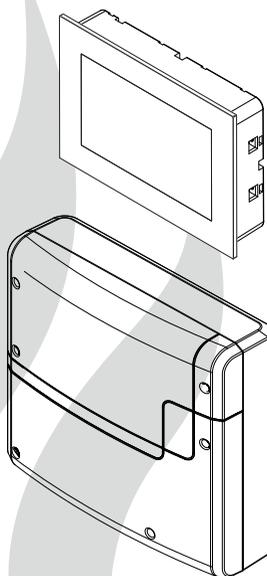


# EmoTouch II +

Touchscreen sauna control unit



GB

**Installation and operation instruction**

Made in Germany



# English

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# Scope of delivery

(changes are reserved)

1. Main electronic unit (with two-part front cover)
2. Control panel with touchscreen display
3. Housing base for flush-mounted installation of the control panel, with mounting brackets
4. De-installation tool (for control panel)
5. Temperature sensor: a) housing, b) sensor board, c) overheat protection fuse, d) 2 mounting screws 4 x 40 mm, e) connection cable 5 m with RJ10 plug, f) 2-core white cable for overheat protection fuse 5 m
6. Connection cable 5 m (main unit - touchscreen display) with RJ14 / RJ10 plugs
7. Plastic bag with 3 mounting screws 4 x 25 mm (for main electronic unit)
8. 1 spare overheating protection fuse
9. 5 rubber cable glands
10. 1 installation & operation manual, 1 operation manual (for end users)



## Accessories (optionally available):



2<sup>nd</sup> sensor .....item 94.5725



Humidity sensor .....item 94.5726

## Technical data

Voltage (power supply):	400 V 3 N AC 50 Hz
Switching capacity:	max. 9 kW resistive load, may be extended with a power extension unit (LSG)
Heating time limit:	6 h / 12 h / unlimited
Housing:	plastic, shatter-resistant
Display:	7" capacitive colour touchscreen display, 16:9 aspect
Operation:	via touchscreen display
Temperature control range:	30° - 115°C (dry sauna mode) 30° - 70°C (humid sauna mode)
Humidity control:	proportional to time or optionally as per rel. air humidity (%) with an optional humidity sensor.
Sensor system:	Digital sensor with overheating protection fuse (STB) 142°C
Control characteristic:	Digital two-point control
Connection for fan:	min. 5 W, max. 150 W (only fans without starting capacitor) <i>Please make sure to use only the fans suitable for phase lead edge control, otherwise either the fan or the control unit may be damaged!</i>
Connection for light:	min. 5 W (20 mA), resistive loads - max. 150 W, dimmable energy saving lamps - max. 35 W Lamps at conventional transformers - max. 60 VA. Attention: only dimmable lamps may be used!
	 Fan and light output share a common 5 A fuse.
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:	maximal load 50 W / 50 VA, no capacitive loads allowed.
Card reader:	SD card reader in control panel
Ambient temperatures:	-10°C to +35°C
Storage temperatures:	-20°C to +60°C
Sensors:	may not be installed in corrosive or highly salty environment.
Control unit:	may not be installed in corrosive environment or in an environment which may cause water condensation.
Dimensions main block:	H 270 x W 300 x D 100 mm
Dimensions control panel:	142 x 210 x 42 (mm) (fitted version) installation depth: approx. 35 mm

Dear customer

You have purchased a high-quality technical device with which you will have years of sauna fun. This sauna control unit was designed and inspected according to the current European safety standards and manufactured at the factory in accordance with the quality management standard DIN EN ISO 9001:2000.

This detailed installation and operation manual has been prepared for your information. Please observe in particular the **important notes** and the information on electrical connection.

We wish you exhilarating recreational experience and lots of fun with your sauna!

## Intended use

This sauna control unit is exclusively intended for the control of the sauna heater in a sauna cabin.

Any other use over and above the intended purpose is not considered as appropriate use! Compliance of the standard operation, maintenance and repair conditions is also an element of appropriate use.

The manufacturer cannot be held liable for deviating, unauthorized alterations and any resulting damages: the initiator of these changes bears the full risk.

## General information

Please check whether the unit has arrived in perfect condition. Any transport damages should be immediately reported to the freight forwarder delivering the goods or you should contact the company that shipped the goods.

Please note that you will only be able to achieve an optimum sauna climate if the cabin with its air intake and ventilation, the sauna heater and the control unit are aligned to each other.

Please observe the information and stipulations made by your sauna supplier.

Sauna heaters heat up your sauna cabin using heated convective air. Here, fresh air is drawn in from the air intake which, when heated, rises upwards (convection) and is then circulated within the cabin. Part of the used air is pushed out through the vent in the cabin. This creates a typical sauna climate which can achieve temperatures of approx. 110°C measured directly under the ceiling of your sauna, dropping in temperature to approx. 30-40°C towards the floor. It is therefore not unusual to measure temperatures of 110°C on the temperature sensor hanging over the heater, whilst the thermometer hanging on the sauna wall, approx. 20-25 cm under the cabin ceiling, only indicates 85°C. The bathing temperature generally lies between 80°C and 90°C in the area of the upper bench when the temperature is set to maximum.

Please note that the highest temperatures are always generated over the sauna heater and that the temperature sensor and the safety limiter must be mounted there in accordance with the control unit installation instructions.

When heating up for the first time, you may notice a slight smell caused by evaporating lubricants used in production processes. Please ventilate your cabin before beginning your sauna bath.

## General safety precautions

- This device can be used by children aged 8 upwards and by persons with physical, sensory, or mental disabilities, or 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 are to be supervised in order to make sure that they do not play with this device.
-  **Attention:** It is forbidden to install the control box in a closed switch cabinet or behind a wooden panelling!
- The electrical installation may be done only by a qualified electrical technician.
- You must comply with the regulations of your power supply company and applicable VDE regulations (DIN VDE 0100).
-  **WARNING:** Never attempt repairs or installations yourself, as this could result in serious injury or death. Only a qualified technician may remove the housing cover.
- Please note the dimensions in the assembly instructions, especially when installing the temperature sensor. The temperature above the oven is critical for the temperature setting. The temperature can be held within operating parameters and a minimal temperature gradient inside the bench area of the sauna cabin can be achieved only if unit is assembled correctly.
- The device may only be used as intended as a control unit for sauna ovens up to 9 kW (up to 36 kW when combined with a contactor box).
- Completely disconnect the control unit from the electrical circuit, i.e. flip all circuit breakers or the main circuit breaker during each installation or repair.
- Please note the safety and installation information from the sauna oven manufacturer.
- Always heed the specifications and instructions of the cabin manufacturer, too.
-  **If control units with remote control options\* are used, protection against activation when the heater is covered is required. (e.g. cover protection Type 1-5 or S-Guard).**

*\*Telecontrol = setting up, controlling or adjusting a unit by a command that can be given out of view of the unit by means of transfer media such as telecommunication, audio technology or bus systems. (this also includes weekly timers)*

 When designing the cabin ensure that the external exposed glass surfaces only reach a maximum temperature of 76°C. If necessary, protective features need to be fitted.

 **Attention!**

Dear customer,  
according to the valid regulations, the electrical connection of the sauna heater and the control box has to be carried out through the specialist of an authorized electric shop

We would like to draw your attention that in case of a warranty claim, you are kindly requested to present a copy of the invoice of the executive electric shop.

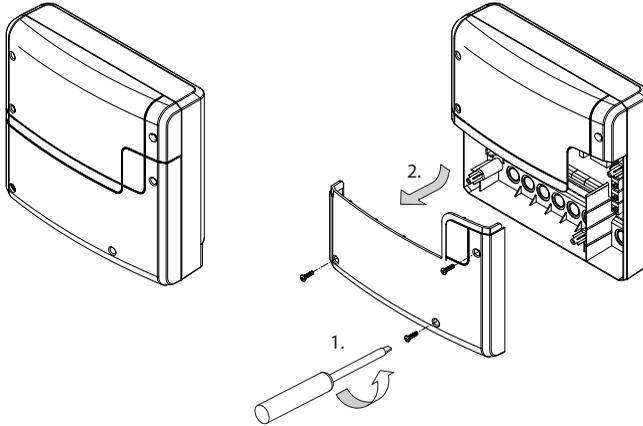
 **Attention!**

Only the original spare parts may be used.  
Any modification of the cables included in the delivery can lead to malfunctions and is not permitted.

Any unauthorized technical alteration makes the product warranty void.

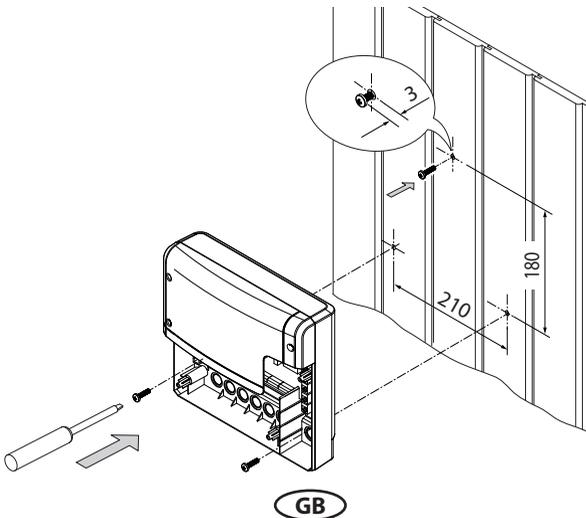
## Installation of the main relay box

The main electronic unit (relay box) may be installed only outside sauna (steam room). The recommended places of installation are the outer wall or a plant room (technical room). The installation on the roof is also possible. If empty ducts for connection cable are already available, then they usually predetermine the installation position. The installation shall be carried out as follows:



**Fig. 1**

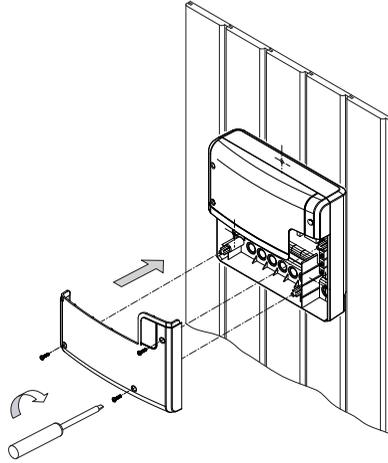
1. Take the lower part of the front cover off the relay box. For this undo 3 fixation screws, then pull the cover slightly downwards and take it off. See the fig. 1 for details.
2. The relay box has three mounting holes on the rear side. Refer to fig. 2 below for dimensions in order to mark the position on the wall (template). The central upper screw shall be used to hang the relay box onto it with the corresponding opening on its rear side. Two lower screws shall be used to secure the housing to the wall after it is hung on the upper screw.



