:	Display/function:
Sauna	Sauna mode. <ul style="list-style-type: none"> • See page 31.
Sanarium	Sanarium bathing mode. <ul style="list-style-type: none"> • See page 34.
Infrared	InfraPLUS bathing mode (optional). <ul style="list-style-type: none"> • See page 37.
Programs by type of bathing	Bathing mode: Programs by type of bathing. <ul style="list-style-type: none"> • See page 61.
Programs by effect	Bathing mode: Programs by effect. <ul style="list-style-type: none"> • See page 63.

7.6. Touchscreen - Section 3: Status bar


Symbol:	Display/function:
	The status bar is for display only and has no touchscreen functions. The symbol display depends on the configuration.
	WLAN is installed and activated. The dot inside the symbol indicates that a WLAN module is installed. The waves appear if there is a connection between the controller and a router.
	Voice control is activated.
	Green Sauna is activated. When the Green Sauna function is switched on, any units that are not required can be switched off. The cover flap of the ventilation system is closed.
	Output from the sauna heater is requested via the key switch . The key symbol is displayed for 30 minutes after changing a bathing parameter. Changes to a bathing parameter can be confirmed by pressing the key switch on the sauna cabin within 30 minutes. <ul style="list-style-type: none"> When the key functions are activated, the settings and the key-switch symbol remain displayed (for max. 30 minutes) until the key switch is pressed.
	The remote power-on unit is connected. The sauna can be operated via both the remote power-on unit and the control panel.
	"Blockade control unit" (touchscreen lock). When enabled, this function prevents the controller from being operated inadvertently. The controller can only be used after entering your password via the touchscreen. <ul style="list-style-type: none"> Symbol appears = Touchscreen is locked. Setting up the touchscreen lock - See servicing instructions 50701466/50701467. To switch the touchscreen lock on/off, see page 72.

— 90 °C


— 60 °C

— 40 °C




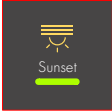


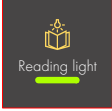
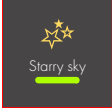

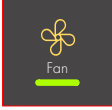

7.6. Touchscreen - Section 3: Status bar

Symbol:	Display/function:
	The controller is in Service mode.
TC	The TOUCHCONTROL is connected.
ECO	The Climate Manager is connected and in operation. The Climate Manager automatically controls the speed of the fan.





7.7. Touchscreen - Section 4: Clock

Symbol:	Display/function:
	<p>Clock.</p> <ul style="list-style-type: none"> To set the time, see page 25.

7.8. Touchscreen - Section 5: Extras

Symbol:	Display/function:
	The symbol display depends on the configuration.
	<p>Tips.</p> <ul style="list-style-type: none"> View interesting information about and tips on using the sauna.
90 °C 	<p>Switches the cabin light on/off.</p> <ul style="list-style-type: none"> See page 23.
	<p>Switches Sunset on/off.</p> <ul style="list-style-type: none"> To change the setting, see page 74.
	<p>Select a music track.</p> <ul style="list-style-type: none"> See page 69.
60 °C 	<p>Switches the coloured light on/off.</p> <ul style="list-style-type: none"> To change the setting, see page 74.
	<p>Switches the reading light on/off.</p> <ul style="list-style-type: none"> Reading light switches off after a delay of up to 30 seconds after the bathing program has finished.
	<p>Switches Starry Sky on/off.</p> <ul style="list-style-type: none"> Starry Sky switches off after a delay of up to 30 seconds after the bathing program has finished.
	<p>Switches AQUAVIVA on/off.</p> <ul style="list-style-type: none"> To change the setting, see page 74.
40 °C 	<p>Adjusts the fan.</p> <ul style="list-style-type: none"> To change the setting, see page 74.
	<p>Sets the scent.</p> <ul style="list-style-type: none"> To change the setting, see page 74.

7.9. Touchscreen - Section 6: PUR bathing mode, Start/Stop, cabin control, Green Sauna




Symbol:	Display/function:
	<p>Option: PUR bathing mode.</p> <ul style="list-style-type: none"> Only available with the Sauna bathing mode. <p>When the PUR symbol appears, the cabin has reached the correct temperature for the PUR bathing mode and it can be switched on.</p> <p>Once the PUR bathing mode has been switched on, the oven heating is switched off. The heat stored in the sauna stones is released.</p> <ul style="list-style-type: none"> See page 33.
	<p>Start/Stop.</p> <ul style="list-style-type: none"> Press the button. <p>The selected bathing program is started with the bathing parameters shown.</p> <p>The display switches to "Stop" once the program has started. Pressing the button stops the bathing program.</p>
	<p>There must not be any objects on the sauna heater when the bathing program is switched on.</p>
	<p>Option: Green Sauna.</p> <ul style="list-style-type: none"> Press the button. <p>Green Sauna is activated.</p> <ul style="list-style-type: none"> See page 46.

— 90 °C



— 60 °C

— 40 °C





7.9. Touchscreen - Section 6: PUR bathing mode, Start/Stop, cabin control, Green Sauna

Symbol:	Display/function:
	<p>The cabin control function for operating the controller via the KLAFS Sauna app is only available for cabins that have WLAN installed and activated.</p> <ul style="list-style-type: none"> • For the WLAN function, see page 16.
	<p>Cabin control.</p> <ul style="list-style-type: none"> • Function for operating the controller via the KLAFS Sauna app, e.g. with a smartphone. • KLAFS safety concept ASC. <p>Performs a visual precheck of the inside of the cabin to ensure that there are no flammable objects near the sauna heater or the infrared heater. The cabin may only be started via the KLAFS Sauna app if this visual check has been carried out after the last sauna session.</p> <ul style="list-style-type: none"> • Standby mode. Function for remotely controlling the controller via the KLAFS Sauna app, see page 28. <p>Symbol flashing: The symbol will start flashing after you have pressed the cabin control symbol. Open the sauna door within the next 30 minutes and check the heaters for flammable objects, removing any if necessary. The symbol will be permanently lit after closing the sauna door. The cabin can now be started via the KLAFS Sauna app.</p> <p>Symbol permanently lit: The sauna cabin has been checked. A bathing mode can be started via the KLAFS Sauna app.</p> <p>Symbol off: If the sauna door is opened after the visual precheck and before the session has started, the symbol will go out. The cabin can no longer be operated via the KLAFS Sauna app. If the sauna door is opened during the remote-control standby period and the cabin temperature is less than 40 °C, the symbol will go out and the controller must be reset.</p>
	<p>If a setting has been changed on the controller or the sauna door has been opened during the remote-control standby period, the cabin cannot be started via the KLAFS Sauna app and bathing parameters cannot be changed.</p>

7.9. Touchscreen - Section 6: PUR bathing mode, Start/Stop, cabin control, Green Sauna

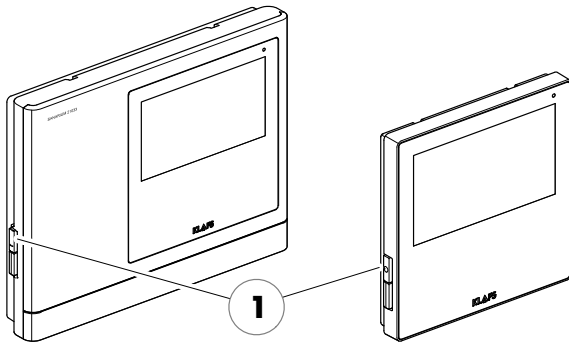
Symbol:	Display/function:
	<p>Operating the controller via the KLAFS Sauna app is only available for cabins that have WLAN installed and activated.</p> <ul style="list-style-type: none"> • For the WLAN function, see page 16.
	<p>Cabin control.</p> <ul style="list-style-type: none"> • Function for operating the controller via the KLAFS Sauna app, e.g. with a smartphone. <p>Carry out a visual precheck of the inside of the cabin to ensure that there are no flammable objects near the sauna heater or the infrared heater. The cabin must only be started via the KLAFS Sauna app if this visual check has been carried out after the last sauna session.</p> <ul style="list-style-type: none"> • Make sure that unauthorised persons cannot access your sauna cabin during your absence.

7.10. Touchscreen - Section 7: Bathing parameters

Symbol:	Display/function:
	<p>Setting the bathing time.</p> <ul style="list-style-type: none"> • See page 65.
	<p>Setting the temperature.</p> <ul style="list-style-type: none"> • See page 66.
	<p>Setting the SANARIUM humidity.</p> <ul style="list-style-type: none"> • See page 67.
	<p>Setting InfraPLUS (optional).</p> <ul style="list-style-type: none"> • See page 68.

8. BASIC FUNCTIONS AND SETTINGS

8.1. Switching the power supply on/off at the main switch



Switching the power supply on

1. Press the touch key (1).

The controller goes into standby mode. In standby mode, the display shows the bathing mode that was last selected.

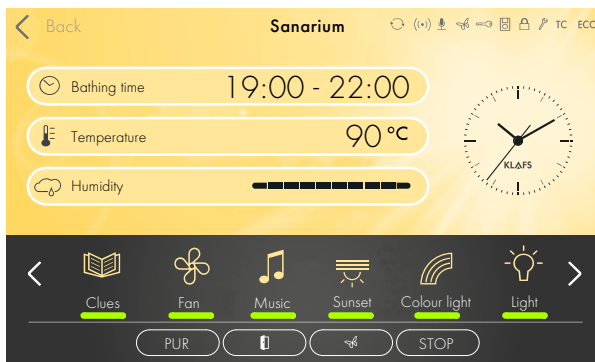
When the controller is switched on, the following symbols are displayed: Settings for the relevant bathing mode, clock, Start/Stop extras and cabin control (optional).

- For standby, see page 28.



After five minutes of non-use, the backlighting will gradually start to dim and the screen will switch off fully within a minute.

If you touch the display while it is dimmed or switched off, the backlighting will switch on first. You will then be able to operate the controller via the display.



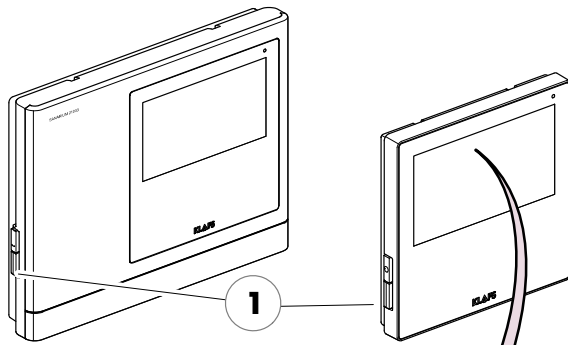
Switching the power supply off

1. Press the touch key (1).

The touchscreen is blank when the controller is switched off.

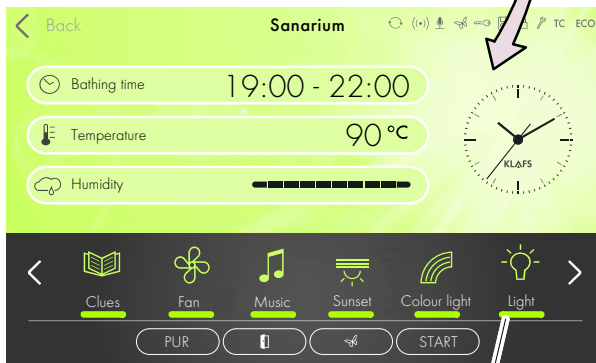
- The cabin light can be switched on even when the controller is switched off.
- The clock in the controller has a power reserve for a few months in the event of a power failure.

8.2. Switching the cabin light on/off



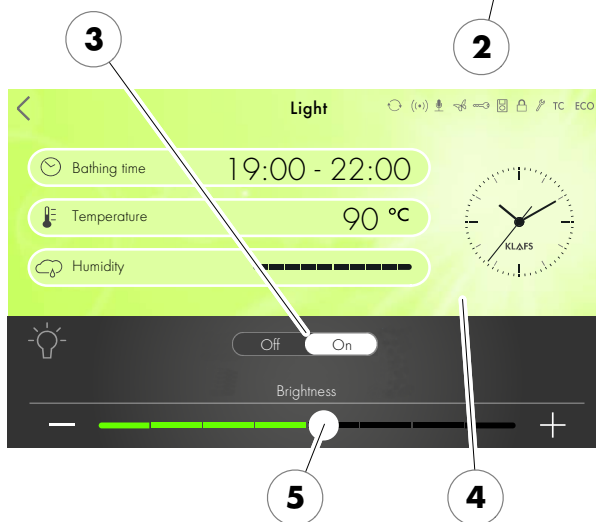
1. With the unit switched off at the main switch, press the button (1).
2. Or press the symbol (2) if the controller is switched on.
3. Press the Off/On symbol (3) and apply the change by touching the screen (4).

- The value is automatically accepted after three seconds. Alternatively, this can be done by tapping on an empty area of the screen.



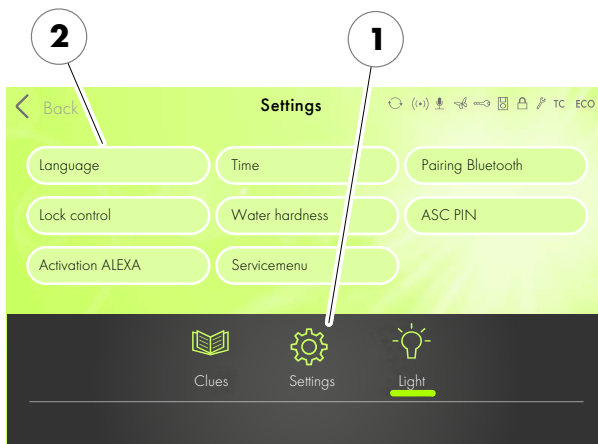
The cabin light switches on or off.

- Set the brightness of the cabin light using the slider (5).



The light is not dimmed if the controller is switched off. The light can only be dimmed using the symbol (5) on the display.

8.3. Setting the language



1. Press the "Settings" symbol (1).
2. Touch the "Language" line (2).

The sub-menu for setting the language appears.

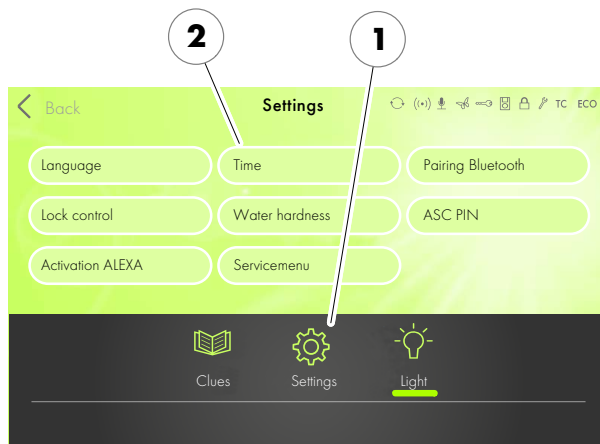


3. Select your preferred language (3).
4. Confirm the language you have selected by touching the screen (4).

The language has been set.

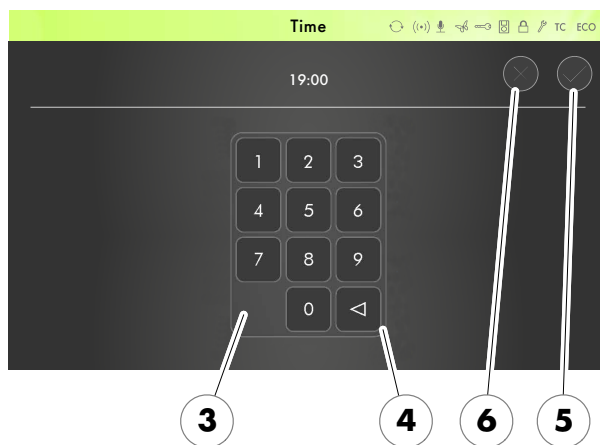
- The value is automatically accepted after three seconds. Alternatively, this can be done by tapping on an empty area of the screen.

8.4. Setting the time



1. Press the "Settings" symbol (1).
- You can set the time by pressing the analogue clock.
2. Touch the "Time" line (2).

The sub-menu for setting the time appears.



3. Enter the time using the keypad (3). Press button (4) to delete a number if you enter the wrong one.
4. Confirm the time you have set by pressing the tick symbol (5) or cancel the process by pressing the cross symbol (6).

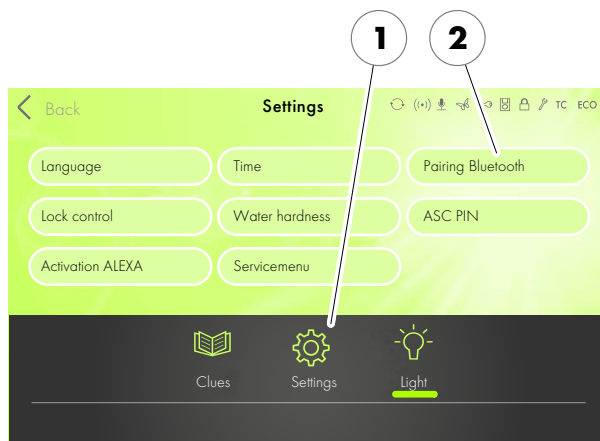
The time has been set.

- The clock in the controller has a power reserve for a few months in the event of a power failure.

8.5. Pairing a Bluetooth device (e.g. smartphone, tablet)

The AudioRelax system (optional) is Bluetooth-enabled. Pairing a Bluetooth device with the AudioRelax system allows you to listen to music through the speakers inside the cabin.

- Once a Bluetooth device has been detected for the first time, the AudioRelax system saves it in a list of up to four devices. Bluetooth devices on this list will then be automatically paired with the AudioRelax system whenever they come within its wireless range.
- If more than one Bluetooth device is in range, the system will pair with the Bluetooth device that it detected in its wireless range first. Only one Bluetooth device can be paired with the AudioRelax system at any one time.

