

LSG-Steam for EmoTouch 3

control system for steam rooms



display panel not included

EN

Installation and operation manual

Made in Germany

CE EAC

Firmware
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English

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General information for steam rooms

Dear customer,

You have purchased a high-quality device that was developed and manufactured in compliance with the latest standards and quality guidelines. Please note that perfect interaction of the steam bath cabin, the steam generator and control unit must be guaranteed to achieve the typical pleasant steam bath atmosphere in your cabin. This control unit is used to operate your steam bath system. Its numerous programming options allow you to quickly find the settings that best suit your requirements.

Everybody experiences the climate in the steam bath differently, which is why you need to find your own individual settings, or those of your family.

The following operation instructions describe how to pre-select the desired climate in the cabin. Read these instructions carefully, so that you can quickly and easily find your way through the programming process.

Please note that the temperature may vary in different zones of a steam bath.

Therefore there may be temperature variations between the reading of the control unit temperature sensor and the thermometer in the cabin.

For instance, by a pre-selected temperature of 46 °C a lower value may be shown on the room thermometer. This would then also correspond to the typical climate conditions in the cabinet.

Only use suitable cabin lights. Always ensure hygienic conditions.

To prevent draughts inside the cabin, the ventilation function should be set correctly during the steam bath operation. It should be used only if recommended by the cabin manufacturer.

General Safety Regulations

- This device can be used by children aged 8 upwards and by persons with physical, sensory, or mental disabilities, or persons who have inadequate experience and knowledge if they are supervised or if they have received adequate instruction in how to use the device safely and understand the associated risks. Children may not play with this device. **Children** may not clean or carry out any user maintenance if unsupervised.
- **Children** should be supervised to ensure that they do not play with the device.
-  **Caution:** The unit may not be installed in closed switch cabinets or behind closed wooden panels!
- Only qualified electricians may install the device.
- You must comply with the regulations of your electrical supplier and applicable VDE regulations (DIN VDE 0100).
-  **Caution, risk of fatal injuries:** Never carry out repairs or installation work yourself. Only a qualified technician may remove the housing cover.
- Please always observe the dimensions stated in the assembly instructions when installing the temperature sensor. The temperature limit values can only be observed if the assembly work is carried out correctly, and there is a very low temperature fluctuation in the steam cabin.
- The unit may only be used as intended as a control unit for steam generators up to 9 kW. Control units where there is the option of increasing the switching capacity in combination with a power switching unit can be used up to 36 kW.
- The system must be completely disconnected from the mains supply before carrying out any installation work or repairs, i.e. switch off fuses and master switch.
- Observe the safety and installation information provided by the manufacturer of the unit.
- Please also observe the information and instructions provided by the cabin manufacturer.

 **Caution!**

Dear Customer, In compliance with the current regulations, only a qualified electrician may connect the electrical elements of the steam generator or the steam bath control unit.

We would like to remind you that, in case of a warranty claim, you will need to provide a copy of the authorised electronics company's invoice.

 **Attention!**

Make sure to use only the original spare parts.

The extension of the cables included in the delivery can cause malfunctions is therefore not allowed.

Any unauthorized technical modification voids the product warranty.

Identification

The control unit LSG Steam consists of a relay box and a temperature sensor. In conjunction with a display panel EmoTouch 3 (not included in the delivery scope) it is used to control a steam generator in a steam room.

Identification of the relay box

For identification of the device a type shield is attached to the bottom side of the unit.



- A. Description of the unit
- B. Product type name
- C. Item no. (product code)
- D. Power supply type
- E. Maximum switching power
- F. Country of origin
- G. Manufacturer
- H. Production date
- I. Serial number

Intended use

The LSG Steam control system in conjunction with the EmoTouch 3 display panel and a suitable steam generator is solely intended for heating of steam rooms cabins with steam.

It is suitable for privately and commercially used cabins.

This device is not intended for outdoor use. It can be installed and operated only inside buildings and may not be exposed to the environment with high humidity or humidity condensation possibility, corrosive substances or other negative ambient conditions. Likewise the excessive cold or intensive direct sunlight should be avoided. By increased risk of mechanical damages the appropriate protective measures should be taken.



Foreseeable misuse

The following are considered instances of foreseeable misuse:

- The control and sensor cable plugs are plugged in incorrectly.
- The unit is operated without knowledge of or compliance with the safety instructions.
- Operating, service and maintenance requirements are not observed.
- The unit is operated after technical or other modifications are made to the relay box.
- The unit is operated by children or persons with reduced mental capacity or by persons who have not been thoroughly instructed in its use.

Manufacturer is not liable for unauthorized modifications of the device and resulting damages. The risk shall be solely on the responsible person.

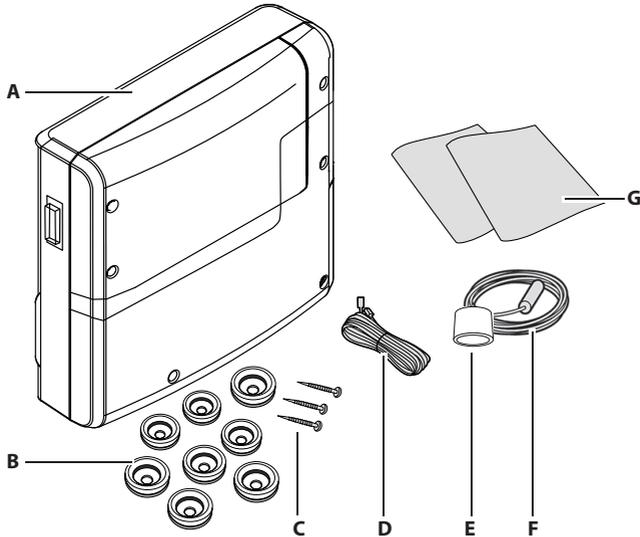
Please refer also to the safety notes give in this manual.

Description of the unit

LSG Steam consists of the main relay box, the temperature sensor and the corresponding connection cable. LSG Steam can be only used in conjunction with an EmoTouch 3 display panel, which is not included in the scope of delivery. Additional extension modules and consumers can be connected to the LSG Steam relay box, e.g. lamp, fan, sound module, etc.

Scope of delivery

Standard delivery includes.



- A. Main relay box with 2-part front cover
- B. 8 cable glands
- C. 3 mounting screws 4 x 25 mm
- D. 5 m connection cable RJ14/RJ10 for display panel connection
- E. Ferrite ring for display cable
- F. Temperature sensor with 5 m connection cable
- G. Installation and operation manual

Optional accessories:

- SBM-FL75/150 colour light module.....Item 94 5996, 94 6007
- SBM-BT sound control moduleItem 94 5920, 94 5921
- Remote start module with push buttonItem 94 5782
- Sensor connection cable 20 mItem 94 6281
- Sensor connection cable 50 mItem 94 6282
- Display panel cable 25 m (RJ10/RJ14).....Item 94 6285
- Sauna bus 6P6C cable for modules 10 m (RJ12/RJ12)Item 94 5861
- Sauna bus 6P6C cable for modules 25 m (RJ12/RJ12)Item 94 4647
- Sauna bus 6P6C cable for modules 50 m (RJ12/RJ12)Item 94 4648
- Power adaptor 24VDC for display panelItem 94 6671

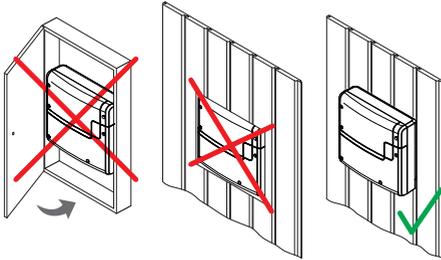
Technical specifications

Voltage (power supply):	230 V 1N AC 50 Hz
Switching capacity:	only switching signal
Heating time limit:	6 h / 12 h / 18 h / unlimited
Housing:	plastic, shatter-resistant
Operation:	via external EmoTouch 3 display panel (not included)
Temperature control range:	25 ° - 50 °C
Sensor system:	Digital sensor (sensor bus), 5 m cable included
Control characteristic:	Digital two-point control
Output for fan:	min. 5 W, max. 150 W (only fans without starting capacitor) NOTICE: Only use fans suitable for phase control!
Output for light:	<ul style="list-style-type: none">• min. 5 W (20 mA)• resistive loads - max. 100 W,• dimmable energy saving lamps - max. 35 W• Lamps at conventional transformers - max. 60 VA. NOTICE: only dimmable lamps may be used! NOTICE: Fan and light connection are protected by a common 2AF fuse.
Volt-free output:	<ul style="list-style-type: none">• Resistive load (AC): max. 250 V AC / 10 A• Inductive load (AC): max. 500 VA• Direct current: up to 30 V DC max. 10 A (300 W)• Direct current: up to 110 V DC max 0.3 A (33 W)• Direct current: up to 220V DC max. 0.12 A (26.4 W)
Start time pre-selection:	up to 24 h in advance
Switching automation:	Week timer with 4 switching programs per day
Error display:	Clear text error indication on the display
Outputs:	3 x RJ10 jacks for sensor connections 2 x RJ14 jacks for control panel and extension modules 1 x potential free contact (2 terminals) Output S1 - max. load 50W/50VA, no capacitive loads allowed.
Terminal block area for power supply and heater connection:	0.5 – 2.5 mm ² rigid or flexible crimped wire, two cores with the same cross section per terminal may be connected
Terminals 3, 4, light, fan:	0,34-2,5mm ² rigid or flexible crimped wire. Please observe the minimal cross section as per fuse protection of the line!
Ambient temperatures for use:	-10 °C bis +35 °C
Storage temperatures:	-20 °C bis +60 °C

Place of installation requirement:	Intended for indoor installation only. Main relay box may not be installed in corrosive environment or in an environment which may cause water condensation.
Dimensions main block:	270 x 300 x 100 mm
Dimensions temperature sensor:	65 mm x Ø14 mm, stainless steel housing

Installation of the main electronic unit

The main electronic unit (relay box) may be installed only outside the cabin. The recommended places of installation are the outer cabin wall or the engineering room (plant room). If empty ducts for connection cables are already available, then they usually predetermine the installation position. The installation shall be carried out as follows:



! Attention: The relay box may not be installed in a closed switch cabinet or behind a wooden panelling!
Risk of overheating! Fire hazard!

1. Remove the lower cover from the relay box. Unscrew the 3 fixation screws, then slightly pull the lower housing cover down and take it off. See Fig. 1 for details.

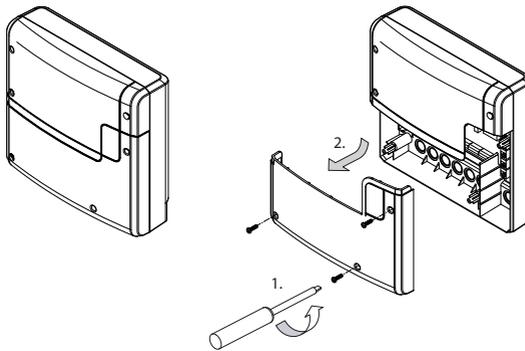


Fig. 1

The holes for the provided 4 x 25 mm screws are to be installed according to the dimensions shown in Fig. 2.

