Operating instructions
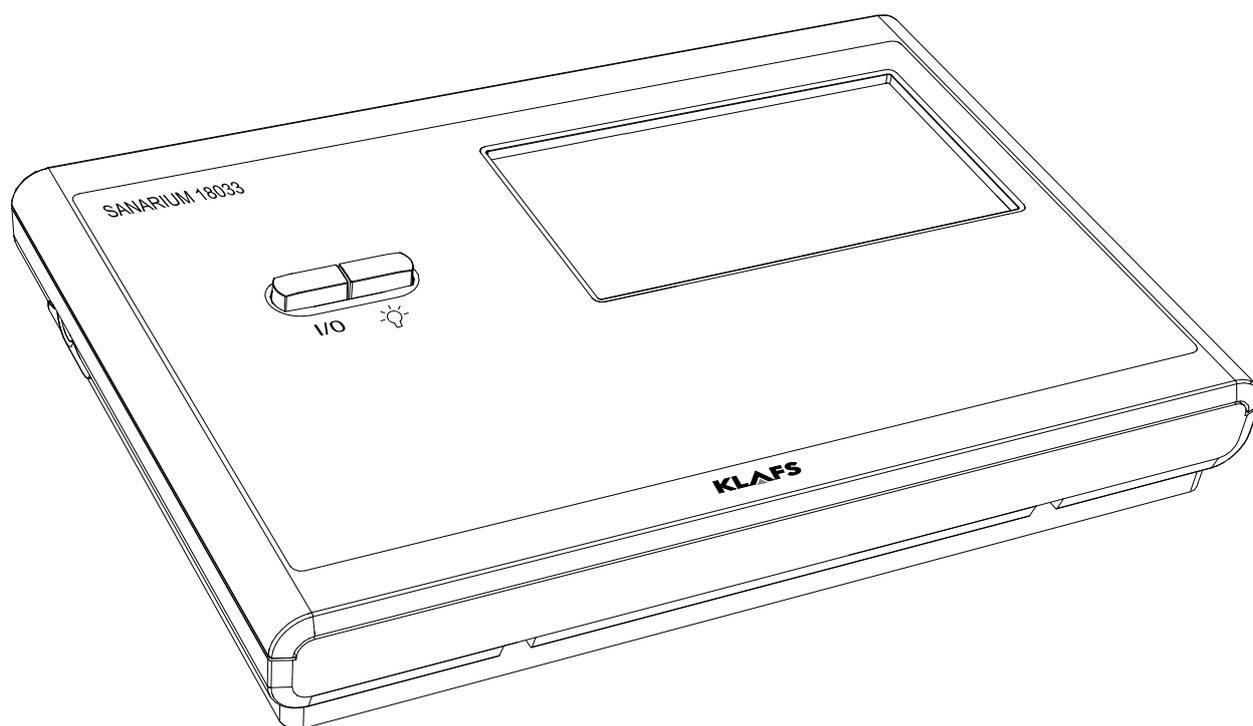## Klafs SANARIUM M, S with 18033 controller

KLAFS

MY SAUNA AND SPA

SANARIUM 18033

I/O

KLAFS

Contents   Page

Contents   Page

1. Quick guide - SANARIUM controller

The Klafs SANARIUM controller enables you to operate your SANARIUM quickly and easily. There are three or four preset standard programs for each bathing mode (Sauna/SANARIUM).
Any changes made to the standard program settings are saved in a custom program. 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.
ℹ️	Entering and changing settings will be quicker if a short pause of around 0.5 seconds is left between presses.
ℹ️	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.
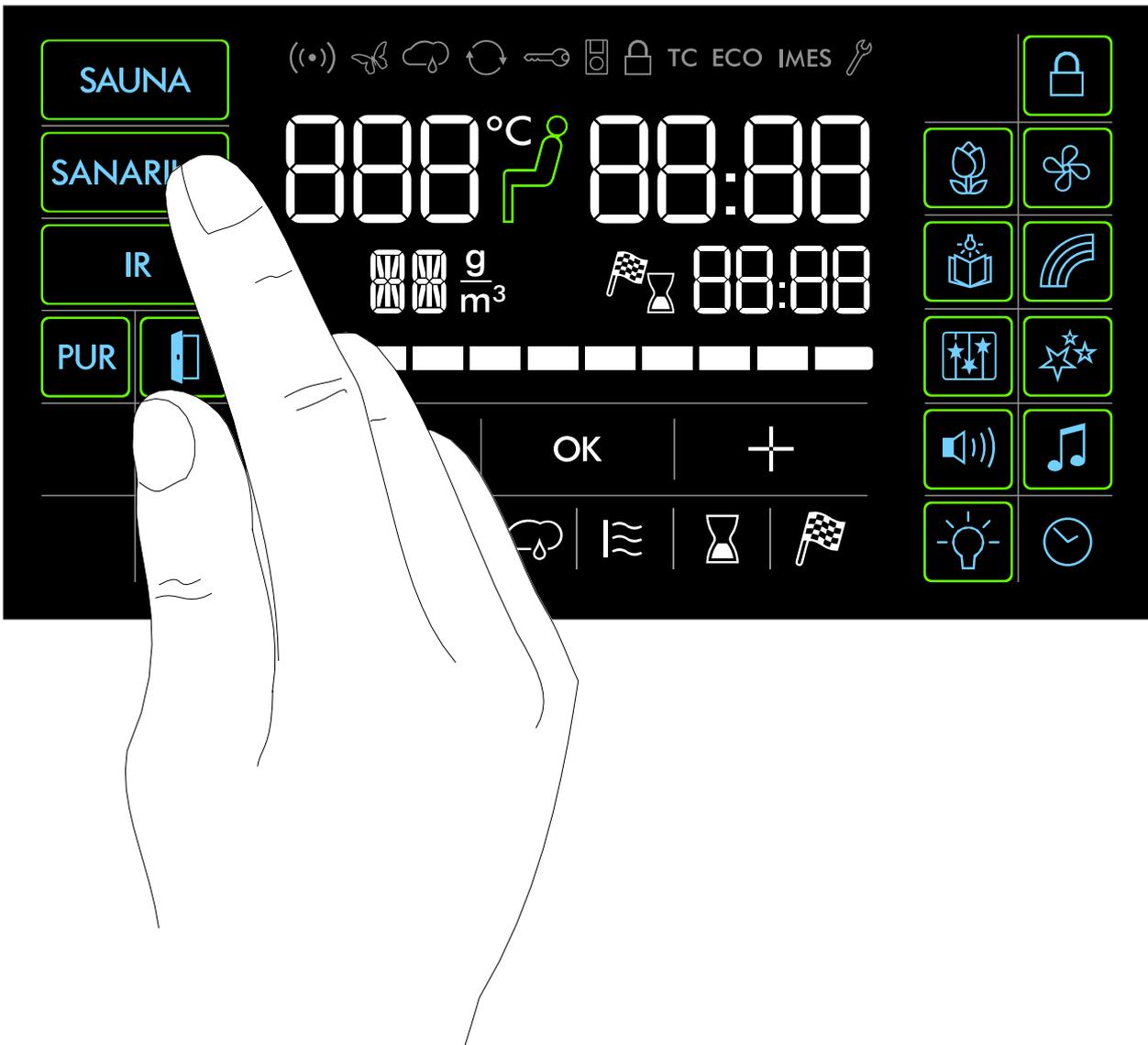
2. Bathing modes

ℹ️ 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
Klafs' new development brings back the tradition of Finnish stone steam baths.
With around 100 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/m^3.

Tropical bath
with temperatures of up to 75 °C and an absolute humidity of up to 72 g/m^3.
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 an ambient temperature of 20 - 40 °C and variable intensity of 1 - 10 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 type 18033: 3/N/PE ~400 V, max. 9 kW.
Optional InfraPLUS: 1/N/PE ~230 V, max. 350 W per InfraPLUS unit.
Ambient conditions: Temperature 0 °C to 35 °C, max. relative humidity 80 %.

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):

o   Sauna heater with or without evaporator

o   InfraPLUS (optional).

The controller is only to be used as intended. Intended use also assumes adherence to the instructions for operation, installation and servicing as prescribed by the manufacturer. 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.

o   Do not use the infrared cabin within 24 hours of being exposed to UV radiation from an artificial source or sunbathing.

o   Consult a doctor before using the infrared heat cabin if you are at risk of overheating or if you suffer from cardiovascular diseases.

o   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.

o   Do not use the infrared cabin if you have reduced sensitivity to heat, have consumed alcohol or have taken sedatives.

6.   General safety information

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. Use a residual-current breaker $I_{\Delta N}$ ≤ 0.03 A with at least 3-mm contact opening in the connecting feed line.

○   Contact Klafs customer service if faults cannot be rectified by a qualified electrician.

○   Remote activation (remote power-on unit): Setting, controlling and/or adjusting the controller using a command or a remote control unit performed outside of the range of vision of the sauna heater. Remote activation (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 cabin safely and understand the potential risks involved. Do not allow children to play in the unit. Children should not clean the cabin or carry out basic maintenance on it without supervision.

7.   Controller

7.1.   Operating and display elements
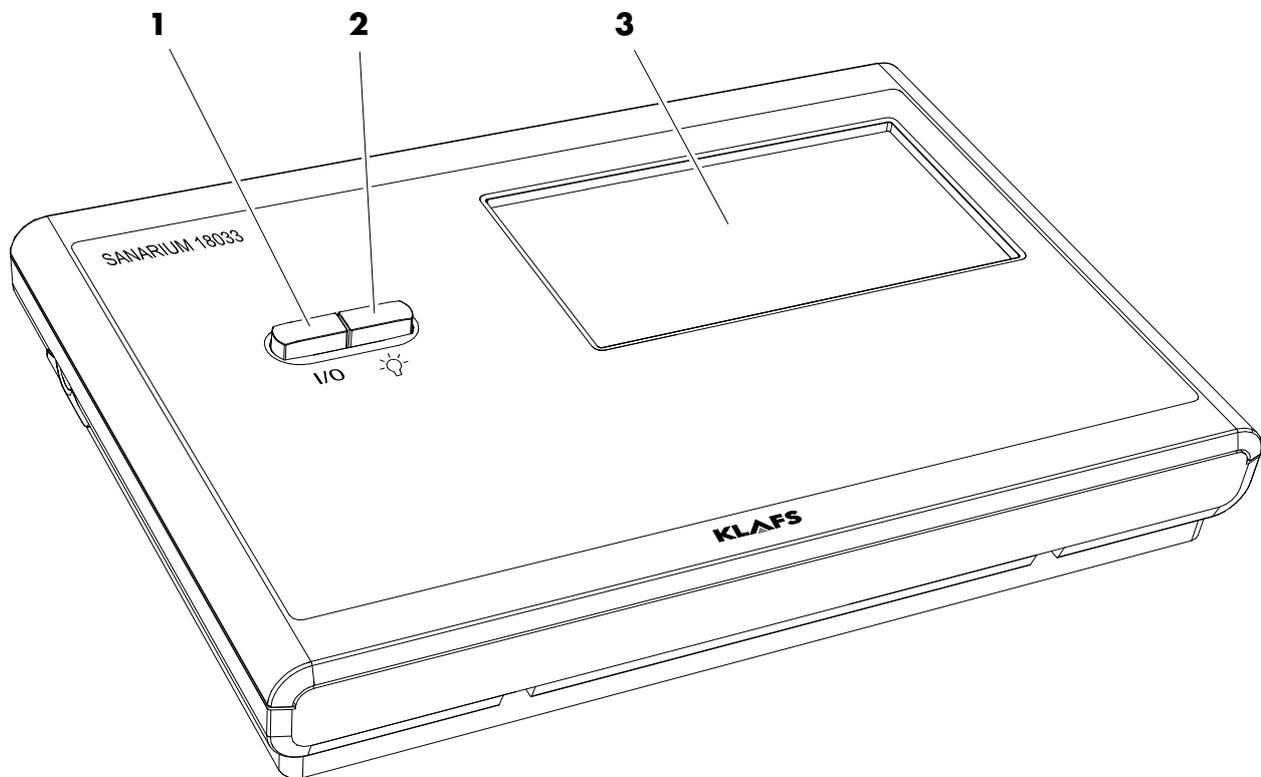
Item	Description
1.	Controller main switch. ☞ The main switch switches off the mains power to the controller. ☞ The internal clock has a power reserve for a few months in the event of a power failure.
2.	Cabin light switch. ☞ When the controller is connected to the mains, the cabin light may be switched on independently of the main switch.
3.	Touchscreen. ▶ See page 9.