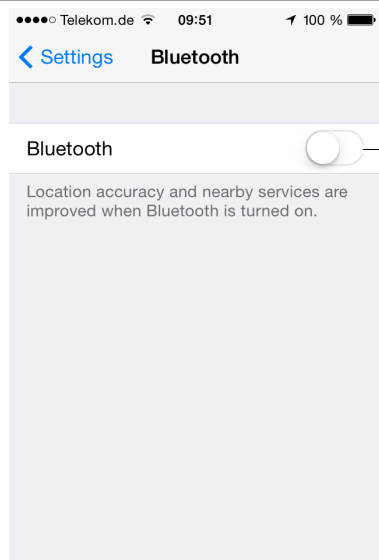


Pairing your Bluetooth device with the AudioRelax system

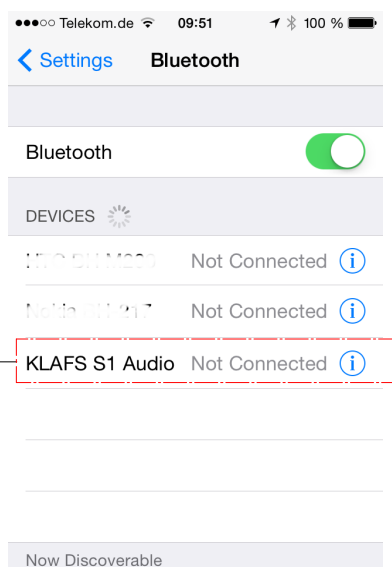
- Read the operating instructions for your Bluetooth device to find out how to activate the Bluetooth function.
1. Press the "Settings" symbol (1).
 2. Touch the Pairing Bluetooth (2) line.

You now have three minutes to pair your Bluetooth device with the AudioRelax system.

8.5. Pairing a Bluetooth device (e.g. smartphone, tablet)



3. The following example shows how to pair a device with the controller: Activate the Bluetooth function (3) on your Bluetooth device.

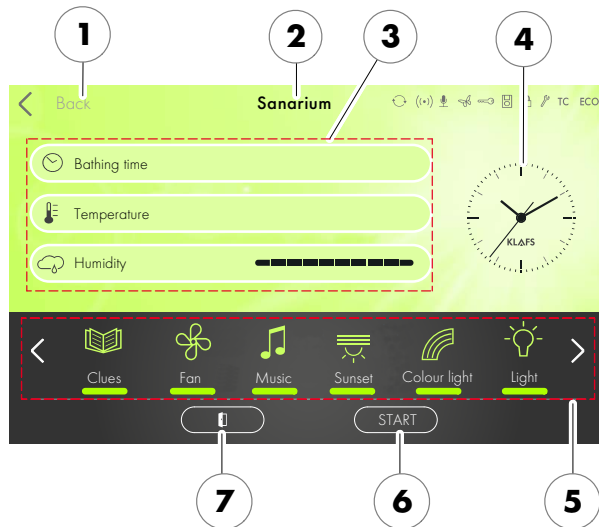


Your Bluetooth device will display a list of all available Bluetooth devices nearby.

4. Select the AudioRelax system (4) from the list shown.

The AudioRelax system will then pair with your Bluetooth device.

8.6. Standby mode



The touchscreen displays the following symbols in standby mode:

- Go back to the menu screen (1)
- Currently selected or last selected bathing mode (2)
- Bathing parameters (3)
- Time (4)
- Extras (5) (depending on cabin equipment)
- Start/Stop (6)
- Door contact switch (7) (optional)

The backlighting switches off automatically after five minutes of non-use.

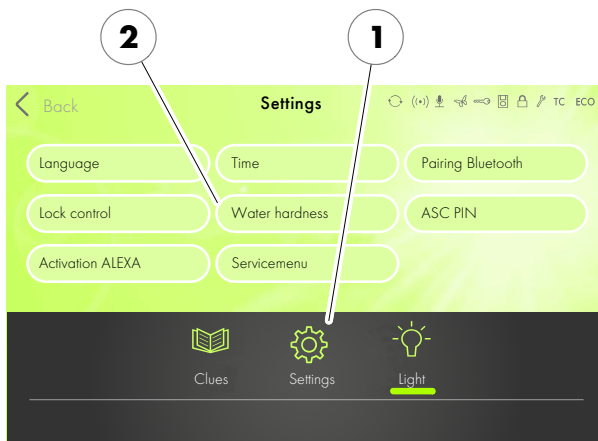
- The controller can be operated via the touchscreen at any time whilst in standby mode.

8.7. Setting the water hardness

Requirement:



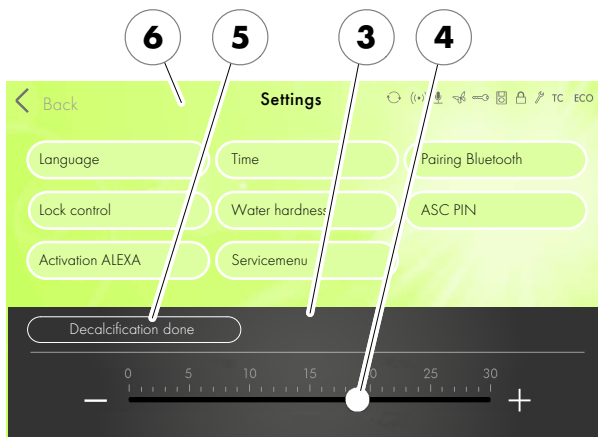
- Ask your water supplier about your area's water hardness in order to set the correct settings on the control panel.



1. Press the "Settings" symbol (1).
2. Touch the "Water hardness" line (2).

The sub-menu for setting the water hardness appears.

- The currently selected hardness range (3) is displayed.
3. Change the water hardness setting by moving the slider (4) or pressing the +/- symbols.
 4. If decalcification has been carried out, press the "Decalcification complete" symbol (5).
 5. The value is automatically accepted after three seconds. Alternatively, this can be done by tapping on an empty area of the screen (6).



Water hardness conversion table

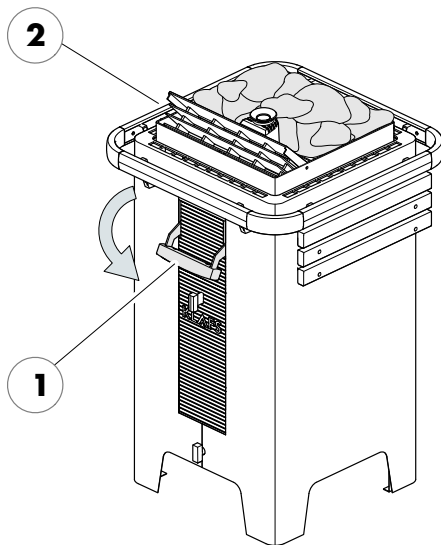
		°dH	°e	°fH	ppm	mval/l	mmol/l
German level	1 °dH =	1	1.253	1.78	17.8	0.357	0.1783
English level	1 °e =	0.798	1	1.42	14.3	0.285	0.142
French level	1 °fH =	0.560	0.702	1	10	0.2	0.1

9. OPERATION

9.1. Activating/deactivating the turboheat function

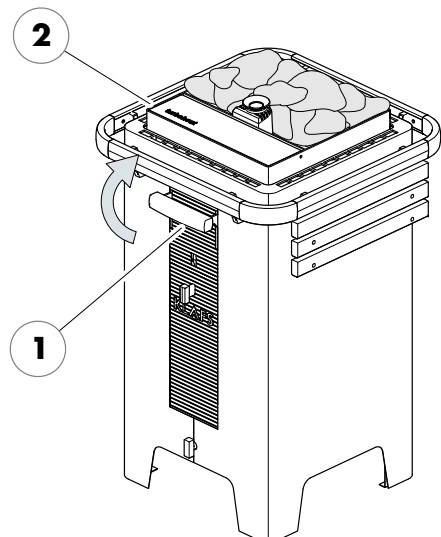


Thanks to the turboheat function, the cabin's warm-up period is shortened for a spontaneous sauna session.



Activating the turboheat function

1. Pull the turboheat lever (1) downwards. The flap (2) tilts upwards.



Deactivating the turboheat function

- When entering a cabin that is ready for use, deactivate the turboheat function again.
1. Push the turboheat lever (1) upwards. The flap (2) tilts downwards.

9.2. Sauna mode



Risk of fire!

Before commissioning the controller, always ensure that there are no flammable objects near the sauna heater or infrared heater in the cabin.



To enjoy a sauna, empty the evaporator water tank.

- See pages 55, 58, 59 - Decommissioning the evaporator.

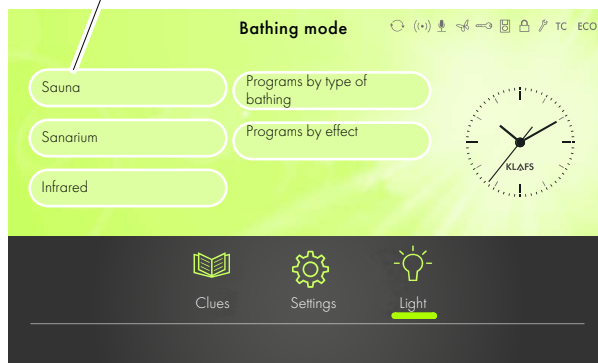


On models with a key switch (optional), changes to bathing parameters in the sauna cabin must be confirmed by pressing the key switch within 30 minutes. The key switch symbol in the display goes out after confirmation.



Due to physical phenomena, when the turboheat function is activated, there are temperature differences between the actual temperature in the cabin and the temperatures displayed on the thermometer and on the controller. This temperature is harmonised after a few minutes.

1



Starting Sauna mode

1. Press the SAUNA symbol (1).

9.2. Sauna mode



Starting Sauna mode

The background colour (2) changes to blue during the heat-up phase. The sauna starts with the bathing parameters that were set for the last program used.

The sauna heater switches on and the cabin heats up.

The background colour (2) changes to "ready to use" (orange). The cabin is ready to use.

- To select a special program/custom program, see page 61.
- To change the temperature, see page 66.
- To change the bathing time, see page 65.



Stopping Sauna mode

1. Press the STOP symbol (3).

The sauna heater switches off.

The controller then goes into standby mode.

- After a bathing session, open the cabin door to ventilate the cabin.

9.3. PUR bathing mode



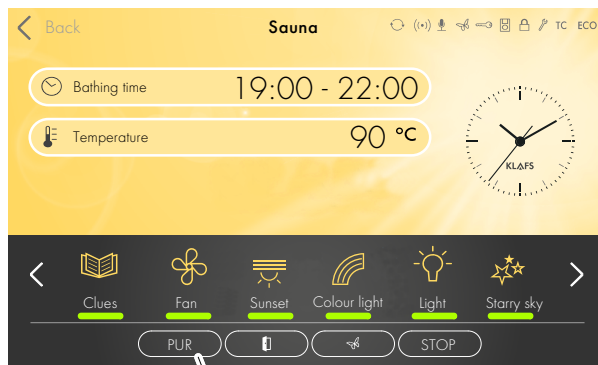
The PUR bathing mode is only available with the Sauna bathing mode.

Starting PUR bathing mode

- To start the PUR bathing mode, the Sauna bathing mode must be started and the cabin must reach the preset temperature.

Once the preset temperature has been reached, the PUR symbol (1) appears.

1. Press the PUR symbol (1).
- During PUR operation, the sauna heater is switched off.
 - The heat stored in the sauna stones is released.
 - After approximately 20 minutes, or once the temperature in the sauna cabin has decreased by approximately 15 °C, the PUR bathing mode stops automatically. The sauna heater begins heating again.



Stopping the PUR bathing mode

1. Press the PUR symbol (1).

The sauna heater begins heating again.

9.4. SANARIUM mode



Risk of fire!

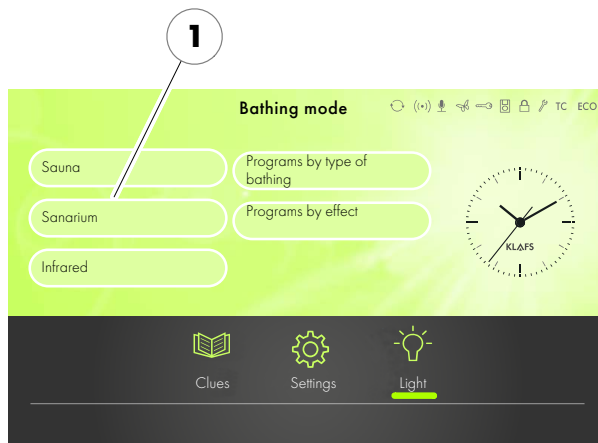
Before commissioning the controller, always ensure that there are no flammable objects near the sauna heater or infrared heater in the cabin.



On models with a key switch (optional), changes to bathing parameters in the sauna cabin must be confirmed by pressing the key switch within 30 minutes. The key switch symbol in the display goes out after confirmation.



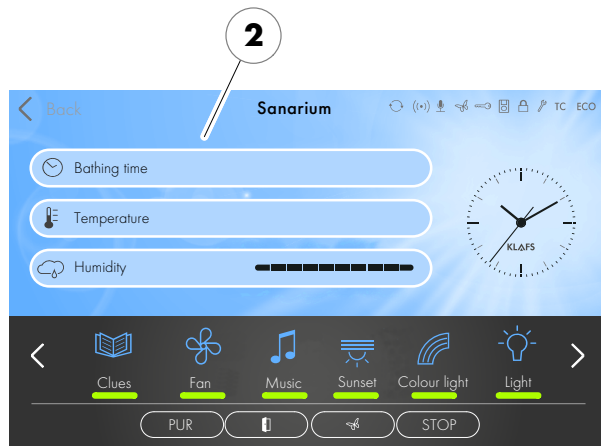
Due to physical phenomena, when the turboheat function is activated, there are temperature differences between the actual temperature in the cabin and the temperatures displayed on the thermometer and on the controller. This temperature is harmonised after a few minutes.



Starting SANARIUM mode

- For SANARIUM bathing mode, commission the evaporator beforehand.
 - To prepare the evaporator, see pages 47, 50, 51, 52.
1. Press the SANARIUM symbol (1).

9.4. SANARIUM mode



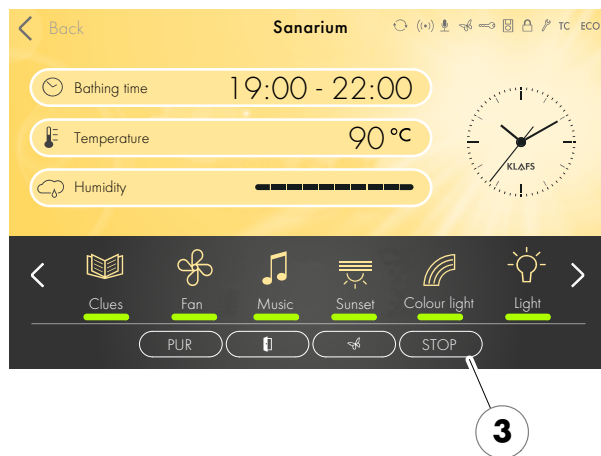
Starting SANARIUM mode

The background colour (2) changes to blue during the heat-up phase. The sauna starts with the bathing parameters that were set for the last program used.

The sauna heater switches on and the cabin heats up.

The background colour (2) changes to "ready to use" (orange). The cabin is ready to use.

- To select a special program/custom program, see page 61.
- To change the temperature, see page 66.
- To change the humidity, see page 67.
- To change the bathing time, see page 65.



Ending SANARIUM mode

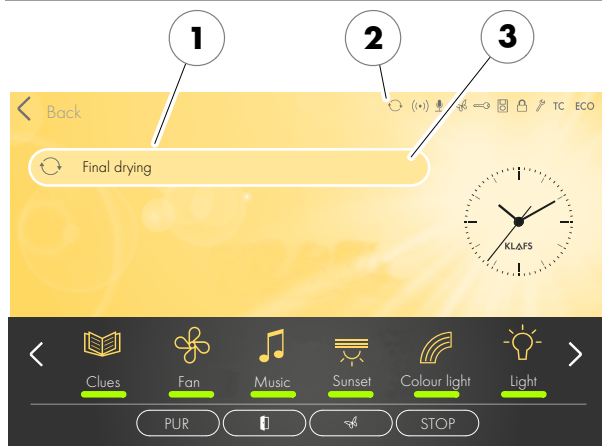
1. Press the STOP symbol (3).

The sauna heater switches off.

Subsequent drying starts.

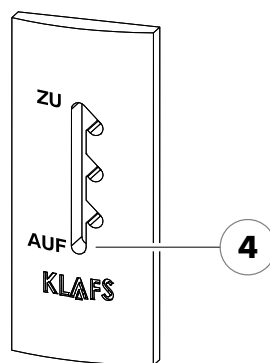
The controller then goes into standby mode.

9.4. SANARIUM mode



Automatic follow-on program (1) after ending SANARIUM mode

1. On models with wall-mounted air extractor control: Set air extractor opening to position 4.
- If SANARIUM was used for more than ten minutes, the follow-on program will start automatically after ending the program. Symbol (2) is displayed. The remaining program time before the follow-on program starts is shown on the display (3).
- The sauna heater heats up again, causing an increased exchange of air. This ventilates the cabin.
- The controller automatically goes into standby mode after the follow-on program has finished.



Airing the cabin

- After ending Sauna / SANARIUM / InfraPLUS mode or the follow-on program, air the cabin by opening the cabin door.
- Open the vent flap (optional) fully when airing the cabin (4).

9.5. InfraPLUS mode (optional)



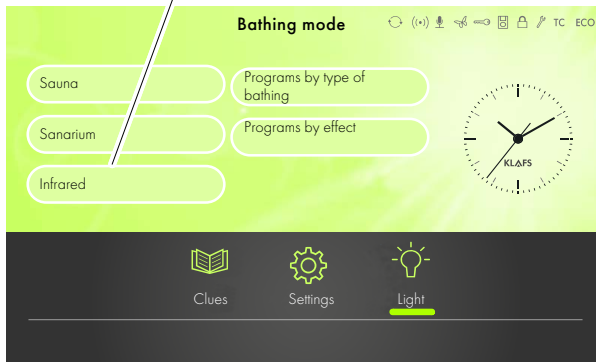
Risk of fire!

Before commissioning the controller, always ensure that there are no flammable objects near the sauna heater or infrared heater in the cabin.