2. Use the upper central screw to hang the relay box. Make sure that this screw stands out approx. 3 mm (detail in Fig. 2).

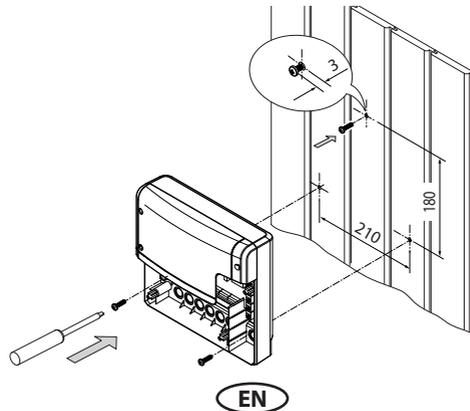


Fig. 2

3. Hang the housing on the upper central screw in the upper central mounting hole. Insert the supplied rubber cable glands into the openings of the bottom of the housing (from below or from behind, as desired) and then guide the connection cables through these openings. Screw the lower part of the housing firmly to the cabin wall in the two lower mounting holes (Fig. 3).

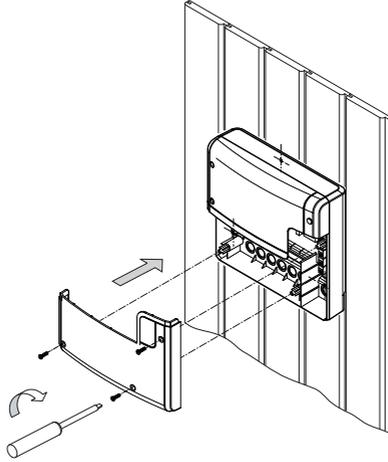


Fig. 3

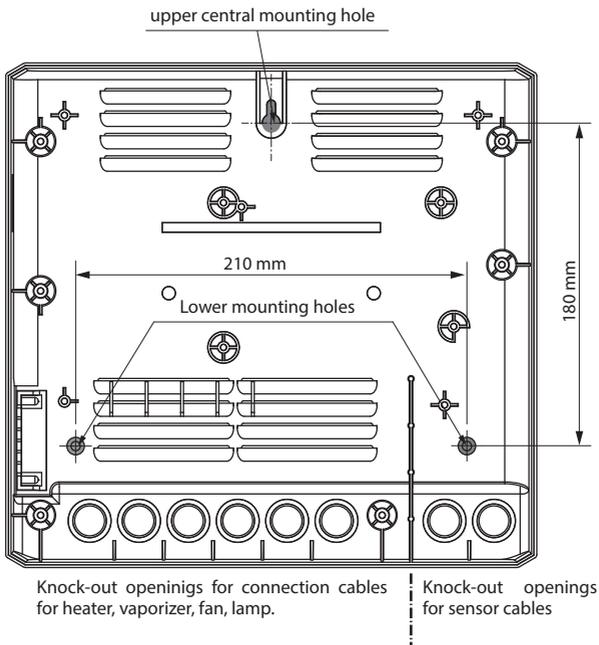


Fig. 4

Display panel

The LSG Steam unit is designed to be used with the EmoTouch 3 control panel, which is not included in the scope of delivery.

You can use for instance the already available EmoTouch 3 control panel of the sauna control system EmoTouch 3 or of the SteamRock II Premium steam generator.

- Connect the LSG Steam unit to the EmoTouch 3 panel as described in the installation manual supplied with the EmoTouch 3 control system (e.g. EmoTouch 3 sauna). Please refer to the section “multi-cabin installation”.
- Note that the maximum connection cable length is 25 m. With an optionally available power adaptor the connection cable length can be extended up to 50 m.
- The delivery scope includes 5 m cable for connection to the display panel.
- Note that by a multi-cabin installation the cabin ID may need to be reprogrammed during the initial setup. Refer to the section “multi-cabin installation” of the EmoTouch 3 control system.

Temperature sensor

Except the sensor and cabin light lines also other connection cables and wires may need to be installed (e.g. surface heating). Install all lines so that they are properly protected, e.g. use a protective cable channel

NOTICE

Electronics malfunctions

The joined laying of data cable and power cables can cause interferences and lead to malfunctions, e.g. sensor fault error message.

- Do not lay the sensor and sauna bus lines together with the power supply lines.
- Route cable conduits separately.

Temperature sensor installation

The sensor line has an adapter that separates the sensor from the main line. This allows you to simplify how the cable is laid, or as necessary, replace the standard length of 5 m with a line of 20 m or 50 m (accessory).

NOTICE

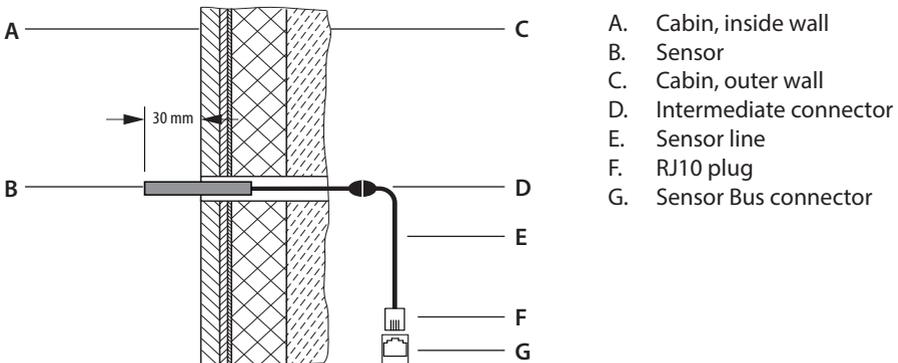
Faulty switching by steam generator

The temperature sensor controls the steam generation. If the distance to the steam nozzle is not long enough, it is possible that the steam generator will switch off too early. If the distance is too long, it is possible that the temperature can rise too high where steam is emitted.

- Do not mount the temperature sensor near the steam nozzle.
- Mount the temperature sensor as diagonally opposite the steam nozzle as possible.

Hardware + tools:

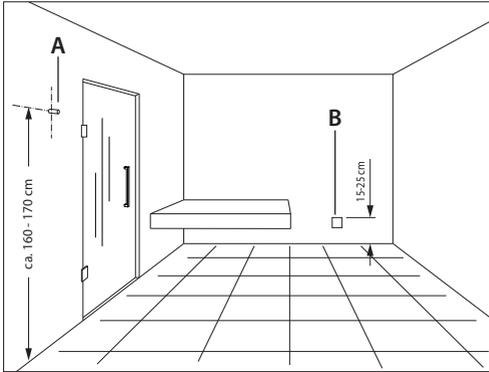
- Temperature sensor (measurement for installation): 65 mm length x Ø14 mm
- Drill to drill a hole in the wall: 18–20 mm, so that there is a distance of 2–3 mm all around for the seal
- Silicon for sealing and insulating



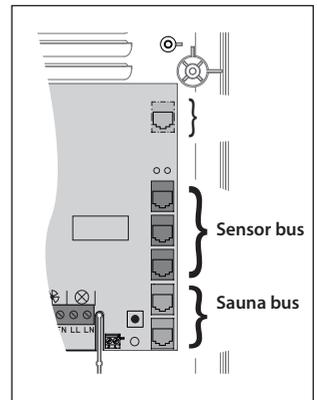
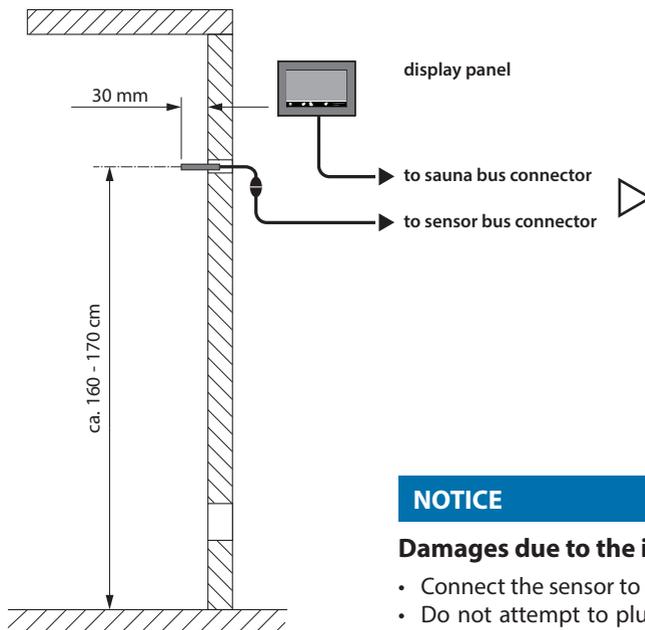
Installing the temperature sensor in the cabin

1. Drill a 20 mm opening 160–170 cm above the floor.
2. Route the temperature sensor housing through the hole.
3. Fix with silicone internally and externally (fill the gap around the sensor with silicone)
4. The sensor must protrude from the cabin by approx. 30 mm.
5. Plug in the data line and pull it through the provided cable channel.
6. Plug in the sensor line in the main relay box.

Temperature sensor - installation and connection overview



- A. Sensor
B. Steam outlet



main electronic unit

NOTICE

Damages due to the incorrect sensor connection

- Connect the sensor to the sensor bus jack only.
- Do not attempt to plug the sensor into the sauna bus jack, this may damage the unit.

Electrical connection

This section describes the cable connections to the main board of the LSG Steam relay box. For setup of the control unit refer to the section „Commissioning“.

Only suitable steam generators can be connected and operated by the LSG Steam control system. Verify in advance if the steam generator which you plan to connect is compatible.

In general the control effects basing on a 2-signal principle.

The S1 output will provide a permanent 230 V voltage if the heating has been switched on. While the U output will provide 230 V voltage depending on the air temperature reading by the sensor which acts as a switching signal for the steam generator to produce steam or pause steam production.

Recommended order of the electric connections and settings:

- Connect the connection cable for display panel to the S-Bus connector in the relay box and to the EmoTouch 3 display panel on the other end.
- Connect the sensor bus connection cable from the temperature sensor to the Sensor connector.
- Connect the optional extension modules (if available) to the S-Bus connector.
- Connect the consumers (steam generator, light, fan, etc.).
- Connect the mains to the main relay box.
- Set the heating time limitation as required with the jumper JP5 in the relay box.
- Switch on power supply to the LSG Steam unit (also to the extension modules if available).
- Carry out the cabin ID programming and ensure that LSG Steam unit has been correctly identified by the EmoTouch 3 display panel.
- Carry out the initial setup and basic settings.

Mains connection

DANGER



Risk of electric shock

A faulty electrical connection poses the risk of an electric shock.

This risk also applies following completion of the installation work.

- Electrical installation must only be carried out by a qualified and licensed electrician.
- Work on the steam generator may be performed only if the power supply has been disconnected.
- The unit must be connected to the power supply according to the circuit diagram and the terminal scheme.