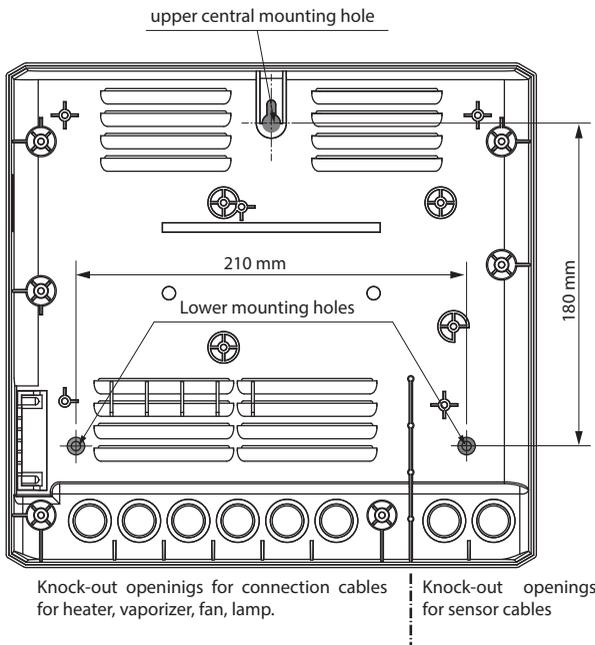
**Fig. 2**

3. Hang the housing on the central upper screw. Make sure that this screw stands out approx. 3 mm from the wall surface. If the connection cables shall be connected from the rear, knock out the corresponding openings in the housing and insert the supplied cable glands (rubber cable holders) into these openings. Pull the cables through them into the housing.

Secure the housing with two mounting screws 4x25 mm through the corresponding holes as shown on fig. 3 below.



**Fig. 3**



**Fig. 4**

# Control panel

## Installation place

The control panel may only be mounted outside the sauna cabin. If ductwork is already provided for electrical installations then the position of the control unit is predetermined by that. The control panel is designed for flush-mounted installation into the sauna wall or a similar adjacent wall. The installation shall be carried out as follows.

First of all determine the installation position. Ideally it should be at the eye sight height, as shown on fig. 5

Make a cut-out in the wall with dimensions 127 mm height x 188 mm width.

Be careful not to make it larger than the flange of the control panel.

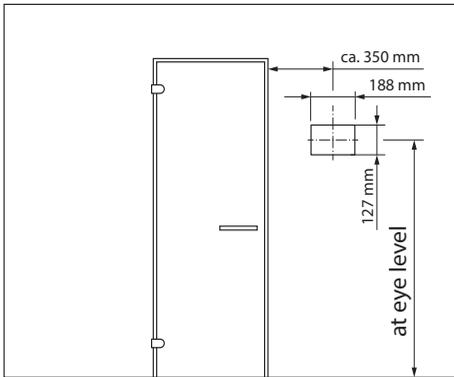


Fig. 5

## Cable connection

Draw the connection cable from the relay box to the control panel.

The connection cable may be laid only between the outer sauna wall and insulation layer to prevent overheating (Fig. 6).

The insulation should ensure that the temperature at the outer sauna wall may not exceed 75° C.

Pay attention to that the bigger plug (RJ14) shall be oriented towards the relay box and the smaller plug RJ10 towards control panel.

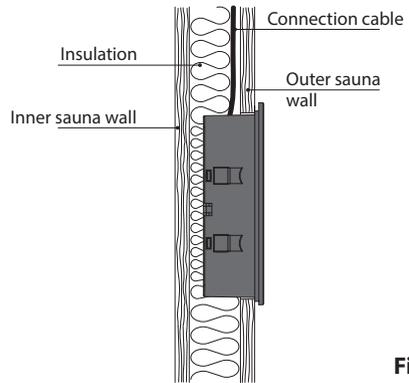


Fig. 6

Use the supplied 5 m connection cable with RJ10 plug (control panel side) and RJ14 plug (relay box side).

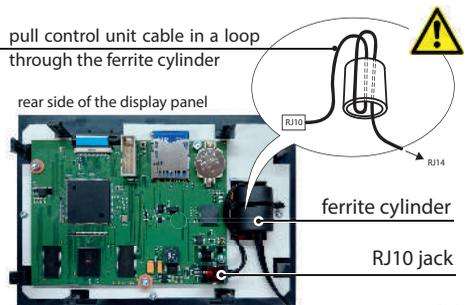
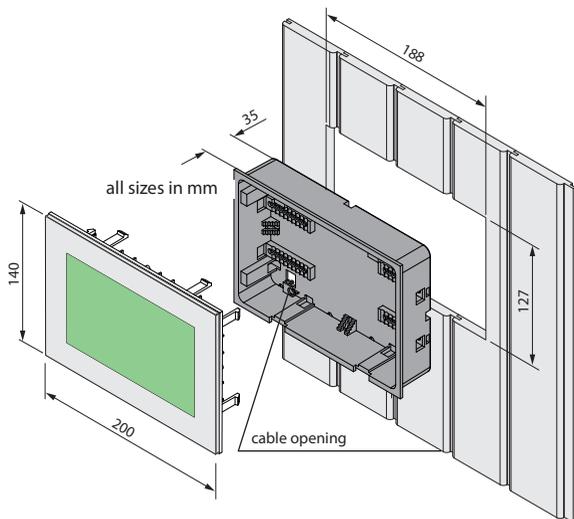


Fig. 6.1

If necessary this connection line may be extended up to approx. 30 m length. For this you will need to use a standard coupling RJ14/RJ14 and the extension cable with RJ14 plugs in required length. The coupling and extension cable may be purchased from specialist dealers.

# Flush-mounted installation



## Wall aperture:

Width 188 mm

Height 127 mm

Depth min. 35 mm

## Notice:

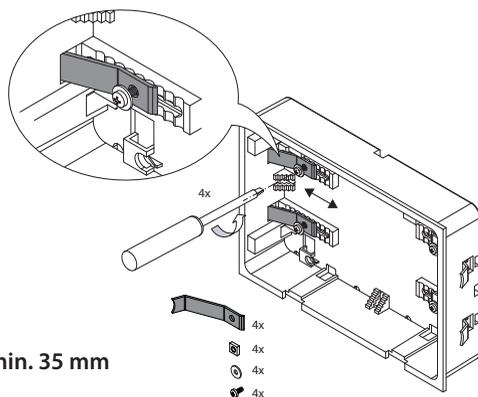
Pay attention to the correct orientation of the housing base, the opening for connecting cable should be at the bottom side as shown on fig. 7

## Installation of the housing base

First install the housing base into the sauna wall (see fig. 8):

1. Loosen 4 screws holding mounting brackets in the base
2. Pull the connection cable through the opening in the housing base.
3. Insert the housing base into the wall cut-out.
4. Adjust the metal brackets to the wall panelling thickness.
5. Tighten the screws - the brackets will be pulled to the wall panelling from inside and will fasten the housing base in the opening.

Fig. 7



Wall panelling min. 35 mm

Fig. 8

## Installation of the upper part (control panel with display)

Place the control panel directly in front of the housing base and pay attention to the correct orientation - the cable connector shall be at the bottom and the SD card slot at the top. Plug in the connection cable with RJ10 plug which you pulled through the housing base.

Now carefully press the control panel into the housing base until you hear a click sound (hooks of the upper part should snap into the holders in the base). Make sure the control panel sits reliably in the base part.

Installation hint: When you lay the connection cable allow some extra length around the base, so that later you can take the control panel out of the base easily.

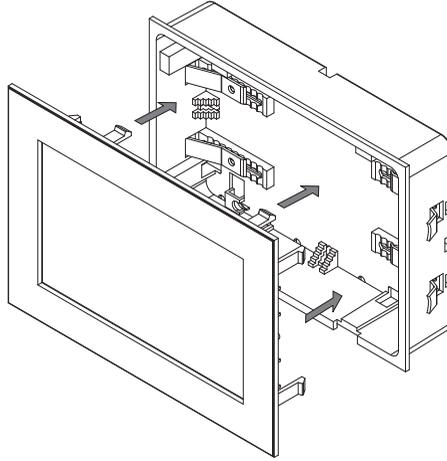


Fig. 9

## Taking the control panel out

To remove (detach) the control panel use the included de-installation tools or two slotted screwdrivers. Insert the tools or screwdrivers into the grooves located on the bottom side (between housing upper part and housing base) and carefully pull it away from the wall until control panel is released from the base and may be taken out. Do not apply excessive force as this may damage the inner holders.

Take the control panel out of the base and detach the connection cable.



## Connection of sensor cables

You should not install sensor and power supply lines together, or lead them through the same feedthrough. This can lead to interferences in the electronics, such as “fluttering” in the relays. Connect the cable shielding (if present) to ground in the control unit.