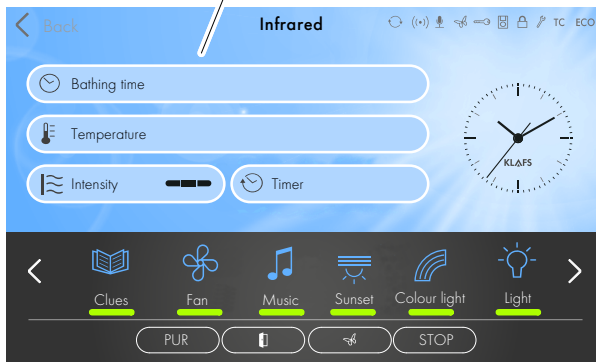


On models with a key switch (optional), changes to bathing parameters in the sauna cabin must be confirmed by pressing the key switch within 30 minutes. The key switch symbol in the display goes out after confirmation.

1



2



Starting InfraPLUS mode

1. Press the "Infrared" symbol (1).

The background colour (2) changes to blue during the heat-up phase. The sauna starts with the bathing parameters that were set for the last program used.

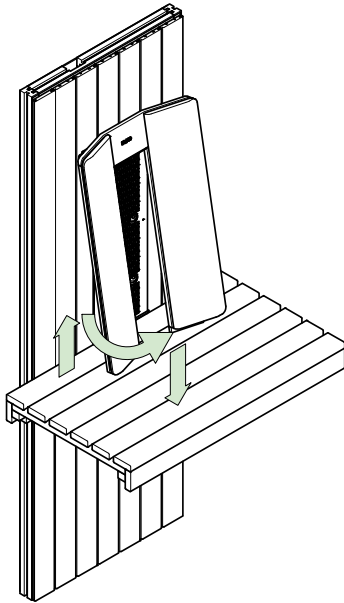
The sauna heater and the InfraPLUS infrared heater switch on. The cabin heats up.

- The infrared heater will not switch on if the cabin temperature is over 50 °C, e.g. due to a previous sauna on SANARIUM session.

The background colour (2) changes to "ready to use" (orange). The cabin is ready to use.

- To select a special program/custom program, see page 61.
- To change the InfraPLUS intensity, see page 68.
- To change the bathing time, see page 65.

9.5. InfraPLUS mode (optional)



Starting InfraPLUS mode

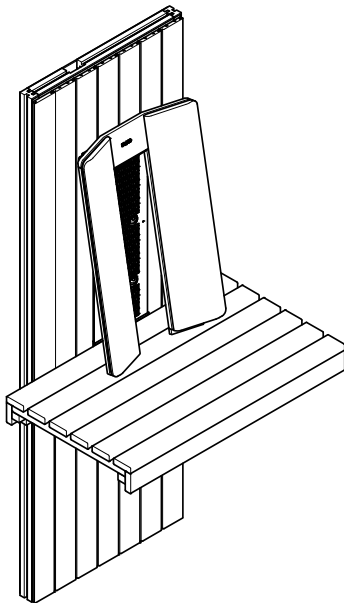
2. Step inside the cabin and put the backrest into position: Raise the backrest, swing it out and then set it down on the bench.
 3. Place a towel down where you will sit.
 4. Sit down in front of the infrared heater with a naked upper body.
- The infrared heater is controlled by measuring the skin's temperature (SensoCare).

SensoCare:



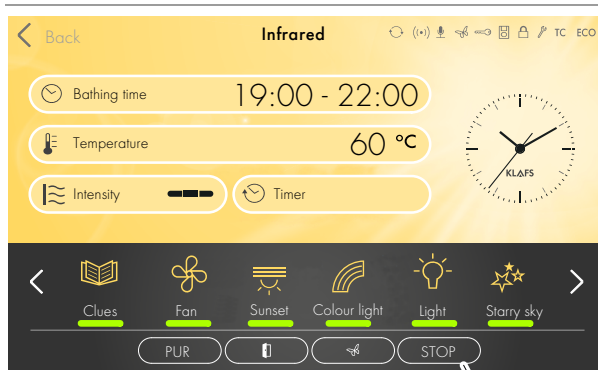
- Fully automatic heat intensity control
- Sensors integrated into the infrared heater
- Protects the skin against high temperatures
- SensoCare measures the skin temperature at four locations without touching the skin, and automatically starts the infrared heater (if the upper body is unclothed)
- Gentle heating occurs on multiple levels

9.5. InfraPLUS mode (optional)



Restarting InfraPLUS mode

- **Convenience function**
After the application has run, simply remain seated. After 1 minute, the Badeform InfraPLUS starts up again automatically.
- The remaining program time will be displayed.



Ending the InfraPLUS mode

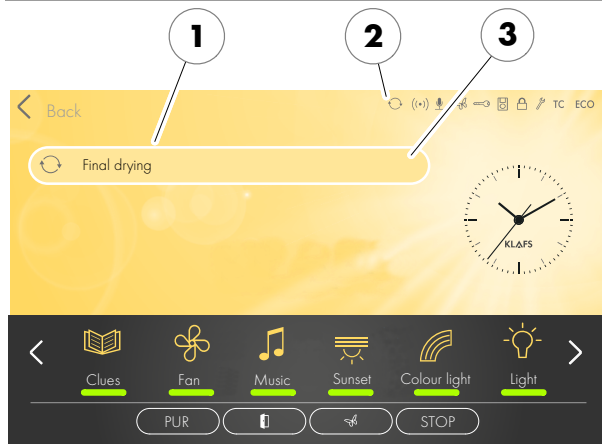
1. Press the STOP symbol (3).

The sauna heater switches off.

Subsequent drying starts (optional).

The controller then goes into standby mode.

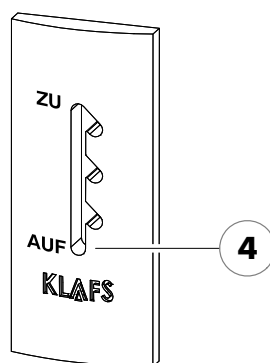
9.5. InfraPLUS mode (optional)



Option: Automatic follow-on program (1) after using InfraPLUS mode

1. On models with wall-mounted air extractor control: Set air extractor opening to position 4.

 - If InfraPLUS was used for more than 10 minutes, the follow-on program will start automatically after the program ends. Symbol (2) is displayed. The remaining program time before the follow-on program starts is displayed digitally (3).
 - The sauna heater heats up again, causing an increased exchange of air. This ventilates the cabin.
 - The controller automatically goes into standby mode after the follow-on program has finished. The time appears on the display.



Airing the cabin

- After using the Sauna/SANARIUM/InfraPLUS mode or follow-on program, air the cabin by opening the cabin door.
- Open the vent flap (optional) fully when airing the cabin (4).

9.6. Blockade control unit (keypad lock)

Removing "blockade control unit" (keypad lock)

1. Touch the screen (1).

The screen for entering your security code will appear.

2. Enter the four digits using the keypad (2). The digits will appear in the line above (3). Press button (4) to delete a number if you enter the wrong one.

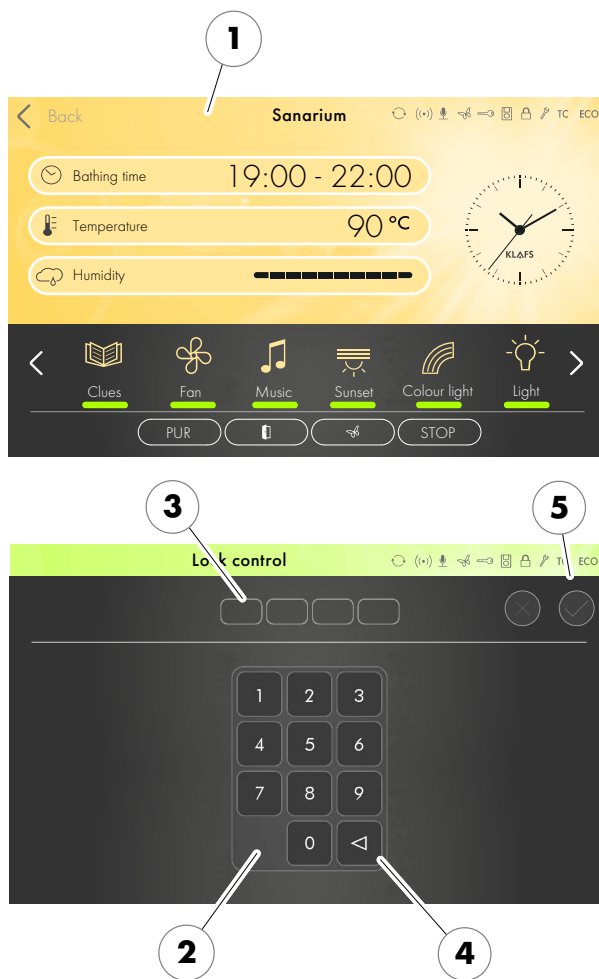
3. Confirm the four digits you entered by pressing the tick symbol (5).

- Once you have entered your security code correctly, you will be able to operate the controller again.

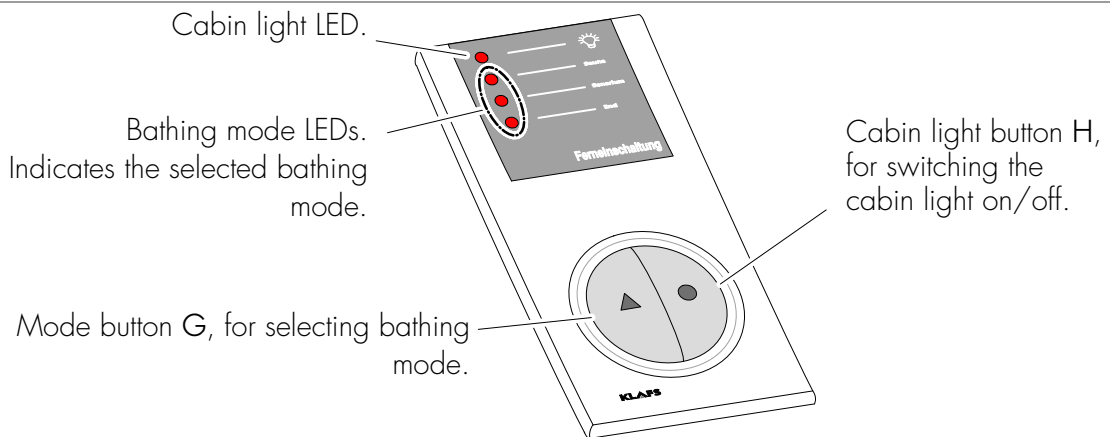
- If you do not touch the screen for a few seconds, the controller will go into standby and "blockade control unit" will be reactivated.

- To enable/disable "blockade control unit", see page 72.

- If you have forgotten your security code, you can disable "blockade control unit" by entering the universal code.
Universal code = "1357".



9.7. Remote power-on unit (optional)



The remote power-on unit is available as an optional extra. Please see delivery documents for scope of supply.

Function


The remote power-on unit is used for:

- Starting and stopping Sauna/SANARIUM modes
- Selecting the bathing mode
- Switching the cabin light on and off

The symbol  appears in the control panel display when the remote power-on unit is connected.

- The cabin light and the bathing mode can be operated independently of each other on the remote power-on unit and the controller.

Switching the cabin light on/off

1. Press the cabin light button H .
- The cabin light cannot be switched off during use.

9.7. Remote power-on unit (optional)

Switching bathing session on/off



Risk of fire!

Before commissioning the controller, always ensure that there are no flammable objects near the sauna heater or infrared heater in the cabin.

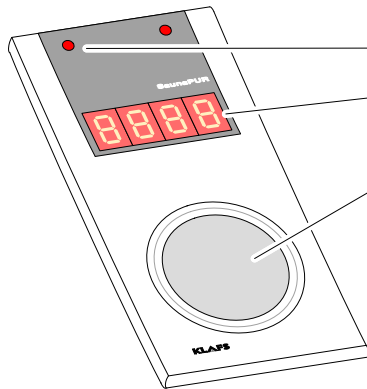
1. Switch on the main switch on the controller.
2. Press the mode **G ▲** button. The LED for the selected bathing mode lights up.
3. The selected bathing mode starts automatically three seconds after the last time a button is pressed.
 - Each time the button is pressed, the next bathing mode is selected.
 - If a different program is to be started for the selected bathing mode, see page 61.
 - If SANARIUM was used for more than ten minutes prior to the end of the program, the follow-on program will start automatically after the program has finished. The END LED flashes in the display of the remote power-on unit during the follow-on program. The LED goes out after the follow-on program has finished.
 - For further steps on using the follow-on program, see page 36.

— 90 °C

— 60 °C

— 40 °C

9.8. Interior display (optional), with SaunAPUR button



SaunaPUR bathing mode LED active/inactive.
Seven-segment display.
SaunaPUR button. Start/stop the bathing mode.

Sauna - time 19.21

Sauna - actual temperature 95°C

SANARIUM - actual humidity 55R.F.

Program end final drying End.

Temperature for SaunaPUR bathing mode not yet reached -no-

Display function

The four-digit seven-segment display alternates between the following:

- Time
- Actual temperature
- Actual humidity


Function of the SaunAPUR button

Start or stop the PUR bathing mode.


- To start the PUR bathing mode, the Sauna bathing mode must be started and the cabin must reach the preset temperature.

9.8. Interior display (optional), with SaunaPUR Button

Starting the SaunaPUR bathing mode

- Prerequisite: The temperature must be reached. The symbol  must be shown on the display.
- If necessary, start the Sauna bathing mode, see page 31.
- It is possible to start the SAUNA PUR bathing mode using the controller or on the interior display (optional).

1. Press the SAUNA PUR bathing mode button.

- If  appears in the seven-segment display, wait until the temperature for the SAUNA PUR bathing mode has been reached. Then try again.
- When the SAUNA PUR bathing mode is active, the SAUNA PUR bathing mode LED lights up.
- After approximately 20 minutes, or once the temperature in the sauna cabin has decreased by approximately 15 °C, the SAUNA PUR bathing mode stops automatically. The sauna heater begins heating again.

Stopping the SaunaPUR bathing mode

1. Press the SAUNA PUR bathing mode button.
- The SAUNA PUR bathing mode LED goes out. The sauna heater begins heating again.

9.9. Green Sauna button (optional)



Symbol (2)
Green Sauna
active operating
status.

Symbol (1)
Green Sauna.

- The Green Sauna function is switched on automatically after switching on the power supply for the sauna cabin. The symbol on the controller is active.

Switching on the Green Sauna function

- Devices that are not required can be switched off when you leave the sauna cabin.
 1. Press the "Green Sauna" button (1). The symbol (1) changes colour, the symbol (2) is active.

The Green Sauna is active.

Switching off the Green Sauna function

- Devices that are required can be switched on when you enter the sauna cabin.
 1. Press the "Green Sauna" button (1). The symbol (1) changes colour, the symbol (2) is deactivated.

The Green Sauna goes into standby mode.

9.10. SANARIUM M - Preparing the evaporator



Filling the evaporator

Fill the evaporator when it is cold.
The maximum fill capacity is 9 litres.

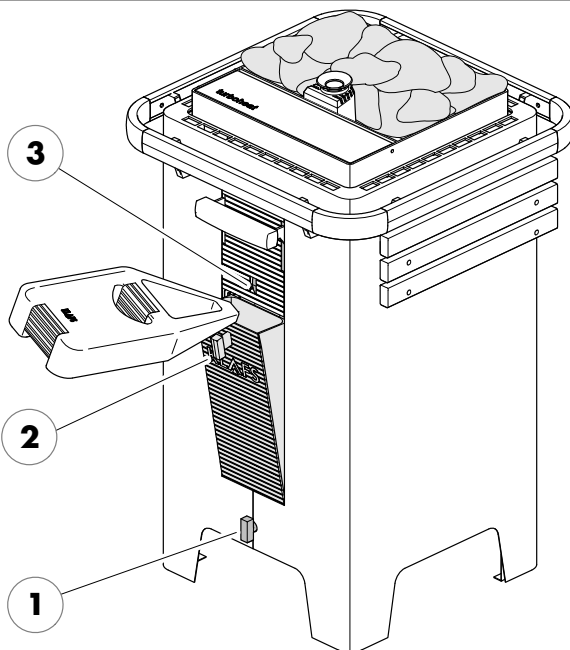


Topping up the evaporator

Topping up the evaporator when it is hot:
The temperature difference causes mechanical stress in the tank, which may become apparent due to a noise when topping up.



Do not put any additives into the water.



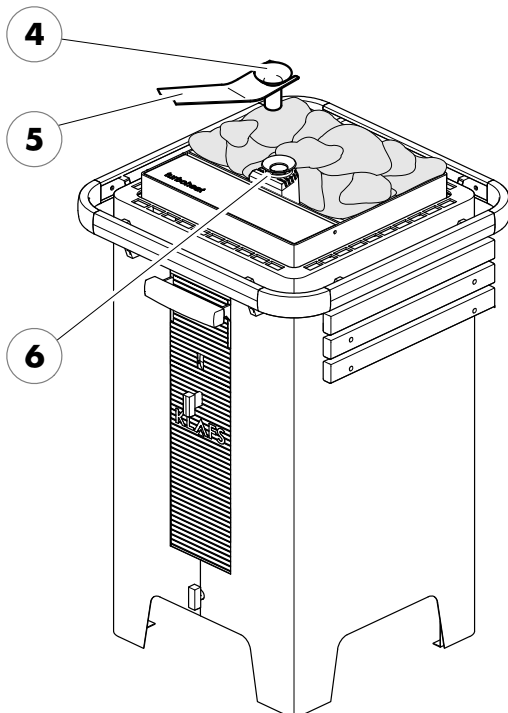
1. Close the drain valve (1) - turn the drain valve to a vertical position.
2. Fill the evaporator's filling unit (2) with water.
3. Do not overfill the evaporator tank. Read the filling quantity on the level indicator (3).
 - If the evaporator tank is overfilled, use the drain valve (1) to drain the water again.

9.10. SANARIUM M - Preparing the evaporator



Risk of fire!

Do not fill the aroma cup on the heater.



4. Remove the aroma cup (4) from the steam outlet (6) with the aroma fork (5).
5. Pour diluted scent into the aroma cup.
6. Place the aroma cup (4) back on the steam outlet (6).