The applicable international (e.g. VDE), national and local (EVU) legal norms and requirements in their currently valid versions should be observed. All installation and verification work in Germany should be carried out by a licensed and appropriately qualified electrician in compliance with VDE 0100 part 701.

Leakage current

The electricity supply must be protected by a residual-current-operated protective device (RCD) with a rated fault current of <math><30\text{ mA}</math>. Please ensure that no other electrical appliances are protected by this RCD device.

The leakage current must not exceed the following values in accordance with DIN EN 60335-1:2012-10:

- For stationary class I heating appliances: 0.75 mA or 0.75 mA per kW rated power input of the heating unit, whichever is higher, up to a maximum of 5mA.

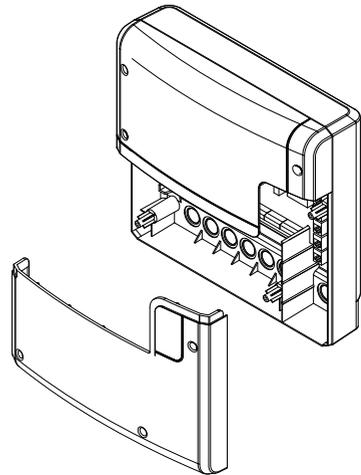


Steam generator connection

Connect the steam generator as per installation manual of the manufacturer.

Lay the connection cable from the steam generator and connect it to the terminals in the LSG Steam unit as per connection diagram (see wiring diagram).

Make sure to observe the wiring diagrams and connection schematic given on the following pages.



LSG Steam unit, lower front cover opened



Lamp connection



The lamp must have the protection class of at least IP65 and should be resistant to the ambient temperatures. The lamp may be installed at any location, but never close to the rising steam from the steam outlet.

Only dimmable lamps may be used. Observe the power limits! The control unit is factory set to resistive and inductive light load. It is possible to define the light output. Refer to the chapter "Manual setting of the lamp" for further details.



Attention! Only connect dimmable lamps!

By connection of a non-dimmable lamp there is a risk of damage to the lamp or to the control unit. In this case, the warranty will be void.

Requirements for lamps:

- Min. power 5 W
- Ohmic loads max. 100 W
- Dimmable energy-saving lamps max. 35 W
- Lamps on conventional transformers max. 60 VA



Fan

Only use a suitable fan whose speed can be controlled via phase control. The fan must have the protection class IPX6 and must be resistant to the ambient temperature.

The fan should be mounted in the duct vent line (extraction line) outside the cabin and not in the direct proximity of the rising steam flow from the steam outlet.



Heating time limitation

The max. heating time may be limited with the jumper #5 on the main board of the relay box. The limitation may be set to 6, 12, 18 hours or to unlimited.

With the setting "unlimited", the device must be switched off manually. This feature is only allowed in supervised (staffed) commercial steam room facilities.

In addition, if the control unit is set to "private", the heating time is automatically limited to 6 hours.

The selected type of use has priority.

All control units are delivered (factory set) with the limitation "6 hours".



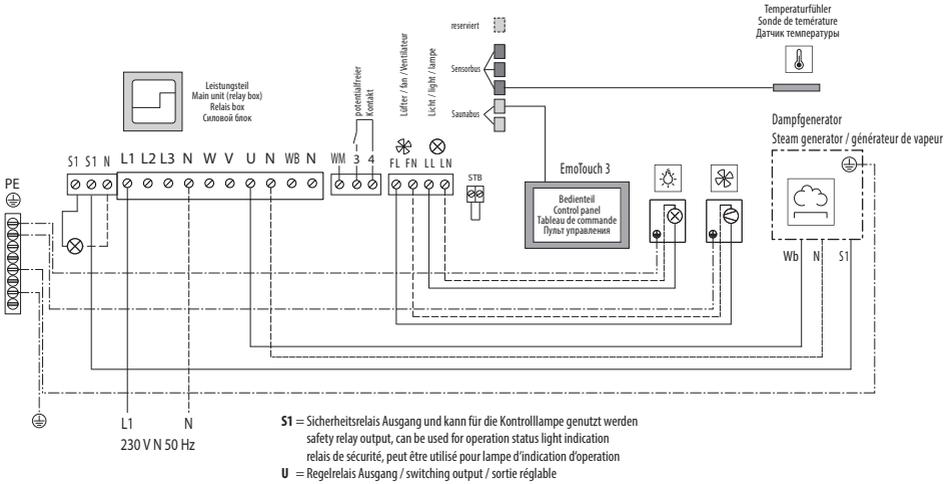
Potential-free contact

The terminals "3" and "4" on the main board of the relay box are the terminals of the normally open (NO) contact of a relay. Both terminals have no further connection and are therefore potential-free (voltage free). You can integrate this contact into any circuit, in order to switch an external power load or to relay a switching signal. The max. load on the potential free contact, depending on whether AC or DC shall be switched, is given in the specifications on the page 9.



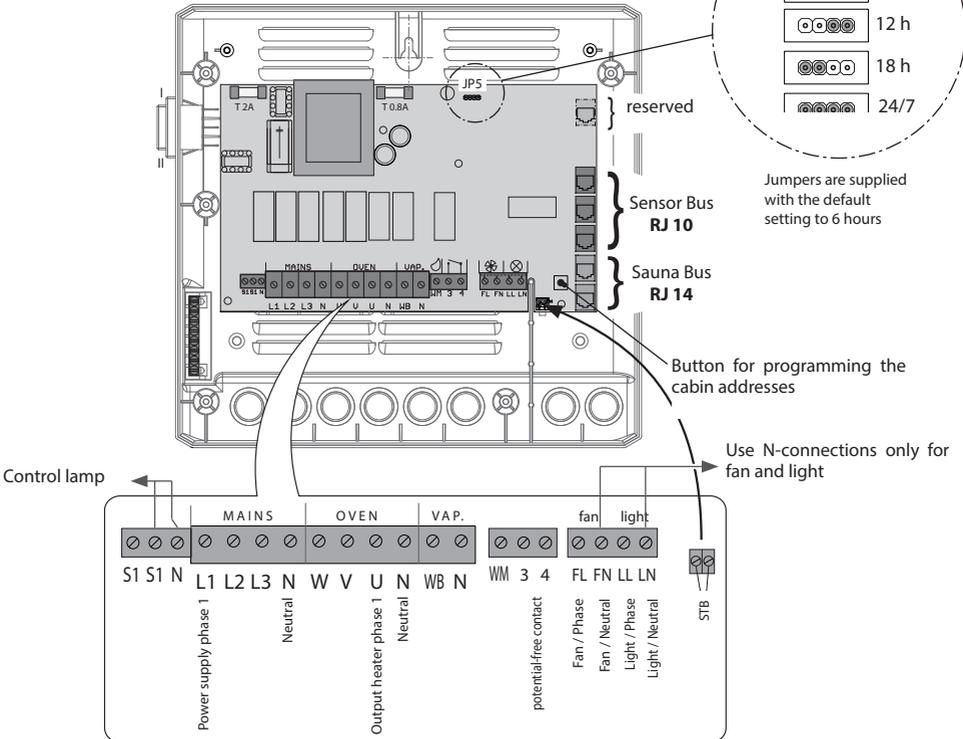
Attention! If you use the terminals L1, L2 or L3 to power the circuit connected to the potential free contact, then the connection line should not be overloaded. If necessary, the load (consumer) connected to the potential free contact should be additionally protected and provided with a separate power supply.

Overview of connections



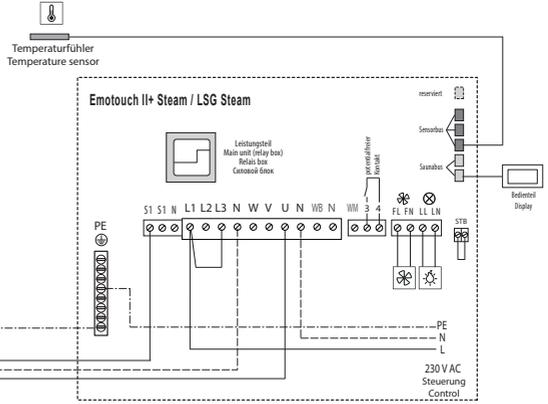
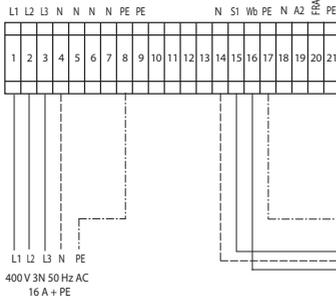
Terminal layout on the main board

(Relay box)

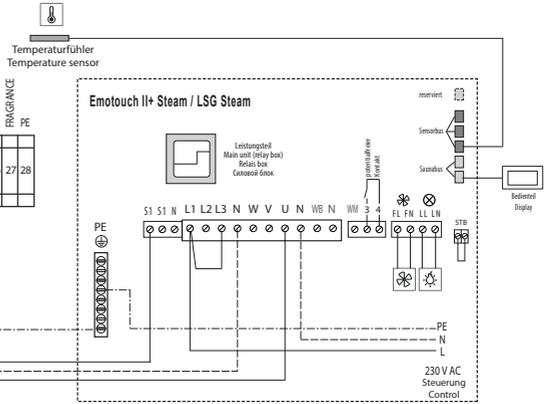
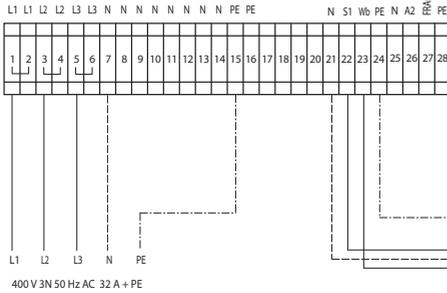


Connection example for LSG Steam with SteamRock II Basic

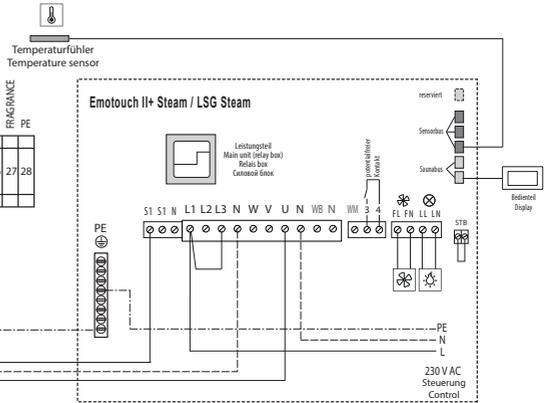
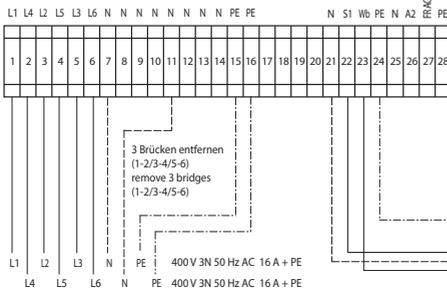
SteamRock Basic 9,0 kW



SteamRock Basic 18,0 kW (Supply 3 x 32 A)



SteamRock Basic 18,0 kW (Supply 6 x 16 A)



Setup after initial start or after a reset

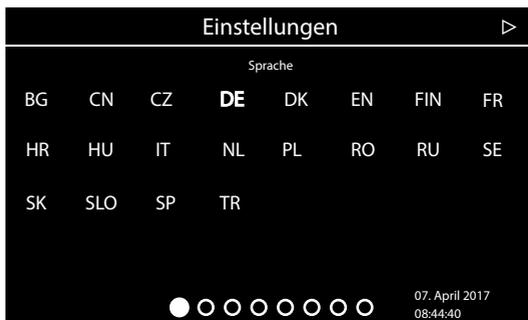
The EmoTouch 3 control unit allows fast and intuitive configuration in several steps by commissioning during the first start or after a system reset.