7. Controller

7.2. Touchscreen - Overview
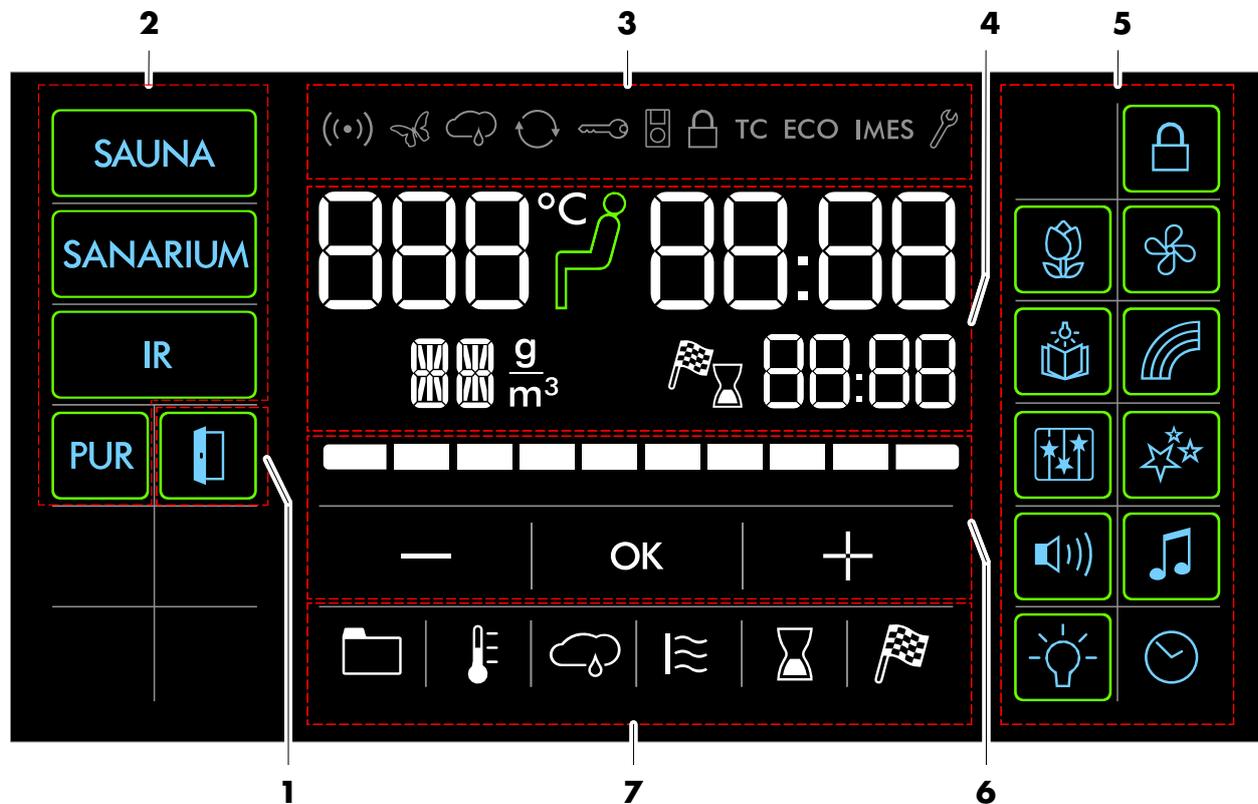
Section	Description
1.	Cabin control (optional).
	☞ Function for remotely controlling the controller via the Klafs Sauna smartphone app.
	◗ See page 11.
2.	Bathing mode.
	◗ See page 13.
3.	Status bar.
	☞ Display only, no touchscreen function.
	☞ The symbol display depends on the configuration.
	◗ See page 14.
4.	Digital display of bathing parameters, digital display of preset time mode, ready-to-use symbol.
	◗ See page 15.
5.	Special features, cabin light, clock.
	☞ The symbol display depends on the configuration.
	◗ See page 16.
6.	Controller with bar scale, parameter input.
	◗ See page 17.
7.	Program, bathing parameters, preset time mode.
	◗ See page 17.

7. Controller

7.3. Touchscreen - Basic operation and display symbols

ℹ	The control panel must be switched on at the main switch. ◗ See page 18.
ℹ	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.
ℹ	When settings that can be changed are selected, they flash at a frequency of 1 Hz. The controller will automatically cancel input mode and retain the existing setting if no symbol is pressed or the altered setting is not confirmed by pressing the OK symbol within five seconds.
ℹ	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.

Example	
Symbol:	**Display/function:**
SAUNA	Symbol. e.g. a word, icon or number. Pressing a symbol executes the relevant function.
SAUNA	Backlit ring. Indicates that a function has been activated or started. Pressing the relevant symbol again deactivates or stops the function or allows the settings to be changed.
20:38	Numerical value. A numerical value that can be changed flashes. Touching the value allows you to change it. Increase or decrease the value by pressing the "+" or "−" symbol. Confirm any changes by pressing the OK symbol. ☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.
— OK +	Bar scale. Increase or decrease the value on the bar scale by pressing the "+" or "−" symbol. Or touch the bar scale to change it in the same way as for numerical settings. Confirm any changes by pressing the OK symbol. ☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.

7. Controller

7.4. Touchscreen - Section 1: Cabin control with door contact switch (optional)

Symbol:	Display/function:
i	The cabin control function for operating the controller via the Klafs Sauna app is only available for cabins that have WLAN installed and activated. ◗ See page 14 for the WLAN function.
(door symbol)	Cabin control. ☞ Function for operating the controller via the Klafs Sauna app, e.g. with a smartphone. ☞ Klafs safety concept ASC. 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. Notice: The cabin can only be started via the Klafs Sauna app if this visual check has been carried out after the last sauna session. ◗ Standby mode. See page 21 for the function for remotely controlling the controller via the Klafs Sauna app. Backlit ring is flashing: The backlit ring 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 backlit ring will be permanently lit after closing the sauna door. The cabin can now be started via the Klafs Sauna app. Backlit ring is permanently lit: The sauna cabin has been checked. A bathing mode can be started via the Klafs Sauna app. Backlit ring is off: If the sauna door is opened after the visual precheck and before the session has started, the backlit ring 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 backlit ring will go out and the controller must be reset.
i	The cabin cannot be started via the KLAFS Sauna app and bathing parameters cannot be changed if a setting has been changed on the controller or the sauna door has been opened during the remote-control standby period.

7.   Controller

7.5.   Touchscreen - Section 1: Cabin control without door contact switch

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Symbol:	Display/function:
🛈	The controller can only be operated via the Klafs Sauna app if an installed and activated WLAN is available. ◗ See page 14 for the WLAN function.
⚠	Cabin control. ☞ Function for operating the controller via the Klafs Sauna app, e.g. with a smartphone. 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 can only be started via the Klafs Sauna app if this visual check has been carried out after the last sauna session. ☞ Ensure that no unauthorised persons entered your sauna cabin during your absence.

7. Controller

7.6. Touchscreen - Section 2: Bathing modes

Symbol:	Display/function:
SAUNA	Sauna mode. ◗ See page 24.
PUR	Pᴜʀ bathing mode. ☞ Only available with the Sauna bathing mode. When the PUR symbol appears, the cabin has reached the correct temperature for the Pᴜʀ bathing mode and it can be switched on. Once the Pᴜʀ bathing mode has been switched on, the oven heating is switched off. The heat stored in the sauna stones is released. ◗ See page 25.
SANARIUM	SANARIUM mode. ◗ See page 26.
IR	InfraPLUS mode. ◗ See page 28.

7.   Controller

7.7.   Touchscreen - Section 3: Status bar

ℹ️	The status bar is for display only and has no touchscreen functions. The symbol display depends on the configuration.

Symbol:	Display/function:
((•))	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.
🦋	Green Sauna is activated. The function is switched on/off via a separate touch key on the sauna. 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.
☁️	Lit: Subsequent drying is activated. (Optional) Flashing: Low water level.
🔄	Voice control is activated.
🔑	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. ☞ 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.
TC	The TOUCHCONTROL is connected. The touchscreen on the controller is locked.
ECO	The Climate Manager is connected and in operation. The Climate Manager automatically controls the speed of the fan.
IMES	The Klafs IMES-1 is connected. There are no faults in the data exchange between Klafs IMES-1 and the controller.
🔧	The controller is in Service mode.

7. Controller

7.8. Touchscreen - Section 4: Digital display of bathing parameters, digital display of preset time mode, ready-to-use symbol

Symbol:	Display/function:
888 °C	Displays the temperature in digital form.
(seated person symbol)	Ready-to-use symbol. The inside of the cabin has reached the set temperature.
88:88	Displays the time in digital form. ◆ To set the time, see page 20.
88 g/m³	Displays the humidity in SANARIUM mode in digital form.
⧗ **88:88**	Displays the remaining bathing time in digital form during a session.
🏁 **88:88**	Displays the pre-programmed start time in digital form.

7. Controller

7.9. Touchscreen - Section 5: Special features, cabin light, clock

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ℹ️ The symbol display depends on the configuration.

Symbol:	Display/function:
🔒	Touchscreen lock. The controller can only be used after entering your password via the touchscreen. ○ Symbol is flashing at 1 Hz = Touchscreen can be used. ○ Symbol appears = Touchscreen is locked. ▶ Setting up the touchscreen lock - See Servicing Instructions 18029, 18033, 18040. ▶ To switch the touchscreen lock on/off, see page 50.
🌷	Set the scent pump. ▶ To adjust the settings, see page 51.
📖	Switches the reading light on/off. ☞ Reading light switches off after a delay of up to 30 seconds after the bathing program has finished.
🌈	Switches the coloured light on/off. ☞ Coloured light switches off after a delay of up to 30 seconds after the bathing program has finished.
AQUAVIVA	Switches AQUAVIVA on/off. ☞ AQUAVIVA switches off after a delay of up to 30 seconds after the bathing program has finished.
✨	Switches Starry Sky on/off. ☞ Starry Sky switches off after a delay of up to 30 seconds after the bathing program has finished.
🔊	Adjusts the volume of the connected music source. ☞ This symbol does not appear until the music track symbol has been pressed. ▶ To set the volume, see page 48.
🎵	Select a music track. ▶ See page 47.
🌀	Adjusts the fan. ▶ To adjust the settings, see page 51.
💡	Cabin light. ▶ See page 19.
🕐	Sets the time. ▶ See page 20.

---

7. Controller

7.10. Touchscreen - Section 6: Controller with bar scale, parameter input

Symbol:	Display/function:
▬▬▬▬▬▬☐☐☐■	The bar scale displays the settings in ten bars. The bar scale is used to set parameters such as humidity, music volume, fan speed, scent and InfraPLUS intensity. ☞ Set parameters on the bar scale by swiping it with your finger like a slider or by pressing the "+" and "−" symbols to increase or decrease the setting. ☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.
—	Minus symbol. Reduces parameter setting. Displayed in digital form or on the bar scale.
OK	Applies selection. Saves the changed parameter setting.
+	Plus symbol. Increases the parameter setting. Displayed in digital form or on the bar scale.

7.11. Touchscreen - Section 7: Programs, bathing parameters, preset time mode

Symbol:	Display/function:
🗀	Selecting the standard/custom program. ◗ See page 42.
🌡	Setting the temperature. ◗ See page 44.
☁	Setting SANARIUM humidity. ◗ See page 44.
≋	Setting InfraPLUS. ◗ See page 45.
⧗	Setting the bathing time. ◗ See page 46.
🏁	Setting preset time mode. ◗ See page 46.

8. Basic functions and settings

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

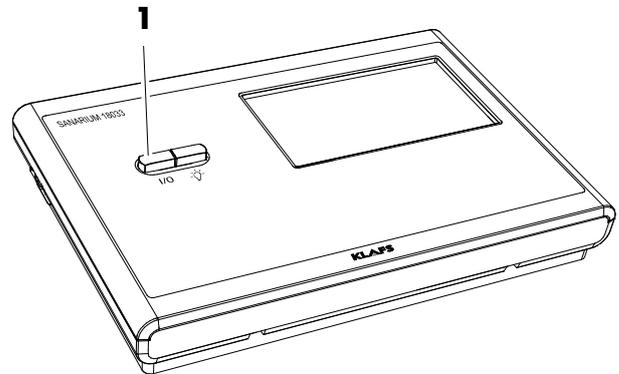**Switching the power supply on**
1. Press button (1).

The controller goes into standby mode.

When the controller is switched on, the following symbols are displayed: Bathing mode, on/off, cabin light and clock.

The controller can now be operated via the touchscreen.

▶   See page 21 for standby mode.

ℹ   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.
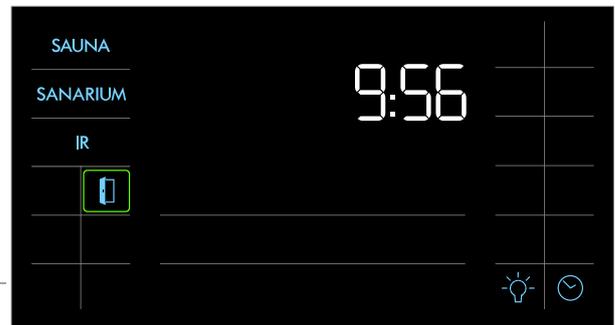
Switching the power supply off
1. Press button (1).

The touchscreen is blank when the controller is switched off.

☞   The cabin light can be switched on even when the controller is switched off.
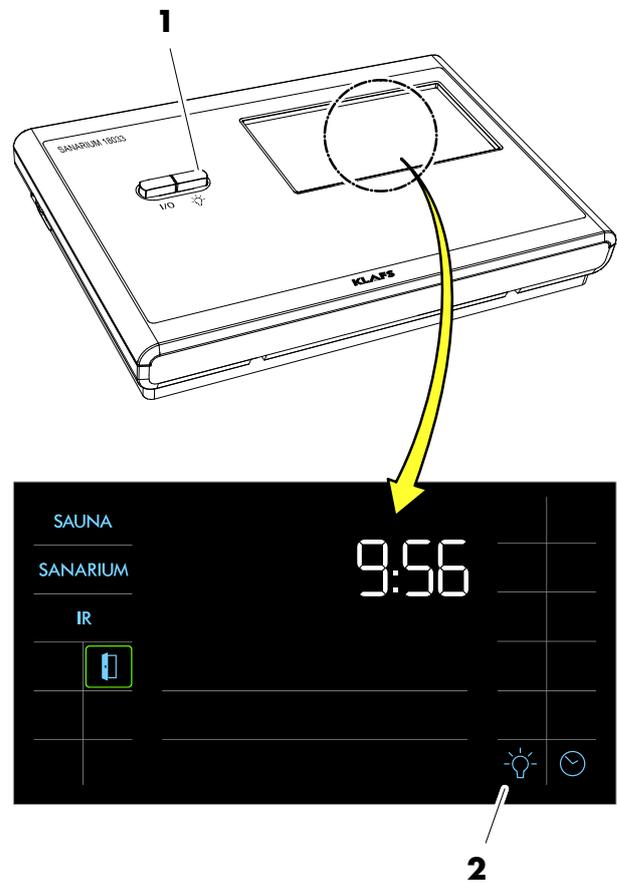
☞   The clock keeps running.