9.10. SANARIUM M - Preparing the evaporator

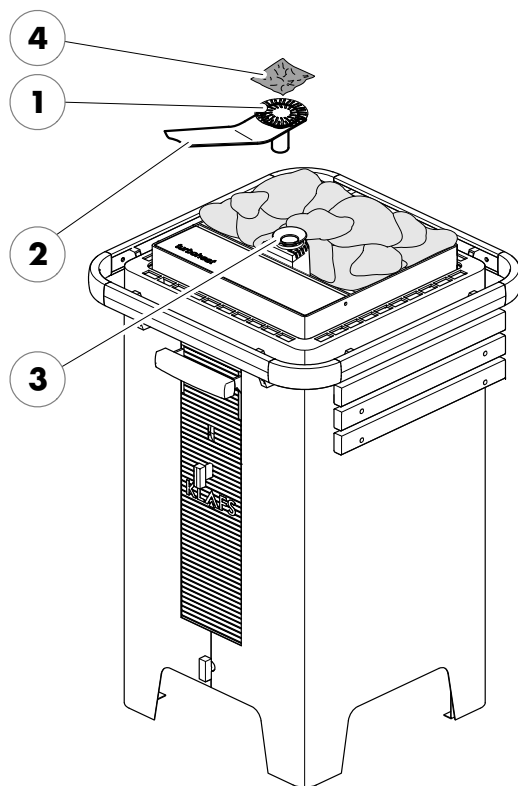


Risk of fire!

Do not place the herbal pillow (4) on the hot stones.



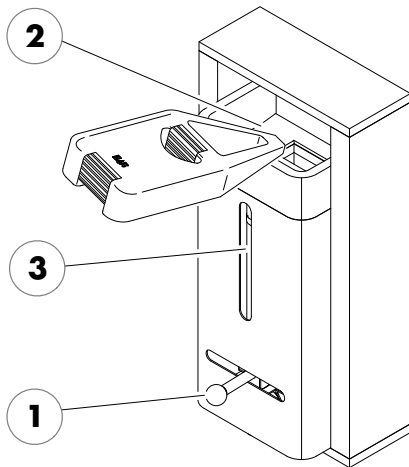
Only use herbal pillows recommend by KLAFS.



Adding the herbal pillow (optional)

1. Remove the herbal pillow holder (1) from the steam outlet (3) with the aroma fork (2).
2. Place the herbal pillow (4) in the holder.
3. Place the herbal pillow holder (1) back on the steam outlet (3).

9.11. SANARIUM B - Commissioning the evaporator



Filling the evaporator

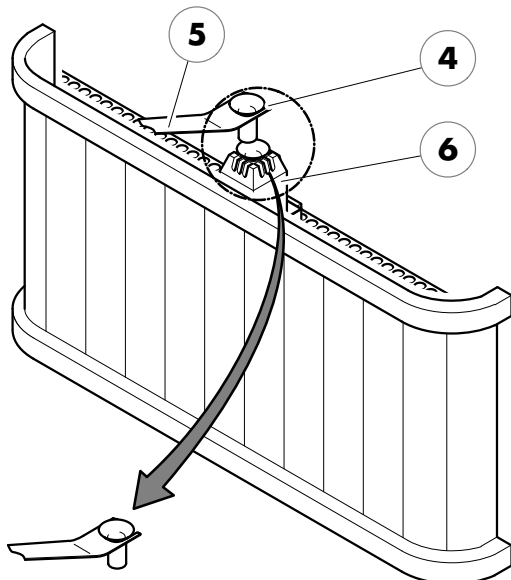


Only fill the evaporator when it is cold.
Fill with the water quantity required for the intended bathing time.



Do not put any additives into the water.

1. Close the drain valve (1) - turn the drain valve to the left.
2. Fill the evaporator on the filling unit (2) with water.
- The filling quantity is shown on the level indicator (3).



Risk of fire!

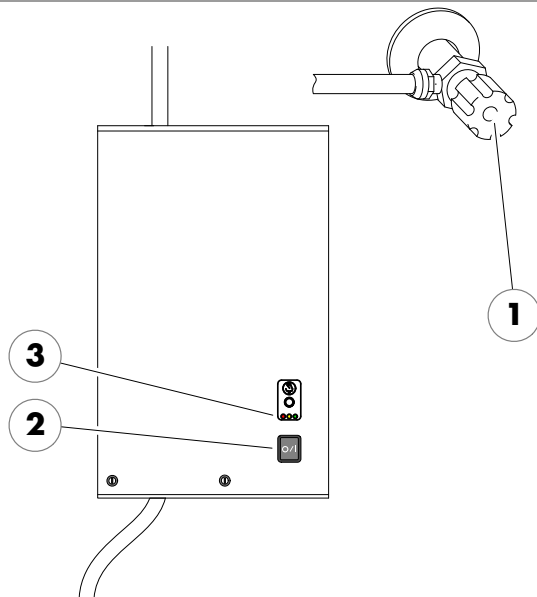


Do not fill the aroma cup on the heater.

Adding scent to the aroma cup

1. Remove the aroma cup (4) from the steam outlet (6) with the aroma fork (5).
2. Pour diluted scent into the aroma cup.
3. Place the aroma cup (4) back on the steam outlet (6).

9.12. SANARIUM S - Preparing the evaporator



1. Open the angle valve (1) for the water inlet.
2. Switch on the illuminated switch (2) on the evaporator.

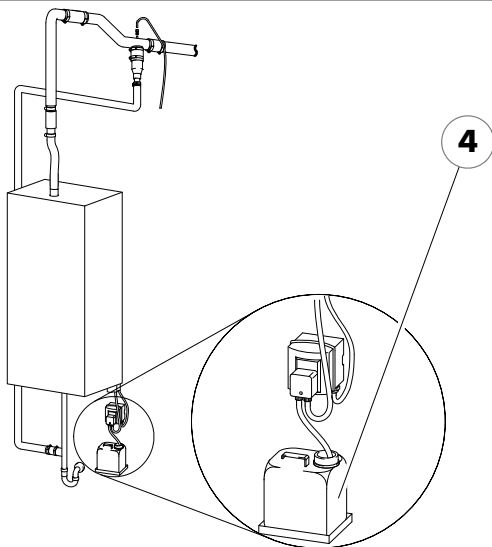
Once the evaporator is ready, the green OPERATION LED lights up. If the yellow or red LED (3) lights up:

Carry out maintenance as described on page 92.



The controller automatically switches the evaporator on.

Birmingham scent dispenser



1. Check the fill capacity on the scent container (4).
 - Replace the scent container.
 - See "Cleaning and maintenance" - page 93.

9.13. Fero S - Preparing the evaporator



Filling the evaporator

Fill the evaporator when it is cold.
The maximum fill capacity is 9 litres.

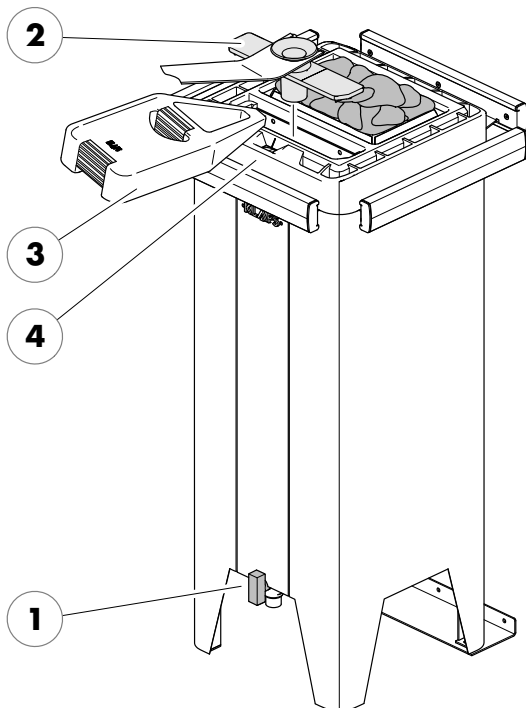


Topping up the evaporator

Topping up the evaporator when it is hot:
The temperature difference causes mechanical stress in the tank, which may become apparent due to a noise when topping up.



Do not put any additives into the water.



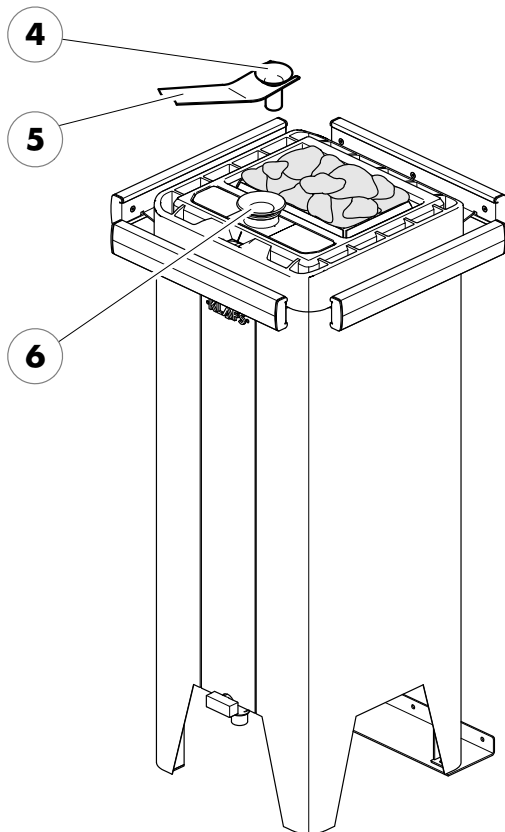
1. Close the drain valve (1) - turn the drain valve to a vertical position.
 2. Use the aroma fork to remove the cover plate (2) from the sauna heater together with the aroma cup.
 3. Fill the filling unit (3) with water. Monitor the fill level on the water level indicator (4).
- If the evaporator tank is overfilled, use the drain valve (1) to drain the water again.

9.13. Fero S - Preparing the evaporator



Risk of fire!

Do not fill the aroma cup on the heater.



Adding scent to the aroma cup

1. Remove the aroma cup (4) from the steam outlet (6) with the aroma fork (5).
2. Pour diluted scent into the aroma cup.
3. Place the aroma cup (4) back on the steam outlet (6).

9.13. Fero S - Preparing the evaporator

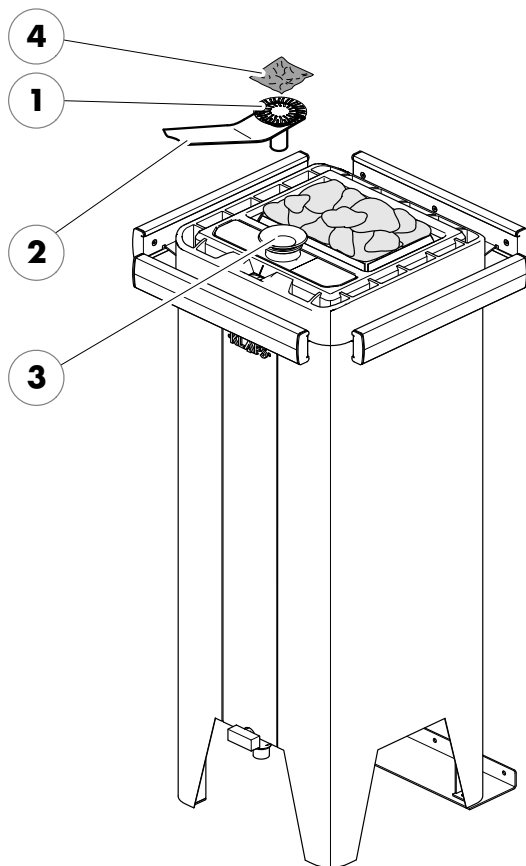


Risk of fire!

Do not place the herbal pillow (4) on the hot stones.



Only use herbal pillows recommend by KLAFS.



Adding the herbal pillow (optional)

1. Remove the herbal pillow holder (1) from the steam outlet (3) with the aroma fork (2).
2. Place the herbal pillow (4) in the holder.
3. Place the herbal pillow holder (1) back on the steam outlet (3).

9.14. SANARIUM M - Decommissioning the evaporator



Drain the water after every bathing session.

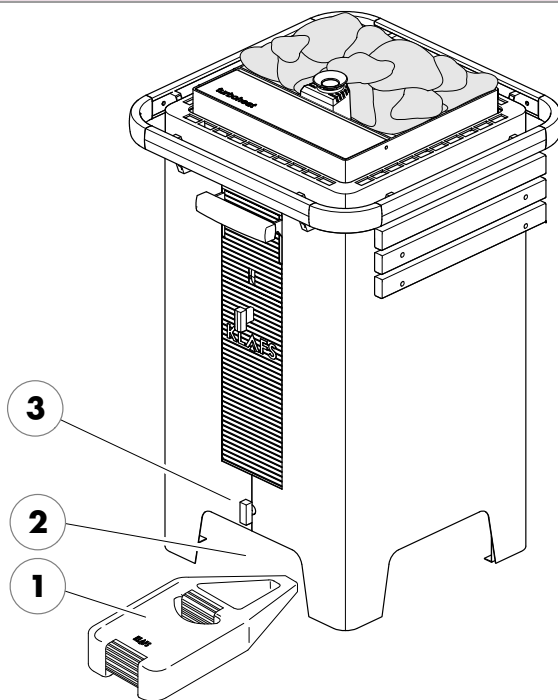


Danger of scalding!

The residual water will be hot straight after a session has finished.

SANARIUM M - draining residual water

1. Place the filler can (1) under the drain (2).
2. Open the drain valve (3) - turn the drain valve to a horizontal position.
3. After the evaporator has been emptied, turn the drain valve (3) back to a vertical position.
4. Empty the filler can (1).



9.14. SANARIUM M - Decommissioning the evaporator



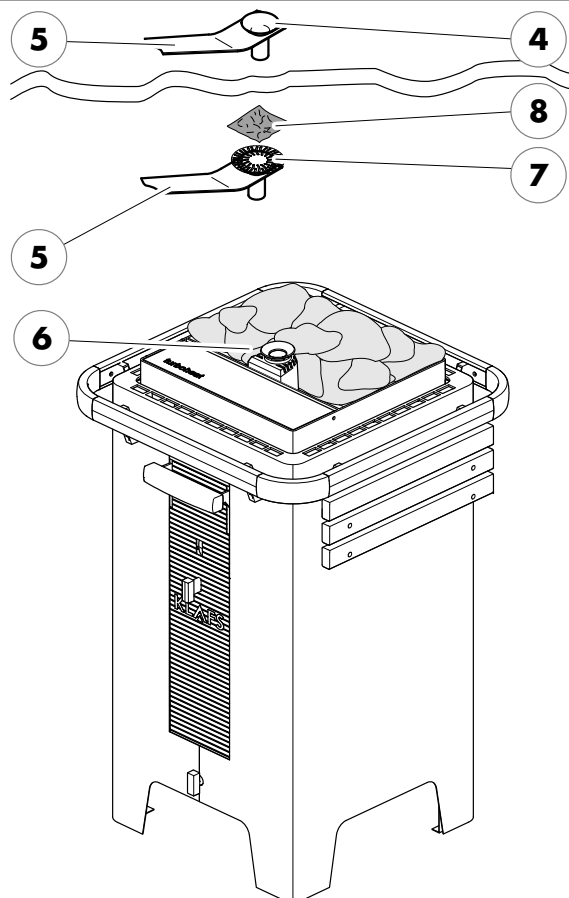
Danger of scalding!

Immediately after the bathing session, the aroma cup is still hot.



Danger of scalding!

The herbal pillow holder will be hot straight after a session has finished.



Emptying the aroma cup

1. Remove the aroma cup (4) from the steam outlet (6) with the aroma fork (5).
2. Rinse the aroma cup with water.
3. Place the aroma cup (4) back on the steam outlet (6).

Removing the herbal pillow (optional)

1. Remove the herbal pillow holder (7) from the steam outlet (6) with the aroma fork (5).
2. Dispose of the herbal pillow (8).
3. Place the herbal pillow holder (7) back on the steam outlet (6).

9.15. SANARIUM B - Decommissioning the evaporator



Drain the water after every bathing session.



Danger of scalding!

The residual water will be hot straight after a session has finished.

Draining residual water

1. Place the filler can (1) under the drain (2).
2. Open the drain valve (3) - turn the drain valve to the right.
3. Once the evaporator is empty, turn the drain valve (3) to the left again.
4. Empty the filler can (1).

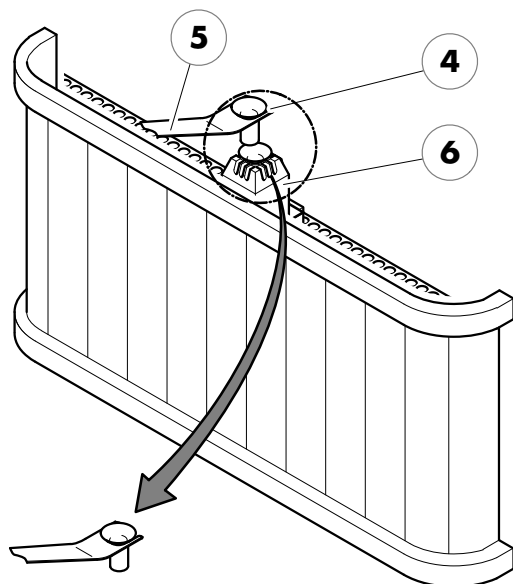
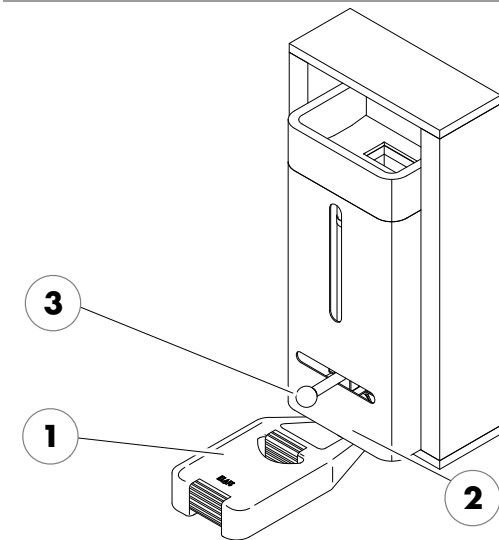


Danger of scalding!

Immediately after the bathing session, the aroma cup is still hot.