1. Select language

Tap on the required language symbol to select (the selection becomes highlighted) and tap again to confirm selection.

You can choose from 20 languages: DE, EN, FR, RU, SP, NL, IT, PL, SLO, FIN, TR, CZ, RO, BG, HU, SK, DK, CRO, CN, SE.

Upon confirmation the display automatically moves on to the next item. Use the white arrows (< >) to go to the previous/next steps.



2. Set time

Set the current time. Using the "+" and "-" keys set the hour, press  to confirm, and proceed in the same way to set the minutes. Confirm your setting.

3. Set date

Proceed as described above to set the day, month and year using the "+" and "-" keys. The value you are currently setting appears in blue and slightly larger on the display. Confirm your setting.

4. Location

Is the cabin installed in the European Union or CENELEC states?

Please select and confirm:



- yes, in EU/Cenelec, or



- no, outside EU/Cenelec.

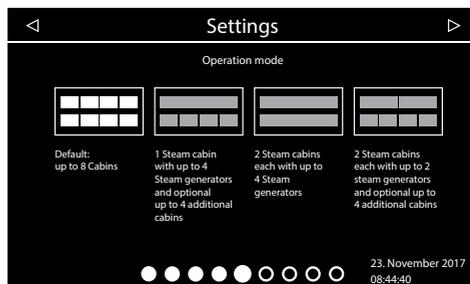
5. Configuration of cabins and devices

Here you can set up the configuration and allocation of cabins and devices.

By sauna room(s) please select the option #1

By steam room(s) you have 4 options which allow to allocate several steam generators to one particular steam room. Following options are available:

1. default: up to 8 separate cabins from one display (if steam rooms - max. one steam generator per steam room)
2. 1 steam room with up to 4 generators + up to 4 further cabins (if steam rooms - then max 1 steam generator per cabin).



3. 2 steam rooms with up to 4 steam generators per cabin.
4. 2 steam rooms with up to 2 steam generators each and up to 4 additional cabins.

6. Type of use

Shall the cabin be used **privately** or **commercially**? Select and confirm:



for private use, or



for commercial use.

Specific safety regulations apply to this setting. See Operator instructions section.

7. Selection of skins (themes)

Next you must select the skin (theme) for the cabin and set up the connected modules (if available).

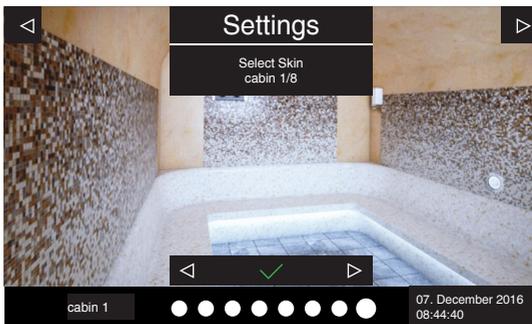
Open the skin selection by pressing



Select the skin and confirm.

After selecting the skin, selection of the connected module is displayed again.

If the installation is multi-cabin installation, the skin selection and the module setup shall be made for each cabin.



8. Manual setup of the light type

The default setting of the light output is for inductive loads. Resistive loads can be also operated with this setting. If required, the light output can also be manually set to capacitive loads. For this, the lighting must be disconnected.

If light bulbs are used, the load for lighting must remain as an inductive load.

The current setting is shown on the display when the lighting is dimmed.

Display symbol	Setting	Code
	Inductive/resistive load (lighting with phase control), if light bulbs are used. Factory setting	8001
	Capacitive load (lighting for phase control) Electrical ballasts for phase-cut dimmer	8002

NOTICE

Material damage

Improper setup can damage the unit. In this case, the warranty becomes void.

Work must only be performed by a trained technician from an authorised company specialised in this area.

For this setting, the lighting must be disconnected.

Changing the light type

1. **WARNING!** Ensure that the control unit is disconnected from the power supply.
2. Open the relay box housing (remove the housing cover)
3. Disconnect the light source from the main circuit board.
4. Reconnect the power supply and switch on the control unit.
5. Tap and hold the  symbol for 3 seconds until the code prompt window opens.
6. Enter the code **8001** (inductive and resistive loads) or **8002** (capacitive loads) as required for the appropriate light type and confirm.
7. Disconnect the control unit from the power supply and reconnect the light source.
8. Reconnect the control unit to the power supply.
9. You can verify the currently set type of the light source. Press and hold the lamp on the display for 3 seconds.

In the submenu for light dimming setting you will see the light source type displayed in the bottom left corner.



Multi-cabin connection

The EmoTouch 3 gives you the opportunity to operate several cabins with just one control panel. Free combination of up to 8 saunas and steam cabins can be connected. The connection is made via the 4 saunabus jacks on the rear side of the display panel.

Please note that you will need a ferrite sleeve per connection to a jack. Information on mounting the sleeve can be found in the chapter “Display panel”.

If you connect additional cabins, you will receive a further ferrite sleeve for installation in addition to the connecting cable in the scope of delivery of the new power unit.

Connection for multi-cabin control

Regardless of whether you use the EmoTouch 3 as a control unit for sauna, steam bath or for several cabins, the connection always follows the following principle:

1. Cabin

The relay box of the 1st cabin connects with the **sauna bus cable** to the **1st port** of the display panel.

2. Cabin

The relay box of the 2nd cabin connects to the free sauna bus connector in the relay box of the 1st cabin. The relay box of the cabin #2 must be programmed to the ID “2” after connection.

3. Cabin

The relay box of the 3rd cabin connects to the **2nd port** of the display panel. The relay box of the cabin #3 must be programmed to the ID “3” after connection.

4. Cabin

The relay box of the 4th cabin connects to the free sauna bus connector in the relay box of the 3rd cabin. The relay box of the cabin #4 must be programmed to the ID “4” after connection.

5. Cabin

The relay box of the 5th cabin connects to the **3rd port** of the display panel. The relay box of the cabin #5 must be programmed to the ID “5” after connection.

6. Cabin

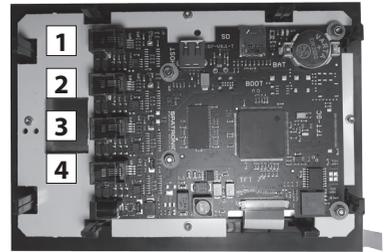
The relay box of the 6th cabin connects to the free sauna bus connector in the relay box of the 5th cabin. The relay box of the cabin #6 must be programmed to the ID “6” after connection.

7. Cabin

The relay box of the 7th cabin connects to the **4th port** of the display panel. The relay box of the cabin #7 must be programmed to the ID “7” after connection.

8. Cabin

The relay box of the 8th cabin connects to the free sauna bus connector in the relay box of the 7th cabin. The relay box of the cabin #8 must be programmed to the ID “8” after connection.



Rear side of the display panel with 4 connection ports for multi-cabin connection.

Below you will find the connection overview with the example of connections for 8 cabins (6 saunas and 2 steam rooms).

Reprogramming of the cabin addresses

The relay box of the control unit or of the SteamRock II Premium steam generator is delivered (factory set) with the default cabin address 1. In order to operate multiple cabins, the cabin address must be changed to a different cabin address (from 2 to 8), depending on the number of cabins.

Assignment of the cabin addresses to the sauna bus jacks of the EmoTouch 3 display panel:

1st jack

1st cabin - address 1

2nd cabin - address 2

2nd jack

3rd cabin - address 3

4th cabin - address 4

3rd jack

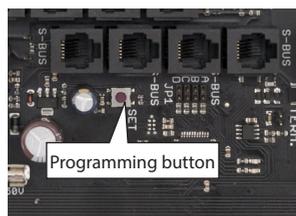
5th cabin - address 5

6th cabin - address 6

4th jack

7th cabin - address 7

8th cabin - address 8



Programming button in EmoTouch 3 Version SteamRock Premium

Important note: Make sure that the connection order is strictly adhered to. The connection must start with the 1st jack. A cabin with the address e.g. "4" must not be connected to a jack other than No. 2, otherwise it will not be recognized.

Programming:

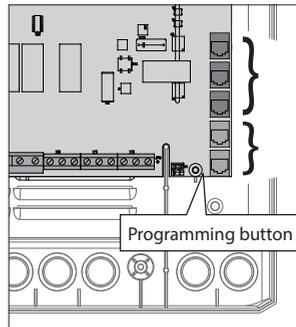
1. Press the programming button for approx. 5-6 seconds until the green flashing Status-LED on the top right of the board turns off and a **red** LED lights up (programming mode active).

2. Now briefly press the programming button. The cabin address will move one number higher. The green LED will flash the number of times as the new cabin address (from 1 to 8).

Example: old address = 1 > press the button > green LED flashes twice > new address = 2.