Please observe that the following dimensions relate to the values stipulated during the unit inspection acc. EN 60335-2-53. The heater sensor must always be installed at the point where the highest temperatures are to be expected. Fig. 12-14 provide you an overview of the mounting point of the sensor.



## Installation of the temperature sensor

Make sure that there is no deviating mounting position of the sensor, specific to the sauna heater (check the installation guide of the sauna heater).

1. Mount the heater sensor in cabins up to 2 x 2 m according to fig. 11, in larger cabins according to fig. 12.
2. Drill a hole to lead the cable through, preferably through the middle of one of the wooden planks.

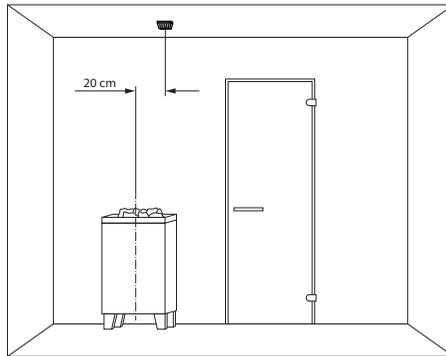


Fig. 10

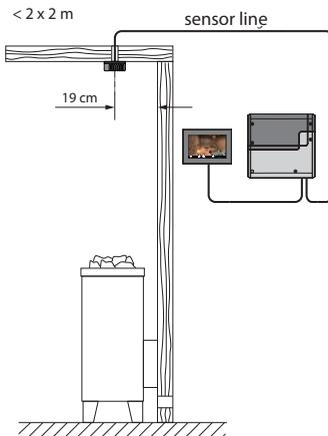


Fig. 11

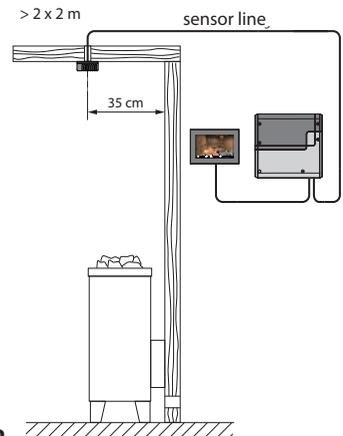


Fig. 12

3. Lead the sensor cable (red) and the limiter cable (white) through the drilled hole and connect both cables to the main relay box as advised on pages 18-19.
4. Connect the sensor cable to the sensor board according to fig. 13. Make sure the connections are correct. Connect the limiter cable (2-core white cable) to the limiter board (STB).
5. Mount the sensor to the ceiling plank using two supplied screws and attach the housing cover.
6. After completed installation and correct commissioning of the control unit, the sensor line for overheating protection must be tested for proper functioning. Disconnect one of the wires of the white cable at the STB board in the sensor housing - the respective error message shall appear on the display. Re-connect the wire to make the error message disappear.

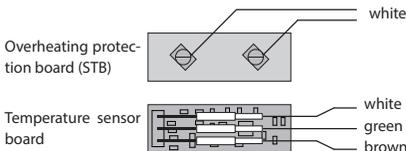
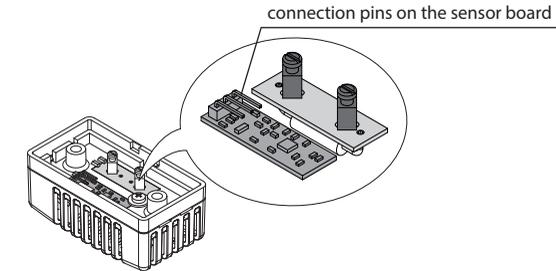
### Temperature sensor - connections:



Attention:

Please pay attention that by the installation of the cable lines for sensors and display panel it is not permitted to pull the cable by the modular plug. If you use a help to draw the cable through the ducts it must not be attached to the plug but to the cable only!

Pulling the cable by the plug may damage it and cause loose contacts resulting in malfunction of the control unit. In such case the warranty will be void and the cable should be replaced.



Attention! Make sure to observe the correct wire connector order on the temperature sensor board as shown on fig. 13

Fig. 13

### Temperature sensor - installation overview:

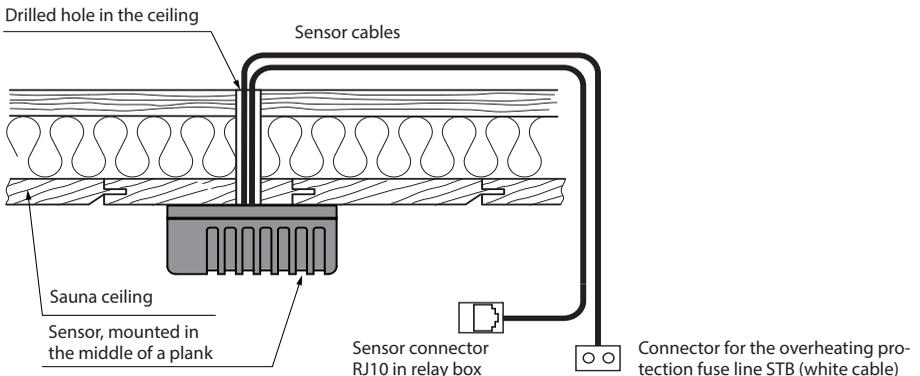


Fig. 14

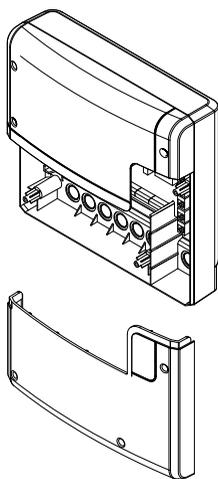
## Electrical connection

The electrical connections may only be carried out by a certified electrician in compliance with the guidelines of the local power supply company and applicable legal regulations (e.g. VDE norms for Germany).

In general, there may be only one permanent connection line to the network. Furthermore equipment should be provided that makes it possible to disconnect the system on all phases from the power supply with a contact gap of minimum 3 mm.

All electrical installations and all connection lines that are installed inside the sauna cabin must be suitable for an ambient temperature of at least 170 °C.

The power supply line shall be laid to the control unit and connected to the power input terminals.



Relay box, lower front cover opened

Fig. 15

The power supply cable shall be laid to the main relay box and connected to the power input terminal as per connection diagram (see wiring diagrams, page 18-19).



## Sauna heater connection

Install the sauna heater and the vaporizer (if available) inside the sauna cabin in front of the air intake according to the manufacturer's installation instructions.

Draw the silicone cable through the ductwork to the relay box and connect it to the appropriate terminals as directed in the wiring diagram. Make sure to observe the wiring diagrams on pages 18 - 19 with the corresponding terminal connection scheme.

**Notice:** In case there is no ductwork available drill a hole next to the air intake opening and run the heater line through this hole to the outside and to the appropriate terminals in the control unit. The silicone line must be buried to protect it from outside influences. Therefore, use a suitable cable-duct or a PVC-pipe through which you can run the line up to the power unit.

## Special advice for connection of Bi-O sauna heaters:

### Attention!

By working vaporizer the sauna heater line „W“ will diverted to the „Wb“ line of the vaporizer.

The sauna heater section will then operate with 2/3 of the total power.



## Sauna lamp connection



The sauna lamp must have the protection class of at least IPx4 and should be resistant to the ambient sauna temperatures. The sauna lamp may be installed at any location but never close to the rising hot air of the heater.

Only dimmable lamps may be used. The control unit will detect strongly inductive loads and will adjust the phase edge control accordingly.



**Attention! Make sure to use only dimmable illuminants.** By connection of not dimmable illuminants there is a risk of damaging either the illuminant or the control unit. No warranty claims may be accepted in this case.



## Connection of the power extension unit

The switching capacity may be extended with an external power extension unit (LSG), in order to connect and operate the sauna heaters above 9 kW power.

For connection details please refer to the installation and operation manual for the respective LSG model.

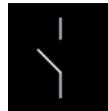


## Heating time limitation

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

Additionally the heating time will be dependent of the selected type of use. If the control unit has been set to private (domestic) use, then the heating time will be automatically limited to 6 hours.

The jumper setting will override the software settings.



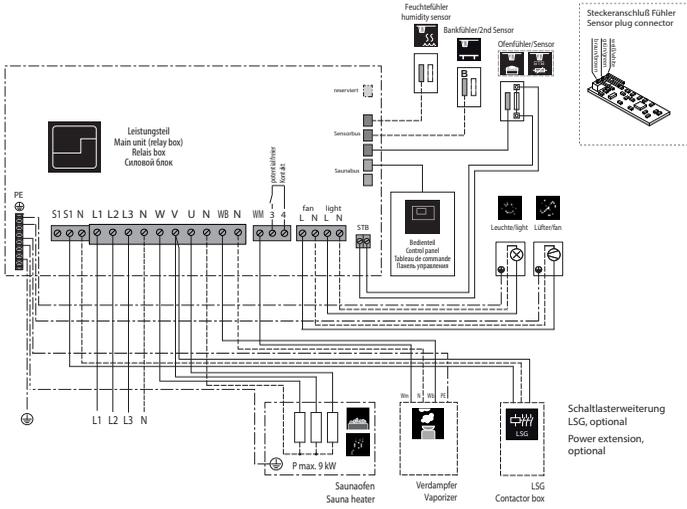
## Potential-free contact

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 NO 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 5.