Emptying the aroma cup

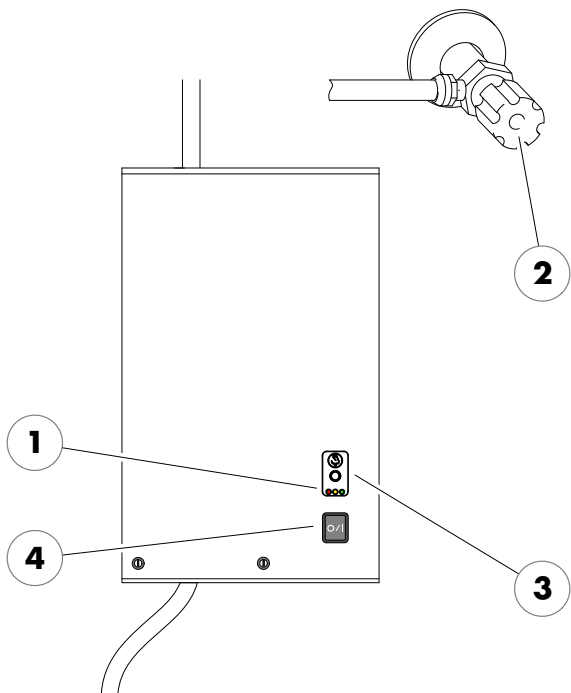
1. Remove the aroma cup (4) from the steam outlet (6) with the aroma fork (5).
2. Rinse the aroma cup with water.
3. Place the aroma cup (4) back on the steam outlet (6).



9.16. SANARIUM S - Decommissioning the evaporator



Decommission the evaporator when it is not in use for prolonged periods of time.
If the yellow or red LED (1) lights up:
Carry out maintenance as described on page 92.



1. Close the angle valve (2) for the water inlet.
2. Press the DRAIN button (3) until the steam cylinder is empty.
3. Turn the main switch (4) OFF.

9.17. Fero S - Decommissioning the evaporator



Drain the water after every bathing session.

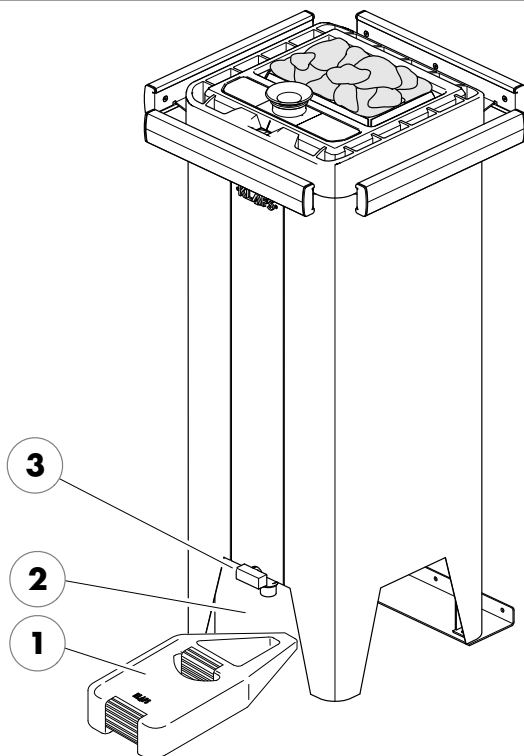


Danger of scalding!

The residual water will be hot straight after a session has finished.

Fero S - Draining the residual water

1. Place the filler can (1) under the drain (2).
2. Open the drain valve (3) - turn the drain valve to a horizontal position.
3. After the evaporator has been emptied, turn the drain valve (3) back to a vertical position.
4. Empty the filler can (1).



— 90 °C

— 60 °C

— 40 °C

9.17. Fero S - Decommissioning the evaporator



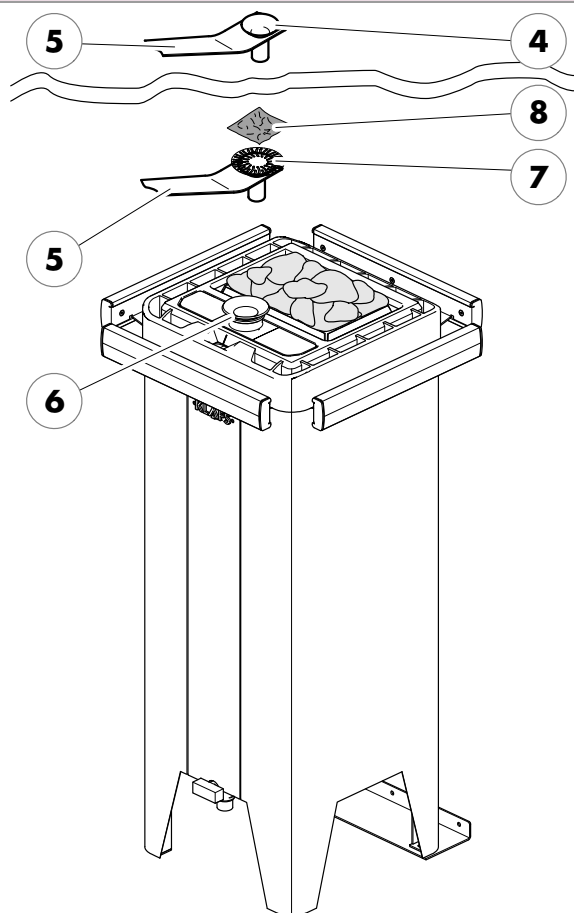
Danger of scalding!

Immediately after the bathing session, the aroma cup is still hot.



Danger of scalding!

The herbal pillow holder will be hot straight after a session has finished.



Emptying the aroma cup

1. Remove the aroma cup (4) from the steam outlet (6) with the aroma fork (5).
2. Rinse the aroma cup with water.
3. Place the aroma cup (4) back on the steam outlet (6).

Removing the herbal pillow (optional)

1. Remove the herbal pillow holder (7) from the steam outlet (6) with the aroma fork (5).
2. Dispose of the herbal pillow (8).
3. Place the herbal pillow holder (7) back on the steam outlet (6).

10. CUSTOM SETTINGS

10.1. Programs by type of bathing



Each bathing mode offers the last bathing program you used (with your custom settings) and special programs with preset bathing parameter settings that cannot be changed.

Any changes made to bathing parameters are saved automatically.

If the personalised bathing parameter settings are the same as the settings in one of the standard programs, the standard program is automatically selected.

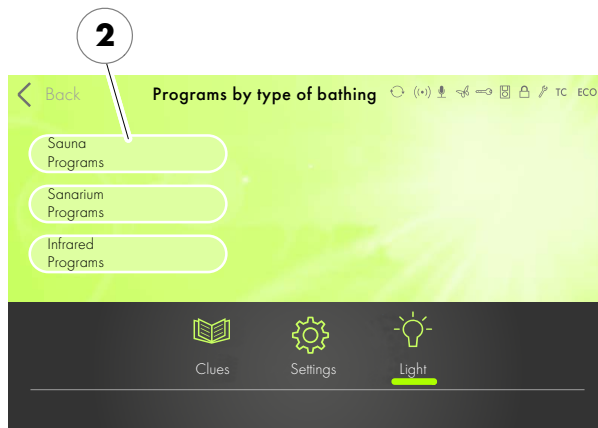
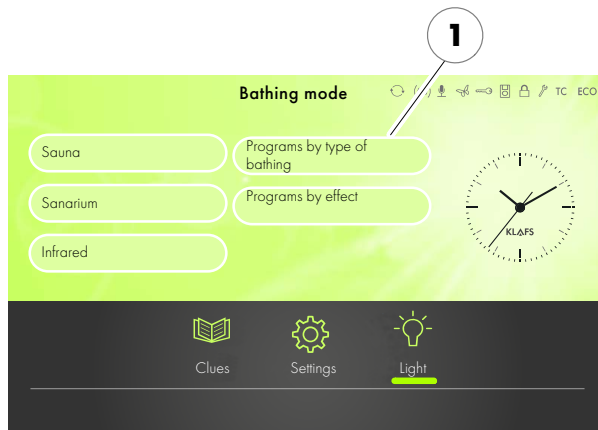
Programs by type of bathing

1. Press the Programs by type of bathing symbol (1).

The program selection screen appears.

2. Touch the program you would like to use. E.g. Sauna Programs (2).

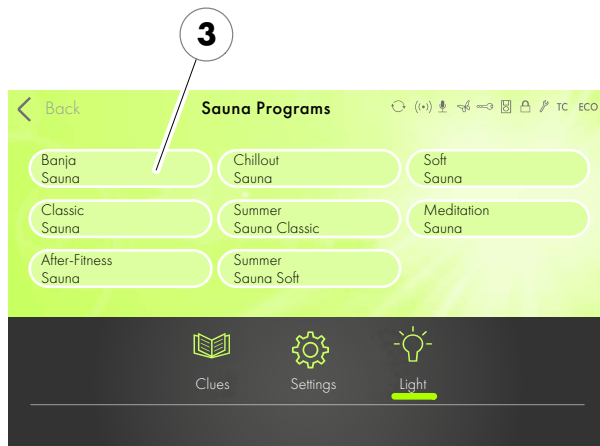
Additional sub-programs to the selected program are displayed.



10.1. Programs by type of bathing

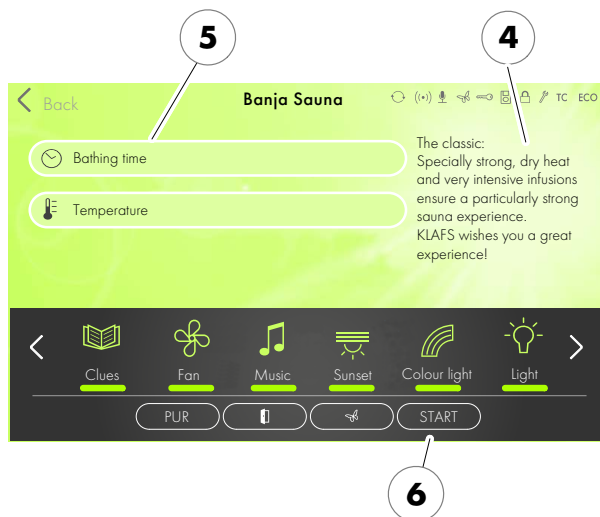
Programs by type of bathing

3. Touch the program you would like to use. E.g. Banja Sauna (3).



The program descriptions (4) are displayed alongside the saved bathing parameters (5) such as the temperature, humidity, intensity or bathing time.

4. Start the selected program by pressing the symbol (6).



10.2. Programs by effect



Each bathing mode offers the last bathing program you used (with your custom settings) and special programs with preset bathing parameter settings that cannot be changed.

Any changes made to bathing parameters are saved automatically.

If the personalised bathing parameter settings are the same as the settings in one of the standard programs, the standard program is automatically selected.

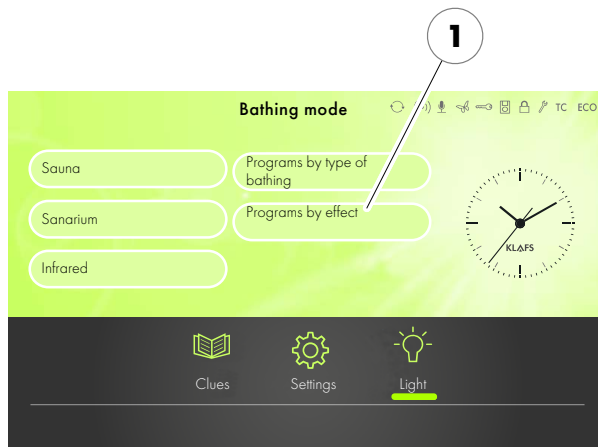
Programs by effect

1. Press the Programs by effect symbol (1).

The program selection screen appears.

2. Touch the program you would like to use. E.g. Cardio (2).

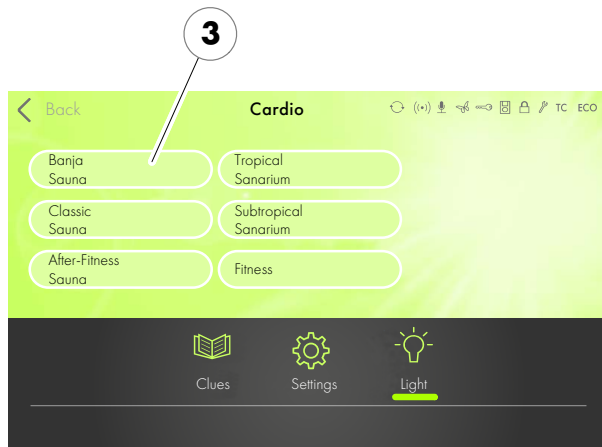
Additional sub-programs to the selected program are displayed.



10.2. Programs by effect

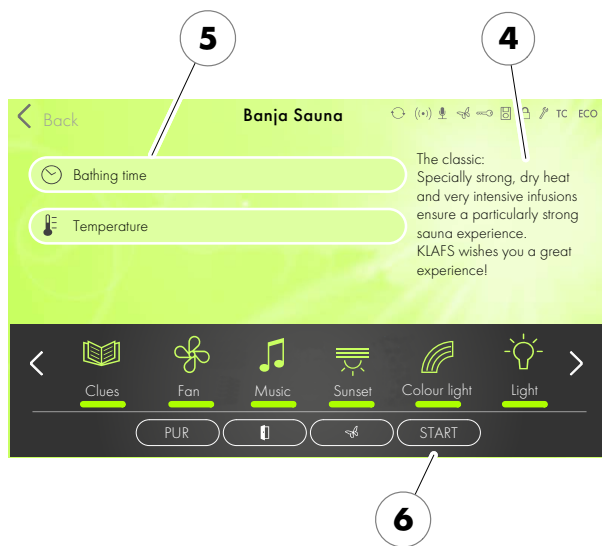
Programs by effect

3. Touch the program you would like to use. E.g. Banja Sauna (3).



The program descriptions (4) are displayed alongside the saved bathing parameters (5) such as the temperature, humidity, intensity or bathing time.

4. Start the selected program by pressing the symbol (6).



10.3. Setting the bathing time



Risk of fire

Before commissioning the controller, always check that there are no inflammable objects on or near the sauna heater.



If the slider is at the far left, the selected bathing mode will start immediately.



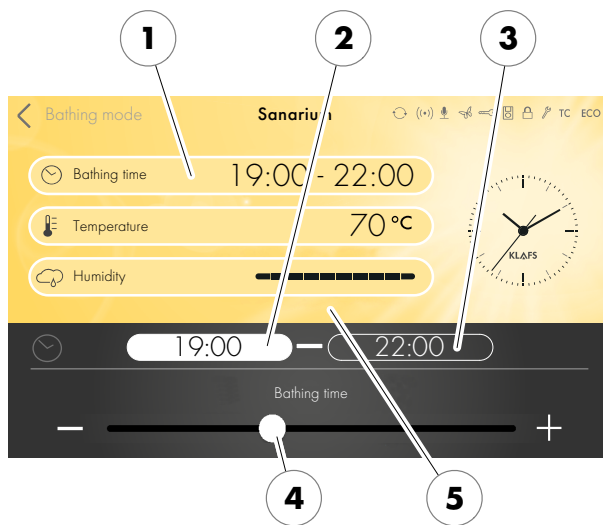
In preset time mode (start time in the future), the length of the last heatup phase is subtracted.

Changing the bathing time

1. Press the Bathing time line (1) to activate it.

The Bathing time line (1) changes the background colour.

2. Select "Start time" (2) and use the +/- buttons or the slider (4) to set the start time.
3. Select "End time" (3) and use the +/- buttons or the slider (4) to set the end time.
 - Slider at the far right = maximum operating time; slider at the far left = operating time of 1 Minute.
4. Confirm the setting by touching the screen (5).
 - The value is automatically accepted after three seconds. Alternatively, this can be done by tapping on an empty area of the screen.



10.4. Setting the temperature

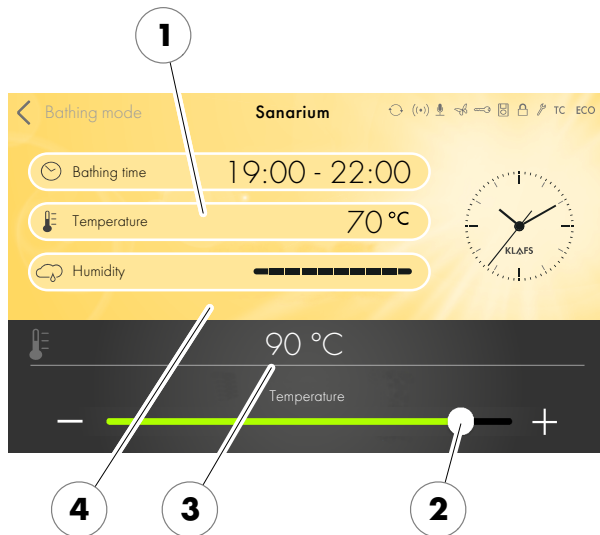
Changing the temperature

1. Press the Temperature line (1) to activate it.

The Temperature line (1) changes the background colour.

2. Use the +/- buttons or the slider (2) to set the temperature (3) you require.
3. Then confirm the setting by touching the screen (4).

- The value is automatically accepted after three seconds. Alternatively, this can be done by tapping on an empty area of the screen.



— 90 °C

— 60 °C

— 40 °C

10.5. Setting the SANARIUM humidity



The humidity can only be set in SANARIUM mode.

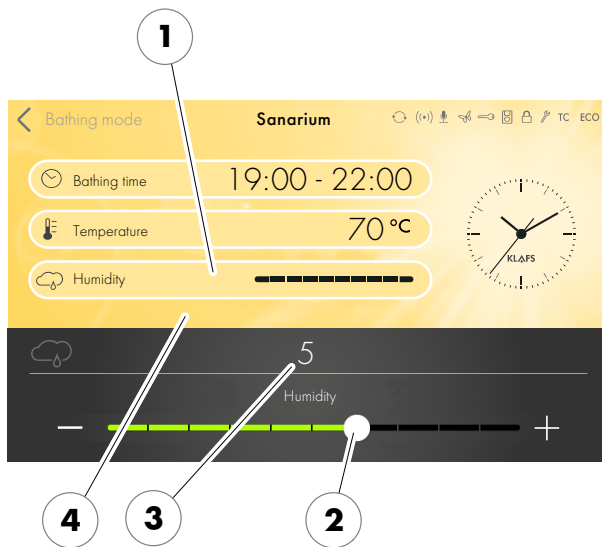
Changing the humidity

1. Press the Humidity line (1) to activate it.

The Humidity line (1) changes the background colour.

2. Use the +/- buttons or the slider (2) to set the humidity (3) you require.
3. Then confirm the setting by touching the screen (4).