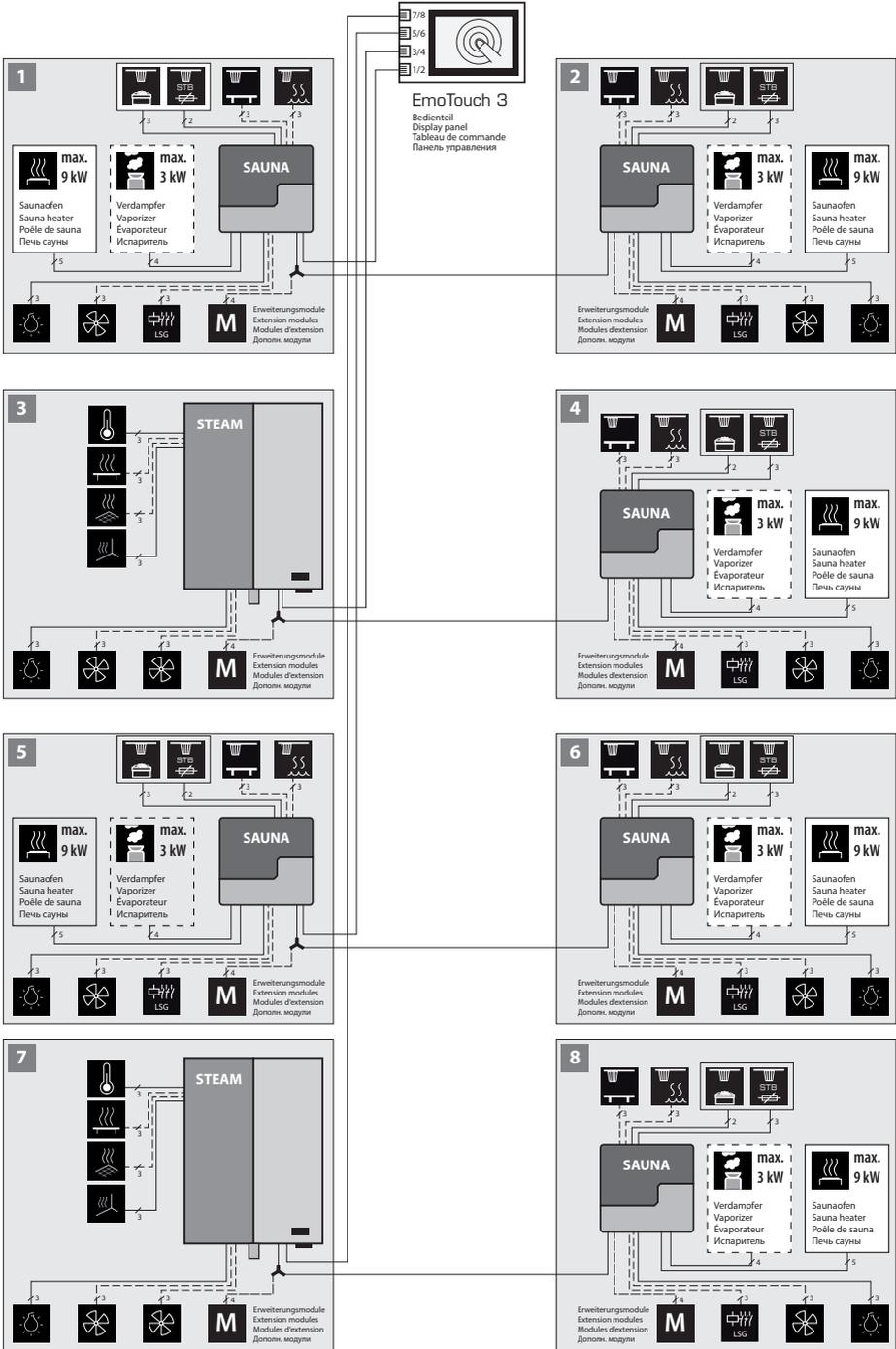
3. Press on the programming button again until you reach the required cabin address. With every pressing on the button, the cabin address count progresses +1. If you have reached the required address wait for approx. 15 sec - the program mode will exit (red LED goes out, green LED starts flashing again). New address will be saved.

Once the new cabin address has been assigned and if the cabin has been correctly connected, it will be automatically detected and the multi-cabin control symbol will appear on the display.



Programming button in EmoTouch 3 Version "sauna" and "hammam"

Example - connection of 8 cabins to the EmoTouch 3 display panel



Display with several cabins

As soon as you have connected more than one cabin with the corresponding cabin address (ID) to the display panel, the multi-cabin control symbol appears in the lower bar on the display.



The number inside this symbol indicates the number of the currently selected cabin.



Example: Sauna cabin



Example: Steam cabin



Example: Hammam / Roman bath

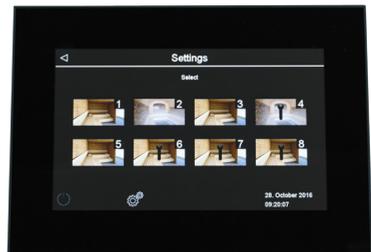
How to select a cabin, navigation between cabins, setup and operation

Before you can start using a new cabin, you have to complete the basic setup, as described in the chapter "Setup (commissioning / first switching)".

A cabin with unfinished configuration appears in the overview with a "key" symbol. Touch this cabin, in order to launch the setup and configuration.

Switch between individual cabins:

- Swipe to the left or right from one display page to the other.
- In the cabin overview touch the desired cabins to select them directly.
- To open the cabin overview, briefly touch the symbol 



Operation of a single cabin

Select the cabin, as described above, and operate as usual. The settings you make apply to this single cabin.

Operation of all cabins at once

If you are in the cabin overview, you can start or stop all cabins at the same time. Touch the on / off button for 3 seconds. The activation for each cabin takes place with a small time delay, to avoid a network overload.

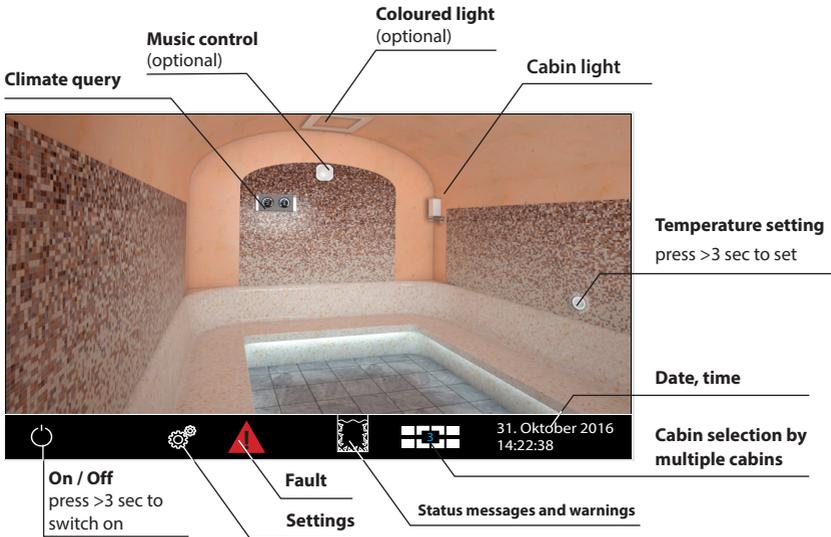
Notice: When switched off, all cabins each turn off completely with a small time delay as well.

Error messages

If a fault occurs in one of the connected cabins, a red triangle  appears in the lower bar. Go to the cabin overview - the cabin with the present fault is displayed with a red triangle. Touch the symbol of this cabin in the display, in order to select it and display details of the fault. In the event of a fault in one cabin, the operation of the other cabins will not be interrupted.

Operation

Control panel - graphic user interface



Heating

Touch the  icon for 3 sec. to turn the heating on. The control unit with switch on the steam generator and load the pre-set settings (temperature, time, etc.). To switch off briefly touch this symbol again.

Light

To turn the cabin light on or off, briefly touch the lamp on the display panel.

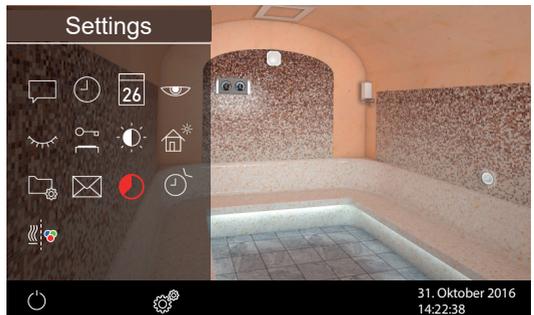
Extended Settings (submenu)

Private use:

Touch briefly the symbol  to launch extended settings. A submenu will open as shown below. In this menu you can set all common settings which are not required frequently.

Commercial use:

By commercial use touch the symbol  for 3 sec. and give in the access code **5645**. Extended settings will be opened in a new window. A short touch on the symbol  will open a submenu for navigation language selection only. The full set of extended settings is only accessible with the given above code.



Pic. 2

Method of operating the graphic user interface

Briefly touch to select or enable any of the functions available on the graphical user interface (cabin icon). Keep touching a function (>3 sec) to access the associated settings screen. For safety reasons, you should always press certain symbols icons for more than 3 sec (e.g. heating on).



Operate by touching the display either briefly or for longer.

A touch is indicated by a small yellow rectangle lighting up in the bottom right corner.



Back

Press in any of the sub-menus to return to the main screen, the previous menu or the previous selection.

Description of icons (main screen)



Steam (heating) On/Off

Press for more than 3 sec. to turn the steam generator on, briefly touch to turn it off



Settings

Sub-menu for further settings such as language, time, date, screen saver, special parameters, child lock, etc.



Multi-cabin control

This symbol will appear if more than 1 cabin is connected to the control panel. The number inside this symbol means the currently selected cabin.

By touching this symbol you can launch the overview of all connected cabins.

Hint:

The submenu window (extended settings) may be closed by briefly touching any other part of the screen. Unconfirmed settings (not yet saved) will be lost.

Not touching the display for about 20 sec automatically brings the display to the main screen. Unsaved settings will be lost.

Thanks to the integrated battery personal settings will be kept in memory for years even if the power is off.

The unit automatically recognises connected extension modules and displays the associated icons to the main screen or sub-menus, as appropriate.

Extended settings - meaning of symbols and functions

In the "Extended Settings" sub-menu you can make special settings which you will need seldom or only once.

Access to this submenu effects via the symbol  in the bottom line on the screen.



Language

Selection of the menu navigation language. 20 languages are available.



Time

Touch to set the time of day.



Date

Setting of the day, month and year.



Screen saver

Setting of the interval after which the screen-saver will be launched (black screen with logo and time).



Standby

Setting of the interval after which the display goes into sleep mode (black screen).



Child lock / panel lock

Here you can block the access with your own PIN code.

Notice the important child / panel lock information below.



Display brightness

Setting of the display brightness.



Holiday home mode

Restricted access mode - restricts the access to basic functions only. No setup possible.



Operation data

Touch to check the firmware version, the time left until the next service, or the service centre's contact details.



Contacts

Displays the contact information of the device manufacturers.



Heating time

Press to set the heating time. Heating times for private users are limited to 6 hours and may be as long as 12 hours or entirely without limitation for commercial users.



Timer

Here you can set the timer for delayed switching, single event or recurring switching timer.



Coloured light sync

Here you can sync the optional coloured light unit switching with the heating.



Important notice for child lock or holiday home mode

Display panel can be completely or partially locked with your own PIN code via the extended settings. During the active lock you can only switch off the heating and switch the lighting. Holiday home mode allows the limited number of basic functions.



ATTENTION

Make sure to remember the selected pin code! Please bear in mind that in the case this code is lost you will not be able to operate the control unit. In the case the pin code is no longer available and cannot be restored please contact your local EOS dealer or EOS service.

Graphic user interface GUI and climate conditions check

Thanks to the modern GUI you can quickly access all functions and make necessary settings, as well as make a simple instant query for the current climate condition.

The symbols on the start screen may be displayed in different colours, in order to indicate the current operation status - e.g. red highlighted heater during active heating.

For every selected symbol the control panel will display the explanation at the top and will provide additional text hints by various settings. For language selection see page 34.



Standby mode

The picture on the left shows the example of the stand-by interface by only one connected cabin. The heating is switched off.

By multiple connected cabins the standby interface is the overview of all connected cabins. If you are in the interface of a particular cabin and make no controls the device will switch to the cabin overview within ca. 15 sec.