8.   Basic functions and settings

8.2.   Switching the cabin light on/off

1.   Press button (1).

2.   Or press the symbol (2) if the controller is switched on.

The cabin light switches on or off.

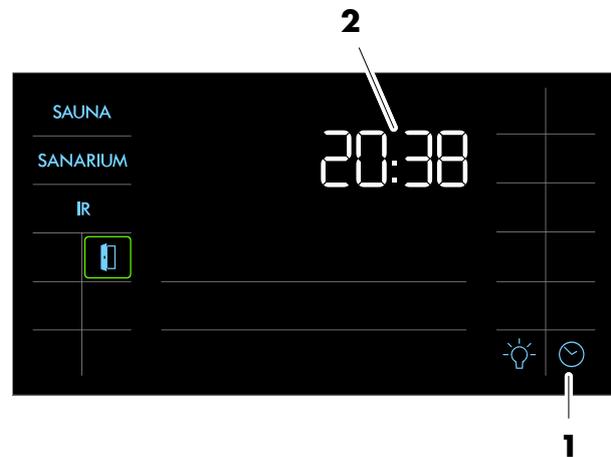☞   The cabin light can be switched on by pressing button (1) even when the main switch is off.

8. Basic functions and settings

8.3. Setting the time

1. Press the symbol (1) or (2).

The digits for the hour start flashing.

2. Set the hour by pressing the +/− symbols.
3. Confirm the set hour by pressing the
   OK symbol.

The digits for the minutes start flashing.

4. Set the minutes by pressing the +/− symbols.
5. Confirm the set hour by pressing the
   OK symbol.

The time has been set.

☞ The controller will automatically cancel input
   mode and retain the existing setting if the
   altered setting is not confirmed by pressing
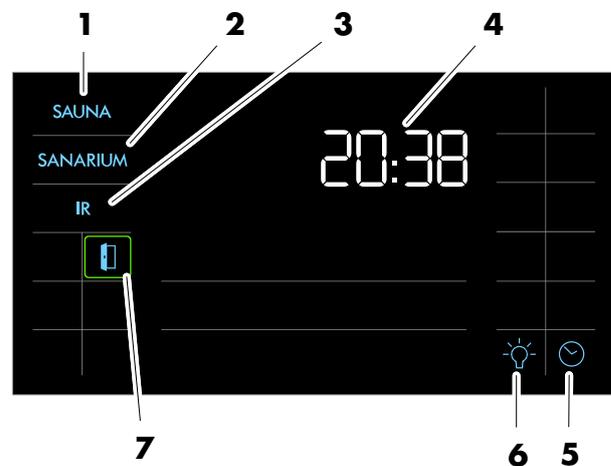   OK within five seconds.

☞ The internal clock has a power reserve for a
   few months in the event of a power failure.

8. Basic functions and settings

8.4. Standby mode

The touchscreen displays the following symbols in standby mode:

○ Sauna (1)
○ SANARIUM (2)
○ InfraPLUS (3)
○ Time (4)
○ Setting the time (5)
○ Cabin light (6)
○ Cabin control with (lit) backlit ring (7) (optional).

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

◗ Function for remotely controlling the controller via the Klafs Sauna app e.g. on a smartphone, see page 11. Cabin control.

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

ⓘ The cabin control function for remotely controlling the controller via the Klafs Sauna app is only available for cabins that have WLAN installed and activated.

◗ See page 14 for the WLAN function.

8.   Basic functions and settings

8.5.   Setting the water hardness

ℹ Requirement:
- Ask your water supplier about your area's water hardness in order set the correct settings on the control panel.
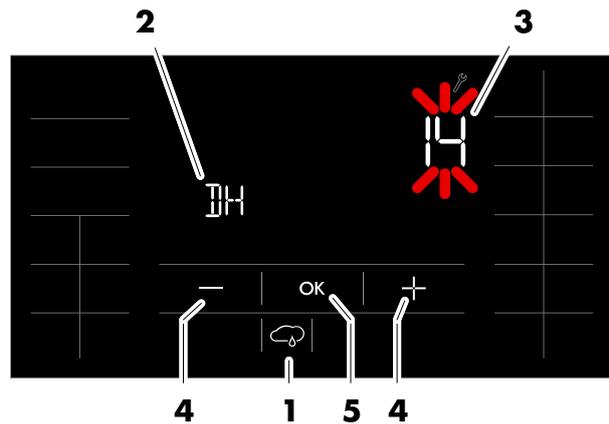- Start SANARIUM mode.

1.   Press the symbol (**1**).

The screen for setting the humidity is displayed.

2.   Press the symbol (**1**) again twice within one second.

The display (**2**) now shows "DH".
The display (**3**) flashes and displays the water hardness currently set.

☞   Water hardness can be set to between 0 and 30° dH.

☞   The standard setting is 15° dH.

☞   If the water hardness is set to 0° dH, the error message prompting you to service the evaporator is deactivated.

3.   Press the +/− symbols (**4**) to change the water hardness setting.

4.   Apply the setting by pressing the OK symbol (**5**).

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

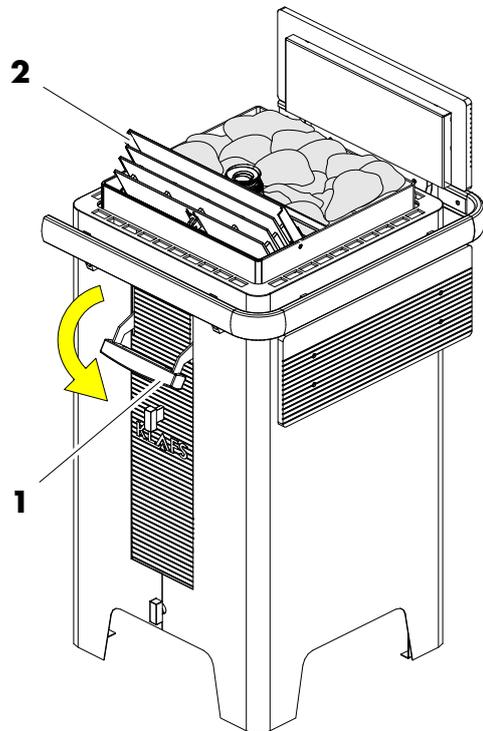## 9.1. Activating/deactivating the turboheat function

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

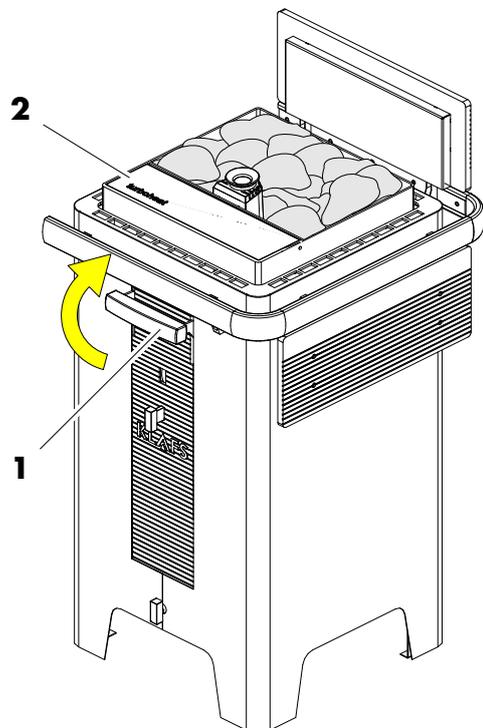If you do not want this function, have the turboheat function deactivated.

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.   Operation

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.
	◗ To decommission the evaporator, see page 40, 41.

	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 properties, 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 control. This temperature is harmonised after a few minutes.

Starting Sauna mode
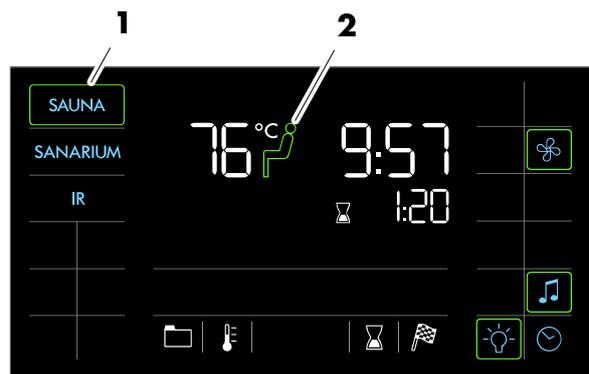
1.   Press the symbol (1).

The bathing parameters flash for approx. three seconds. After that, the last program used for the selected bathing mode is automatically started.

The backlit ring for SAUNA is displayed.

The sauna heater switches on and the cabin heats up.

Once the cabin has reached the preset temperature, the symbol (2) appears. The cabin is ready to use.

◗   If you would like to start a stored program for the selected bathing mode, see page 42.

◗   To change the temperature, see page 44.

◗   To change the bathing time, see page 46.

Stopping Sauna mode

1.   Press the symbol (1).

The bathing mode is cancelled.

The backlit ring goes out.

The controller then goes into standby mode.

9. Operation

9.3. Pᴜʀ bathing mode

ℹ️ The Pᴜʀ bathing mode is only available with the Sauna bathing mode.

Starting Pᴜʀ bathing mode

☞ To start the Pᴜʀ 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 symbol (1) appears.

1. Press the symbol (1).
The backlit ring for Pᴜʀ is displayed.

☞ During Pᴜʀ 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 Pᴜʀ bathing mode stops automatically. The sauna heater begins heating again.

Stopping the Pᴜʀ bathing mode

1. Press the symbol (1).

The backlit ring and the Pᴜʀ symbol go out.

The sauna heater begins heating again.

9. Operation

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 properties, 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 control. This temperature is harmonised after a few minutes.

Starting SANARIUM

☞ For SANARIUM mode, commission the evaporator beforehand.

◗ Preparing the evaporator - see pages 37, 39.

1. Press the symbol (1).

The bathing parameters flash for approx. three seconds. After that, the last program used for the selected bathing mode is automatically started.

The backlit ring for SANARIUM is displayed.

The sauna heater switches on and the cabin heats up.

Once the cabin has reached the preset temperature, the symbol (2) appears. The cabin is ready to use.

◗ If you would like to start a stored program for the selected bathing mode, see page 42.

◗ To change the temperature, see page 44.

◗ To change the humidity, see page 44.

◗ To change the bathing time, see page 46.
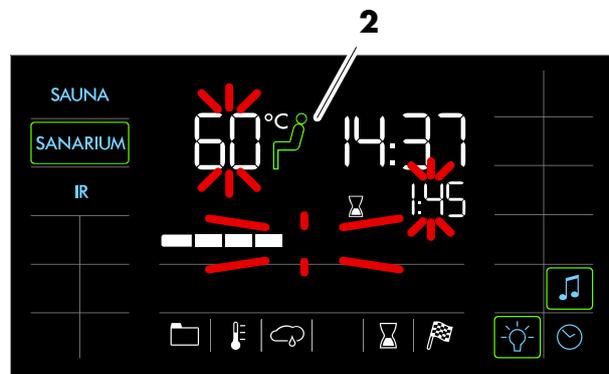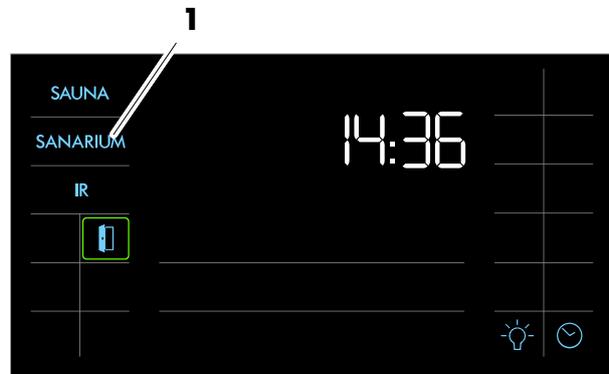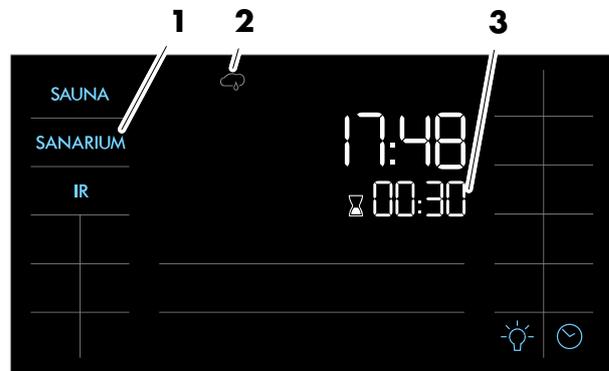
9. Operation

9.4. SANARIUM mode

Stopping SANARIUM

1. Press the symbol (1).

The bathing mode is cancelled. The backlit ring goes out.

Automatic follow-on program after 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 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 mode or follow-on program, air the cabin by opening the cabin door.