- The value is automatically accepted after three seconds. Alternatively, this can be done by tapping on an empty area of the screen.



10.6. Setting InfraPLUS (optional)

Changing the intensity and running time of the infrared heater

1. Press the Intensity line (1) to activate it.

The Intensity line (1) changes the background colour.

2. Use the +/- buttons or the slider (2) to set the intensity you require.
3. Then confirm the setting by touching the screen (3).
4. Press the Bathing time line (4) to activate it.

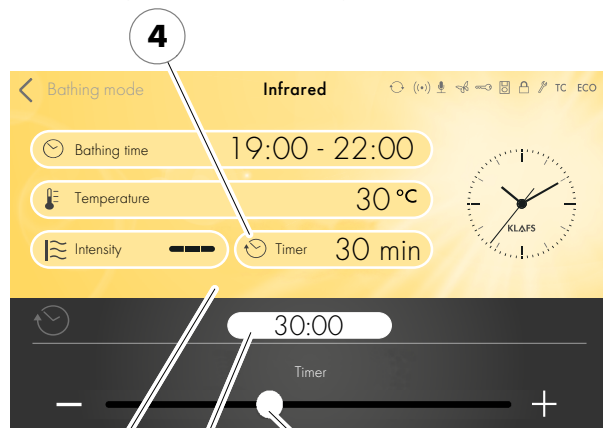
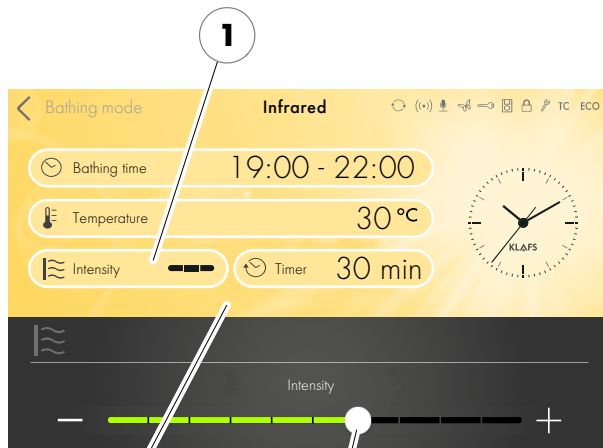
The Bathing time line (4) changes the background colour.

5. Use the +/- buttons or the slider (5) to set the bathing time (6) you require.

- The bathing time can be set to between 0 and 30 minutes in one-minute increments.

6. Then confirm the setting by touching the screen (7).

- The value is automatically accepted after three seconds. Alternatively, this can be done by tapping on an empty area of the screen.



90 °C

60 °C

40 °C

10.7. Music

Selecting and switching on music

1. Press the Music symbol.
2. Select the track you want (1) by pressing the </> buttons.
3. Use the +/- buttons or the slider (3) to set the volume (2) you require. Moving the slider to "on" starts the music automatically and closes the screen.
4. Switch on the music using the switch (4).
5. Then confirm the setting by touching the screen (5).



The music is played.

- The value is automatically accepted after three seconds. Alternatively, this can be done by tapping on an empty area of the screen.

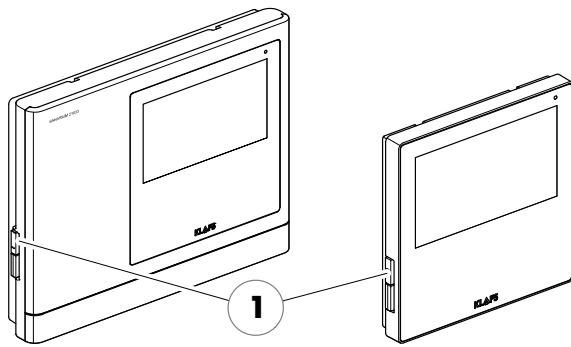
The selected track is saved and the menu for adjusting the volume is displayed.

Switching off the music

1. Switch off the music using the switch (1).

The music is switched off.

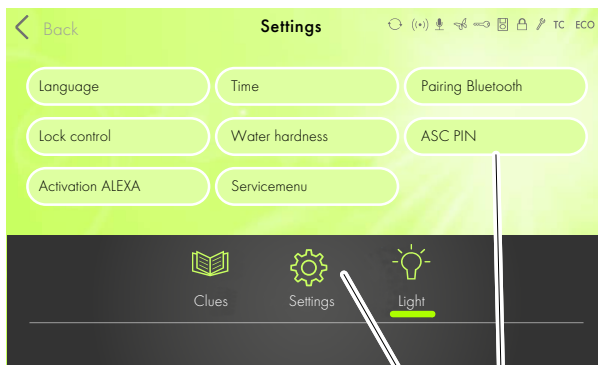
10.8. Assigning a PIN to the controller (optional)



Entering a PIN for remote control of the controller

A PIN is required to switch on the controller via the KLAFS app.

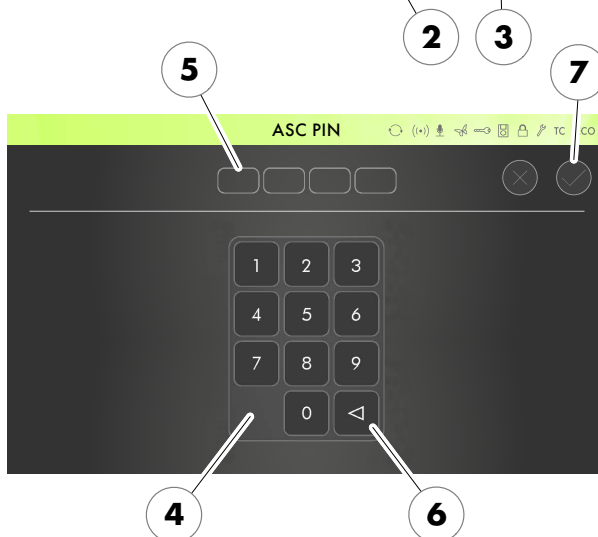
1. Switch the controller on at the main switch (1).
2. Press the "Settings" symbol (2).
3. Press the ASC PIN (3) line.



The screen for entering the ASC PIN will appear.

Create and note down your PIN (four-digit number).

4. Enter the four digits using the keypad (4). The digits will appear in the line above (5). Press button (6) to delete a number if you enter the wrong one.
5. Confirm the four digits you have entered by pressing the tick symbol (7).



Any four-digit number can be used as your PIN except for "1111" and "2222", which have already been allocated to KLAFS.



The lock will be activated when you switch on the controller and once the bathing session has ended.

10.8. Assigning a PIN to the controller (optional)



6. Switch the controller off and then on again at the main switch (1).

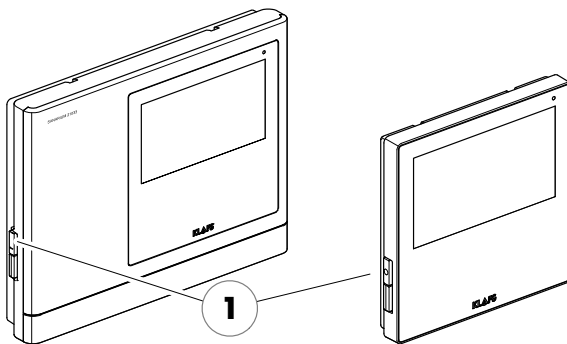
The KLAFS WLAN module in the controller will be activated after you have switched the controller on.

The activation process takes approximately 30 seconds and is indicated by the symbol (8) flashing.

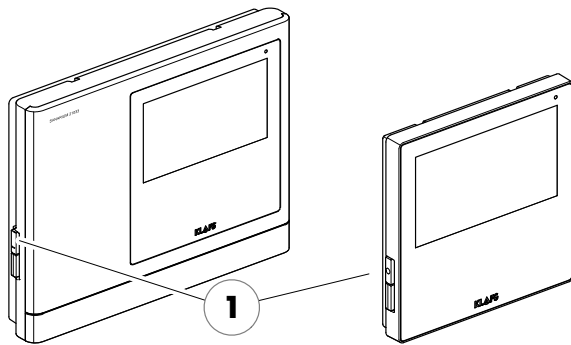
Once the activation process is complete, the WLAN symbol (8) stops flashing and remains lit.

The KLAFS WLAN module is now ready to be configured.

To configure the KLAFS WLAN module, see the installation instructions with the item number 5060108/5060109.



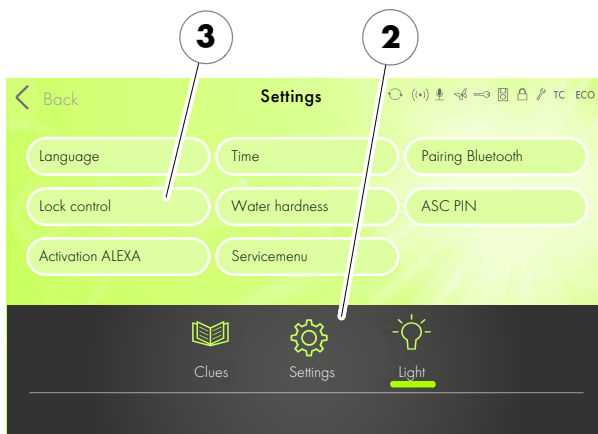
10.9. Enabling/disabling "blockade control unit" (locking/unlocking the keypad)



Calling up the "blockade control unit" menu

When enabled, the "blockade control unit" function prevents the controller from being operated unintentionally.

1. Switch the controller on at the main switch (1).
2. Press the "Settings" symbol (2).
3. Press the "Blockade control unit" line (3).



Any four-digit number can be used as your PIN except for "1111" and "2222", which have already been allocated to KLAFS.

10.9. Enabling/disabling "blockade control unit" (locking/unlocking the keypad)

Enabling "blockade control unit" (keypad lock)

Create and note down a custom security code (four-digit number).

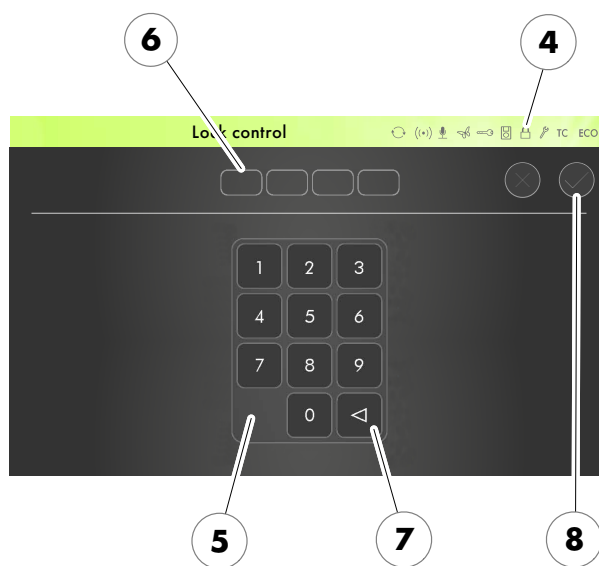
4. Enter the four digits using the keypad (5). The digits will appear in the line above (6). Press button (7) to delete a number if you enter the wrong one.
5. Confirm the four digits you entered by pressing the tick symbol (8).

When "blockade control unit" is enabled, the lock symbol will appear (4).

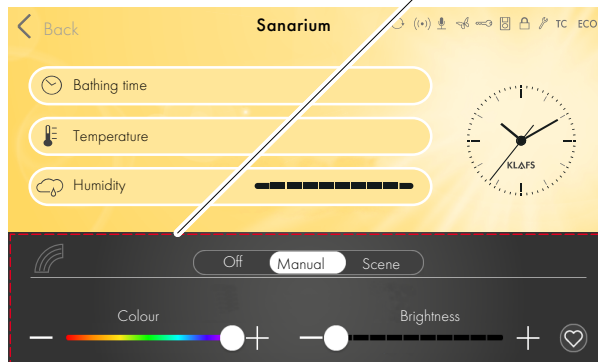
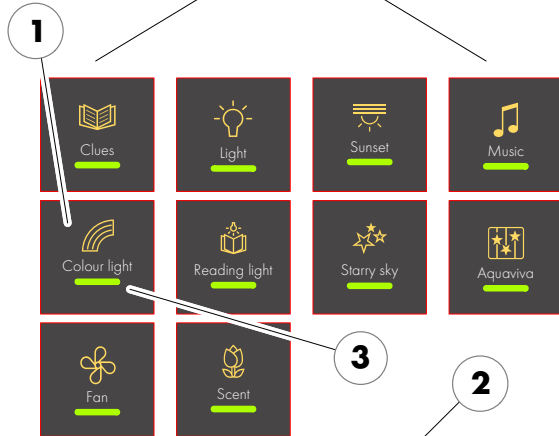
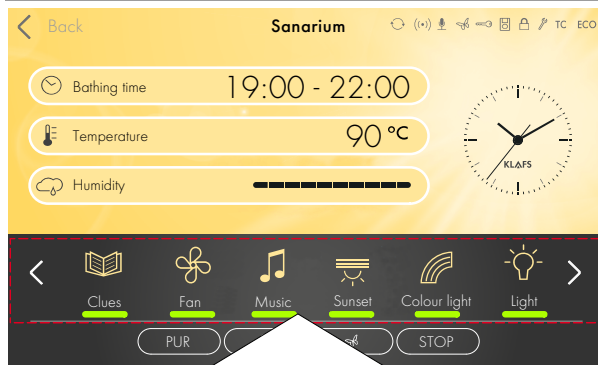
Once the controller has switched to standby, you will not be able to operate it without entering your custom security code first.

Disabling "blockade control unit" (keypad lock)

1. Call up the "blockade control unit" menu.
2. Enter "1111" using the keypad (5). The digits will appear in the line above (6).
3. Confirm the four digits you entered by pressing the tick symbol (8).



10.10. Extras



Switching extras on

- The number of symbols displayed depends on the functions and features of the cabin.
- 1. Press the relevant symbol, e.g. (1).

The extra is switched on.

- The green light bar (3) indicates that the extra is switched on.
- If the extra is adjustable, a sub-menu (2) will appear underneath it.

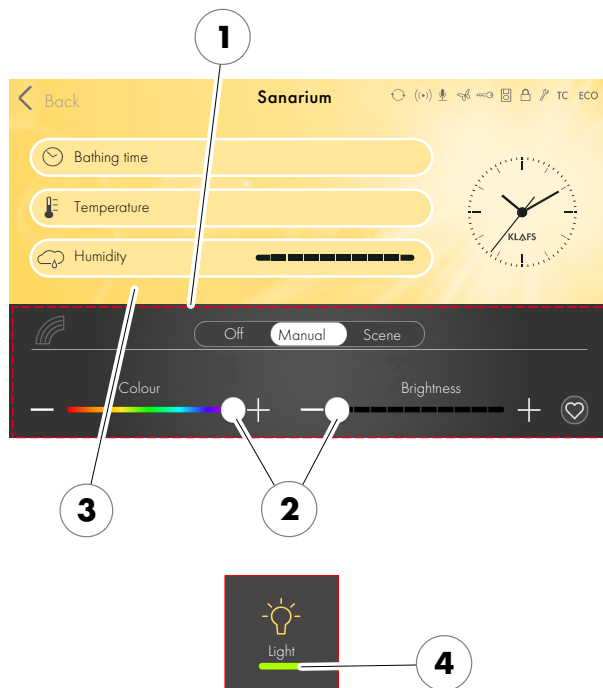
Switching extras off

1. Press the relevant symbol (1).

The extra (2) is switched off.

- The green light bar (3) disappears.
- Or switch off the extra (2) in the sub-menu.

10.10. Extras



Switching on and configuring adjustable extras

1. You can change the settings of adjustable extras (1) using the +/- buttons or the slider (2).
 - Setting the adjustable extras (1) to 0 switches them off.
2. Apply the change by touching the screen (3).
 - The green light bar (4) appears.

The adjustable extra (1) then starts with the setting entered.

Switching adjustable extras off

1. Change the settings of adjustable extras (1) to 0 using the +/- buttons or the slider (2).
2. Apply the change by touching the screen (3).

The adjustable extra (1) is switched off.

- The green light bar (4) disappears.

10.11. Extras: Coloured light

Setting the coloured light

1. Press the Colour light symbol.

The display for setting the coloured light appears.

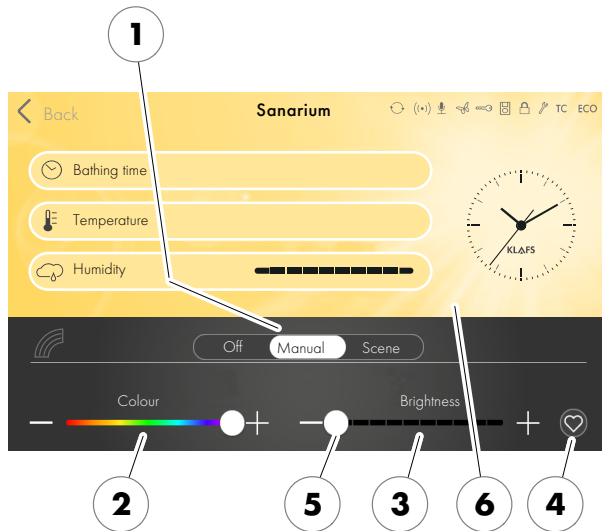
2. Press the switch (1) to change the coloured light settings manually.

3. The menu below allows you to adjust the following settings:

- Colour spectrum (2)
- Brightness (3)
- Favourite settings (4).