Active heating

Active heating is shown with steam cloud symbol.

The remaining heating time is displayed in the bottom line in red.



Climate conditions check

You can quickly check the target and the current temperature - touch briefly the  symbol.

A submenu window will open for approx. 20 sec and will display pre-set and current values from all connected sensors.

Notice: The displayed current temperature values correspond to the air temperature measured around the temperature sensor(s). Please bear in mind that the temperatures in the other cabin zones may vary depending on the individual situation. The temperature at the ceiling for instance may be higher as around the floor.

We recommend therefore to select the temperature basing on a practical test in order to find the setting which is most pleasant for you.

Operation and program settings

Switching the heating ON/OFF

Press the  symbol for approx. 3 seconds. The heating will switch on and the display will show the active heating mode (see example on page 24). The light will be also switched on.

To switch off the heating, touch the  symbol again. Please notice that after the main heating program the extractor fan will be automatically switched on to dry the cabin. This function may be adjusted or disabled in service level settings.

To stop the extractor fan operation briefly touch once again on the  symbol.



Temperature setting

Touch the steam outlet symbol for 3 sec. A submenu will open - in this submenu you can set the **temperature**. The control unit will show the last saved setting.



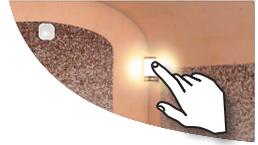
For temperature setting pull the slide switch up or down. The new setting will apply immediately as you take the finger off the slide switch. The temperature value will be shown above the slider bar.





Cabin light on/off

Press the lamp on the display briefly to switch the light on or off.



Light dimming

You can dim the cabin light infinitely (0 - 100%) to your preference.

Touch the lamp symbol on the display for more than 3 sec. The cabin light turns on (if off before) and the sub-menu with the current setting will appear. Pull the slide bar up or down to adjust the light intensity.



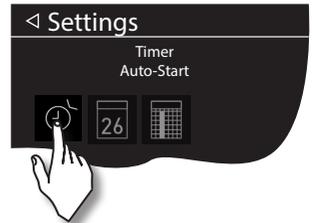
Attention! Make sure to use only dimmable lamps! Damages to the control unit and lamp by unsuitable light types.



Timer

This function allows to pre-set the start time up to 24 h in advance. Alternatively you can program the single start time to any date in the future or set a week timer.

Open the extended settings menu via the symbol . Tip twice on the timer symbol to open the timer sub-menu with three options: 24 h time pre-selection, single event timer, serial event timer (week timer).



24 h time pre-selection (Auto Start)

This functions means start time pre-selection for a single switching within 24 h.

- Select the symbol and touch it briefly again to launch a sub-menu for programming.
- Set the desired start time using the „+“ and „-“ buttons.
- Confirm your setting with the green check symbol.
- The programmed start time will appear flashing in the bottom line on the screen.
- The heating time duration will be as per “Auto-Stop” setting (page 47).

Notice that the programmed time means the real time, not the time delay. In order to cancel this program set the start time back to „--:--“ and confirm the setting.



Single event timer (single switching on any day in the future)

For the single event timer touch twice the symbol to launch the sub-meu for programming.

- First set the day, month and year by using the „+“ and „-“ buttons.
- Next set the desired **Start time** (hours and minutes).
- Then set the desired temperature.
- After this step exit programming by touching briefly the “back” symbol. On the start screen in

the bottom line you will now see the programmed date and time, e.g. 15.01. and 18:30.
Notice: The heating time duration will be as per „Auto-Stop“ setting (page 47).



Week timer (recurring switching on the specified days of the week).

Important notice: This function is only available by commercial use.

For the week timer touch twice the symbol . A submenu with the overview of the days of the week (from 1 to 7, 1 = Monday, 2 = Tuesday...).

Note: White symbols = no program available. Blue symbols = program available.

Briefly touch the day you wish to set a timer for (e.g. „1“ for Monday). A submenu with programs 1 to 4 for that day will be displayed.

Note: You can program to 4 switching times for each day. Please observe local regulations concerning the maximum allowed heating time.

For every switching you can set an individual temperature.

Briefly touch a program (1 - 4), start with 1 if there are no settings yet on this day.

- Set the **Start time** in hours and minutes using +/- buttons - e.g. 9:30.
- Set the **Stop time** in hours and minutes using +/- buttons - e.g. 19:30.
- Set the desired temperature.

After the last step the display returns to the weekday overview. The day you programmed an auto start time for turns blue. Repeat the above procedure for all programs you may wish to set. The nearest auto start time will flash in the bottom right corner of the main screen (e.g. Monday, 9:30).

Clear / change weekly timer

To clear or change an auto start timer setting, go to the main screen and select the weekly timer (as described above) again.

- Pick the appropriate weekday.
- Select the start time you wish to change.
- Change the settings (start time, stop time, temperature) or ...
- Clear the setting by changing the associated hour to “--” and confirm it.
- The display returns to the weekday overview.

Note: If the timer is active, the next activation time is displayed as a flashing value on the bottom right. Even if you have programmed several activation times or a combination of individual times and a weekly timer.

BLUE flashing time - programmed start time is acceptable, the timer will start as planned.

RED flashing time - programmed start time is not acceptable, the timer will not start. Check for possible programming errors - overlapping time, incorrect pause times, etc.

The cabin may be switched on manually between the automatic timer switchings.

IMPORTANT - if you start the cabin manually within the still valid timer operation time window, e.g. after an unexpected stop, the stop time will be automatically adjusted to the programmed stop time of the current timer operation time window. This allows you for instance to quickly pick up the interrupted timer operation after an unplanned stop.



Error notification

For multi-cabin operation only.

The error symbol will be shown in the bottom line on the start screen to draw your attention that there is a fault / error in one of the connected cabins (not in the currently selected cabin).

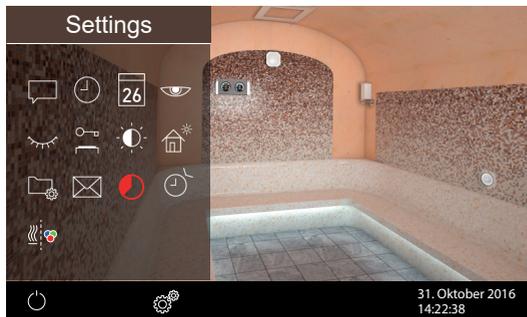
In such case touch briefly the multi-cabin control symbol to open the cabin overview and check the status of all connected cabins. The cabin(s) with the error will be shown with the warning triangle - touch this cabin image to go to this cabin. The error details will be shown as a text message on the display to allow you identify the fault and take necessary steps to rectify it.

An operation fault in one cabin will not interrupt the operation of the other cabins.





Extended settings



By private use touch briefly the  symbol to display the Extended Settings menu.

By commercial use press >3 sec on this symbol and give in the access code **5645** to open the Extended Settings menu.

By multi-cabin control - this menu must be opened from the Cabin Overview interface.

In the menu "Extended Settings" you can make additional settings which are normally required only once or very seldom. The first touch on a symbol in this menu will highlight the element and display its meaning. The second touch will open settings for this option.



Language

Choose this option to change the language selected during setup. Pick a language from the list - e.g. "EN" for English (the selected item turns white), then briefly touch the chosen language again. The unit displays the previous menu, all texts appear in the language you selected.



Time of day

Touch to set the time of day. Use the "+" and "-" keys to set the hours/minutes and confirm your setting.



Date

Choose this option to set the date (day / month / year). Use the "+" and "-" keys to set the day, month and year, then confirm every setting. Upon confirming the last item (year), the display returns to the previous menu.



Screen saver

Use this option to set the time after which the screen saver will be displayed if you do not touch the screen. In screen saver mode, the brightness is reduced to minimum and the logo with the current time is displayed. Briefly touch the display to wake up the unit and return to the normal display mode.



Sleep mode

Use this option to set the time after which the unit's sleep mode (stand-by) will be enabled. In this mode, the display will turn completely black. Briefly touch the display to wake up the unit from stand-by mode. This function is available only if the cabin is not heating.



Display lock / Child protection

To protect the unit against an unauthorised access, you can lock it completely with your own PIN code (4 to 8 digits).

To lock the unit, touch the  icon and briefly touch it again. A dialog is displayed showing “----” and a numerical keypad. Fill the four blank digits with your own PIN code. Confirm the entry.

The main screen is displayed and the unit is locked. Settings cannot be changed.

For safety reasons, you can still turn off the heating and turn on the cabin light although the display is locked. You will be requested to enter the PIN code if you try to do something else.

To unlock the unit, touch any icon (e.g. On/Off) to launch the PIN code request dialog. Enter the correct PIN code. The unit will unlock.



Important notice for display lock

Display panel can be completely or partially locked with your own PIN code via the extended settings. During the active lock you can only switch off the heating and switch the lighting. Holiday home mode allows the limited number of basic functions.



ATTENTION

Make sure to remember the selected pin code! Please bear in mind that in the case this code is lost you **will not** be able to operate the control unit. In the case the pin code is no longer available and cannot be restored please contact your local EOS dealer or EOS service.



Auto-Stop (heating time)

Use this function to set your preferred heating time of the cabin.

Private users can set this time to max. 6 hours. Commercial users can set the time up to unlimited. The “unlimited” setting means manual mode, no automatic stop. The heating time limitation is based on the operation type (private or commercial use) selected during setup.

Touch the  icon twice and set the heating time (hours and minutes) in the sub-menu. Upon confirming your entry, the display returns to the previous menu.

When you turn on the heating, the remaining runtime shows as a countdown timer in the bottom section. This tells you at a glance the remaining heating time.

The heating time may be set at steps of +/- 1 minute. The minimal heating time is 15 Minutes. Notice that after the main heating the ventilation fan will switch on (0-30 min.) to dry the cabin unless it has been disabled during setup.



Operation data

Use this function as query to check basic operation data and details.



Firmware - displays the current firmware version of the control panel and the contactor box or connected modules. Press arrow symbols to switch between the values. "Panel Vx.xx" - control panel firmware, "Mod-LS Vx.xx" - contactor box firmware (x is any number). By connected extension modules their firmware version will be also displayed.



Service intervals - display the hours left until the next regular maintenance (service) is due. Your dealer or installer sets the intervals during installation and setup.



Contact details

Displays the manufacturer's contact details. These details are also displayed if a fault occurs.



Display brightness

Here you can adjust the display brightness. Use the slider bar (pull up or down) to set the brightness to your preference.



Holiday home mode

This function allows to limit the user access down to only few basic functions. All other settings will be locked and their icons hidden.

In this mode the user access is limited to the following:

- Cabin on/off
- Light On / Off
- Temperature setting

Touch the  icon to enable this function. Enter your personal PIN code in the next dialogue. Use the numerical keypad to enter a 4 - 8 digit number and confirm your entry. The unit will be locked.

To unlock the unit, go to the settings menu again. Touch the  icon twice. A PIN code prompt screen is displayed. Enter the correct PIN code to unlock the unit. When you turn off the cabin, the language selection dialogue is displayed.

