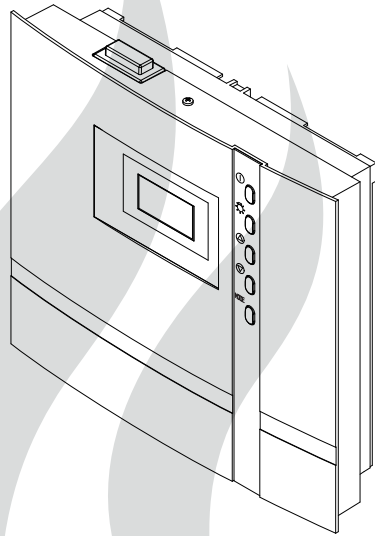


ECON D1

sauna control unit



EN Installation and operating instruction

Made in Germany

Firmware R4.35

Print no. 29344711en / 34.19
Technical changes reserved



English

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Preface

Dear customer,
you have purchased a high-quality electronic device with which you will enjoy your sauna for many years to come. 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 9001:2015.

This detailed installation and operation manual has been prepared for your information. Pay particular attention to the **important notes** and the information on electrical connection.

We wish you a restorative and eventful sauna bathing experience.

General information about sauna bathing

Please note that an optimal interaction between sauna cabin, sauna heater and sauna control unit is mandatory for a pleasant sauna climate in your cabin. With this high-quality sauna control unit you can “operate” your sauna system, and thanks to the many individual programming options, surely you will quickly find the setting which suits you best.

Perception in the sauna is very subjective, therefore, it really requires your own perception or that of your family to find the most suitable settings.

The control units are supplied with the preset typical climate values for a classic Finnish sauna or for models with humidity control, as well as for a sauna with humidity operation.

The following operating instructions describe how to pre-select “your” climate in the cabin. Read these instructions carefully, so that you

quickly and easily find your way through the programming process. Please note the variation in temperatures in the cabin while sauna bathing. The hottest area is directly below the cabin ceiling, whereas there is a steady temperature gradient towards the floor of the cabin. Inversely, the relative humidity is lowest directly below the cabin ceiling and the highest by the cabin floor.

For safety reasons the temperature sensor with the overheat safety shutdown is located on the cabin ceiling above the heater, as this is usually the hottest area in the cabin.

Thus, there will always be temperature variations between the temperature sensor of the control unit and the thermometer in the cabin.



For example, when pre-setting the cabin temperature to 100 °C, the thermometer inside the cabin may show 85 °C - 90 °C. This is in accordance with the typical climate inside the cabin.

Only use sauna-suitable (up to 140 °C temperature-resistant) cabin lights. Always pay attention to hygiene. Always use hand- or bathing towels to avoid getting perspiration on the wood.

For control units with vaporizer connection (optional), we recommend to reheat or dry the cabin after each humid operation, in order to protect your cabin from possible damage due to the humidity mode. In addition, in poorly ventilated rooms, a ventilation fan can be used to remove the used moist air.


To avoid drafts, you should avoid using any ventilation system while sauna bathing. It should only be used if recommended by the cabin manufacturer.

General safety precautions


- This device may be used by children (age 8 and above) and by persons with reduced physical, sensory, or mental disabilities, or inadequate experience and knowledge, if they are supervised or if they have received adequate instructions 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 only be done 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 installation instructions, especially when installing the temperature sensor. The temperature above the heater is critical for the


temperature setting. The temperature can be held within operating parameters and a minimal deviation at the bench level of the sauna cabin can be achieved only if the device is installed correctly.

- The device may only be used as intended as a control unit for sauna heaters up to 9 kW (up to 36 kW when combined with a power extension unit).
- 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 heater manufacturer.
- Make sure to observe the specifications and instructions of the sauna cabin manufacturer.

 **ATTENTION:** For control units with remote control functions*, a protection against switching on if the heater is covered is required. (e.g. cover protection rail type 1-5).

**Remote control = 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. (from EN 60335-1)*

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

 Inspect the sauna cabin before each use! In particular, ensure that no objects have been stored on the sauna heater or the IR-radiator, if applicable.

Risk of fire!

 **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.

Scope of delivery

(changes without prior notice reserved)

The package contents includes:

1. Control unit
2. Temperature sensor, consisting of: sensor board with overheating protection fuse, KTY-sensor, sensor housing, two 3x25 mm fastening screws and 2,0 m sensor cable.
3. Plastic bag with three 4x25 mm fastening screws.
4. 5 rubber cable glands
5. 1 replacement overheating protection fuse
6. Installation and operating manual