4. Use the +/- buttons or the slider (5) to configure the settings you want.

5. Then apply the setting by touching the screen (6).



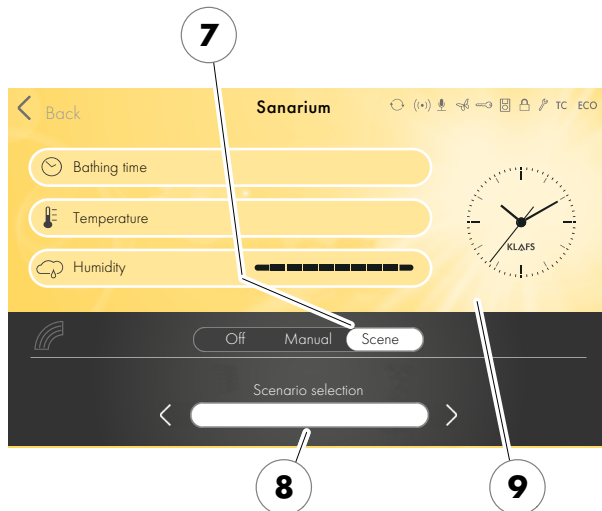
Set a theme

1. Touch the switch (7) to select a theme for the coloured light.

2. The menu below shows a list of available options.

3. Select the theme you want (8) by pressing the </> buttons.

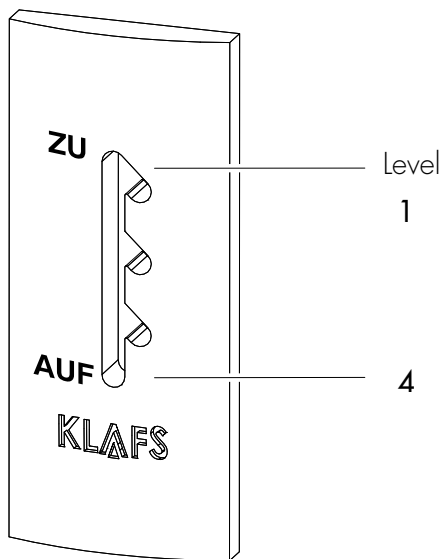
4. Apply the change by touching the screen (9).



10.12. Vent flap for airing and ventilating the cabin (optional)

Correct airing and ventilation ensure an optimum climate.

The KLAFS vent wall with adjustable vent flap (optional) allows you to regulate the air flow rate.



Ventilation: Heating mode

Vent flap, level 1

There is only a low air flow at this setting.

Ventilation: Sauna mode

Vent flap, level 4

Session with maximum number of users.

There is maximum air flow at this setting.

The higher the air flow rate, the better the sauna climate. Intermediate levels can be selected depending on the number of users.

However, you must distinguish between Sauna, SANARIUM or InfraPLUS (optional) mode.

Sauna:

Vent flap, level 4 to 3.

SANARIUM:

Vent flap, level 1 to 2.

InfraPLUS:

Vent flap, level 1 to 2.



Set the vent flap to level 4 during final drying.

11. IF SOMETHING DOES NOT WORK

11.1. Error messages on the display

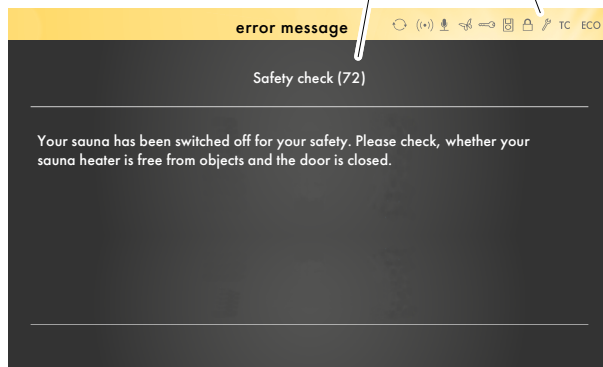


Risk of injury and damage to property

Repairs and maintenance must only be carried out by KLAFS service engineers or by technicians expressly authorised by KLAFS. customerservice@klafs.de. KLAFS can only provide repairs and servicing work under warranty if this work is carried out by KLAFS service engineers.

2

1




Error messages

The Service symbol (1) appears together with the error message number (2) (e.g. 72).

The controller may still be operational while the Service symbol is flashing, depending on the nature of the fault.

No.	Fault	Remedial measures
69	The basic heat sensor in the InfraPLUS heater is missing or defective.	Stop using infrared bathing mode. <ul style="list-style-type: none"> Contact KLAFS service engineers. customerservice@klafs.de
70	The skin temperature sensors in the InfraPLUS heater are missing or defective.	
72	A sauna heater cover was detected.	Check the sauna heater and remove any objects. Check the service menu point 34 setting.
	The cabin door was opened during the heat-up phase.	Close the cabin door.
80	Climate Manager fault	<ul style="list-style-type: none"> Contact KLAFS service engineers.

11.1. Error messages on the display

No.	Fault	Remedial measures
89	Cooling unit power pack too hot.	Check the venting of the cooling unit at the power pack solid-state relay/power pack 21040 T.
90	Low water level in the evaporator.	<ol style="list-style-type: none"> 1. Top up the water in the evaporator. 2. Reset the error message - to do this, switch the controller main switch off and back on again.
91	Safety-contact switch (SCS) has tripped.	<p>Remove the object from the grille above the sauna heater.</p> <hr/> <p>Check whether the grille has been removed. Fit the grille in place.</p>
92	<p>SANARIUM M: Service required, decalcify the evaporator.</p> <ul style="list-style-type: none"> • If the water hardness is set to 0 °dH, the error message 92 will not appear. • See page 29. 	<p>Service the evaporator.</p> <ul style="list-style-type: none"> • SANARIUM M: See page 87. <p>When the controller is in standby, reset error 92 by pressing and holding the symbol for one second.</p>
93	Humidity is too low.	<div style="text-align: center;">  </div> <p>Switch the controller off at the mains.</p> <p>Do not use the sauna cabin.</p> <ul style="list-style-type: none"> • Contact KLAFS service engineers. • customerservice@klafs.de
94	Humidity is too high.	
95	Line break in the actual temperature sensor.	
96	Line break in the heater temperature sensor.	
97	The safety temperature limiter (STL) is interrupted.	
98	Short circuit in the actual temperature sensor.	
99	Short circuit in the heater temperature sensor.	


11.2. Other possible errors

Fault	Cause	Remedy
The controller cannot be switched on.	No mains power available.	Check the residual-current circuit breaker and the fuse in the power supply.
	Fuse SI4 or SI5 has blown.	Replace fuse SI4 (1.6 AT) or SI5 (2.5 AT) or contact KLAFS service engineers. <ul style="list-style-type: none"> customerservice@klafs.de
The LED on the humidity sensor lights up (SANARIUM M, B, S, Fero S).	There is no water.	Fill the M, B, S, Fero S evaporator with water. <ul style="list-style-type: none"> See page 47/50/51/52.
There is no steam escaping (SANARIUM M, B, S, Fero S).	Line break.	<ul style="list-style-type: none"> See servicing instructions 50701466/50701467.
	The heating rod is faulty.	
	The fuse SI700 in the 21040 T controller cut out.	Replace the fuse SI700 (16 AT) in the 21040 T controller.
The cabin light does not light up after having been switched on.	The bulb is defective.	Change the bulb. <ol style="list-style-type: none"> Disconnect the controller from the mains. Replace with a bulb of the same wattage.
	No mains power.	Check the residual-current circuit breaker and the fuse in the power supply.
	Light fuse SI3 has blown.	Replace light fuse SI3 (1.25 AT) or contact KLAFS service engineers. <ul style="list-style-type: none"> customerservice@klafs.de


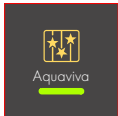
11.2. Other possible errors

Fault	Cause	Remedy
The fan is not working.	No mains power.	Check the residual-current circuit breaker and the fuse in the power supply.
	Fuse SI4 has blown.	Replace fuse SI4 (1.6 AT) or contact KLAFS service engineers. <ul style="list-style-type: none"> customerservice@klafs.de
	The fan is defective.	Replace the fan. <ol style="list-style-type: none"> Disconnect the controller from the mains. Replace with a fan of the same wattage.
	The main switch is not switched on.	Switch on the main switch.
No power at output AG1.	Fuse AG1 SI1 has blown.	Replace fuse AG1 SI1 (1.6 AT) or contact KLAFS service engineers. <ul style="list-style-type: none"> customerservice@klafs.de
No power at output AG2.	Fuse AG2 SI2 has blown.	Replace fuse AG2 SI2 (1.6 AT) or contact KLAFS service engineers. <ul style="list-style-type: none"> customerservice@klafs.de
	The controller is in standby mode.	Start a bathing mode.
The LED on the evaporator lights up, the <i>Cloud</i> symbol flashes in the controller display (SANARIUM S).	There is no water.	Open the angle valve on the evaporator. <ul style="list-style-type: none"> See page 51.
There is no steam escaping (SANARIUM S).	The angle valve on the evaporator is closed.	Open the angle valve on the evaporator. <ul style="list-style-type: none"> See page 51.
	The evaporator is not switched on.	Switch on the evaporator. <ul style="list-style-type: none"> See page 51.
	Evaporator fault.	<ul style="list-style-type: none"> See page 92.
	The fuse in the cable has tripped.	
	The inlet pump is faulty.	<ul style="list-style-type: none"> Contact KLAFS service engineers. customerservice@klafs.de

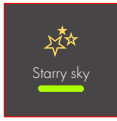

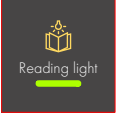

11.2. Other possible errors

Fault	Cause	Remedy	
Yellow or red LED on the evaporator lights up (SANARIUM S).	The evaporator must be serviced.	Service the evaporator.	
	The steam cylinder is worn.	<ul style="list-style-type: none"> See page 92. 	
	The inlet pump is faulty.	<ul style="list-style-type: none"> Contact KLAFS service engineers. 	
	The drain pump is faulty.	<ul style="list-style-type: none"> customerservice@klafs.de 	
<ul style="list-style-type: none"> Only with evaporator S with Birmingham scent dispenser: No scent discharged. (SANARIUM S).	The scent container is empty.	Replace the scent container. <ul style="list-style-type: none"> See page 93. 	
	The scent pump does not work or is defective.	<ul style="list-style-type: none"> Contact KLAFS service engineers. customerservice@klafs.de 	
	The feed hose in the pump is defective.	<ul style="list-style-type: none"> See servicing instructions 50701466/50701467. 	
	The scent line is clogged or defective.	Check the scent line from the pump to the evaporator tube. Replace the defective scent line.	
<ul style="list-style-type: none"> Only with evaporator S with Birmingham scent dispenser: No scent discharged. (SANARIUM S).	The scent inlet at the T-piece to the evaporator tube is clogged.	Check the scent line to the evaporator tube. Clean the scent inlet at the T-piece to the evaporator tube. <ul style="list-style-type: none"> See page 93. 	
	The controller cannot be started or operated. TC	The controller is controlled by TOUCHCONTROL.	Turn off TOUCHCONTROL. <ul style="list-style-type: none"> After approx. 5 minutes, TOUCHCONTROL activates the controller.
		The operating panel is locked.	Disconnect the data lead between the TOUCHCONTROL and the controller.
The controller cannot be operated. 	The touchscreen lock symbol appears on the touchscreen. The touchscreen lock is switched on.	Switch the touchscreen lock off. <ul style="list-style-type: none"> See page 72. 	

11.2. Other possible errors

Fault	Cause	Remedy
<p>The sauna heater does not heat up (when controlled via TOUCHCONTROL or Central Building Control CBC).</p> <p>— 90 °C</p> 	<p>The additional option (key) appears in the display for 30 minutes.</p>	<ul style="list-style-type: none"> Remove flammable objects from the sauna heater. <p>Within 30 minutes of requesting sauna heater output on the TOUCHCONTROL or CBC, press the key switch on the sauna cabin for 1 second.</p>
	<p>The additional option (key) does not appear in the display.</p> <p>Output from sauna cabin heater not requested by CBC.</p> <p>The 30-minute waiting time has elapsed.</p>	<p>Request output from the sauna cabin heater via CBC.</p>
	<p>Changes to temperature settings have not been applied.</p>	<p>Press the key switch on the sauna cabin within 30 minutes of changing the settings.</p>
<p>Fan cannot be adjusted.</p> <p>— 60 °C</p>	<p>The Climate Manager is connected.</p>	<ul style="list-style-type: none"> The air flow rate is regulated by the Climate Manager.
<p>The InfraPLUS heaters will not switch on.</p> <p>— 40 °C</p>	<p>The incorrect bathing mode has been selected.</p>	<p>Select Infrared bathing mode.</p> <ul style="list-style-type: none"> See page 37.
	<p>The temperature in the cabin is greater than 50 °C.</p>	<p>Open the cabin door and allow the temperature to fall.</p>
	<p>The InfraPLUS heater is not being supplied with power.</p>	<p>Check the fuse in the power supply. Switch the power supply on.</p>
	<p>The controller ends the bathing mode automatically.</p>	<p>Check the CAN bus communication with the InfraPLUS heater.</p>
<p>AQUAVIVA does not start.</p> 	<p>The mains switch on the AQUAVIVA controller is switched off.</p>	<p>Switch on the mains switch at the AQUAVIVA controller.</p>
	<p>The fuse in the feed line to the AQUAVIVA controller has blown.</p>	<p>Replace or reset the fuse.</p>
	<p>The CAN line is interrupted.</p>	<p>Check the CAN line.</p>
	<p>The expander circuit board is defective or not plugged in.</p>	<p>Check or replace the expander circuit board in the AQUAVIVA controller.</p>

11.2. Other possible errors

Fault	Cause	Remedy
Starry Sky cannot be switched on. 	The main switch on the Starry Sky light projector is switched off.	Switch on the main switch on the Starry Sky light projector.
	The fuse at AG1 or AG2 has blown.	<ul style="list-style-type: none"> • Contact KLAFS service engineers. • customerservice@klafs.de Check the fuse at AG1 or AG2 and then replace if necessary.
	The fuse in the supply line to Starry Sky has blown.	Replace or reset the fuse.
The coloured light cannot be switched on. 	The fuse in the feed line to the coloured light controller has blown.	Replace or reset the fuse.
	There is a break in the data line.	Check the data line.
The reading light cannot be switched on. 	The bulb in the reading light is defective.	Replace the bulb in the reading light. Replace with a new bulb of the same wattage.
	The fuse at AG1 or AG2 has blown.	<ul style="list-style-type: none"> • Contact KLAFS service engineers. • customerservice@klafs.de Check the fuse at AG1 or AG2 and then replace if necessary.
Remote power-on symbol. 	The controller will not switch on.	In the 20 KEYGUARD service menu, change the setting to [1 or 2] "Remote". <ul style="list-style-type: none"> • See servicing instructions 50701466/50701467.

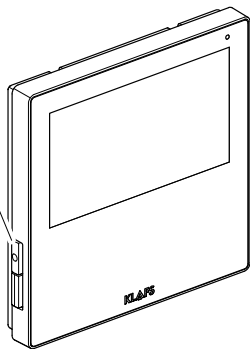
11.3. Rectifying faults, resetting error messages



Notice:

Only allow work on electrical components/assemblies to be carried out by qualified electricians who work in accordance with electrical rules and regulations. Switch the controller off, disconnect it from the mains and make sure that it cannot be switched on again.

1



1. Switch the controller off at the main switch (1).
2. Disconnect the controller from the mains and make sure that it cannot be switched on again.
3. Rectify the fault.
4. Reconnect the controller to the mains.
5. Switch the controller on at the main switch (1).

12. CLEANING AND MAINTENANCE

12.1. Cleaning the sauna cabin

The high humidity in SANARIUM mode does not damage the wood of your cabin.
A prerequisite is that the cabin is well ventilated after use and the drying phase is completed.



Never use a hose or pressure washer on the inner cabin walls, benches or seats.

Dirty benches

Wipe the wooden surfaces with a damp cloth.
Sand any rough surfaces on the benches with fine sandpaper if necessary.
The benches can also be rinsed with a 3% hydrogen peroxide solution (available from specialist dealers).



Disinfectants are highly corrosive.

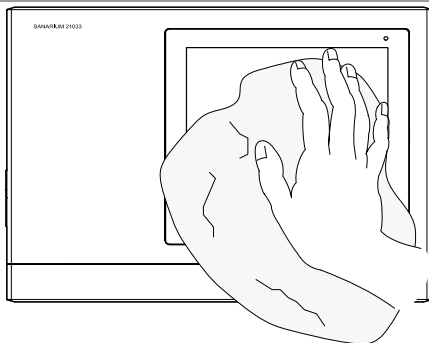
It is therefore important to observe to the relevant safety precautions.
Always wear rubber gloves when cleaning the cabin.



The outer cabin walls have been varnished or waterproofed.

Do not varnish, paint or waterproof the inner panelling or the inner cabin walls and units (benches, etc.).

12.2. Cleaning the touchscreen



Switch the controller off at the main switch before cleaning.

The touchscreen's surface should only be cleaned using a soft cloth.
Moisten the soft cloth with water.
For more stubborn marks, soak the soft cloth in an organic solvent such as light petroleum.



Do not use corrosive solvents such as isopropyl alcohol (IPA).

12.3. SANARIUM M - Decalcifying the evaporator



Risk of chemical burns!

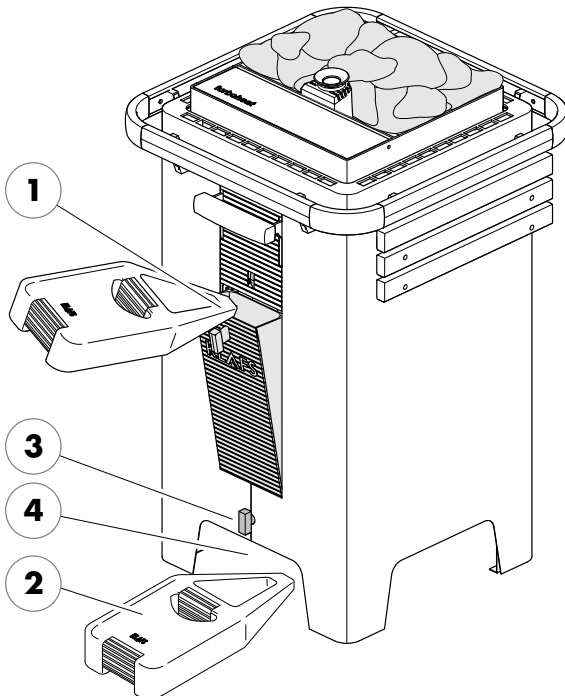
There is a risk of chemical burns to eyes and skin when handling decalcifiers. Always follow the instructions on the package insert.