☞ Open the vent flap (optional) fully when airing the cabin (4).
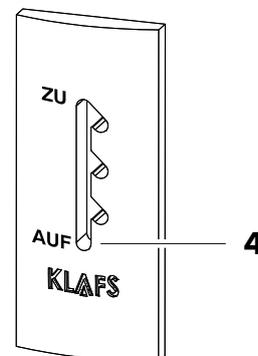
9. Operation

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.

> ℹ️ 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.

Starting InfraPLUS

1. Press the symbol (1).

The bathing parameters flash for approx. three seconds. After that, the last program used for the selected bathing mode is automatically started.

The backlit ring for InfraPLUS is displayed.

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.

Once the cabin has reached the preset temperature, the symbol (2) appears. The cabin is ready to use.

- ◆ If you would like to start a stored program for the selected bathing mode, see page 42.
- ◆ To change the InfraPLUS intensity, see page 45.
- ◆ To change the bathing time, see page 46.
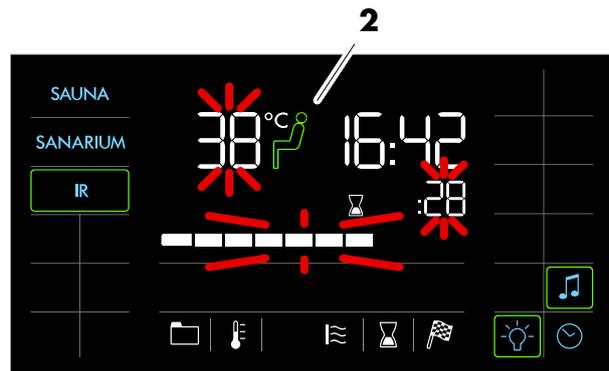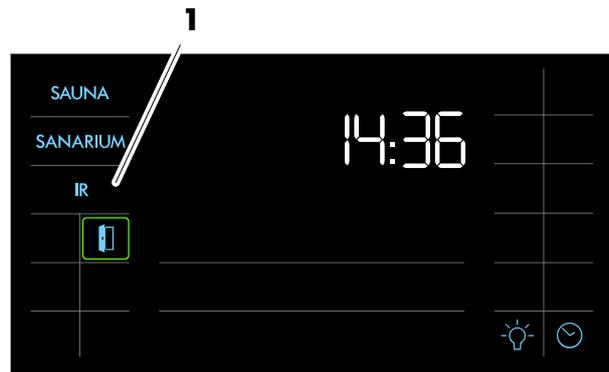
9. Operation

9.5. InfraPLUS mode (optional)

*Continued*

Starting InfraPLUS

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 several levels.
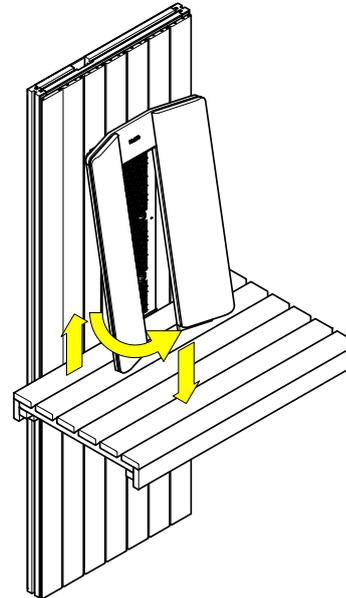
Restarting InfraPLUS mode

☞ Stand up from the infrared seat and wait at least ten minutes before sitting down again. After you have sat down again, wait until the infrared heaters switch on again and the remaining program time is displayed.
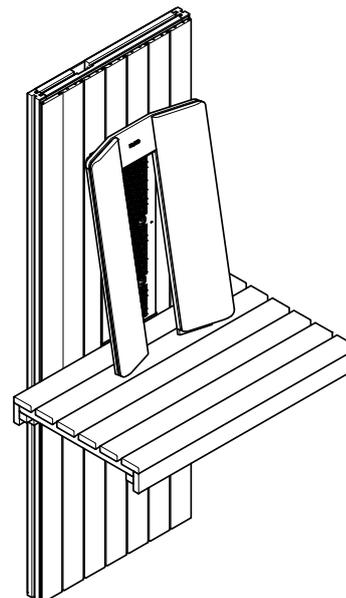
9. Operation

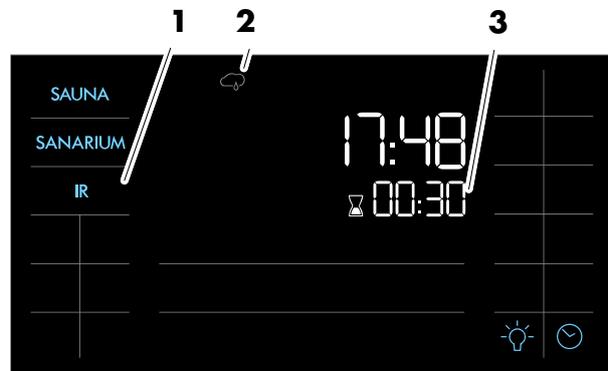## 9.5. InfraPLUS mode (optional)

Continued

Stopping InfraPLUS

1. Press the symbol (1).

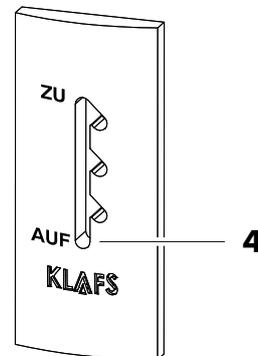The bathing mode is cancelled. The backlit ring goes out.

Automatic follow-on program 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 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 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.
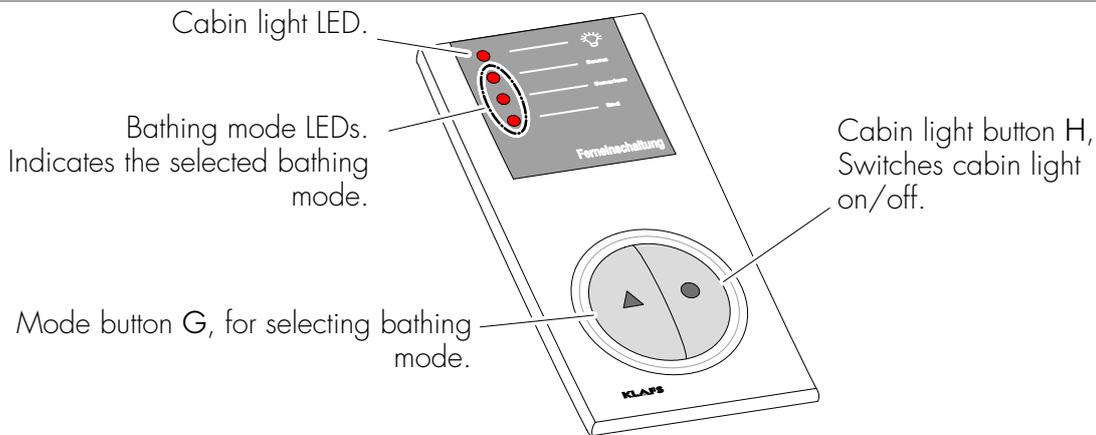
Airing the cabin

☞ 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. Operation

9.6. Remote power-on unit (optional)

Cabin light LED.

Bathing mode LEDs.
Indicates the selected bathing
mode.

Cabin light button **H**,
Switches cabin light
on/off.

Mode button **G**, for selecting bathing
mode.

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:

o   Starting and stopping Sauna/SANARIUM modes
o   Selecting the bathing mode
o   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.

### Switching bathing mode 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 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.

◗

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SANARIUM M, S

9. Operation

9.7. Interior display (optional), with SaunaPᴜʀ button, with/without IR receiver
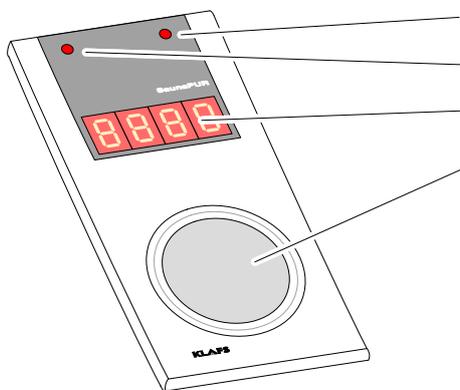
IR-receiver LED.

SaunaPᴜʀ bathing mode LED active/inactive.

Seven-segment display.

SaunaPᴜʀ button. Start/stop the bathing mode.

Sauna - time	`19.21`
Sauna - actual temperature	`95°C`
SANARIUM - actual humidity	`55A.F.`
Target humidity	`F 10`
Target temperature	`t 100`
Remaining bathing time	`3.25`
Switch status on/off	`OFF`
End of program	`End.`

Displayed when operating via remote control (optional).

Program end final drying `End.`

Temperature for SaunaPᴜʀ bathing mode not yet reached or not available using IR remote control function. `-no-`

Please see delivery documents for scope of supply.

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

○ Time
○ Actual temperature
○ Actual humidity
○ Target humidity
○ Target temperature
○ Remaining bathing time
○ Switch status
○ End of program.

Function of the SaunaPᴜʀ button
Start or stop the Pᴜʀ bathing mode.

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

Continued on the next page

PAGE 32

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9.　Operation

9.7.　Interior display (optional), with SaunaPᴜʀ button, with/without IR receiver

Continued

Starting the SaunaPᴜʀ bathing mode

☞　Prerequisite: The temperature must be reached. The ⌐ symbol must appear in the display.

◆　If necessary, start the Sauna bathing mode, see page 24.

☞　It is possible to start the SaunaPᴜʀ bathing mode using the controller or on the interior display (optional).

1.　Press the SaunaPᴜʀ bathing mode button.

☞　If ⁻ᴏᴏ⁻ appears in the seven-segment display, wait until the temperature for the SaunaPᴜʀ bathing mode has been reached. Then try again.

☞　When the SaunaPᴜʀ bathing mode is active, the SaunaPᴜʀ bathing mode LED lights up.

☞　After approximately 20 minutes, or once the temperature in the sauna cabin has decreased by approximately 15 °C, the SaunaPᴜʀ bathing mode stops automatically. The sauna heater begins heating again.

Stopping the SaunaPᴜʀ bathing mode

1.　Press the SaunaPᴜʀ bathing mode button.

☞　The SaunaPᴜʀ bathing mode LED goes out. The sauna heater begins heating again.

9. Operation

9.8. Green Sauna button

k l a f s
g r e e n
s a u n a

Touch key.

LED
Green Sauna
operating status.
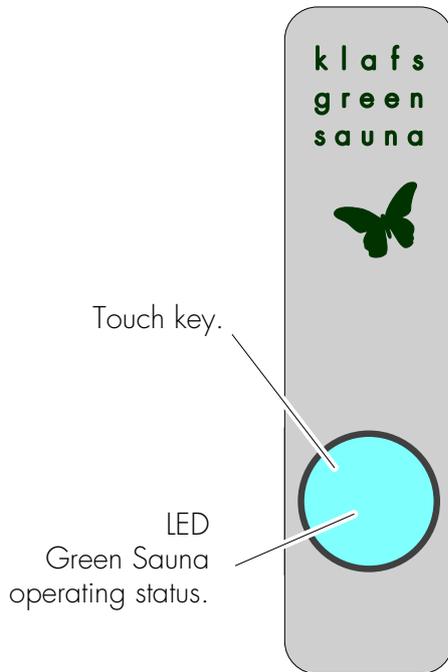
Green Sauna operating status:

LED lights up green = Green Sauna active.
No bathing session.
Devices that are not required can be switched off.

LED lights up blue = Green Sauna on standby.
Bathing session.
Devices that are required can be switched on.

☞ The Green Sauna function is switched on automatically after switching on the power supply for the sauna cabin. The LED lights up green.

Switching on the Green Sauna function

☞ Devices that are not required can be switched off when you leave the sauna cabin.

1. Press the touch key. The LED lights up green.

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 touch key. The LED lights up blue.

The Green Sauna goes into standby mode.

🛈 The colour of the LED operating status button on the Green Sauna will not change when the Green Sauna function is switched on or off via voice control.

9. Operation

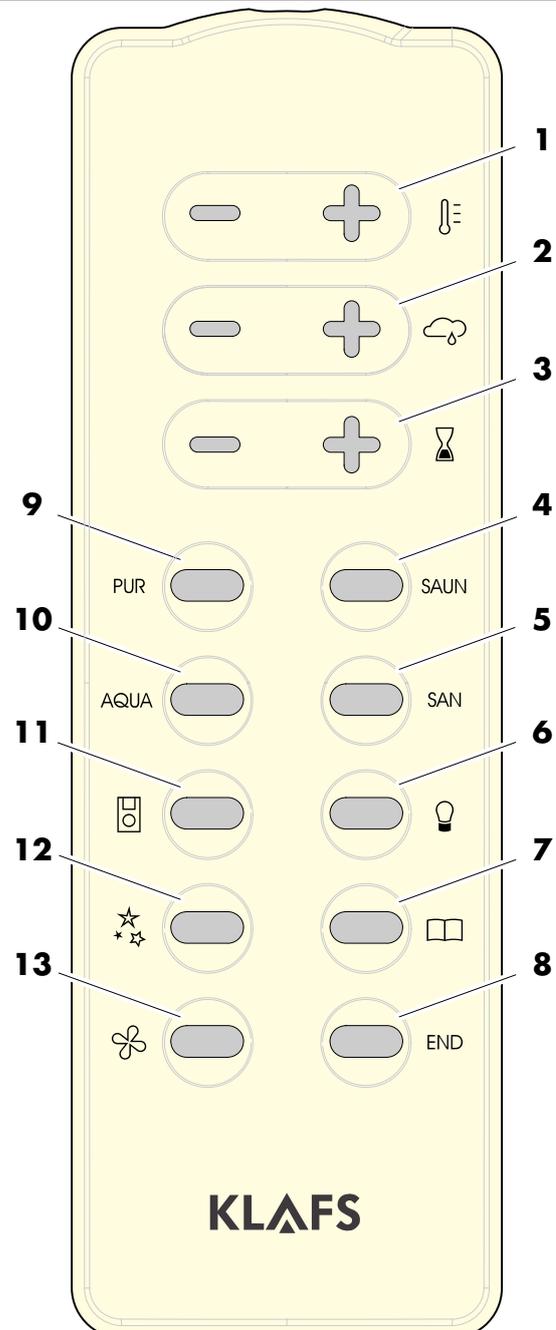## 9.9. WELLCONTROL (optional)

i WELLCONTROL allows you to operate the sauna controller via the interior display with infrared sensor.
AQUAVIVA, Starry Sky, coloured light and reading light switch off after a delay of up to 30 seconds after the bathing program has finished.