Technical data

Voltage (power supply)	400 V 3 N 50 Hz AC
Switch output	max. 9 kW resistive load (AC1 mode).
Fuse	3 x 16 A
Heating time limit:	6 h
Display	LCD display 40 x 22 mm, graphic
Dimensions (HxWxD)	220 x 250 x 67 mm
Protection type	IPx4 acc. to EN 60529 splashwater protection
Temperature control range	30 to 115 °C
Sensor system (temperature)	KTY-sensor with safety temperature limiter 139 °C
Control characteristic	Two-point control with fixed hysteresis of 3K. For control via the stove sensor offset of 7K to compensate the higher temperatures directly below the cabin ceiling
Light	max. 100 W
Ambient temperatures	-10 °C to +40 °C
Storage temperature	-20 °C to +70 °C
Temperature display stove sensor	Current value on the stove sensor minus 7K to compensate the higher temperatures directly below the cabin ceiling

Installation of the control unit

Wall installation

The control unit may only be mounted outside the cabin. For sauna rooms it is advisable to select the outside wall of the cabin to which the sauna heater is fixed from the inside as mounting position. If ductwork is already provided for electrical installations then the position of the control unit is predetermined by that. Please follow the instructions for installation:

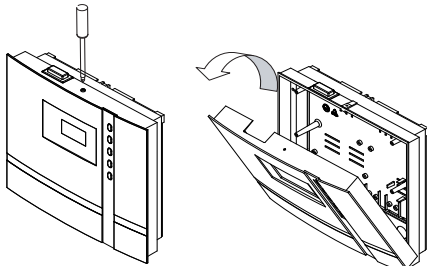


Fig. 1

Remove the control device cover. In order to do this loosen the screw at the top of the housing and pull the housing top upward while swiveling (Fig. 1).

Surface-mounted installation

1. The 3 mm diameter boreholes for the supplied wood screws 4 x 20 mm to be drilled according to the dimensions shown in Fig. 3 + 3.1.
2. Insert one of the wood screws into the top center hole. The control unit is hooked onto this screw. Therefore, leave the screw out by approx. 3 mm (Fig. 3.2).
3. Hook the control unit onto the 3 mm protruding screw in the upper mounting hole. Insert the supplied rubber grommets into the openings at the rear wall of the housing and insert the connecting cable through these openings.

Fasten the housing bottom at the two bottom openings (Fig. 4) firmly to the cabin wall.

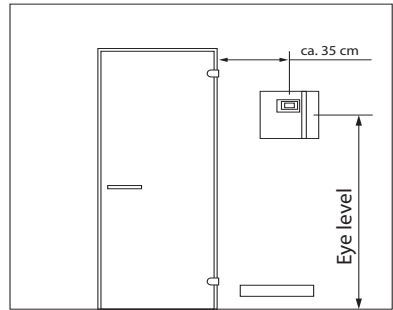


Fig. 3

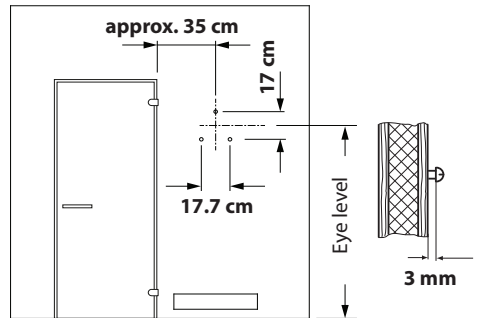
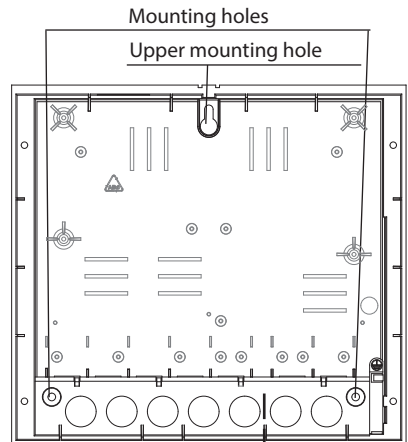


Fig. 3.1

Fig. 3.2



Feed-through for example:
 Mains cable
 Heater cable
 Evaporator cable
 Lamp
 Fan

Feed-through for:
 sensor lines

Fig. 4

Recessed installation

1. Cut out a wall section that is at least 3.5 cm deep according to the dimension in Fig. 5.

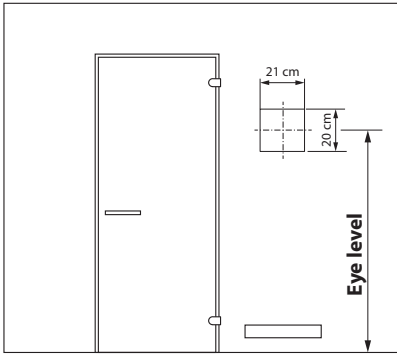
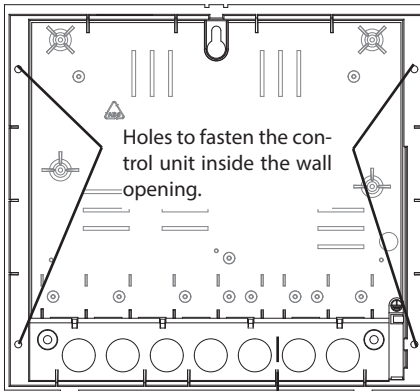


Fig. 5

Insert the supplied rubber grommets into the openings at the rear wall of the housing and insert the connecting cables through these openings.