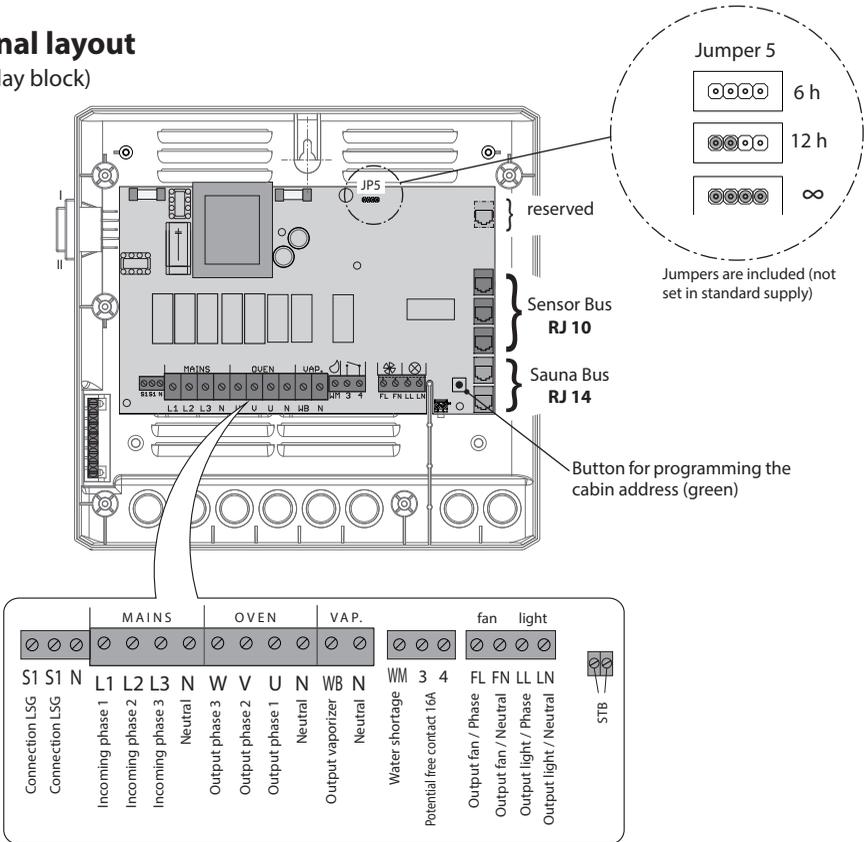
**Attention! If you use the terminals L1, L2 or L3 to power the circuit connected to the potential free contact, then the connection line should not be overloaded. If necessary, the load (consumer) connected to the potential free contact should be additionally protected and provided with a separate power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

# Connection diagram EmoTouch II+



## Terminal layout

(main relay block)



## Temperature sensor

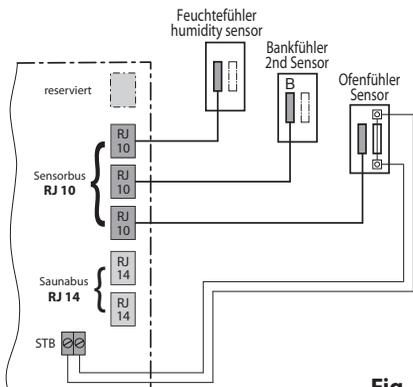
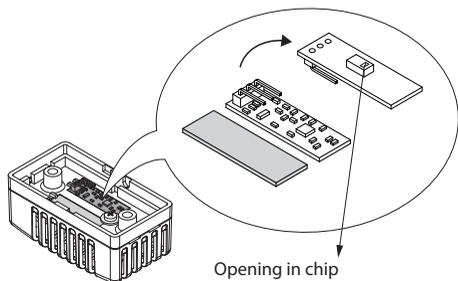


Fig. 16

For more details please see pages 14-15.

## Humidity sensor (optional)

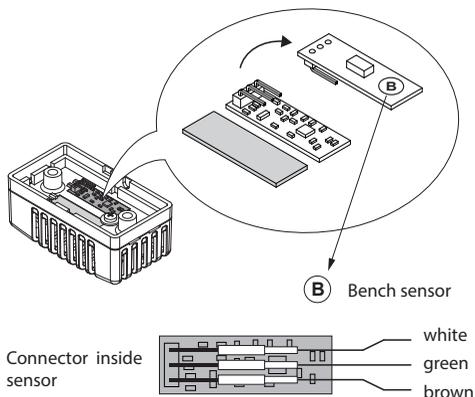


Opening in chip

Fig. 17

For more details please see next page.

## Bench sensor (optional)



Connector inside sensor

Fig. 18

For more details please see page 21.



## ATTENTION!

If a sensor is plugged into the sauna bus (RJ14 connector), the sensor and the main board may be irreparably damaged!

The sensor cable with RJ10 plugs shall be connected to one of three sensor bus RJ10 jacks on the board. The connection sequence is not important, you may connect the sensors to any of the three sensor bus jacks.

The white line of the overheating limiter fuse shall be connected to the 2-pin connector (STB) on the main board.

The connected sensors will be automatically detected and configured.

Adress 1 = Sauna

Adress 2 = Steam bath

## Programming the cabin address

1. Press button >4s – to start the programming mode; the red light flashes approx. 150ms on, 500ms off
2. Press button briefly (> 0.5s) – the green LED shows the set address via the number of flashes; the switching times: approx. 400ms on, 400ms off
3. The next address is selected every time the button is pressed.
4. As the control unit is usually supplied with address 1, pressing the button for the first time after starting the programming mode sets the address 2; the green LED flashes twice.
5. Address 1 follows address 8
6. the programming mode is automatically quit if no button is pressed form more than 10s. The new address is thereby permanently saved.



## Vaporizer connection

Only for Emotec H / Emotouch models. Use silicone cable 4 x 1,5 mm<sup>2</sup> for vaporizer connection.



**ATTENTION:** pay particular attention to the correct connection of the WB and WM terminals. By swapped connection the detection of water shortage in the vaporizer will be disabled and the protective thermo fuse will be bypassed. The vaporizer may overheat! **Risk of fire!**

Fig. 19 shows standard vaporizer connection (EOS models). EOS control units will detect water shortage if there is zero potential at the Wm terminal of the control unit.

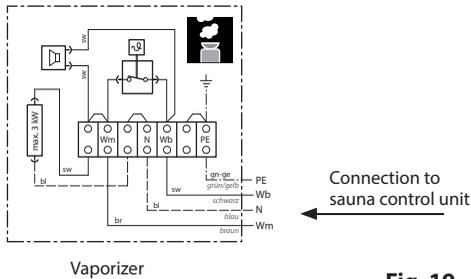


Fig. 19



**Attention:** Always connect the neutral (N) terminal at the sauna heater. In humid mode one phase will be switched off, the power load distribution will not be proportional. As a result the N line will not be currentless.



## Humidity sensor installation (optional)

The humidity sensor shall be mounted in the middle of the wall opposite to the heater at approx. 150 cm height.

The connection details to the sensor board are shown on Fig. 20.

Make sure to connect the cable to the sensor correctly. Incorrect connection may damage the sensor! The sensor cable should be connected via RJ10 plug to the free sensor bus jack in the relay box (as shown on Fig. 20).

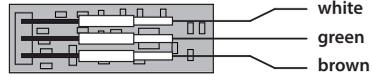


Fig. 20

After connection of the humidity sensor the humidity symbol on the start screen will change



from to (in humid operation mode) to indicate humidity control as per relative air humidity. The humidity sensor will be normally detected within 2-3 sec.

Sensors may be connected to any free sensor bus jack (RJ10).

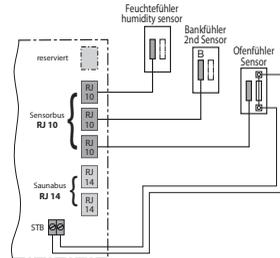
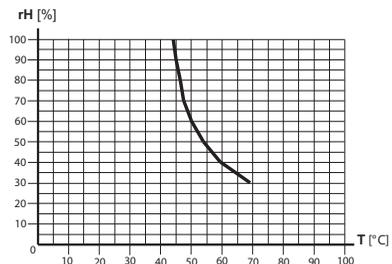


Fig. 21

The humidity control with connected humidity sensor effects basing on the temperature-humidity curve which serves as a limit to possible values. You may set any value to the left and below the curve, e.g. 60°C and 30%.

## Temperature/humidity curve as per norm EN 60335-2-53:2003





## Installation of the optional 2<sup>nd</sup> sensor

**Place of installation:** The 2nd sensor (bench sensor) shall be mounted on the ceiling over the rear bench opposite to the sauna heater (see examples on Fig. 22).

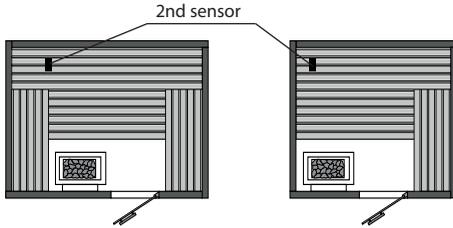


Fig. 22

The bench sensor is connected with a 3-core wire silicone cable with RJ10 plug to one of the free sensor bus jacks in the relay box as shown on the Fig. 23. Cable connection on the board inside sensor are shown on Fig. 24.

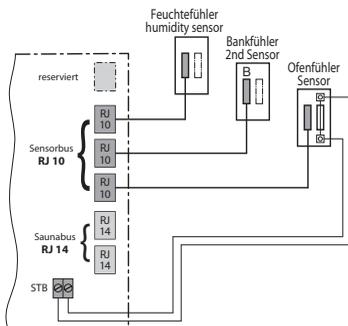


Fig. 23

By correct connection the sensor will be automatically detected and configured. The display will show the following symbol during start-up.

Display symbol:



If the 2nd sensor is faulty the temperature will be controlled via the main sensor over the heater.

After the fault is rectified the 2nd sensor will be automatically detected and configured upon the new start of the control unit.