WELLCONTROL button functions:

1. Changes the temperature.

2. Changes the humidity.
☞ Option: With SANARIUM controller only.

3. Changes the bathing time.

4. Starts Sauna mode.
☞ The last-selected program is started.

5. Starts SANARIUM mode.
☞ Option: With SANARIUM controller only.
☞ The last-selected program is started.

6. Switches the cabin light on/off.

7. Switches the reading light on/off.
☞ IMES-1 required.

8. Ends the bathing session.

9. Activates SaunaPUR mode.

10. Switches AQUAVIVA on/off.
☞ CAN connection required.

11. Switches the coloured light on/off.
☞ IMES-1 required.

12. Switches Starry Sky on/off.
☞ CAN connection required.

13. Switches the fan on/off.

9. Operation

9.9. WELLCONTROL (optional)

Continued

Display examples on the interior display with infrared sensor

The interior display shows the control and adjustment functions that have been set using WELLCONTROL.

(Option: SANARIUM controller)

Target humidity	`F  10`
Target temperature	`t 100`
Remaining bathing time	`325`
Switch status on/off	`OFF`
End of program	`End.`

⚠️ **Battery replacement**
Only use batteries with a temperature rating up to 130 °C.
Batteries that have a lower temperature rating may leak or cause an exothermic oxidation reaction (explosion).

Battery brand Tadiran, type: SL-560/S.
Can be ordered from Klafs, for example, with the item number 30601167.

9. Operation

9.10. SANARIUM M - Preparing the evaporator

Filling the evaporator

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

Refilling the evaporator

> ℹ️ Topping up the evaporator when it is hot:
> The difference in temperature causes mechanical stresses in the tank, which are noticeable due to noises occurring 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. The filling quantity is shown on the level indicator (3).

☞ If the evaporator tank is overfilled, use the drain valve (1) to drain the water again.
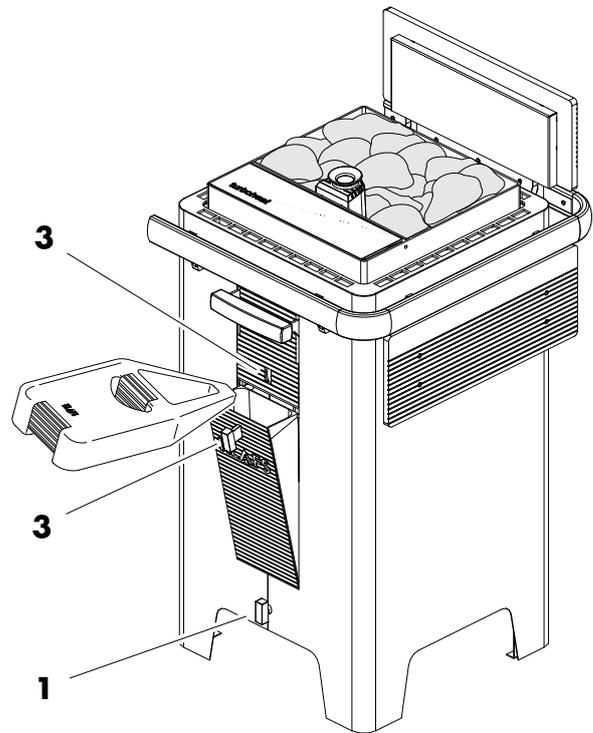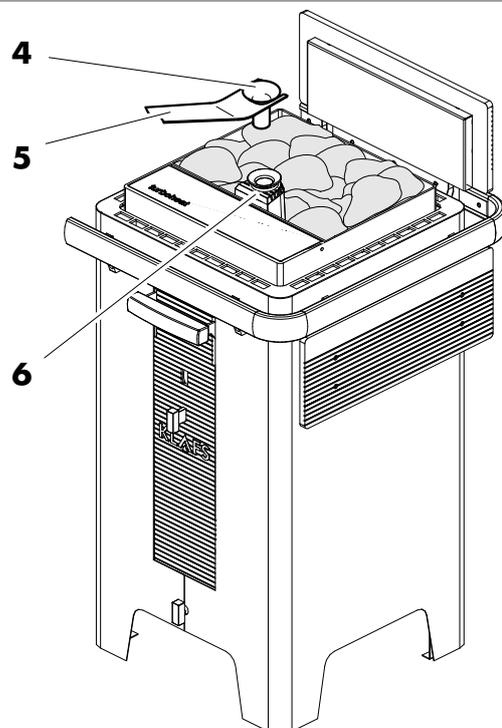
Adding scent to the aroma cup

1. Remove the aroma cup (4) from the steam outlet (6) with the aroma fork (5).

> 🔥 **Risk of fire!**
> Do not fill the aroma cup on the heater.

2. Pour diluted scent into the aroma cup.

3. Place the aroma cup (4) back on the steam outlet (6).

Continued on the next page

9. Operation

9.10. SANARIUM M - Preparing the evaporator

Continued

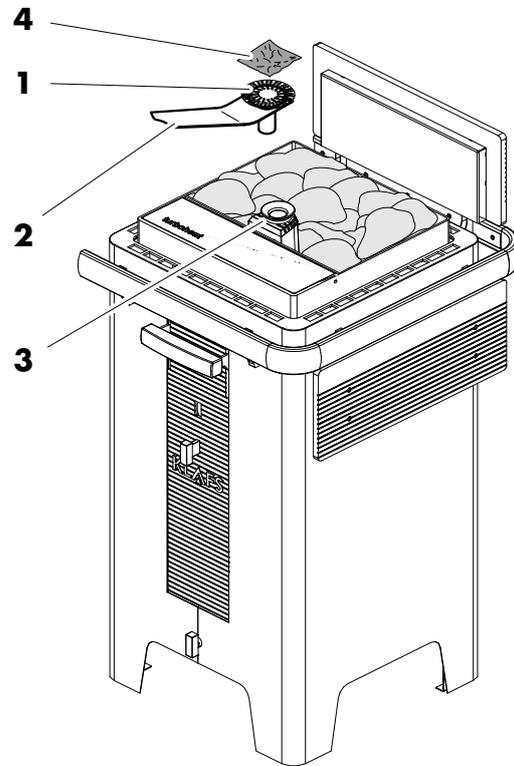### Adding the herbal pillow (optional)

> ⚠️🔥 **Risk of fire!**
> Do not place the herbal pillow (4) on the hot stones.

> ⚠️ Only use herbal pillows approved by Klafs.

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. Operation

9.11. 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 63.

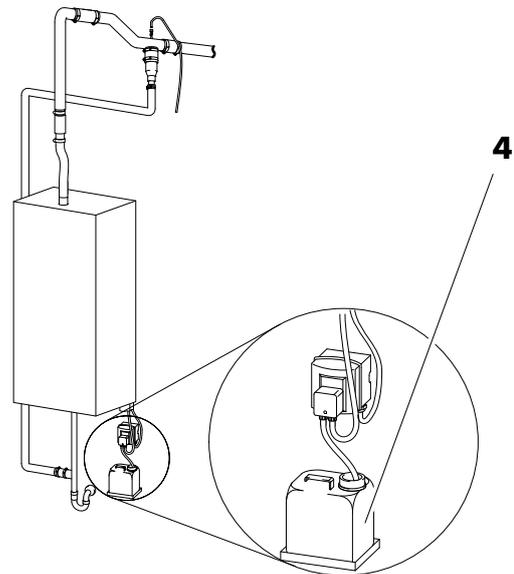> **i** The controller automatically switches the evaporator on.

1

3

2
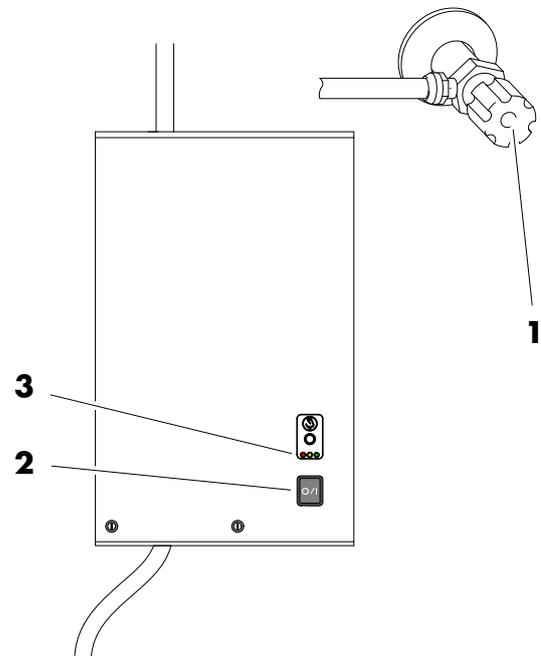
Birmingham scent dispenser

1. Check the fill capacity on the scent container (**4**).

☞ Replace the scent container.

▶ See "Cleaning and maintenance" - page 64.

4

9.   Operation

9.12.   SANARIUM M - Decommissioning the evaporator

### SANARIUM M - Draining residual water

ⓘ   Drain the water after every bath.

⚠ Danger of scalding!
The residual water will be hot straight after a session has finished.

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).
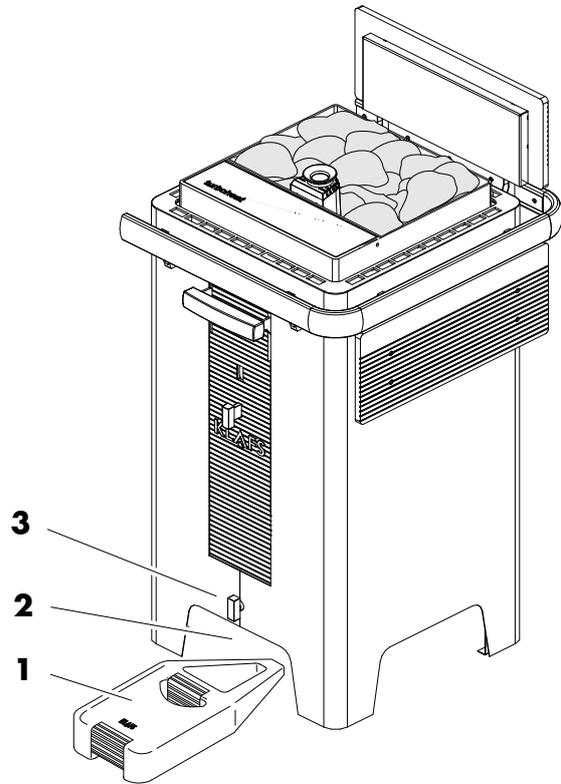
Emptying the aroma cup

⚠ Danger of scalding!
Immediately after the bathing session, the aroma cup is still hot.

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).
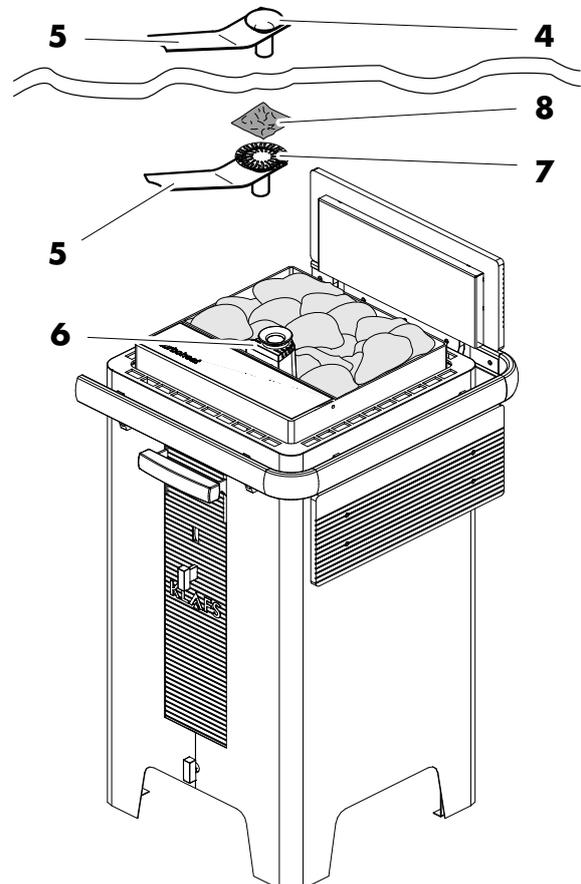
Removing the herbal pillow (optional)

⚠ Danger of scalding!
The herbal pillow holder will be hot straight after a session has finished.