Place the control unit into the wall opening and fasten it with 4 wood screws.



Feed-through for:

- Mains cable
- Heater cable
- Vaporizer cable
- Lamp cable
- Fan cable

Feed-through for:

sensor lines

Fig. 6

Connecting the 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. If it is necessary to lay the cables down together, or if the line is longer than 3m, use a shielded sensor cable (4 x 0.5 mm²).

Connect the shielding 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. Illust. 7-9 give you an overview of the mounting point of the sensor.

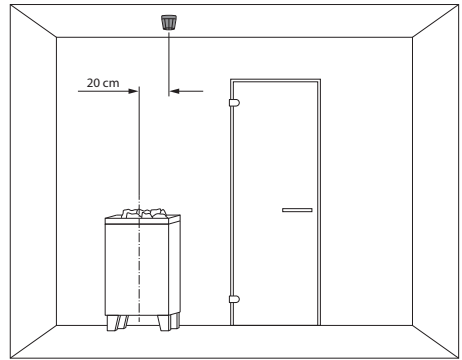


Fig. 9

2. Drill a hole to lead the cable through, preferably through the middle of one of the wooden boards.
3. Lead the sensor cable through the drilled hole and attach it to the sensor line according to Illust. 10.
4. The cables for the limiter (white) and the temperature sensor (red) are connected to the sensor circuit board acc. Fig. 10. Engage the sensor board into the casing.
5. Lead the sensor cables through the right cable intake into the control unit. Install the sensor cables inside the control unit as shown in Fig. 11. Connect the sensor cables as shown in Fig. 12. In order to do this, pull the plug **X2** from the circuit board and plug it back in after the connection.



Installation of the main sensor

1. Mount the oven sensor in cabins up to 2 x 2m according to fig. 7 and 9, in larger cabins according to fig. 8 and 9.

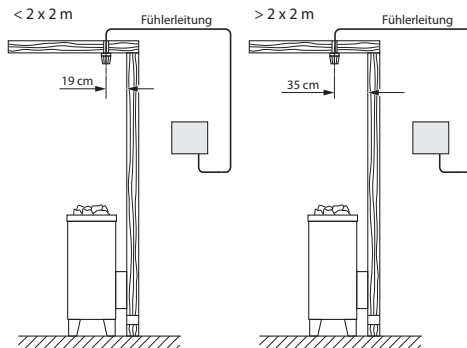


Fig. 7

Fig. 8

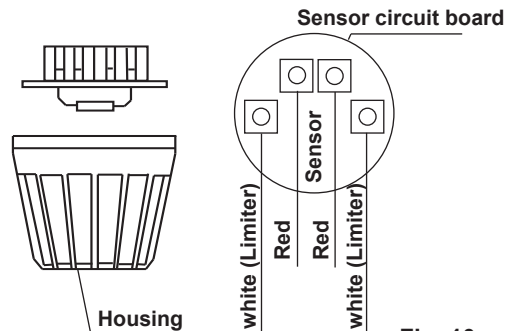


Fig. 10

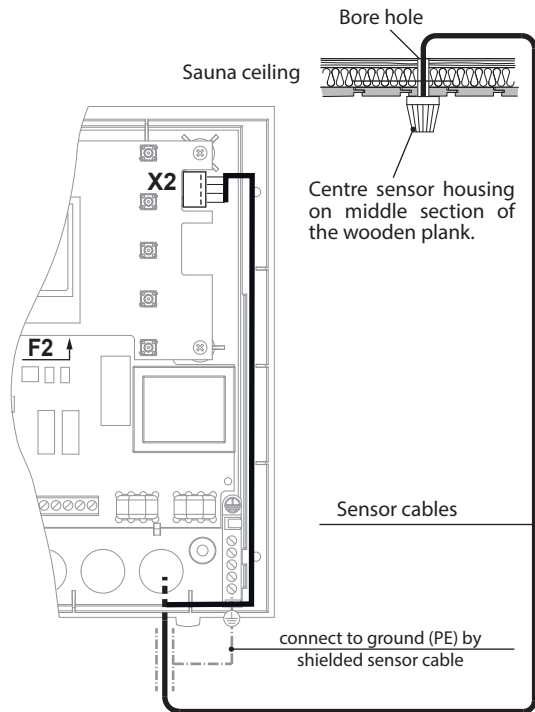


Fig. 11

Attention! Mixing up the connection on X2 connection can cause the fuse F2 to blow and damage the control (for replacement please refer to the chapter „Device fuses“)