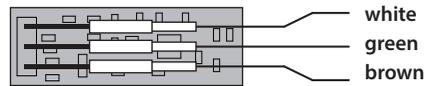
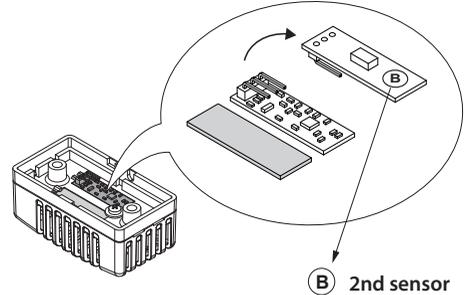


Fig. 24

The 2nd sensor is supplied including 5 m 3-core wire silicone cable with RJ10 plug. This cable shall be connected to the sensor board as shown on the fig. 24. For installation purposes the connection may be easily disconnected (pin-type connectors).

If the 2nd sensor is connected it will be used to control the temperature in the sauna. The main sensor will function only as the overheating protection (139°C limitation).

This allows to improve the air circulation in certain situations, for instance in very large saunas or by complex cabin layouts, and to achieve faster heat distribution to remote parts of the sauna.

# Basic Setup (commissioning / first switching)

## Using the control unit for the first time or after a reset

The EmoTouch control unit provides quick and intuitive basic setup in four steps after the first switching (commissioning of the unit) or after the system reset.

### Step 1 - set language

Select the required language for the menu navigation by touching the language symbol and confirm by touching it shortly again.

You can choose from 18 languages:  
DE, EN, FR, RU, SP, NL, IT, PL, SLO, FIN, TR,  
CZ, RO, BG, HU, SK, DK, CRO, CN.

Upon confirmation the display shows the next step. With the green arrow "back" you can always return to the previous step.



### Step 2 - set time

Set the current time. At first set the hour with „+“ or „-“ and confirm the selection with a short touch on the  symbol, then set the minutes in the same way.

### Step 3 - set date

Set the date, month and year using the „+“ / „-“ symbols in the same way as by the time setting. The value which you are currently changing will be shown slightly larger.

### Step 4 - set the sauna use type

This step configures the essential setup for the sauna use. The control panel will ask several questions and will set the scope of appropriate features according to the selected options.

#### 1. Is the sauna for private or commercial use?

Select the applicable option and confirm by touching the symbol twice:



for private use, or



for commercial use

#### 2. Is the sauna installed in the EU?

Select the applicable option and confirm:



- yes, in the EU, or



- no, outside EU.

#### 3. Safety system as per norm EU 60335 for remote switching / preset timer available?

Select the applicable option and confirm:



- yes, available, or



- no, not available.

#### 4. Select the heater type, with or without vaporizer.

Select the applicable option and confirm:



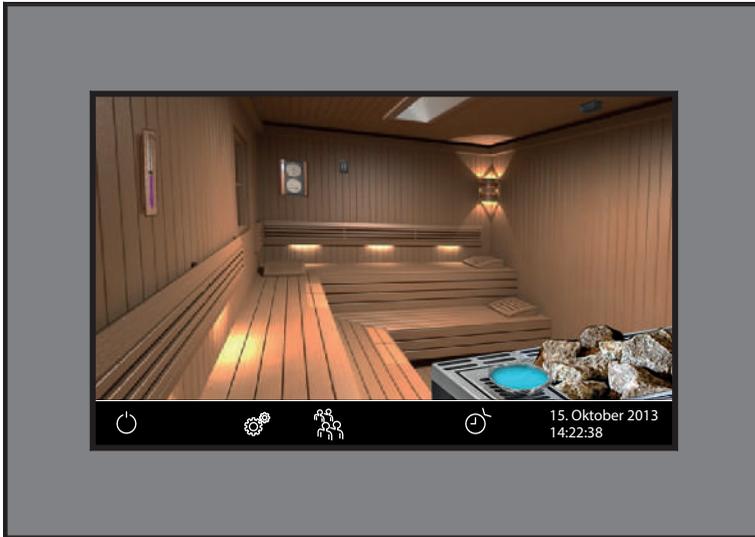
- dry sauna heater without vaporizer (disabled vaporizer)



- Bi-O sauna heaters with vaporizer.

The basic setup is now complete and the control unit will switch to the standby mode.

Further special settings and custom configuration of the control unit may be carried out in the service & setup menu.



Example of the display in standby mode with selected humid sauna operation. The sauna cabin light is switched on.

# Operation

## Control panel - graphic user interface (GUI)

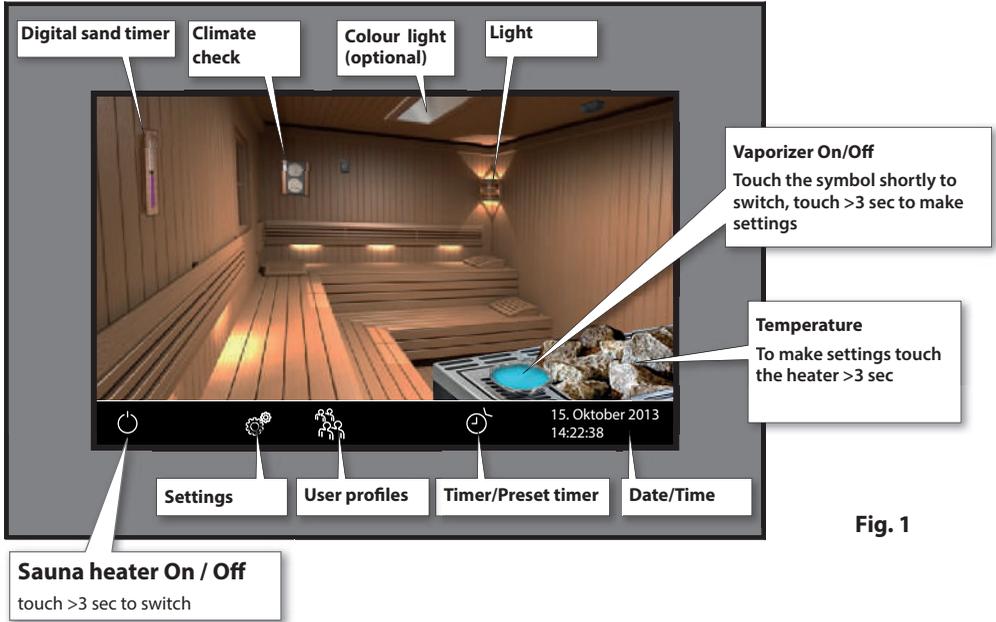


Fig. 1

### Switching your sauna on / off

In order to switch the sauna heater on touch the  symbol for 3 sec. The sauna will switch on with the pre-set parameters (e.g. temperature, etc.). To switch off touch the symbol again shortly.

### Switching the light on / off

Touch the lamp on the display shortly in order to switch the light on or off.

### Settings (sub-menu)

For extended settings (see page 28) touch shortly the symbol , in order to open the sub-menu. A new window, as shown on the fig. 2, will open.

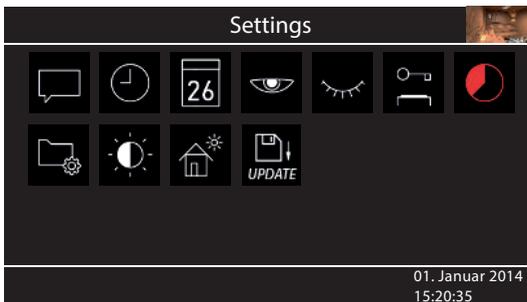


Fig. 2

**Notice:** if the display of the control panel remains dark after switching the power supply on please check the position of the unit's main switch (Switch-Off rocker switch) located on the main electronics unit (relay box). See chapter "Switch-Off switch" for more details.

## Operation principle with a touch screen GUI

On the GUI (sauna cabin image) you can switch the functions by touching shortly the corresponding objects (e.g. lamp). By touching these objects >3 sec you can make settings (adjustments). The symbols in the lower black strip (except for "settings") should be touched for >3 sec for safety reasons.



Operation is based on the short or long touching of the display. By touching the display a small yellow square will appear in the low right corner to indicate that the display is functional and gets the input.



### Return

In all sub-menus - return to start screen, to the previous menu or to the previous selection.

## Symbol description (start screen)



### Sauna heater (heating) on/off

Switching the sauna heating on/off, to switch on touch for >3 sec, to switch off touch the symbol once shortly.



### Settings

Sub-menu for additional (extended) settings. Like e.g. language, time, date, screensaver, special parameters, display lock, etc.



### Profiles

User profiles (1 - 8) for individual settings.



### Auto-Start

Settings for the switching-on time pre-selection (pre-set timer) - to program the automatic switching at a later time up to 24 h in advance or to program the week timer / single switching time.

### Hint:

The small image of the sauna cabin in the upper right corner in sub-menus functions as a „home“ button to allow quick return to the start screen at any time. Simply touch this image shortly. Please remember that all not yet saved settings will be lost.

If you do not operate the control unit for more than 20 seconds the control unit will return to the start screen. All not confirmed settings will be lost in this case.

Thanks to the integrated battery (CD2032 type, in control panel) all settings will be stored in the memory and will be retained even in the case of a very long time power loss.

New extension modules and optional equipment will be normally automatically detected and configured. Upon restart the control panel will show the corresponding new symbols in the menu navigation.

## Symbol description - extended settings

„Extended settings“ sub-menu provides a range of additional functions, which normally need to be set only once or quite seldom.

Touch the symbol  shortly to enter this sub-menu.



### Language

Here you can select one of 18 languages for the menu navigation and text messages:

DE, EN, FR, RU, ES, NL, IT, PL, SLO, FIN, TR, CZ, RO, BG, HU, HR, SK, DK, CRO, CN



### Time

Here you can set the time of day.



### Date

Here you can set the date, month and year (important for time-dependant functions like the week timer)



### Screensaver

Here you can set the time interval after which the display shows a screensaver with a floating clock.