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.   Operation
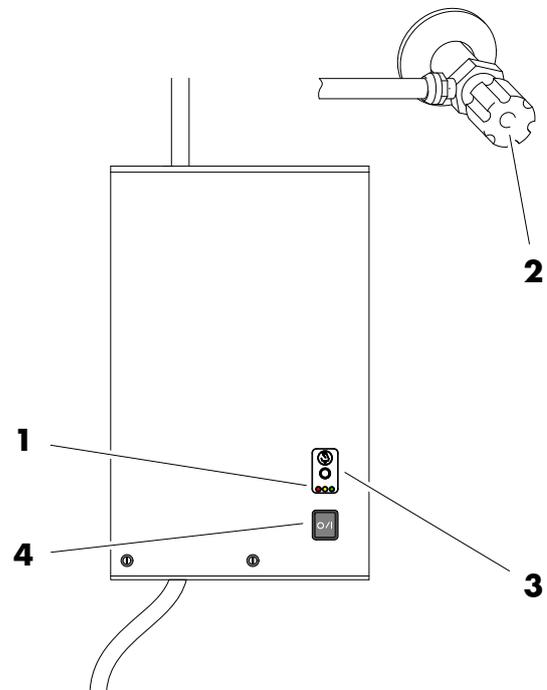
9.13. SANARIUM S - Decommissioning the evaporator

ⓘ 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 63.

1. Close the angle valve (2) for the water inlet.

2. Press the DRAIN button (3) until the steam cylinder is empty.

3. Press the OFF main switch (4).

10. Custom settings

10.1. Selecting the standard/custom program

ℹ️ For Sauna, SANARIUM* and InfraPLUS** (optional) modes, there is a custom program (Pr 1) in which you can set personalised bathing parameters (temperature, humidity*, intensity** and bathing time).

There are three standard programs for Sauna mode and four standard programs for SANARIUM* or InfraPLUS** mode (optional); all standard programs have fixed bathing parameters.

Changes to the bathing parameters are automatically saved to the custom program (Pr 1) for the bathing mode selected.

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

☞ *) The "humidity" parameter is only available in SANARIUM mode.

☞ **) The "intensity" parameter is only available in InfraPLUS mode (optional).

Selecting and starting a program

☞ Requirement: Select the desired bathing mode by pressing the Sauna, SANARIUM* or InfraPLUS** symbol.

1. Press the symbol (1).

2. Select the desired program by pressing the +/− symbols (2).

The storage location of the selected program (3) is displayed.

The stored bathing parameters - such as temperature, humidity*, intensity** and bathing time - for the selected program are displayed.

3. Start the selected program by pressing the OK symbol (4).

☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.
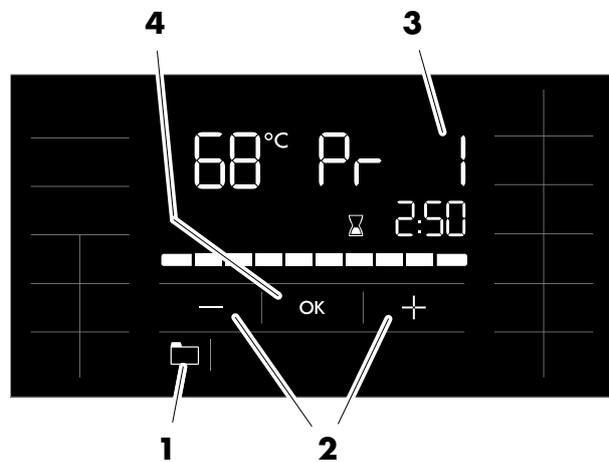
10. Custom settings

10.1. Selecting the standard/custom program

Continued

Program:

Temperature		Humidity
Sauna	**SANARIUM**	
1 Custom program	1 Custom program	Custom program
2 80 °C	2 50 °C	▭▬ ≙ approx. 35 g/m^3
3 90 °C	3 55 °C	▭▭▬ ≙ approx. 50 g/m^3
4 95 °C	4 60 °C	▭▭▭▬ ≙ approx. 70 g/m^3
	5 70 °C	▭▭▭▭ ≙ approx. 70 g/m^3

Bathing time	InfraPLUS (optional)	
	Intensity	
1 Custom program	1 Custom program	Custom program
2 20 minutes	2 Bar scale 2	▭▬ ≙ Soft
3 25 minutes	3 Bar scale 6	▭▭▬ ≙ Medium
4 30 minutes	4 Bar scale 10	▭▭▭ ≙ Intensive

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10. Custom settings

10.2. Setting the temperature

Changing the temperature

1. Press the symbol (1) or (2).

The temperature display (2) starts flashing.

2. Set the desired temperature by pressing the +/− symbols (3).

3. Apply the set temperature by pressing the OK symbol (4).

☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.
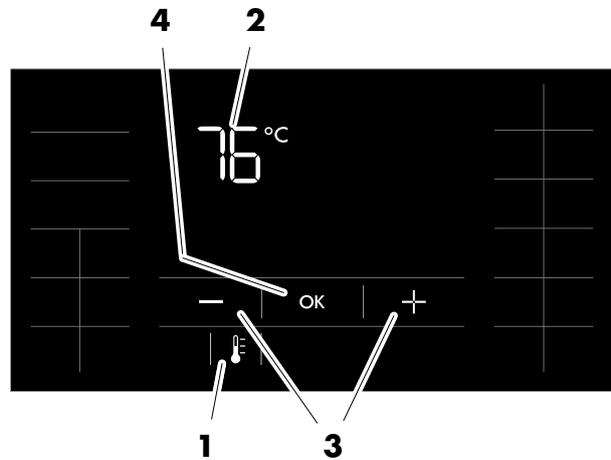
10.3. Setting SANARIUM humidity

🛈 The humidity can be adjusted only in SANARIUM mode.

Changing the humidity

1. Press the symbol (5).

The bar scale (6) appears.

2. Select the desired humidity by pressing the +/− symbols (7).

3. Apply the set humidity by pressing the OK symbol (8).

☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.
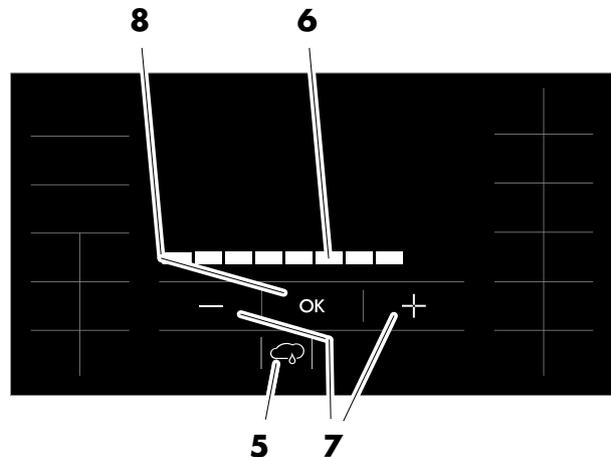
10. Custom settings

10.4. Setting InfraPLUS (optional)
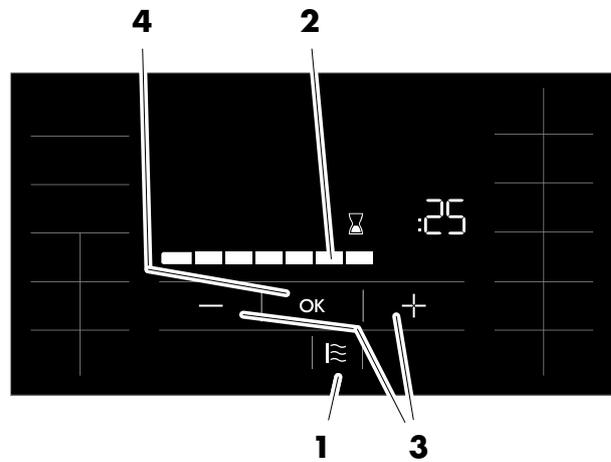
Changing the intensity

1. Press the symbol (1) or (2).

The intensity bar scale (2) flashes.

2. Set the desired intensity by pressing the +/− symbols (3).

3. Apply the set intensity by pressing the OK symbol (4).

☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.

10. Custom settings

10.5. Setting the bathing time

ℹ️ In InfraPLUS mode the bathing time can be set to between five and 30 minutes to the nearest minute.

Changing the bathing time
1. Press the symbol (1) or (2).

The digits for the hour (2) start flashing.

2. Set the desired bathing time (separately for hours and minutes) by pressing the +/− symbols (3).

3. Apply the set bathing time by pressing the OK symbol (4) in each case.

☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.
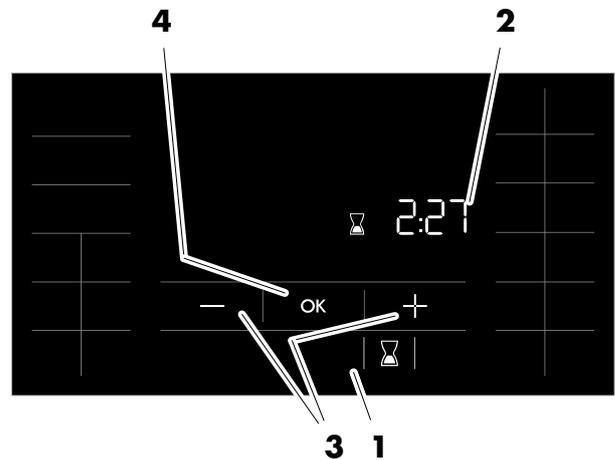
10.6. Setting preset time mode

⚠️ **Risk of fire!**
Before commissioning the controller, always check that there are no inflammable objects on or near the sauna heater.

Programming the pre-programmed start time
1. Press the symbol (5).

The pre-programmed start time (6) starts flashing.

2. Set the desired pre-programmed start time (hour and minutes) by pressing the +/− symbols (7).

3. Apply the set pre-programmed start time (hour and minutes) by pressing the OK symbol (8) in each case.

☞ The controller will automatically cancel input mode and retain the existing setting if the altered setting is not confirmed by pressing OK within five seconds.

☞ The controller goes into standby mode and starts heating automatically before the set time.

☞ The sauna cabin is ready to use at the programmed time.

10. Custom settings

10.7. Music

Selecting and switching on music

1. Press the symbol (**1**).

The active track (**2**) is displayed.

☞ Tracks 1 - 6 can be selected.

☞ Track 0 switches the music off.

2. Select the desired track by pressing the +/− symbols (**3**).

☞ The first track is displayed again after the last track has finished.

3. Apply the selected track by pressing the OK symbol (**4**).

The music is played.
The controller switches to the bathing or preset time mode.

☞ The controller will automatically cancel input mode and retain the previous track if the newly selected track is not confirmed by pressing OK within five seconds.

4. Or press the symbol (**5**).

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

◗ See page 48.

Switching off the music

1. Press the symbol (**1**).

The active track (**2**) is displayed.

2. Select track 0 by pressing the +/− symbols (**3**).

3. Switch off the music by pressing the OK symbol (**4**).

The music is switched off.
The controller switches to the bathing or preset time mode.

10. Custom settings

10.8. Volume

Adjusting the volume

1. Press the symbol (1).

2. Symbol (2) appears. Press the symbol (2).

The bar scale (3) displays the set volume.

☞ Setting the bar scale to 0 switches the music off.

3. Select the desired volume by pressing the +/− symbols (4).

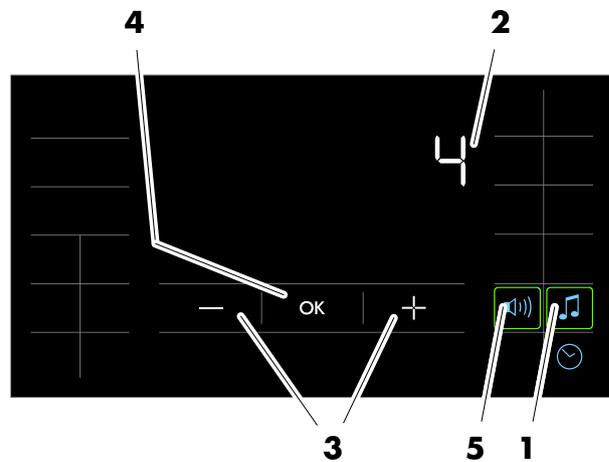4. Apply the set volume by pressing the OK symbol (5).
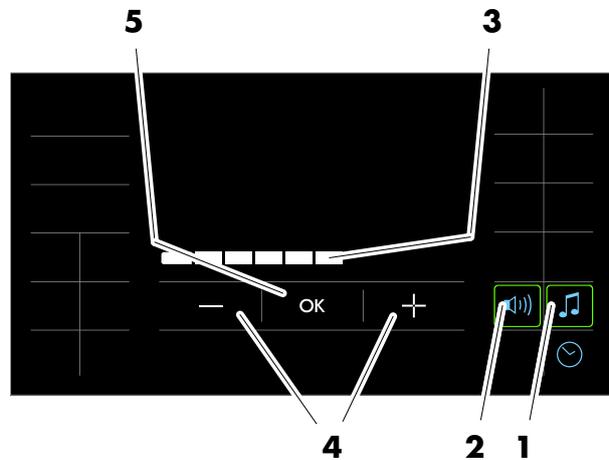
The music is played.
The controller switches to the bathing or preset time mode.

☞ The controller will automatically cancel input mode and retain the previous volume if the newly selected volume is not confirmed by pressing OK within five seconds.

5. Or press the symbol (1).

The volume is saved and the menu for selecting the music is displayed.

10. Custom settings

10.9. Setting a new password for the touchscreen lock

ℹ The default password is 1111.

ℹ ☞ Requirement:
The touchscreen lock must have been activated on service menu option 25 LOCK.
▶ See Servicing Instructions 18029, 18033, 18040.

Setting a new password

1. Press the symbol (1) twice, pausing for one second between presses.

☞ The default password is 1111.