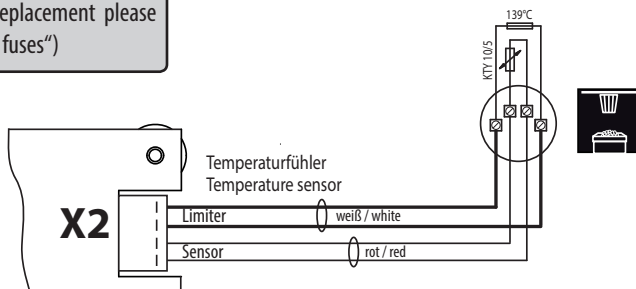
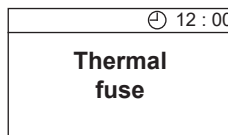


Fig. 12

6. After completed installation and before commissioning of the control unit the line for overheating protection fuse must be checked for proper functionality. For this disconnect one of the white cable wires at X2 connector. The respective error message appears in the display. Re-connect the wire.



Electrical connection

The electrical connection may only be done by a certified electrician in compliance with the guidelines of the local utility company and the VDE.

In general, there may be only one fixed connection to the network; therefore equipment should be provided that makes it possible to disconnect the system with all poles from the network with a contact opening width of minimum 3 mm.

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

The power supply line is run to the control unit and connected to the power input terminals.



Attention! Danger to life!

Swapping the phase wire with the neutral wire by control unit connection can damage the control unit and override the safety-relevant components.



Connecting the sauna lamp

The sauna light must comply to the water splash proof protection class (IPx4) and must be resistant to the ambient temperature. The sauna light can be mounted anywhere, but not above the stove or within 50 cm range around it (not in the uprising hot air flow).



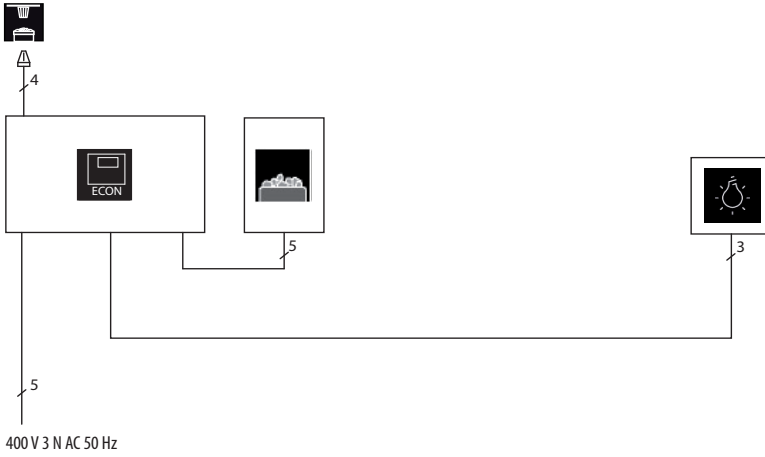
Connecting the sauna heater

Install the sauna heater in front of the air inlet according to the manufacturer's installation instructions.

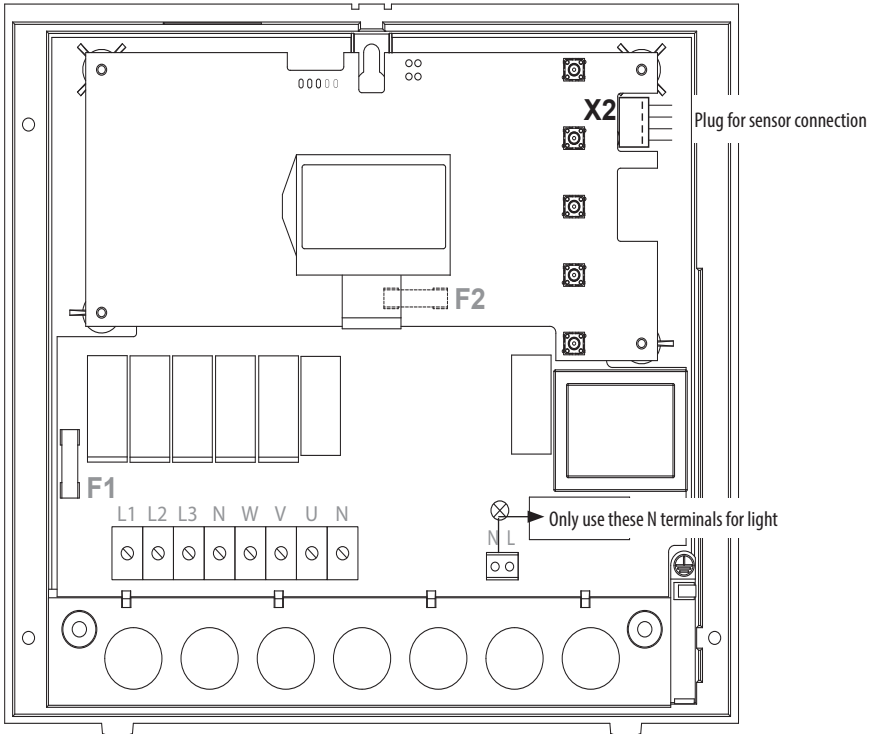
Run the silicone line through the ductwork to the power unit and connect it to the appropriate terminals as directed in the wiring diagram.