SANARIUM M - Preparing the decalcifying liquid

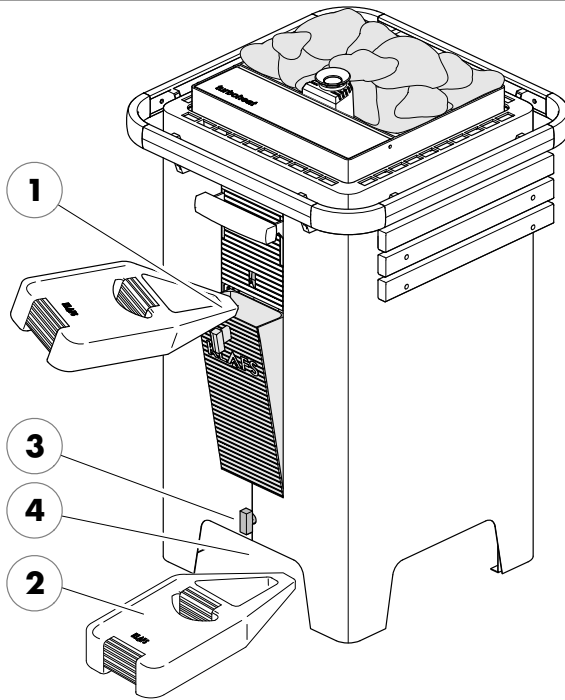
1. To decalcify the evaporator, prepare 3 litres of water with decalcifier in a bucket.
- To determine the mixing ratio, please observe the quantity indicated on the decalcifier package insert.

SANARIUM M - Decalcifying

- The maximum fill capacity of the evaporator is 9 litres.
2. Use the filler can (2) to gradually fill the evaporator's filling unit (1) with water from the prepared bucket.
 - Allow the decalcifier to act overnight, or follow the timings indicated on the package insert..
 3. Once the reaction time has elapsed, place the filler can (2) under the drain (4). Open the drain valve (3). Gradually drain the decalcifying water into the filler can (1) and pour down the drain.

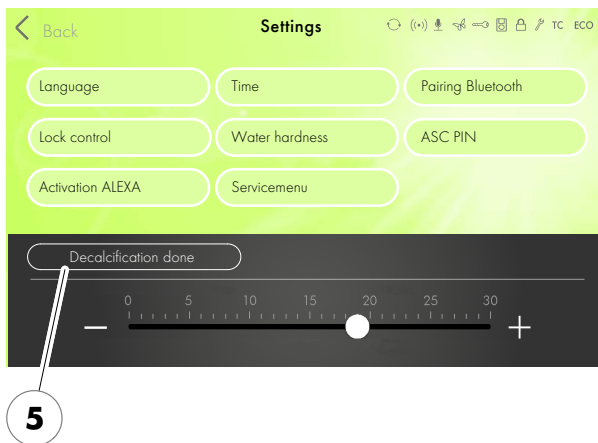


12.3. SANARIUM M - Decalcifying the evaporator



SANARIUM M - Rinsing

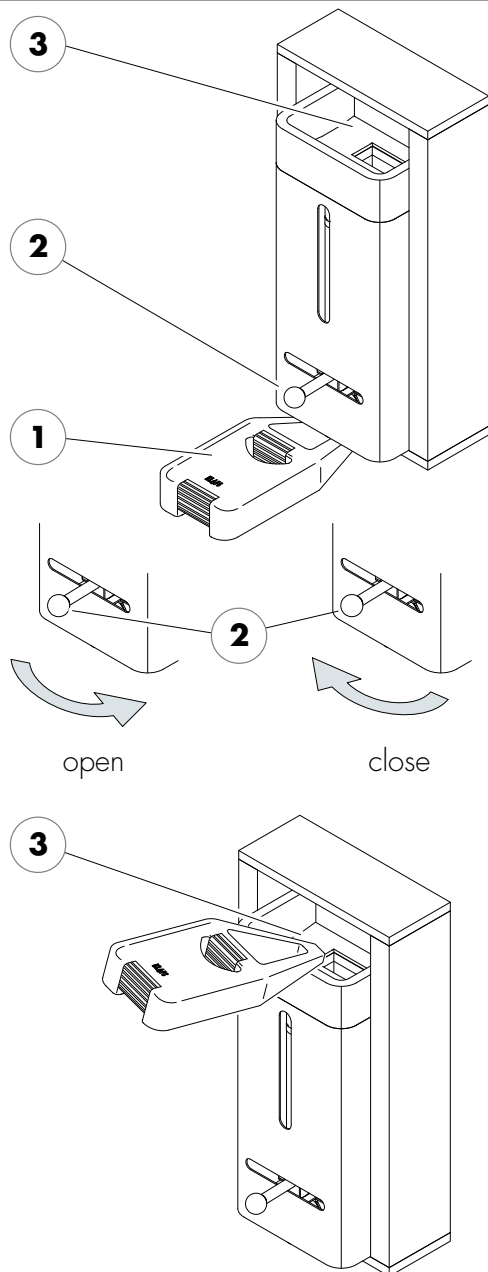
4. Close the drain valve (3).
5. Fill the evaporator's filling unit (1) with fresh water.
6. Place the filler can (2) under the drain (4). Open the drain valve (3).
7. Close the drain valve (3) again after draining the evaporator.
8. Repeat the rinsing procedure two or three times.



Resetting error 92 on the control panel

- The final drying phase must have finished.
9. Carry out decalcification.
 10. Call up the Settings - Water hardness menu.
 11. In standby mode, clear the error message by pressing the Decalcification done symbol (5).
- The message "Error 92" for evaporator maintenance will be reset.

12.4. SANARIUM B - Decalcifying the evaporator



SANARIUM B - draining

1. Place the filler can (1) under the drain. Open the drain valve (2).
2. Close the drain valve (2) again after draining the evaporator.
3. Drain the filler can (1).

SANARIUM B - decalcifying

4. Fill the filler can (1) with approximately 4 litres of water.

Risk of chemical burns

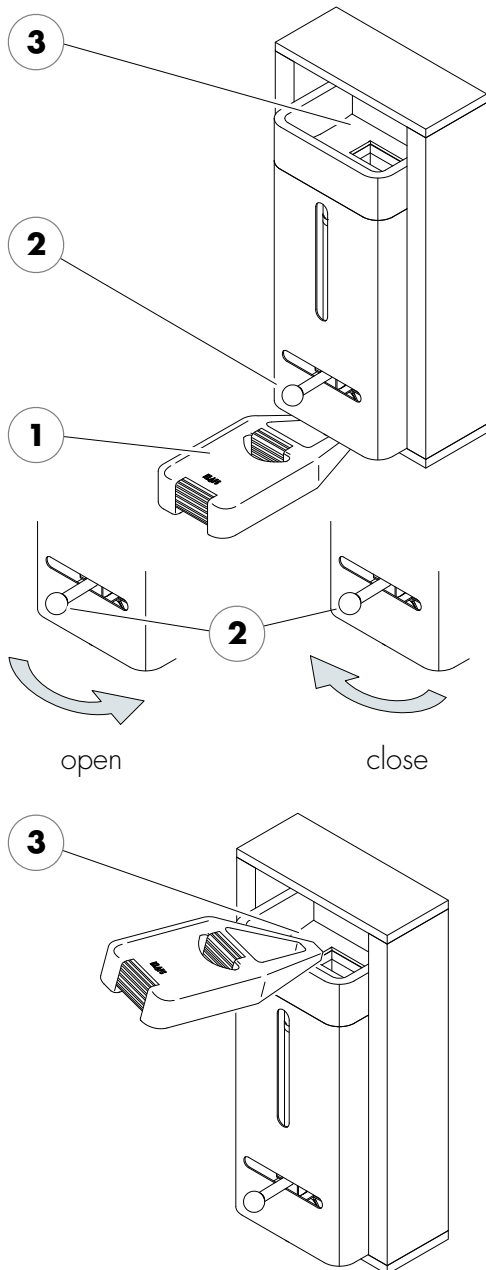


There is a risk of chemical burns to eyes and skin when handling decalcifiers.

Always follow the instructions on the package insert.

5. Add the decalcifier.
 - Note the quantity listed on the package insert.
6. Use the filler can (1) to fill the evaporator's filling unit (3).
- Allow the decalcifier to act overnight, or follow the timings indicated on the package insert.
7. Place the filler can (1) under the drain. Open the drain valve (2). Drain water into the filler can (1).

12.4. SANARIUM B - Decalcifying the evaporator



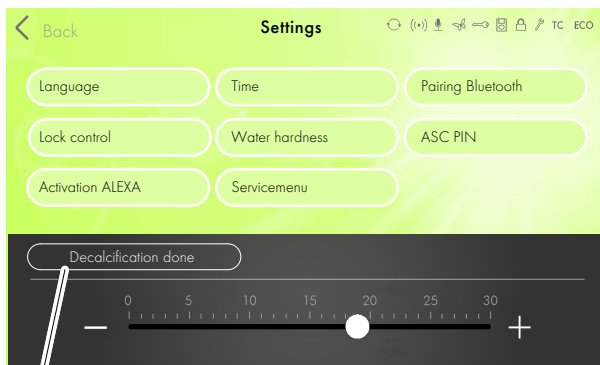
SANARIUM B - Rinsing

8. Close the drain valve (2).
9. Fill the evaporator's filling unit (3) with water.
10. Place the filler can (1) under the drain. Open the drain valve (2).
11. Close the drain valve (2) again after draining the evaporator.
12. Repeat the rinsing procedure two or three times.

Resetting error 92 on the control panel

- The final drying phase must have finished.
13. Carry out decalcification.

12.4. SANARIUM B - Decalifying the evaporator



14. In standby mode, clear the error message by pressing symbol (4).

- The message "Error 92" for evaporator maintenance will be reset.

4

12.5. SANARIUM S - Evaporator



Notice:

Only allow work on electrical components/assemblies to be carried out by qualified electricians who work in accordance with electrical rules and regulations.

SANARIUM S - evaporator cylinder

The service life of the steam cylinder is dependent on:

- The operating time
- The operating performance
- The local water quality.

If the steam cylinder is nearly worn, the yellow or red LED (1) flashes on the evaporator.

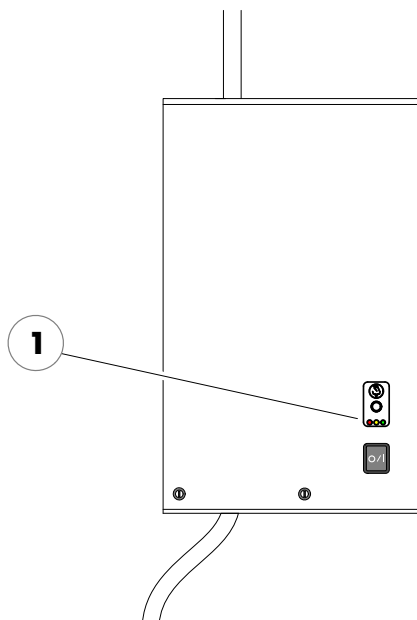
- See servicing instructions 50701466/50701467.

SANARIUM S - Drain pump, change the inlet valve

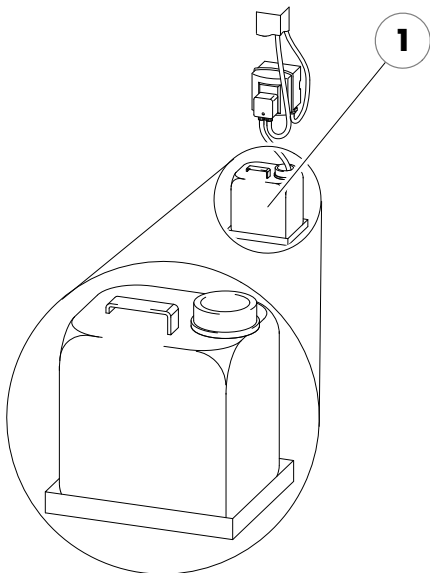
- See servicing instructions 50701466/50701467.

SANARIUM S - Change the fuse

- See servicing instructions 50701466/50701467.



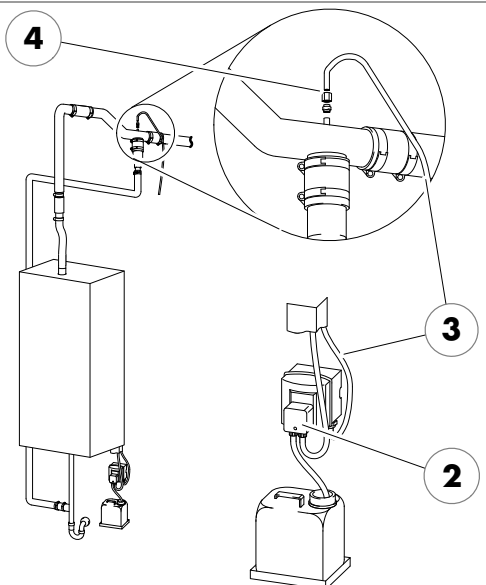
12.6. Evaporator - Change the scent container



The scent container (1) is located on the control panel next to the evaporator.

- Shake the scent container well before replacing it.
1. Remove the hose from the empty scent container.
 2. Remove the empty scent container from the bracket.
 3. Remove the cover from the scent container.
 4. Place the new scent container in the bracket.
 5. Insert the hose into the scent container until it reaches the bottom of the container.

12.7. Evaporator - Scent line to the evaporator tube



1. Check the scent line between the scent container and the scent pump (2), replace if faulty.
2. Check the scent line between the scent pump and the T-piece on the evaporator tube (3), replace if faulty.
3. Check and clean the scent inlet on the T-piece on the evaporator tube (4) - to do this, unscrew the coupling nut and the scent inlet.

12.8. Fero S - Decalcifying the evaporator



Risk of chemical burns!

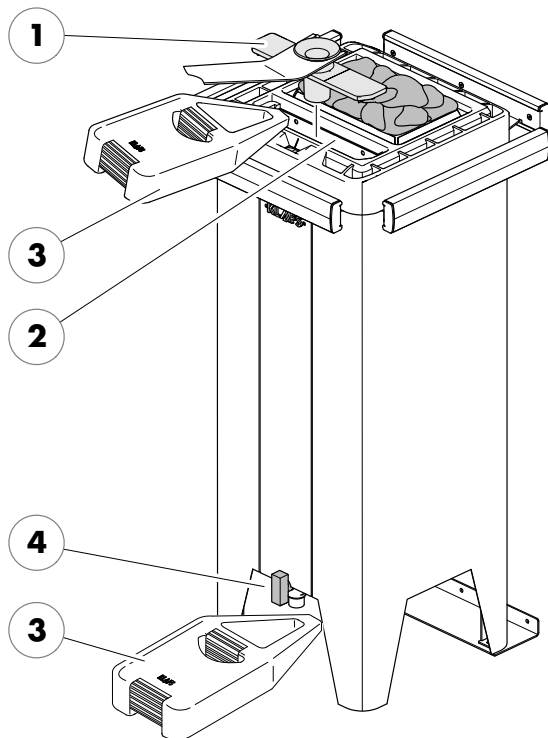
There is a risk of chemical burns to eyes and skin when handling decalcifiers. Always follow the instructions on the package insert.

Fero S - Preparing the decalcifying liquid

1. To decalcify the evaporator, prepare 3 litres of water with decalcifier in a bucket.
 - To determine the mixing ratio, please observe the quantity indicated on the decalcifier package insert.

Fero S - Decalcifying

- The maximum fill capacity of the evaporator is 9 litres.
2. Use the aroma fork to remove the cover plate (1) from the sauna heater together with the aroma cup.
 3. Use the filler can (3) to gradually fill the evaporator's filling unit (2) with water from the prepared bucket.
 - Allow the decalcifier to act overnight, or follow the timings indicated on the package insert.
 4. Once the reaction time has elapsed, place the empty filler can (3) under the drain. Open the drain valve (4). Gradually drain the decalcifying water into the filler can (3) and pour down the drain.

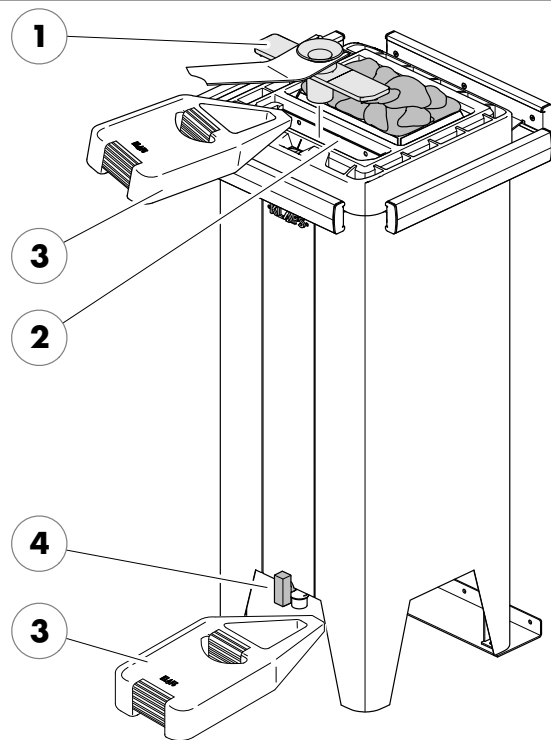


— 90 °C

— 60 °C

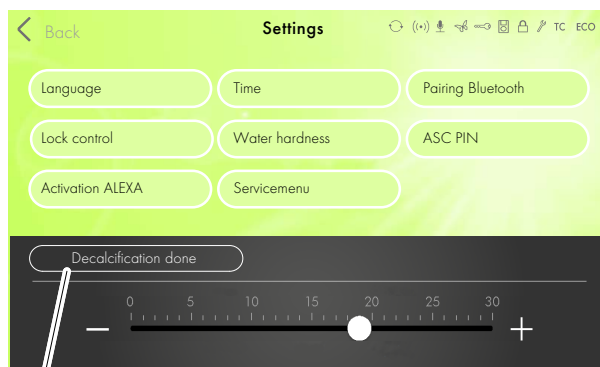
— 40 °C

12.8. Fero S - Decalcifying the evaporator



Fero S - Rinsing

5. Close the drain valve (4).
6. Fill the evaporator's filling unit (2) with fresh water.
7. Place the filler can (3) under the drain. Open the drain valve (4).
8. Close the drain valve (4) again after draining the evaporator.
9. Repeat the rinsing procedure two or three times.
10. Use the aroma fork to place the cover plate (1) on the sauna heater water tank together with the aroma cup.



Resetting error 92 on the control panel

- The final drying phase must have finished.
11. Carry out decalcification.
 12. In standby mode, clear the error message by pressing symbol (5).
- The message "Error 92" for evaporator maintenance will be reset.



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