After the operation a selection of operation languages will appear before the new start. To leave this menu touch briefly on the "back" arrow.



ATTENTION

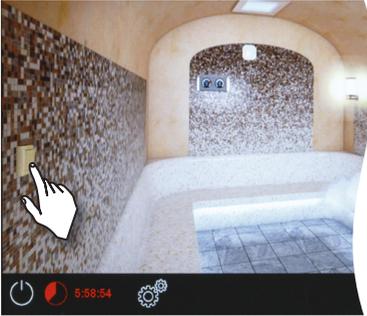
Make sure to remember the selected pin code! Please bear in mind that in the case this code is lost you **will not** be able to operate the control unit. In the case the pin code is no longer available and cannot be restored please contact your local EOS dealer or EOS service.



Potential-free contact PFC (volt-free contact / dry contact)

The PFC function allows you to switch some external equipment either manually or automatically. For instance the additional light circuit, music or others.

For manual switching (on / off) tap briefly on the symbol



on the cabin wall.

The PFC symbol is only shown when the PFC function has been enabled and set to manual operation. If disabled or set to automatic operation no PFC symbol will be shown.

Please refer to the installation and setup section for configuration of the PFC function.

NOTICE

Material damage

Improper connection and setup of the PFC can damage the unit and the connected external device. In this case, the warranty becomes void.

Work must only be performed by a trained technician from an authorised company specialised in this area.

Manual setup of the lamp type

The factory default setting for the light output is the inductive load type of the lamp.

The control unit supports resistive, inductive and capacitive types of loads connected to the light output and can be set up accordingly.

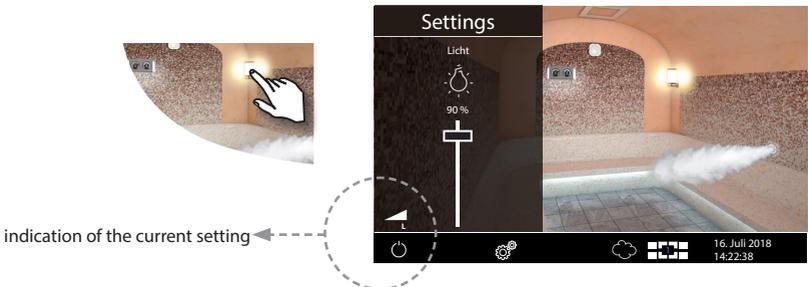
Note: By the use of the conventional electric bulb leave the light output set to inductive loads. You can change this setting if required.

 Only the appropriately qualified and trained persons may carry out this work!
The incorrect setting may damage the control unit and void the warranty.

- Disconnect the lamp from the control unit
- Power the control unit.
- Press the settings symbol  5 sec.



- Code 8000 = automatic lamp detection - display 
- Code 8001 = inductive loads, also suits conventional bulbs (resistive) (factory defaulty setting) - display 
- Code 8002 = capacitive / resistive loads - display 
- Power off the control unit
- Connect the lamp and power back on the control unit



Note: For resistive loads (conventional bulbs) you can use both the default setting „inductive loads“ and the setting „capacitive loads“.

Service level settings

Service level provides a range of additional functions for setup and fine-tuning of the control unit, in order to optimize operation. **This setup menu is protected with a PIN-code to reduce the risk of unauthorized use.**

Touch the  symbol for about 3 seconds until the PIN-code prompt window appears.

Give in the PIN-code **5349**

NOTICE

Material damage due to incorrect settings

Improper setup can damage the unit or cause operation issues. In this case, the warranty becomes void. Work must only be performed by a trained technician from an authorised company specialised in this area.



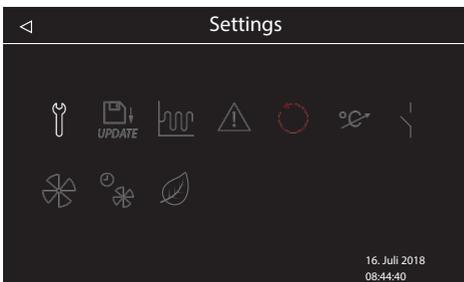
> 3 sec.



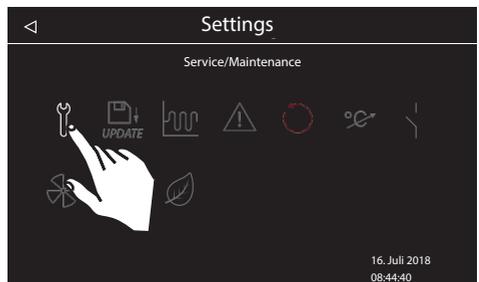
Enter the PIN-code and confirm. Correction with "C".

Service area user interface

All functions are displayed as symbols. Briefly touch a symbol to select it - the symbol will be highlighted in white and a plain text description of its function appears at the top. Touch the selected symbol again to access the submenu and make settings.



Service area interface



Selected icons will be highlighted (white) with the description (symbol meaning) displayed in the top line.

Symbol overview



Service / maintenance intervals

Setting the intervals for service / maintenance.



Firmware Update

Firmware update possibility for display panel, relay box or colour light module.



Hysteresis

Adjustment of the switching hysteresis.



Usage

Selection between private or commercial use.



Reset

Reset to the factory default settings, all individual settings will be deleted.



Temperature adaptation

Adjustment of the measuring shift of the temperature +10 / -10 K.



Potential-free contact

Settings for switching via the potential-free contact.



Fan

Setting of the ventilation fan speed (0-100%).



Fan operation time

Setting for the fan operation time in minutes (0-60 minutes).



ECO function

Settings and runtime in minutes (0-240 min.)

Symbols of connected optional modules will be displayed in this interface as well.



Service- / maintenance intervals

Allows to set the intervals for servicing and maintenance. Upon expiry the display panel will remind the user for a short time upon every switching about the pending servicing. The end user can check the remaining time to the next servicing in the extended settings menu. This function allows as well to keep track of the total operation time of the sauna.

Default setting for private use - 500 hours.

Default setting for commercial use - 2500 hours.



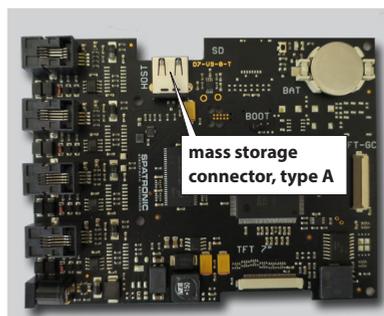
Firmware update

Allows to update the firmware of the device. A mass storage device (empty, preformatted) is required.

- Download the firmware from www.eos-sauna.de/service-support/software and unzip the ZIP file to your mass storage device.
- Plug in the mass storage device to the connector on the rear side of the display panel (display panel has to be removed from the bottom housing).
- Open the service level settings and touch the "Update" symbol twice:
 - You will see the available options:
 - Update display panel
 - Update relay box only (currently selected cabin)
 - Update the coloured light module (if connected, selected cabin only)
 - Update the sound module (if connected, selected cabin only)
- Select the required option and touch it briefly again to launch the update.
- The update process starts and the progress is shown on the display. The update may take several minutes. Afterwards, the device will restart.
- If the required data for the update is not found, a corresponding error message will be displayed. In this case, check the data in the mass storage device and repeat the process.
- You can remove the mass storage device after the update has finished.

HINT: You can also launch the update window directly without going through the service menu.

Touch the settings symbol  for 5-6 sec. until the PIN-code prompt appears and enter the access code **543210**. The update menu will be launched directly.



NOTICE

Malfunction by power interrupt

Make sure not to interrupt the power supply during the update process. The device may become unusable and has to be returned to EOS in such case.

Notice: Do not try to update the firmware without appropriate qualification!

In the case of power supply loss, the device will attempt to resume the update process. If resuming the update fails or the display shows an error message, press the "Reset" button on the board next to the cell battery. The device will reset, start up and will display a dialog box with options for the update so that you can repeat the process.

Hysteresis

Allows to adjust the hysteresis within a 1-5 K range. This adjusts the flotation level around the temperature set-point and influences how often the heating will be switched on or off by temperature changes. For instance at 46°C set-point temperature and hysteresis set to 4K the control unit will switch the heating on at 48 °C and off at 44 °C respectively. This allows you to adjust the steam generator to the individual cabin size.

Notice: Smaller hysteresis value will reduce the intervals between the switchings. The hysteresis set to 1K means +1K tolerance above the set-point and 0K tolerance below the set-point.

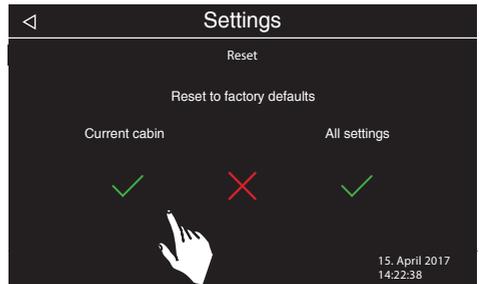
Usage type

Here you can set the operating mode for private or commercial use. This selection affects the limitation of the max. heating time and some special functions (e.g. week timer is only available by commercial use).

Reset

Allows you to reset the unit back to the factory default settings. All individual settings will be lost. The control unit will restart and will prompt to perform the basic setup as by the first switching. You will be prompted to confirm the reset.

You can carry out the reset for the current cabin or for all settings (all cabins).



Temperature adaptation (offset)

This function allows you to adjust the displayed actual temperature in relation to the actual ambient temperature. This offset can be set to a higher or lower value up to 2K.

Example — 2 K: The temperature is displayed approx. 2 K lower than it would be if a different measuring device were used.

This function should be set by experienced personnel only and must be sufficiently tested, as cabin temperatures may become too high.



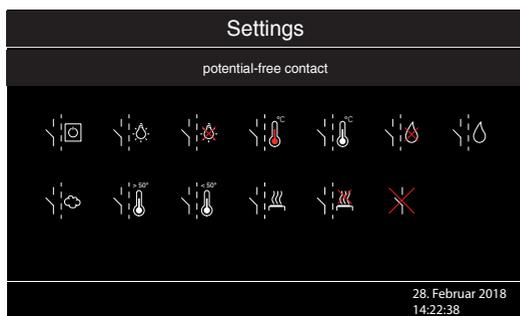
Potential-free contact (PFC)

The terminals 3 and 4 on the main board of the relay box are a “NO / normally open” potential-free contact of a relay on this board. This output is not linked to any other connection and is therefore potential-free. You can integrate this output in an external circuit, in order to get some external power load switched or transmit a signal.

Maximum load allowed for this output:

- resistive load / alternating current: max. 250V AC / 10A
- inductive load / alternating current 500VA
- direct current:
 - Up to 30 V DC max. 16A (480 W)
 - Up to 110 V DC max. 0,3A (33 W)
 - Up to 220 V DC max. 0,12A (26,4 W)

Attention! If you use the terminals L1, L2 or L3 (mains input) as a power source for the external equipment switched via the PFC, make sure to observe the maximum load 16 A per phase! An additional fuse protection may be required.