Note: If there are no hollow tubes, drill a hole next to the vent inlet opening and feed the stove supply line(s) to the outside through this hole to the respective terminals on the control unit. The silicone line needs to be hidden to protect it from external influences. Therefore use a suitable cable duct or a PVC tube to guide the line to the control unit.

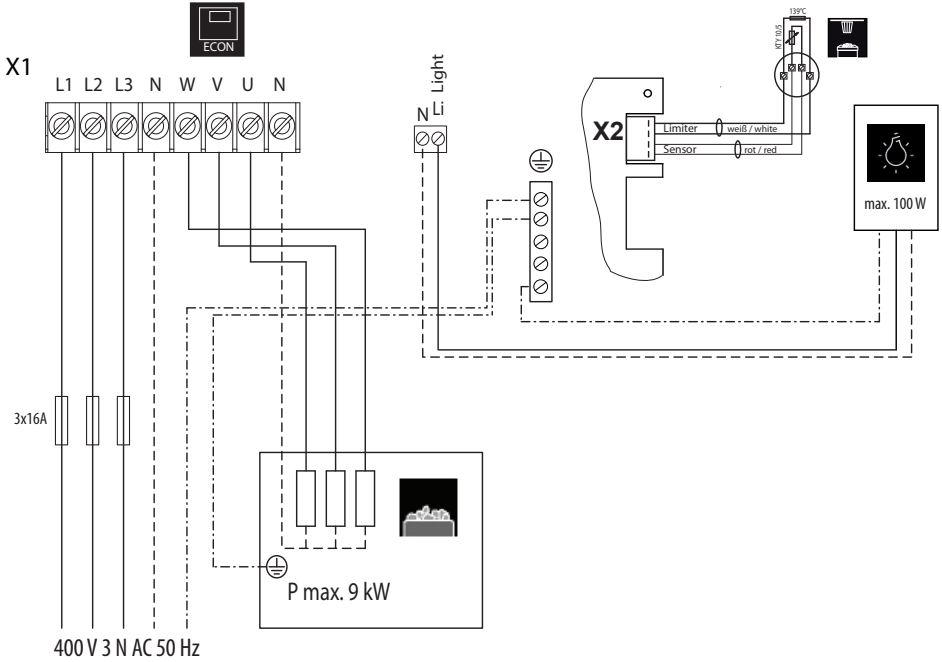
Installation diagram



Terminal arrangement on the circuit board



Connection diagram for sauna heaters up to 9 kW



⚠ Caution: Always connect the neutral conductor (N) of the sauna heater.

⚠ Caution: Pay attention to the correct fuse of the connection lines!
Each phase must be individually secured. Pay attention to the appropriate cable cross-sections.

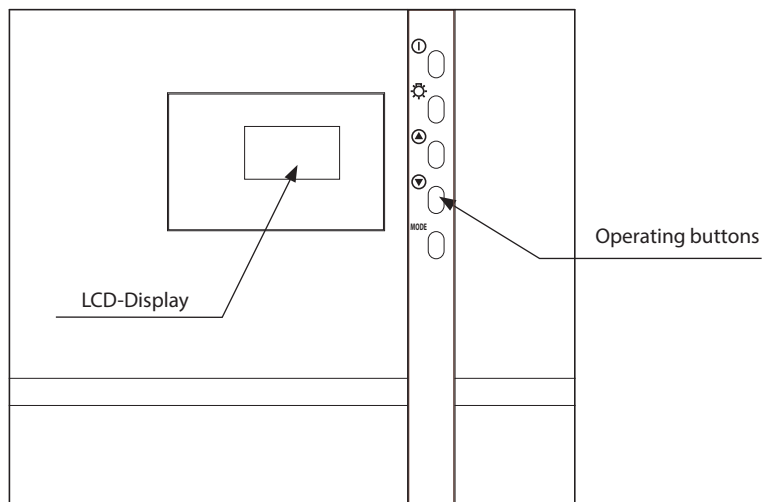
Operation

Once the system has been installed with all components and all covers have been fixed, you can put the control unit into operation.


Please read the following information to get yourself familiar with the functions and capabilities of your sauna control unit.


General information

The user interface




Operating buttons

 = on / off (stand-by)

 = cabin lighting

 = next function / increase value (up)

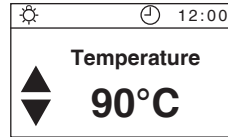
 = next function / decrease value (down)

MODE = programming mode / save setting

Default display Stand-by

is shown if the system is in Stand-by mode.