2. Enter the old password (4) (1111 in this example) one digit at a time by pressing the +/− symbol (2) and pressing the OK symbol (3) to confirm in each case.

3. Enter the new password (5) (2222 in this example) one digit at a time by pressing the +/− symbol (2) and pressing the OK symbol (3) to confirm in each case.

4. Enter and confirm the new password (5) again (2222 in this example).

☞ If the password is entered incorrectly, the message ERR appears.

10. Custom settings

10.10. Switching the touchscreen lock on/off

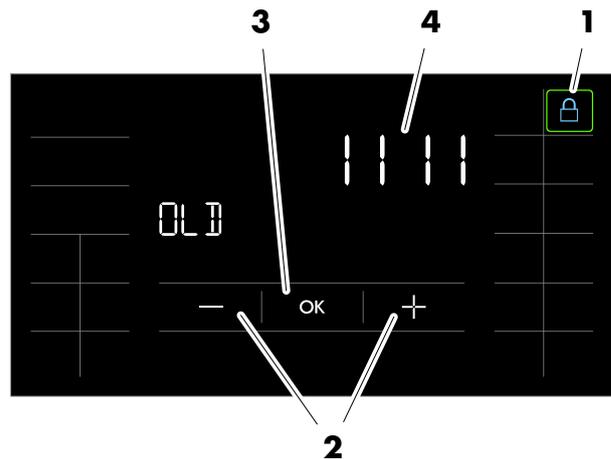**ℹ** If the touchscreen lock is active (padlock symbol (1) displayed), the controller cannot be operated via the touchscreen.

ℹ ☞ Requirement:
The touchscreen lock must have been activated on service menu option 25 LOCK.

◆ See Servicing Instructions 18029, 18033, 18040.

Switching the touchscreen lock off

1. Press the symbol (1).

2. Enter the password one digit at a time by pressing the +/– symbol (2) and pressing the OK symbol (3) to confirm in each case.
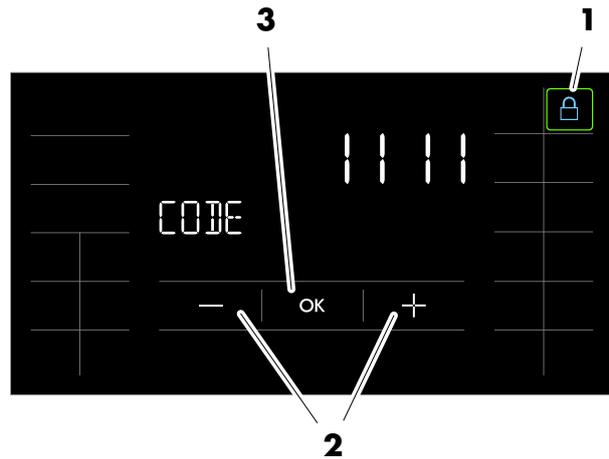
☞ Symbol (1) starts flashing at 1 Hz if the correct password is entered.

The touchscreen lock is switched off.

The controller can be operated via the touchscreen.
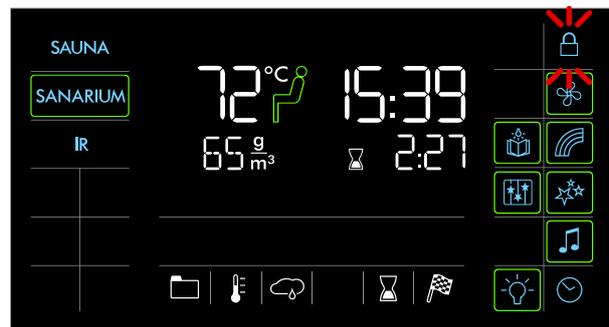
Switching the touchscreen lock on

☞ Symbol (1) starts flashing at 1 Hz when the lock is switched off.

1. Press the symbol (1).

Symbol (1) is permanently displayed. The touchscreen lock is switched on.

The controller cannot be operated via the touchscreen.

10. Custom settings

10.11. Special features

Switching special features on

1. Press the relevant symbol (1).

The special feature is switched on.

The bar appears.

Switching special features off

1. Press the relevant symbol (1).

The special feature is switched off.

The bar goes out.

Switching on and setting adjustable special features

1. Change the settings for the adjustable special features (5) by pressing the +/− symbols (2).

2. Or touch the bar scale (3) to change the setting in the same way as for numerical settings.

☞ Setting the adjustable special features (5) to 0 switches them off.

3. Apply the changed setting by pressing the symbol (4).

The bar appears.

The adjustable special feature (5) then starts with the setting entered.

Switching adjustable special features off

1. Change the settings for the adjustable special features (5) to 0 by pressing the +/− symbols (2).

2. Or change the setting to 0 by touching the bar scale (3).

3. Apply the changed setting by pressing the symbol (4).

The adjustable special feature (5) is switched off.

The bar goes out.
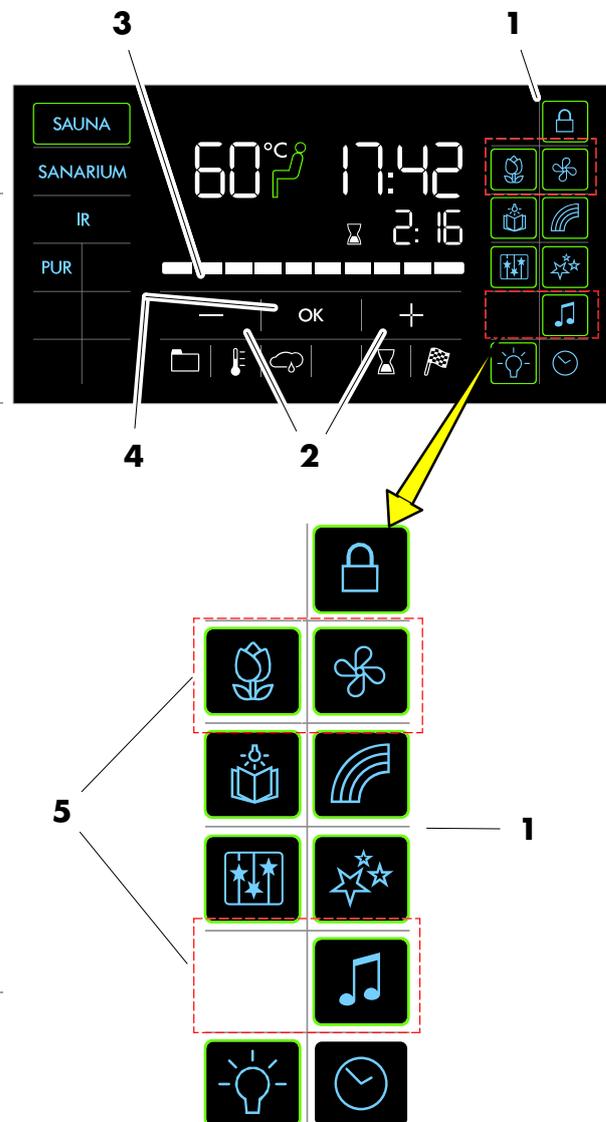
10. Custom settings

10.12. Climate Manager (optional)

> ⚠️ **Suitable scents**
> Do not use any scents containing eucalyptus when using the Climate Manager.
> Use original Klafs scents only.

Operation LED (1) on the Climate Manager.
BCD switch (2) on the Climate Manager.
Adjust the air flow rate inside the sauna cabin.

Position	Effect:	
0	○	minimum air flow rate
	○	maximum energy savings
9	○	maximum air flow rate
	○	low energy savings
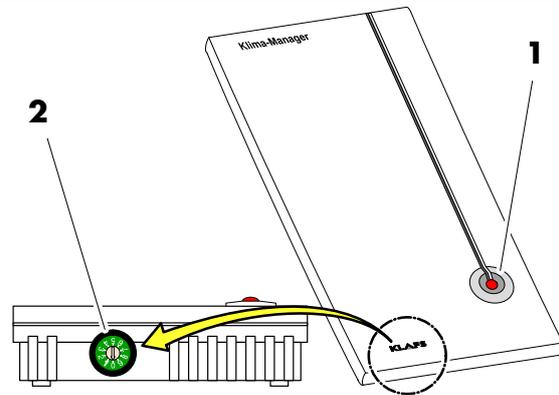
10.13. Vent flap for airing and ventilating the cabin (optional)

Correct airing and ventilation ensure an optimum climate.
The Klafs vent wall with adjustable vent flap (optional) allows you to regulate the air flow and volume.

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.

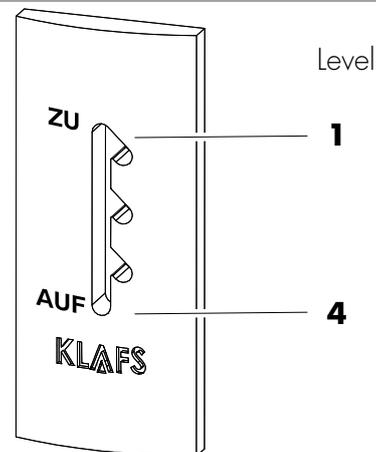However, you must distinguish between Sauna, SANARIUM or InfraPLUS (optional) mode.

Sauna:
Vent flap, level 4 to 3.

SANARIUM:
Vent flap, level 1 to 2.

InfraPLUS:
Vent flap, level 1 to 2.

> ℹ️ 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 personal injury and damage to property**
Repairs and maintenance must only be carried out by Klafs service engineers or by technicians expressly authorised by Klafs.
Klafs can only provide repairs and servicing work under warranty if this work is carried out by Klafs service engineers.

Error messages

The Service symbol (1) appears together with the error message number (2) (e.g. 97).

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

No.	Fault	How to rectify the fault
69	The basic heat sensor in the InfraPLUS heater is missing or defective.	Stop using InfraPLUS mode.
70	The skin temperature sensors in the InfraPLUS heater are missing or defective.	◗ Contact Klafs service engineers.
72	Eine Abdeckung des Ofens wurde erkannt.	Ofen kontrollieren und die Gegenstände entfernen.
	Die Kabinentür war während der Aufheizphase geöffnet.	Die Kabinentür schließen.
90	Low water level in the evaporator.	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.	Remove the object from the grille above the sauna heater.
		Check whether the grille has been removed. Fit the grille in place.

Continued on the next page

11. If something does not work

11.1. Error messages on the display

Continued

No.	Fault	How to rectify the fault
92	SANARIUM M: Service required, decalcify the evaporator. ☞ If the water hardness is set to 0 °dH, the error message 92 will not appear. ◗ See page 22.	Service the evaporator. ◗ SANARIUM M: See page 61. When the controller is in standby, reset error 92 by pressing and holding symbol 92 for one second.
93	Humidity is too low.	⚠️
94	Humidity is too high.	
95	Line break in the actual temperature sensor.	
96	Line break in the heater temperature sensor.	Switch the controller off at the mains.
97	The safety temperature limiter (STL) is interrupted.	Do not use the sauna cabin. ◗ Contact Klafs service engineers.
98	Short circuit in the actual temperature sensor.	
99	Short circuit in the heater temperature sensor.	

11. If something does not work

11.2. Other possible errors

Fault	Cause	Remedy
The controller cannot be switched on.	No mains power available.	Check the FI switch and the fuse in the power supply.
	Fuse SI102 or SI104 has blown.	Replace fuse SI102 (1.6 AT) or SI104 (1.0 AT), or inform Klafs service engineers.
LED on the humidity sensor is flashing, the *Cloud* symbol flashes in the controller display (SANARIUM M).	There is no water.	Fill the evaporator M with water. ⬧ See page 37/39.
There is no steam escaping (SANARIUM M).	Line break.	⬧ See the SANARIUM M Installation/Servicing Instructions 5080105/5080109.
	The heating rod is faulty.	
The cabin light does not light up after having been switched on.	The bulb is defective.	Change the bulb. 1. Disconnect the controller from the mains. 2. Replace with a bulb of the same wattage.
	No mains power.	Check the FI switch and the fuse in the power supply.
	Light fuse SI103 has blown.	Replace light fuse SI103 (0.6 AT) or inform Klafs service engineers.
The fan is not working. No power at output AG1.	No mains power.	Check the FI switch and the fuse in the power supply.
	Fuse SI104 has blown.	Replace fuse SI104 (1.0 AT) or inform Klafs service engineers.
	The fan is defective.	Replace the fan. 1. Disconnect the controller from the mains. 2. Replace with a fan of the same wattage.
	The main switch is not switched on.	Switch on the main switch.
No power at output AG2.	Fuse AG2 SI101 has blown.	Replace fuse AG2 SI101 (1.25 AT) or inform Klafs service engineers.
	The controller is in standby mode.	Start a bathing mode.

11. If something does not work

11.2. Other possible errors

Fault	Cause	Remedy
The LED on the evaporator lights up, the *Cloud* symbol flashes in the controller display (SANARIUM S).	There is no water.	Open the angle valve on the evaporator. ◗ See page 37/39.
There is no steam escaping (SANARIUM S).	The angle valve on the evaporator is closed.	Open the angle valve on the evaporator. ◗ See page 37/39.
	The evaporator is not switched on.	Switch on the evaporator. ◗ See page 37/39.
	Evaporator fault.	◗ See page 63.
	The fuse in the cable has tripped.	
	The inlet pump is faulty.	◗ Contact Klafs service engineers.
Yellow or red LED on the evaporator lights up (SANARIUM S).	The evaporator must be serviced.	Service the evaporator. ◗ See page 63.
	The steam cylinder is worn.	
	The inlet pump is faulty.	◗ Contact Klafs service engineers.
	The drain pump is faulty.	
☞ Only with evaporator S with Birmingham scent dispenser: **Scent is not being released (SANARIUM S).**	The scent container is empty.	Replace the scent container. ◗ See page 64.
	The scent pump does not work or is defective.	◗ Contact Klafs service engineers.
	The feed hose in the pump is defective.	◗ See Servicing Instructions 18029, 18033, 18040.
	The scent line is clogged or defective.	Check the scent line from the pump to the evaporator tube. Replace the defective scent line.
	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. ◗ See page 64.