### Sleep mode

Here you can set the interval, after which the control panel goes into the sleep mode in order to save power. Touch the display to wake up the unit.



### Display lock (child lock)

Here you can lock the unit with an own Pin-code. It will be still possible to switch off the heater and to switch the cabin light.

Please observe the special advice below



### Heating time

Here you can set the desired heating time. By private use - up to 6 hours, by commercial use - up to 12 hours or unlimited.



### Operation data

Here you can check the firmware version, the remaining time until the next service, as well as the contacts for service issues.



### Display brightness

Here you can change the display brightness in three steps.



### Holiday home mode

Here you can restrict the user's access to the minimum functions with an own Pin-code.



### Potential free (voltage-free) contact

This function allows you to switch an external equipment connected to the potential-free output of the control unit.



### Update

With the update function you can flush or update the installed firmware (requires a standard SD card).



### Important advice for Child Lock function

You can completely lock the control panel via  symbol with an individual pin-code. By active lock you can only switch off the heater (if it is heating) and switch the cabin light. If you attempt to reach any function you will be prompted to give in the pin-code.



#### How to reset the pin-code (unblock the unit):

Touch the settings symbol shortly in order to call the pin-code prompt menu. Now touch the display shortly in the very upper left corner. The signs for the pin-code input will change for a very short time from „----“ to „\*\*\*\*“. Now touch the  symbol immediately within 0.5 sec. The display will be unlocked and the unit will return to the normal start screen.

## 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 sauna 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 shows the display in standby mode with the light switched on. If a dry sauna heater (no vaporizer) is connected, then the heater on the display will be shown without vaporizer.

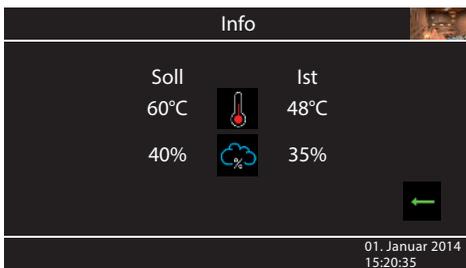
The images shows optional equipment.



**By switched on sauna** the stones will glow red and the humid operation (if selected) will be indicated with a white steam cloud.

The remaining heating time will be display in the bottom line. To stop the heating touch the "on/off" symbol shortly.

After a humid operation the sauna-dry mode will switch on automatically (unless disabled). it can be interrupted at any time.



### Checking the climate conditions

You can quickly check the target and the current climate (temperature/humidity). Just press shortly on the  symbol.

The pre-set target and the current values will de display for approx. 50 sec.

If no bench sensor is installed, the temperature will be measured over the heater.

If no humidity sensor is installed, the pre-set propotional humidity will be shown. The „%“ sign in the cloud indicates, that the humidity sensor is connected. Without the humidity sensor the  symbol will be shown. You can return to the start screen at any time (touch the home button).

**Notice:** Please pay attention that the shown values for the current temperature (humidity) are measured at the sensor location point. Because of the considerable differences in temperature in different parts of a sauna these values may vary from the values shown by the instruments mounted at the sauna wall.

## Operation and program settings

### Sauna on / off

Touch the  symbol for 3 sec. The sauna heater will switch on and the display will show the active heating (see page 29). The light will switch on automatically as well.

To switch the sauna off, touch shortly the  symbol again. By humid operation the sauna-dry program will switch on (if not disabled in setup) for the preset time (max. 30 min). After that the sauna will switch off.

You can interrupt the sauna-dry program - touch shortly the  symbol.



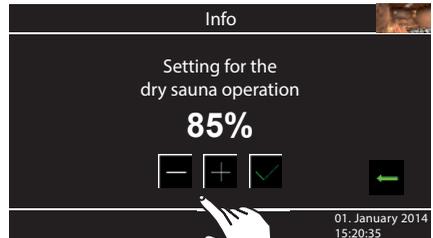
### Dry sauna or humid operation mode (Bi-O)

To enable the humid mode touch the vaporizer shortly - the herbs cup will fill blue. To disable the humid mode touch the vaporizer again - the blue filling will disappear and the control unit will return to the dry sauna operation mode.



### Temperature

Touch the heater image for >3 sec. A sub-menu window will open and display the last set (or default) temperature. Set the desired temperature using „+“ or „-“ buttons. Touch the confirmation button to save and exit. This setting can be made also during active heating.



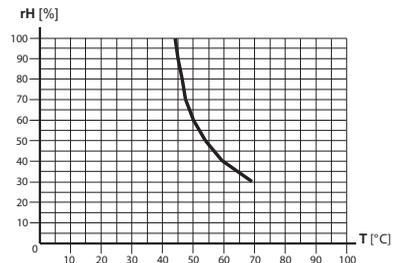
### Humidity

Touch the vaporizer image for >3 sec. A sub-menu window like above will open and display the last set (or default) humidity value. Set the desired humidity using „+“ or „-“ buttons. Touch the confirmation button to save and exit. This setting can be made also during active heating.

With a connected humidity sensor (% sign appears inside cloud) the relative air humidity will be controlled. Without humidity sensor the humidity will be controlled in proportional to time way. "30%" then means 30% of the total heating time. The display will show the  symbol.

Please observe that with a humidity sensor the humidity setting will depend on the pre-set temperature. For safety reasons only the values to the left and under the curve may be selected. For instance at 60°C temperature you can set up to 40% rel. air humidity. In order to set a higher humidity you will need first to reduce the temperature.

If the sauna has been used in dry mode with high temperatures and you switch to the humid mode, the vaporizer will start to work only after the temperature drops under the max. allowed level (70°C).





## Light on / off

Touch shortly the image of the lamp on the display to switch the light on

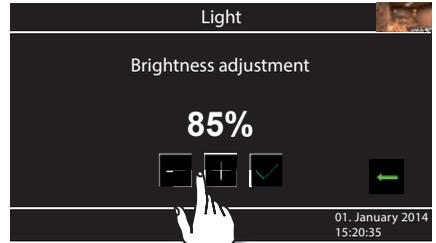
or off. Display indication:  - light off,  - light on.



## How to dim the cabin light

You can quickly dim the cabin light (0-100%).

Press the lamp image on the display for >3 sec. The cabin light will switch (if switched off) and a sub-menu window for light brightness will open. Using „+“ and „-“ buttons you can adjust the brightness. The selected brightness will be shown in %. Confirm the selection to store the setting and exit.



**Attention! Only dimmable illuminants may be used! Otherwise the control unit or the illuminant may be damaged! The warranty will be void in such case.**



## Auto-Start

With this function you can program your sauna to switch on at a later time with up to 24 h delay. Touch the  symbol on the start screen for >3 sec. A sub-menu window with the timer settings will open. Touch the Auto-Start  symbol to select it and touch it again shortly to enter the settings in a new window. Set the desired start time using the „+“ and „-“ buttons. Confirm the setting by touching the green OK button. On the start screen you will now see the flashing start time in low right corner. This time means the real switching time, not the delay until the switching of the sauna.



In order to cancel the activated Auto-Start setting, touch the main On/Off button shortly. The blinking Auto-Start time on the start screen shall disappear.



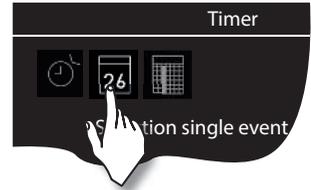
**Attention! This function is only allowed to be used if your sauna is fitted with an approved safety system, which prevents the heater from being switched on in unsafe condition (e.g. a towel forgotten on the heater). Even in the case if your sauna has such an approved system, prove there are no objects forgotten on the heater. Risk of fire!**

## 26 Timer

The timer function allows you to have your sauna switched on automatically with the desired climate condition at some time in the future. You have two possible options:

 - single event (single time switching, not recurrent)

 - week timer (regular, recurrent switching on the given day of the week, e.g. Monday, with up to 4 switching programs per day).



 **Attention!** This function is only allowed to be used, if your sauna is fitted with an approved safety system, which prevents the heater from being switched on in unsafe condition (e.g. a towel forgotten on the heater). Even in the case if your sauna has such an approved system, prove there are no objects forgotten on the heater. Especially by active week timer make sure to check your sauna for safe condition regularly. Risk of fire!

For single event switching touch the single event timer  symbol to select it and then touch it again shortly to enter the settings.

In the sub-menu window use the „+“ and „-“ buttons to set the day, month and the year. In the subsequent window set the start time (hour and minutes). In the next window set the desired operation mode (dry or humid sauna) and finally the desired temperature (by humid mode you can also set the humidity). After the last step the sub-menu window will close. The setting will be shown flashing on the start screen in the bottom right corner (date and time, e.g. 15.01. and 18:30). In order to cancel the activated single event switching, touch the main On/Off button shortly. The blinking timer on the start screen shall disappear. This setting will be also cancelled by a manual sauna switching.

For week timer programming touch the week timer  symbol to select it and then touch it again shortly to enter the settings. A sub-menu window with the days of the week will open (1 to 7).

*Hint: white figures mean that no program has been set. Green figures mean that a program has been set for the given day of the week.*

Touch a figure 1 to 7 in order to select the day of the week, for which you would like to make a setting (e.g. „1“ for Monday). A sub-menu window with available programs will open.

*Hint: You can set up to 4 programs (switchings) per day. The maximum duration of a switching may not exceed 12 h. After 12 h continuous heating time a 6 h pause must be observed as per legal obligations. The next switching may be thus started only after 6 h. If you need a shorter pause time, set the first heating time to less than 12 h.*

*For every switching you can program your personal climate (temperature or humidity) in order to automate the operation of your sauna facility.*

To make the setting touch the program symbol (beginning with 1).