The system also returns to this screen from other menu items, if there is no activity for >15 seconds.



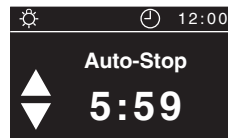
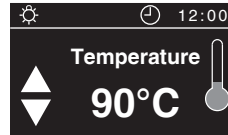
Default display in operation

is displayed when the system is operational. The display changes between the set temperature and the remaining heating time (Auto-Stop). The system also returns to this screen from other menu items, if there is no activity for >15 seconds.

Illustration of the heating performance:

During the heating phase, the thermometer fills in the right part of the display.

Once the target temperature has been reached, the thermometer is displayed as filled.



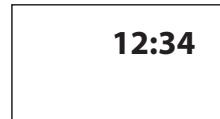
Energy-saving display

If the unit is not used, it will switch into energy-saving mode.

A moving time is shown after 5 minutes, similar to a PC screensaver. The back light for the display is switched off after an additional 15 minutes.

You can return to the basic standby screen by pressing any button.








To start heating press the On/Off button for >3 seconds.



Symbol description



The following is shown in the top area of the display:

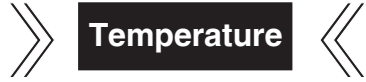
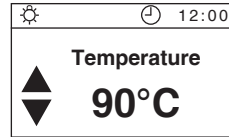
	Light-Symbol	<ul style="list-style-type: none"> • Light switches on automatically when heating is switched on • Light stays on 30 min. after the heating stops • Manual light switching is possible at any time
	Clock-Symbol	<ul style="list-style-type: none"> • Time indication
	Time	<ul style="list-style-type: none"> • Displays the time of day
	Operation lock  	<ul style="list-style-type: none"> • Locks all buttons but still allows to switch off heating if the sauna is currently running. • Light still can be switched on and off
	Holiday home mode Holiday park mode	<ul style="list-style-type: none"> • Holiday home mode =symbol static, restricted access mode • Holiday park mode =symbol flashing, restricted access, only on/off possible

Operation principle

For settings press shortly the **MODE** button.

The first parameter (temperature) will be selected and shown inverted.

Use the ▲ or ▼ buttons to navigate to the required parameter which you would like to adjust.



Parameter values that flash on the display can be changed and are shown in this manual as displayed.



Press the **MODE** button again shortly to start the adjustment for the selected parameter.

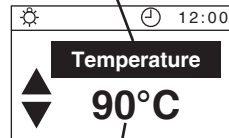
The background of the value of the selected parameter will be flashing.

Now you can adjust this value using the ▲ or ▼ buttons.

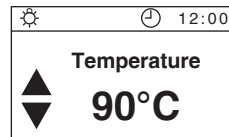
All settings made in the standby mode should be confirmed by pressing **MODE** for >3 secs and are then saved in the current profile.

The parameter stops flashing and the new value becomes valid until it is changed again.

Modifiable parameter



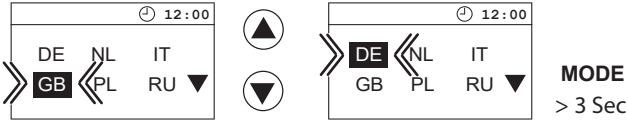
Modifiable value



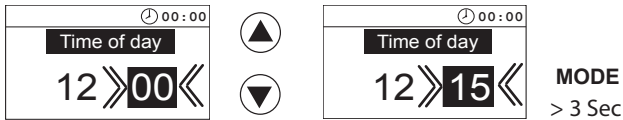
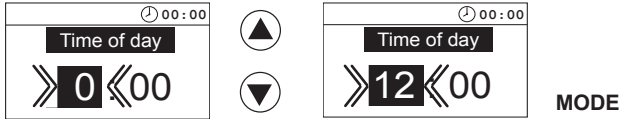
If no button is pressed for >15 secs, the device returns to the standard screen. Any changes made will not be saved.

Initial commissioning

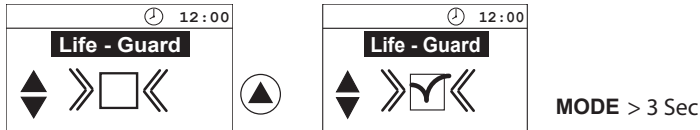
Set language (DE, GB, IT, NL, PL, RU, FR, SE, ES, CZ, FI, SLO)



Set time of day (0:00 bis 23:59)



Set Life-Guard function

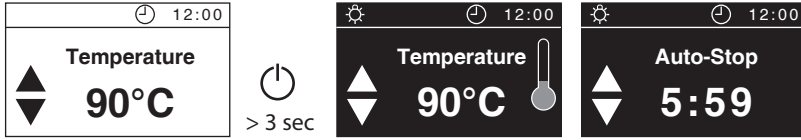


Enable of disable Life-Guard

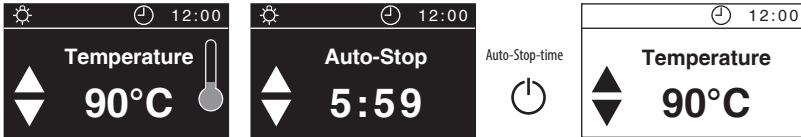
Select and confirm one of the following:

- disable, or - enable.