11.   If something does not work

11.2.   Other possible errors

Fault	Cause	Remedy
The controller cannot be started or operated. **TC**	The controller is controlled by TOUCHCONTROL. The operating panel is locked.	Turn off TOUCHCONTROL. ☞ After approx. 5 minutes, TOUCHCONTROL activates the controller. 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. ◗ See page 50.
The sauna heater does not heat up (when controlled via TOUCHCONTROL or Central Building Control CBC). ⚷	The additional option (key) appears in the display for 30 minutes.	☞ Remove flammable objects from the sauna heater. Press the key switch on the sauna cabin for one second within 30 minutes of pressing Start on TOUCHCONTROL or CBC.
	The additional option (key) does **not** appear in the display. Output from sauna cabin heater **not** requested by CBC. The 30-minute waiting time has elapsed.	Request output from the sauna cabin heater via CBC.
	Changes to temperature settings have not been applied.	Press the key switch on the sauna cabin within 30 minutes of changing the settings.
Fan cannot be adjusted.	The Climate Manager is connected.	☞ The air flow rate is regulated by the Climate Manager.
The InfraPLUS heaters will not switch on.	The incorrect bathing mode has been selected.	Select InfraPLUS mode. ◗ See page 28.
	The temperature in the cabin is greater than 50 °C.	Open the cabin door and allow the temperature to fall.
	The InfraPLUS heater is not being supplied with power.	Check the fuse in the power supply. Switch the power supply on.

11. If something does not work

11.2. Other possible errors

Continued

| Fault	Cause	Remedy
AQUAVIVA does not start.	The mains switch on the AQUAVIVA controller is switched off.	Switch on the mains switch at the AQUAVIVA controller.
	The fuse in the feed line to the AQUAVIVA controller has blown.	Replace or reset the fuse.
	The CAN line is interrupted.	Check the CAN line.
	The expander circuit board is defective or not plugged in.	Check the expander circuit board and replace if necessary.
Starry Sky cannot be switched on.	The mains switch on the Starry Sky controller is switched off.	Switch on the mains switch on the Starry Sky controller.
	The fuse in the feed line to the Starry Sky controller has blown.	Replace or reset the fuse.
	The CAN line is interrupted.	Check the CAN line.
	The expander circuit board is defective or not plugged in.	Check the expander circuit board and replace if necessary.
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.
	The CAN line is interrupted.	Check the CAN 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 bulb of the same wattage.
	The electrical connection between the reading light and IMES-1 is interrupted.	Check and secure the electrical connection.
Remote power-on symbol.	The controller will not switch on.	On service menu item 20 KEY, change the setting to [2] Remote. ◗ See Servicing Instructions 18029, 18033, 18040.

11. If something does not work

11.3. Resetting the error message

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. 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).
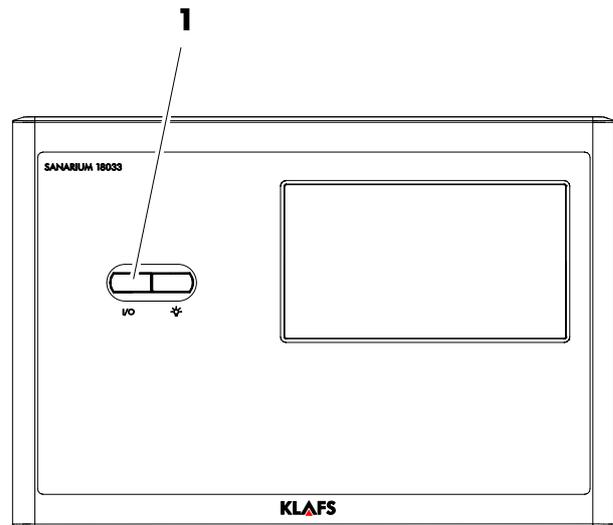
Resetting error 92 on the control panel

☞ The final drying phase must have finished.

1. In standby mode, clear the error message by pressing symbol 92 (2).
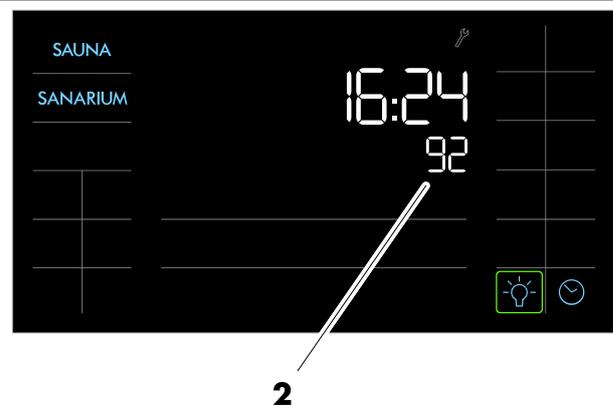
12. Cleaning and maintenance

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.

(i) 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.).
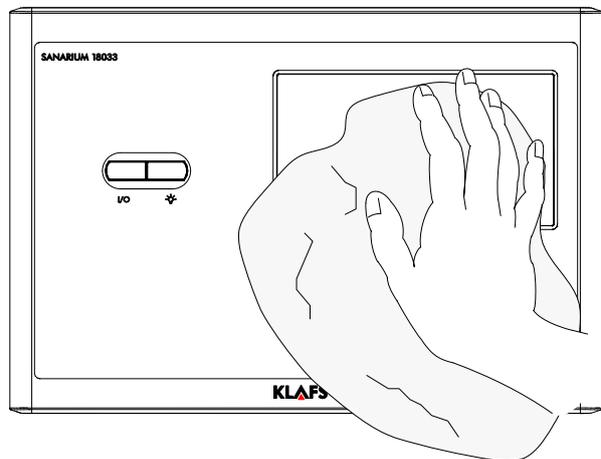
12.2. Cleaning the touchscreen

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.

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

12. Cleaning and maintenance

12.3. SANARIUM M - Decalcifying the evaporator

> ⚠️ **Danger of caustic 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 water from the prepared bucket into the evaporator at the charging port (1).

☞ Allow the decalcifier to act overnight, or follow the timings indicated on the package insert.

3. After the reaction time has elapsed, place the filler can (2) under the discharge opening (4). Open the drain valve (3). Gradually drain the decalcifying water into the filler can (1) and pour down the drain.
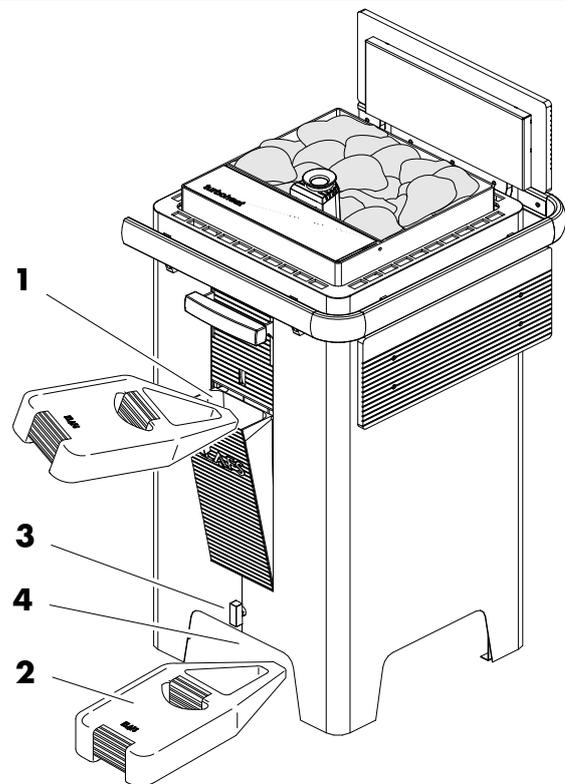
Continued on the next page

12. Cleaning and maintenance

## 12.3. SANARIUM M - Decalcifying the evaporator

Continued

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. In standby mode clear the fault by pressing the symbol 92.
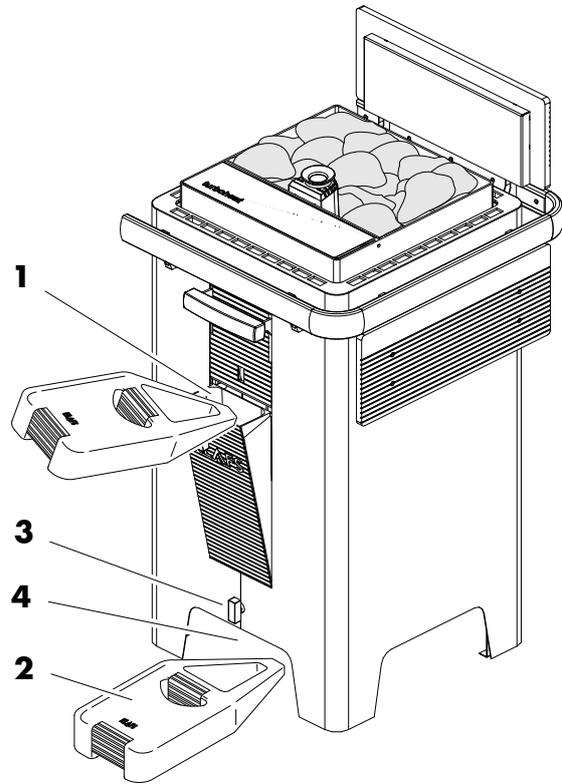
12. Cleaning and maintenance

12.4. 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.

1

➤ See Servicing Instructions 18029, 18033, 18040.
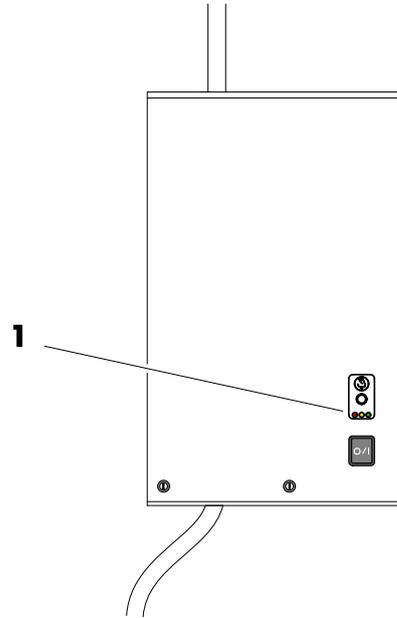
SANARIUM S - Drain pump, change the inlet valve

➤ See Servicing Instructions 18029, 18033, 18040.

SANARIUM S - Change the fuse

➤ See Servicing Instructions 18029, 18033, 18040.

12. Cleaning and maintenance

12.5. 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.
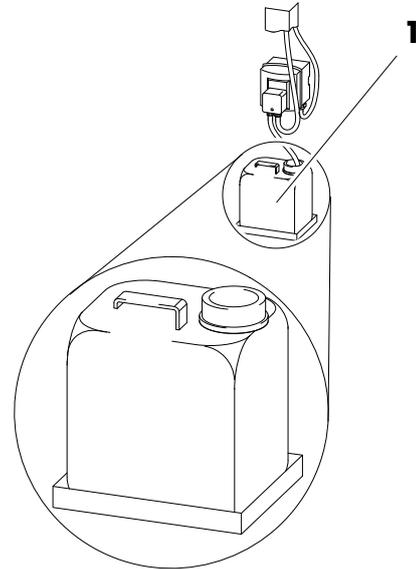
12.6. Evaporator - Scent line to the evaporator tube

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.
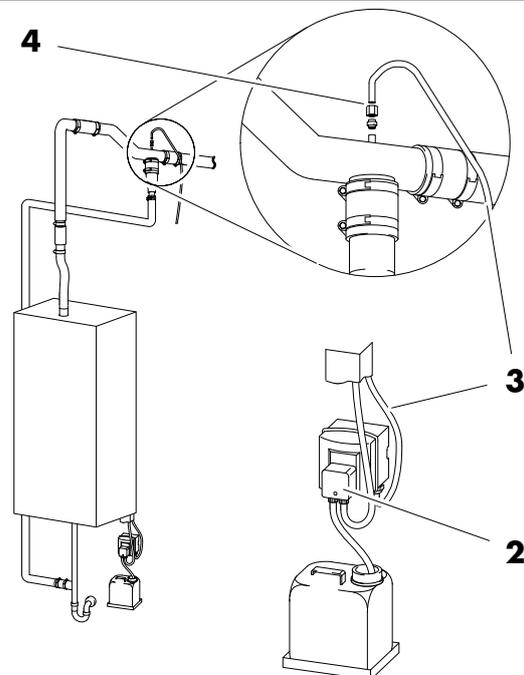
13. Notes

13. Notes

13. Notes

14.   Addresses

**Wherever you are: KLAFS is near you.
We provide expert service.**

KLAFS GmbH & Co. KG

Parent company Germany:
Erich-Klafs-Straße 1-3
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Accessories/Spare parts Tel. +49 791 501-310

You can also find many accessories in our online shop at www.klafs.de

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Tel. +41 41 760 22 42

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A-6361 Hopfgarten/Tirol
Tel. +43 5335 2330-0

We hope your "Klafs SANARIUM M, S with 18033 controller" promotes your well-being and provides you with hours of fun, leaving you feeling relaxed and rejuvenated.