1. Set the required start time (hours and minutes) - e.g. 9:30.
2. Set the required heating time (hours and minutes) - e.g. 3:30.
3. Set the required operation type - dry Finnish sauna or humid sauna (Bi-O heaters only)
4. Set the required temperature.
5. Set the required humidity (Bi-O heaters only).

After the last step the control panel will return to the week overview. All days with assigned programs will be displayed in green. Repeat the above steps for every new program you may require (max. 4 per day). After you return to the main start screen you will see the indication of the next (earliest) switching time flashing in the bottom right corner (e.g. Monday, 9:30)

### How to delete or change the week timer

In order to delete or change the week timer program open the week timer via Timer settings menu.

1. Select the respective day of the week.
2. Select the respective program number.
3. Make the necessary adjustments (start time, heating time, temperature) or...
4. to delete the program, set the start time (hour and minutes) to „--“ and touch the green OK button shortly to confirm and exit.
5. The display will return to the week overview.

**Notice:** By active week timer you will always see the next earliest switching time displayed flashing in the bottom right corner. Also if you programmed several switching times or a combination of the single event switching and week timer switching.



### Profiles

You can save your preferred settings in up to 8 user profiles.

This allows to switch between profiles and quickly load the necessary settings without having to set them again and again.

You can for instance set individual profiles for your family members or by commercial operation you can set profiles with specific climate conditions and assign them to the particular days of the week or time of the day in order to simplify the operation of the sauna cabin and avoid unnecessary repeating settings.

### How to set a profile

Press for > 3 sec on the  symbol on the start screen. A sub-menu window with 8 profiles will open. Select a profile by touching it shortly (the symbol colour will turn white), then touch it again to activate the settings. The control unit will return to the start screen. All settings which you make will be now assigned to the selected profile.



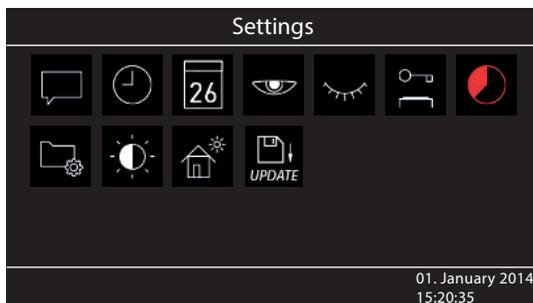
### How to load or change a pre-set profile

Select and load as described above the profile, for which you have set specific settings. If you now switch on the sauna, it will be switched with the climate settings assigned to this profile. You can change the settings at any time, they will stored in the selected active profile.

The figure inside the profile symbol indicates the profile number. For instance  = profile 1.



## Extended settings



Touch the  symbol on the start screen to enter the sub-menu for extended settings.

The sub-menu „Extended settings“ allows you to make additional settings, which normally need to be set only once or quite seldom.

Touch the  symbol on the start screen to enter the sub-menu for extended settings.



### Language

Here you can set the language for the menu navigation and messaging system. Press on the language symbol, in the respective sub-menu select the required language by touching it shortly. All texts will be then shown in the new language. 18 languages are available.



### Time

Here you can set the time of day (system time). Set the hours and minutes using the „+“ and „-“ buttons and confirm your selection. The time is always displayed in the bottom right corner.



### Date

Here you can set the date (day, month, year). Set the day, month and year using the „+“ and „-“ buttons and confirm the setting. Upon the last setting (year) the display will return to the previous menu.



### Screensaver

This setting defines the period of time after which the control panel will enter the screensaver mode if the control unit has not been operated. In this mode the display brightness will be reduced to the minimum and the display will show the current time floating across the screen. Touch the display shortly to return to the start screen.



### Sleep mode

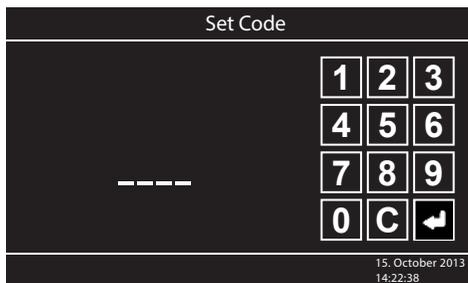
This setting defines the period of time after which the control panel will enter the sleep mode. In sleep mode the display will be switched off. Touch the display shortly to wake the control panel. This function is only available if the heater is not switched on.



## Child lock / Operation lock

You can lock the control panel with the individual 4-digit pin code in order to prevent the unauthorized access.

In order to lock the display go to the settings menu, select the  symbol and touch it again shortly to enter the settings. A sub-menu window with „----“ and a numeric pad will open. Give in your personal pin code using the numeric pad and confirm the setting with . Use “C” button for corrections.



After the confirmation the display will return to the start screen and the unit is now locked.

For safety reasons it is still possible to switch off the heater (interrupt active heating) and to switch the light while the unit is locked. All other functions will be locked.

By an attempt to operate the control panel a pin code prompt will appear.

To unlock the unit touch e.g. the on/off button in order to call the pin code prompt. Now give in your pin code. The unit is now unlocked.



### How to reset the pin code by a locked unit

Touch the on/off or the settings symbols to launch the pin code prompt window.

Touch the display shortly in the top left corner. The four hyphens „----“ will turn for approx. 0,5 sec into „\*\*\*\*“ signs. Now quickly press the  button. The unit will be unlocked and the display will return to the start screen.



## Heating time

Here you can set the desired heating time duration for your sauna bath.

By private use the max. heating time is limited to 6 hours. By commercial use the max. heating time may be limited to 6 hours, 12 hours or set to unlimited. This limitation may be set in hardware during the installation and setup (jumper setting)

Touch the  symbol twice and set the required heating time in hours and minutes. This setting will be then valid for every manual sauna switching in the current profile. You can of course stop the heating earlier at any moment. Upon the setting the display will return to the previous menu.

After switching the sauna on the remaining heating time will be displayed as a countdown clock in the bottom left corner. So you can check at a glance the remaining heating time.

Please notice that after a humid sauna operation the sauna dry program will be switched and the heater will run in dry mode up to 30 minutes. The duration of the sauan dry program can be adjusted in the basis setup. Please contact your authorized dealer (installer).

The heating time setting is adjusted in +/- 1 minute steps from 00:01 (1 minute).



## Operation data

Here you can check the important information concerning your control unit (sauna) operation.



**Firmware** - allows to check the currently installed firmware version. Use "+" / "-" to switch between two possible parameters. „Panel Vx.xx“ - shows the firmware in the control panel, „Mod-LS Vx.xx“ - shows the firmware in the main relay unit (x stands for a number). Press on the green arrow shortly to exit.



**Service intervals** - allows to check the remaining time until the next pending servicing / maintenance of your sauna. The intervals will be set by your dealer (installer) during the installation and setup.



**Contacts** - shows you the contact information of the sauna control unit manufacturer or your dealer (installer). This information will be also displayed by faults along with the error messages.



## Display brightness

Here you can set the display brightness in 3 stages.



## Holiday home mode

With this function you can restrict the access to the control panel with your own pin code down to the bare minimum of functions. All other functions will be disabled and their symbols will not be displayed.

Following settings are possible when the holiday home mode is active:

- Sauna on / off
- Light on / off
- Selection of the operation mode - dry or humid (only by Bi-O heaters)
- Temperature setting
- Humidity setting (only by Bi-O heaters)

To activate this mode touch the  symbol twice in settings menu. A sub-menu window with a pin code input will open (similar to child lock). Given in your personal 4-digit pin code and confirm the setting. The holiday home mode is now active. The display will return to the start screen.

Hint: To abort the pin code input, touch shortly the „Home“ button in the upper right corner.

In active holiday home mode after the sleep mode phase the display will first show the language selection - confirm the preferred language, the display will return to the start screen.

To unlock the unit go to the settings menu. Touch the  symbol twice to launch the pin code prompt menu. Give in your pin code to unlock the control panel.



### How to reset the holiday home pin code

Touch the settings symbol to launch the pin code prompt menu.

Touch the display shortly in the top left corner. The four hyphens „----“ will turn for approx. 0,5 sec into „\*\*\*\*“ signs. Now quickly press the  button. The unit will be unlocked and the display will return to the start screen.



## Potential-free contact

With the potential-free contact (output) you can switch an additional external device on or off. This might be for instance an additional light circuit, music or some other feature. This function has to be enabled in the basis setup and the external device has to be properly connected and configured. The connection and configuration must be carried out only by an adequately qualified personnel. Please contact your dealer for further details.

Please observe that the potential-free contact output only provides a switching signal (on / off).

In the main navigation menu touch the  symbol twice with a short interval. In the sub-menu press on the  symbol to switch the external device on or on the  symbol in switch it off.

Hint: If you cannot find the symbol of the potential-free contact in the settings menu please contact your local dealer to have this function enabled.



## Firmware update

This function allows your to flush or update the installed firmware both in the control panel and in the main relay box. For this an empty SD or SD-HC card will be required (not included in delivery scope). Please contact your authorized dealer for further assistance.



**Attention!** Do not attempt to update the firmware on your own without a competent assistance. Malfunctions or faults caused by an unauthorized firmware flushing/update will lead to the loss of warranty.

## Service and Setup Settings

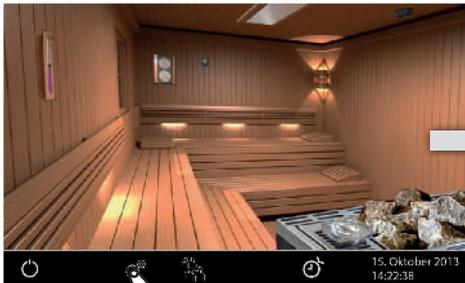
The EmoTouch II+ provides an extensive set of features and tools for the setup and tuning of sauna equipment. **This setup menu is protected with a PIN code and should not be accessible to the end users.**

*Hint: a short version of the operation manual without setup and installation is included with every control unit. Hand it over to the end client and retain this manual for yourself.*

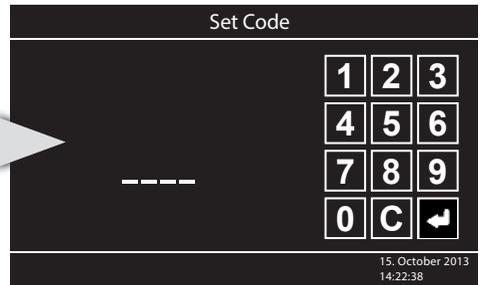
Press the  symbol on the start screen for > 3 seconds to launch a pin code prompt window.