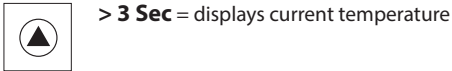
Switching your sauna on in a dry (Finnish) mode



Switching your sauna off (dry sauna mode)



Temperature query (only when heating is on, not in stand-by or during sauna-dry mode.)



Finnish

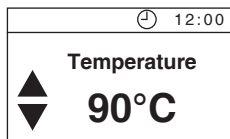


Individual Settings

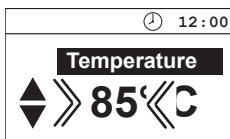
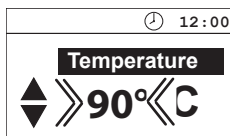
The following are options for adapting the control systems to your individual needs. The parameters can be adjusted both in standby or in operation mode and the changes are then saved in the device. Changes made in operation mode will apply immediately once saved.

Cabin temperature Setting range: Dry sauna operation 30 - 115°C

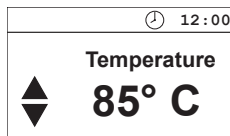
In Stand-by



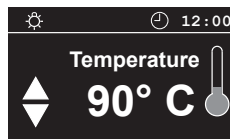
MODE



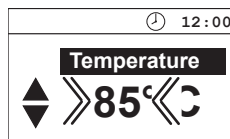
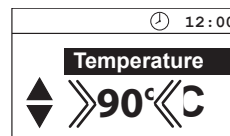
MODE > 3 sec.



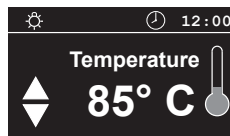
In operation



MODE



MODE > 3 sec.

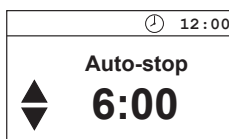
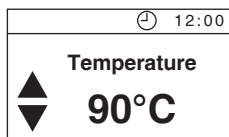


Auto-stop / heat-up time limitation

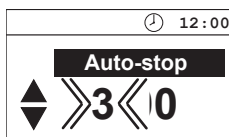
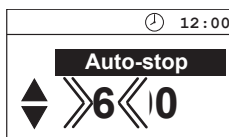
Auto-Stop defines the heating time limitation. The sauna unit automatically turns off once this time has expired.

A time between 0:30 to 6:00 can be set.

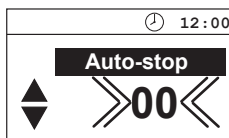
In Stand-by



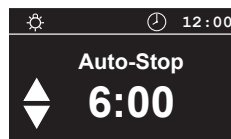
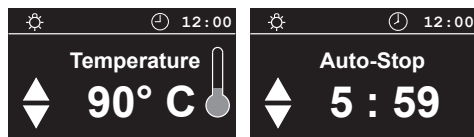
MODE



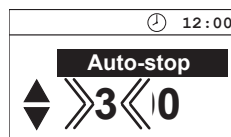
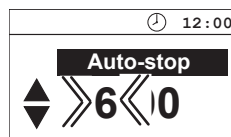
MODE



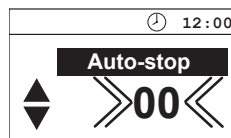
In operation

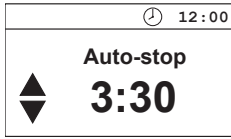
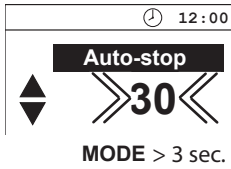


MODE

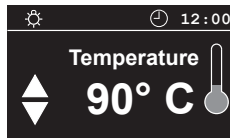
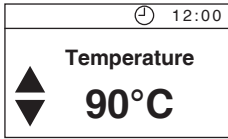
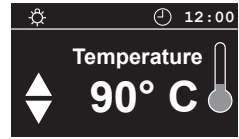
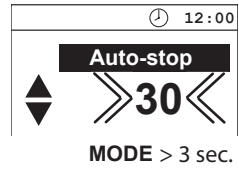


MODE







15 sec. / > 3 sec.