PFC settings

Tap twice on the  symbol to open PFC settings. By selecting a specific symbol, you can make the potential-free contact switch off or off synchronously with the specified function of the control unit.

PFC can be synchronized as follows:



Manual on/off switching with the symbol  on the display panel.



Switching “on” if light is switched on.



Switching “off” if light is switched on.



Switching “on” if the set-point temperature is reached.



Switching “off” if the set-point temperature is reached.



Switching “on” if there is water shortage in the vaporizer (only for Bi-O heaters)



Switching "off" if there is water shortage in the vaporizer (only for Bi-O heaters)



Switching for an additional vaporizer (synchronisation of switching with the output WB, only for Bi-O heaters)



Switching "on" if the current temperature reaches 50 °C.



Switching "off" if the current temperature reaches 50 °C.



Switching "on" if the cabin is on.



Switching "off" if the cabin is on.



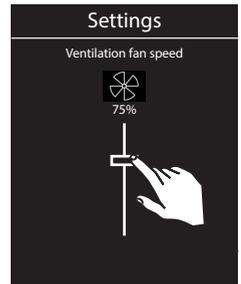
Disable potential-free contact (the symbol will disappear on the screen, output not active).



Fan

Allows to adjust the rotation speed (ventilation capacity) of the fan from 0 to 100% or to switch off the fan completely. If enabled, the fan will switch on automatically with the pre-set speed when the heating is on. For the sauna-dry mode the fan will always switch on with 100% output.

Tap twice on the fan symbol to open the settings menu. In the sub-menu, you can use the slider to set the desired level (slide the slider downwards or upwards).

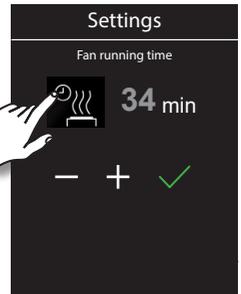


Fan running time

Here you can set how long the fan should operate after the humid mode. We recommend to use this function in combination with the after-heating to dry the sauna cabin faster.

The fan running time in this mode is by default linked to the after-heating time. The time is therefore shown in grey and cannot be changed. We recommend to keep this method and if necessary to change the time in the "after-heating time" function setting.

If you however wish to set a different individual operation time of the fan in this mode, briefly tap on the  symbol - the symbol will turn grey and the number (minutes) will turn white. You can now set your own time with "+" / "-" buttons (confirm with .





ECO is an energy-saving function, which when active sets the air temperature to a lower level of 30°C. This allows to reduce the energy consumption while still keeping the cabin warm, so that it can return to normal temperature level in a shorter time. The heating must be switched on to use this function.

ECO mode can be activated as follows:

- On the display panel - from the main interface, see details below.
- Using the optional ECO push button (Item no. 94.6980).

ECO mode can be deactivated as follows:

- It is switched off automatically once the period of time set in the service menu expires. A runtime must be defined in the ECO submenu in the service level settings for this.
- Manually on the display panel - from the main interface, see details below.
- Using the optional ECO push button (item no. 94.6980).

ECO mode can be limited to a certain period of time from 0 to 240 minutes. To set this time open the ECO submenu and set the desired time with + / -. If the setting is 0 (factory default) then the ECO mode will not be limited to a certain time and can be only disabled manually.

Activating ECO mode at the display panel:

- Tap briefly on steam outlet symbol
- Tap on  symbol in the sliding submenu.
- Green ECO symbol will appear interchanging with the heating time symbol in the status line on the screen.

Activating ECO mode with the push button:

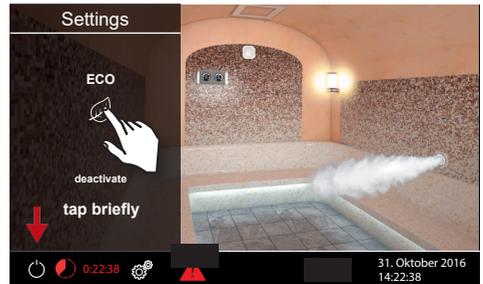
- Press the ECO push button (option).
- Push button will illuminate green.
- Green ECO symbol will appear interchanging with the heating time symbol in the status line on the screen.

Cancelling ECO mode at the display panel:

- Tap briefly on steam outlet symbol
- Tap on  symbol in the sliding submenu.
- Green ECO symbol will disappear in the status line.

Cancelling ECO mode with the optional push button:

- Press the ECO push button.
- Green illumination of the button will stop.
- Green ECO symbol will disappear in the status line.



Troubleshooting

Error messages and icons on the EmoTouch 3 display indicate operating statuses and fault conditions. In multi-cabin installations, the fault is displayed in the status bar by the  icon. The cabin overview allows you to find and retrieve the cabin with the fault so you can access further details.

Fault	Possible reason	Solution
Display stays off, no function	<ul style="list-style-type: none"> No power supply 	Check the power supply. Check the fine fuses on the main board of the relay box.
	<ul style="list-style-type: none"> Switch-Off switch in incorrect position 	Check that the switch is set to the correct position
	<ul style="list-style-type: none"> Faulty connection between the display panel and relay box 	Unplug and re-plug the connection cable. Check that the cable is not damaged. Try a test cable.
Sensor fault	<ul style="list-style-type: none"> Faulty connection to the temperature sensor 	Check the cable connection in the relay box and at the sensor end.
	<ul style="list-style-type: none"> Sensor damaged 	Replace sensor
No Bus Communication	<ul style="list-style-type: none"> Faulty cable connection interrupts communication between display panel and relay box 	Unplug and re-plug the connection cable. Check that the cable is not damaged. Try a test cable. Restart the control unit.
Unknown error	<ul style="list-style-type: none"> Unspecified fault 	Restart the control unit
Display shows a grey image, only settings symbol is active	<ul style="list-style-type: none"> Wrong bus configuration due to incorrectly set ID ID of the unit does not match the connection port of the EmoTouch 3 display. Multiple devices with the same ID connected. 	Check that the unit's ID has been set correctly. Check that the unit with the specific ID is connected to the appropriate port of the display panel.

The “switch-off” rocker switch

The control unit is equipped with a “switch-off” rocker switch.

You will find this switch on the left side of the main relay box.

This switch allows to switch the control unit to standby mode (notice the heating will not start), to switch the control unit completely off (disconnect from power) or to switch the control unit off, but to leave the light switched on.



rocker switch



Attention! Parts of the printed circuit board will still remain energized in the switched off condition! Risk of electric shock!

Notice!

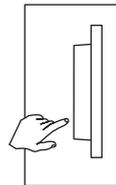
When switching the “switch-off” rocker switch from Pos. I to Pos. II, you will be at the intermediate position 0 for approx. 1s.



Default Position

Switch setting 0

Press the switch on the lower side of the rocker to the first latch (**switch setting 0**). The switch will be in the middle position. The unit is now completely switched off (disconnected).



Device switched off (completely);
Position 0.

Switch setting II

To turn the light on in the cabin while the unit is still disconnected (for maintenance and cleaning work) push the left side of the rocker to the second latch (**switch setting II**).



Light enabled;
Device switched off.
Position II.

Switch setting I

To make the unit ready for operation, switch back to the initial position (**switch setting I**). The unit will return to standby mode.



Device switched on.
Position I.



Recycling

Devices or lighting elements that will not be used any longer have to be handed in at a recycling station according to regulation 2012/19/EU. Do not dispose it with the normal household waste.



Service Address:

EOS Saunatechnik GmbH
Schneiderstriesch 1

35759 Driedorf, Germany

Tel: +49 (0)2775 82-514

Fax: +49 (0)2775 82-431

servicecenter@eos-sauna.de

www.eos-sauna.de

Please retain this address together with the installation guide for further references.

To help us answer your questions quickly and competently please provide the information printed on the type shield including the model, item no. and serial no., in all inquiries.

Equipment commissioning date:

Stamp and signature of the authorized electrician:

General Terms and Conditions of Service

I. Scope

Unless otherwise agreed in writing in a specific case, these terms and conditions of service shall apply to service operations, including examining and repairing complaints. All our existing or future legal relationships shall be governed solely by the following terms and conditions of service. Our recognition of any conflicting terms and conditions of the Ordering Party shall be conditional upon our having given our express written consent to their applicability. We hereby expressly object to any terms and conditions of the Ordering Party contained in its General Terms and Conditions of Business or order confirmation. If order confirmations or deliveries are accepted without reservation, this shall not be deemed to constitute recognition of such terms and conditions. Any ancillary agreements or amendments must be confirmed in writing.

II. Costs

The Ordering Party shall bear the following costs in connection with the service operation:

- De-installation/installation and electrical works (connection / disconnection).
- Transportation, postage and packaging.
- Function testing and troubleshooting including inspection and repair costs.

There shall be no third-party billing.

III. Obligations / Ordering Party's cooperation

The Ordering Party shall provide free-of-charge assistance to the manufacturer in carrying out the service operation.

In the case of a warranty claim the manufacturer shall provide the required replacement parts to the Ordering Party free of charge.

IV. Service visit by the manufacturer

In the event that it is essential that a manufacturer employee carry out the service operation on site, this must be agreed in advance. Where the main reason for the service call is not the fault of the manufacturer, any costs incurred shall be recharged to the Ordering Party after the service visit and shall be paid as per agreed payment terms.

V. Liability

The manufacturer shall assume liability in accordance with the currently applicable statutory regulations. The packaging for all of our products is designed for the shipping of individually packed goods (pallet). We expressly

point out that our packaging is not suitable for individual shipments via parcel post. The manufacturer shall accept no liability for damage incurred as a result of improper packaging in an individual shipment.

VI. Manufacturer's Guarantee

The manufacturer's guarantee shall apply only in the event that installation, operation and maintenance have been carried out in accordance with the manufacturer's specifications contained in the installation instructions and instructions for use.

- The guarantee period shall commence from the date on which proof of purchase is provided and shall be limited, in principle, to 24 months.
- Guarantee services shall be performed only if the original proof of purchase relating to the equipment can be presented.
- Any and all guarantee claims shall become void if modifications are made to the equipment without the manufacturer's express consent.
- Any guarantee claim shall likewise become void in the case of defects that arise due to repairs or interventions made by unauthorized persons or due to improper use.
- In the case of guarantee claims, the serial and article numbers must be indicated together with the product name and a meaningful description of the fault.
- This guarantee shall cover defective equipment parts, with the exception of usual wear parts. Wear parts are, among others, lamps, glass parts, heating elements and sauna stones.
- Only original replacement parts may be used within the warranty.
- Service visits by outside companies shall require a written order to be issued by our service department.
- The equipment in question shall be sent to our service department by the Ordering Party and at its expense.
- Electrical installation and connection works in the event of service or replacement shall be carried out at the Customer's expense and shall not be borne by the manufacturer.

Complaints in respect of our products shall be reported to the responsible authorized dealer and shall be exclusively handled via the latter.

The manufacturers General Terms and Conditions of Business, which can be found at www.eos-sauna.com/agb, shall apply in addition to the foregoing terms and conditions of service.

As of 08/2018