Your PIN code: **5349**

**Please make sure to retain this pin code at the safe place and do not disclose it to the end clients in order to prevent unauthorized access to the basic setup and safety-relevant features.**



Touch for > 3 seconds



Give in the pin code. Correction with „C“. Confirm with the "Enter" symbol.

### Service menu user interface

All options and features are shown in the service menu as symbols. Touch any symbol shortly to select it - the selected symbol will turn white and its description will be shown at the top. Touch this symbol again shortly in order to open the corresponding sub-menu and make necessary settings.



Service menu interface



The selected symbol (the first symbol on the left in the above picture) will be highlighted in bright white. Other symbols are displayed in mid-grey tone.

For every selected symbol the corresponding description will be shown in the top line

## Symbol overview



### Service intervals

Settings of intervals for servicing & maintenance.



### Potential-free contact

Enables or disables the potential-free contact switching function.



### Fan

Setting of the ventilation fan speed.



### Temperature adaptation

Setting for the temperature offset +/- °C.



### Refilling time

Grace time to refill the vaporizer after water shortage alarm.



### Back

Exits and returns to the main menu.



### Afterheating time

Duration of the „sauna dry“ program after humid operation.



### Afterheating temperature

Temperature for the „sauna dry“ program in °C (after humid operation).



### Fan running time

Fan operation time after humid operation.



### Hysteresis

Adjustment of the hysteresis curve.



### Basic-Setup

Setting of the sauna use type and location.



### Reset

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



### Contact details

Displays stored contacts.



### Service intervals

Setting of the intervals for servicing and maintenance. Upon expiry the control panel will remind the user about the pending servicing for a short time upon every switching. 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 by domestic use - 500 hours.

Default setting by commercial use - 2500 hours.



### Fan

Here you can set the fan operation speed in 3 stages or disable it. If activated, the fan will automatically switch on with the heater (synchronous operation). In „sauna dry“ program the fan will always operate at the highest speed.



### Refilling time

Here you can set the grace time which the end user has to refill the vaporizer after the water shortage alarm. If the vaporizer has not been refilled within this time, it will be switched off (overheating protection). This function is especially important for Bi-O heaters with manual refilling.



### After-heating time

Here you can set the time for the „sauna dry“ program after the humid operation. Factory default setting is 30 minutes. After every humid operation the sauna will then switch on in dry Finnish mode in order to dry the cabin. We recommend to use this function in combination with the exhaust fan in order to remove the humidity and dry the sauna cabin.



### After-heating temperature

This functions allows to set the temperature for the „sauna dry“ program. Factory default setting is 90°C.



### Fan running time

Here you can set how long the fan should operate after the humid mode. Factory default setting is 30 minutes. We recommend to use this function in combination with the „sauna dry“ program in order to remove the humidity and dry the sauna cabin.



### Hysteresis

Allows to adjust the hysteresis within a +/- 10°C range. This adjusts the lower and the upper tolerance level around the pre-set temperature and influences how often the heater will be switched on or off by temperature changes. For instance at 90°C target temperature and hysteresis set to 5°C the control unit will switch the heater on at 85°C and off at 95°C respectively. This allows you to better adjust the sauna heater to the specific sauna cabin size and layout.

**Attention!** The smaller hysteresis value will lead to considerably increased number of relay switchings, which reduces the service life expectation of the control unit!

The factory default setting is 5K. Make sure to adjust this value with care!



## Basic Setup

Here you can repeat the essential setup steps - selection between the private and commercial sauna use type, configuration of the safety system availability (for EU located saunas) and the selection of the connected heater type (dry sauna heater or Bi-O heater with vaporizer).

Hint: if you disable the vaporizer, its symbol will then disappear on the start screen.



## 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 steps as by the first switching.



## Contact details

Here you can check the stored contact details. By default the contacts of the control unit manufacturer will be shown. If an optional SD card with personalized firmware is inserted, the individual contact details will be shown.



## Potential-free contact

Allows to enable or disable the potential-free contact switching function. If enabled the corresponding symbol will be shown in the main navigation menu, so that the end users may switch the connected external equipment. By default this feature is disabled. Make sure to observe the special information regarding the connection of the external devices given on page 17.



## Temperature adjustment (offset)

With this function you can offset the displayed temperature to +/- 10°C in relation to the real measured value. For instance by the setting „-10°C“ and real air temperature 90°C the display will show only 80°C.

This allows you for instance to adjust the displayed temperature to match the value shown on the wall thermometer.

**Notice:** This function may bear potential risks, for this reason it should be set with due care by an experienced specialist and has to be properly tested.



## Back (exit service level)

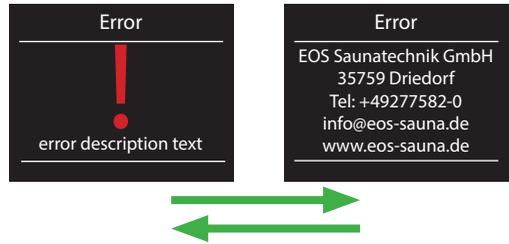
Touch the  symbol in order to exit the service level. Alternatively you can touch shortly the „Home“ button in the upper right corner.

The service level will be automatically closed if you do not operate the control unit for approx. 45-50 seconds.

The control panel will then return to the start screen.

# Troubleshooting (error messages)

The EmoTouch II+ control unit may detect various errors and will display an error message on the screen. The errors will be displayed in text form which allows to identify the reason of the fault easier and to rectify it faster. Additionally the control panel will display on alternating basis the contact information, so that the end user could contact the manufacturer or the dealer immediately without having to search for this information in the manual or other records.



Errors / Error messages	Reason / Troubleshooting
Display remains dark	<ul style="list-style-type: none"> <li>• No power supply - check fuses, check cables.</li> <li>• Switch-Off switch in off position - check the device's main switch for correct position.</li> <li>• Faulty connection to control panel - check the link cable (relay box - control panel) for reliable connection.</li> <li>• Control panel in sleep mode - touch the screen.</li> </ul>
Sensor fault	<ul style="list-style-type: none"> <li>• Faulty connection to the main sensor - check the sensor and cables for reliable connection.</li> <li>• Faulty sensor - get the sensor replaced by the dealer.</li> </ul>
Thermofuse blown	<ul style="list-style-type: none"> <li>• Faulty connection - check the white cable (loose wire, faulty contact, etc.)</li> <li>• Thermofuse blown because of overheating - check the possible reason for overheating, replaced the fuse (one spare fuse is included with every controller).</li> </ul>
Water shortage	<ul style="list-style-type: none"> <li>• Too little water in vaporizer - refill water. Observe the pre-set grace time for refilling, otherwise the vaporizer will be shut-down!</li> <li>• By automatic refilling - check the water supply line, check the FWA water level control device.</li> </ul>
No Bus communication	<ul style="list-style-type: none"> <li>• Check the cable connection between the relay box and the control panel.</li> <li>• Restart the control unit; if the fault persists, contact the dealer or EOS service.</li> </ul>
Unknown error	<ul style="list-style-type: none"> <li>• Check cable connections and restart the control unit; if the fault persists, contact the dealer or EOS service</li> </ul>

If any other unidentified error messages appear, please contact EOS service. Make sure to supply the serial number, fault details and other relevant information.

## The device „Switch-off“ switch

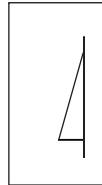
You will find the rocker switch on the left side of the main relay box. You can completely disconnect the control unit from the mains using this switch.



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

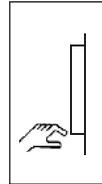


### Device's main switch



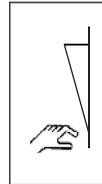
Device switched on.  
(default Position I)

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.

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



Light enabled;  
Device switched off.  
Position II.

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



Device switched on.  
Position I.

## **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](mailto:servicecenter@eos-sauna.de)

[www.eos-sauna.de](http://www.eos-sauna.de)

Please keep this address in a safe place together with the installation guide.

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. Prices and Payment Terms**

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

- Disassembly/assembly and electrical (de-) installation
- Transportation, postage and packaging
- Function testing and troubleshooting including inspection and repair costs

There shall be no third-party billing.

## **III. Performance 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 make the replacement parts necessary for the service available 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.

## **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 Warranty**

The manufacturer's warranty 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 assembly instructions and instructions for use.

- The warranty period shall commence from the date on which proof of purchase is provided and shall be limited, in principle, to 24 months.
- Warranty services shall be performed only if the proof of purchase relating to the equipment can be presented.
- Any and all warranty claims shall become void if modifications are made to the equipment without the manufacturer's express consent.
- Any warranty 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 warranty claims, the serial and article numbers must be indicated together with the designation and a meaningful description of the fault.
- This warranty shall cover defective equipment parts, with the exception of normal wear parts. Wear parts shall include, among other things, light sources, starters, gas or oil pressure dampers as well as acrylic glass panes, tubular heating elements and sauna heater 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 assembly and installation work, including 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 specialist trader responsible and shall be exclusively handled via the latter.

The manufacturers General Terms and Conditions of Business, as amended, shall apply in addition to the foregoing terms and conditions of service.