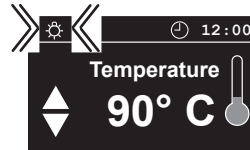




Cabin lighting

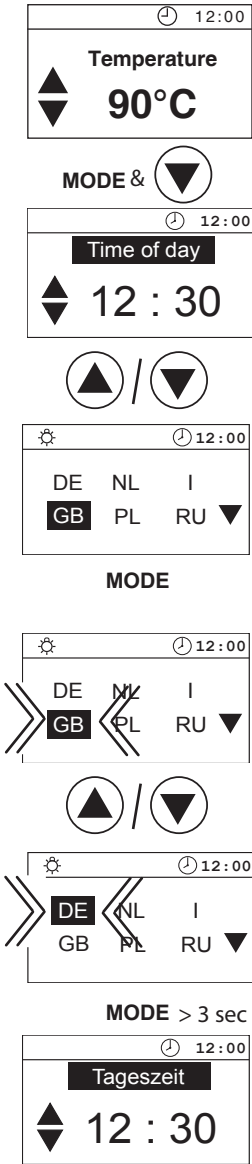
Every time that the sauna system is activated, the cabin lighting is automatically switched on. The  symbol is shown at the top left of the display. If the sauna system is switched off, the cabin lighting is also switched off after a delay of 30 minutes.

Regardless of the operational state of the sauna system, the cabin lighting can be switched on or off at any time via the  button.

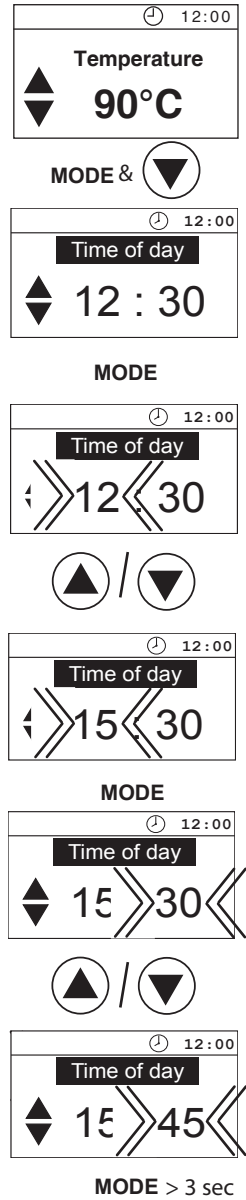


Advanced settings

Change language



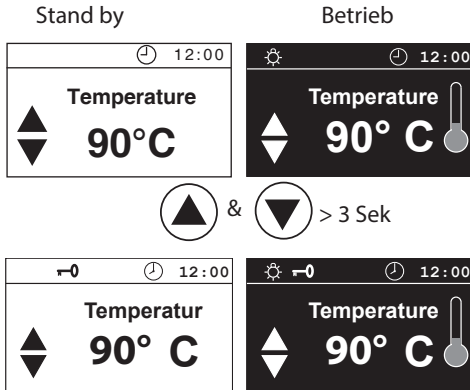
Change time



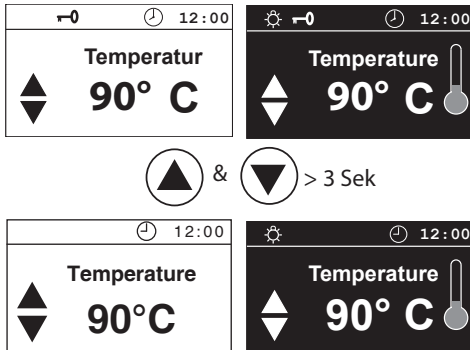
Activate / deactivate the child lock

If the child lock is activated (the key symbol is visible in the top section of the display) only the cabin lighting can be switched. All other buttons are without function. The child lock can be activated / deactivated in Stand-by as well as in operation. The unit can still be switched off when in operation.

Activate



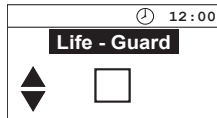
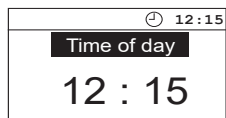
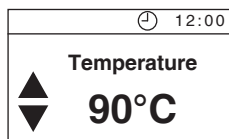
Deactivate



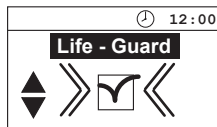
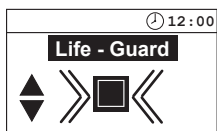
Activate / deactivate the Life - Guard

Life - Guard is a settable relatively short time, e.g. 20 minutes, after which the sauna unit is switched off, except for the cabin lighting. After this time has expired the unit can be switched on again by pushing the **MODE**-button for the set time.

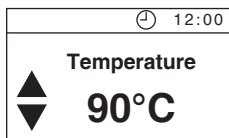
Activate



MODE

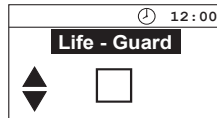
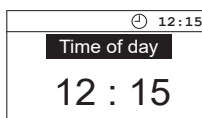
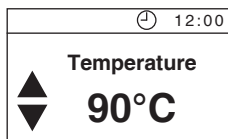


MODE > 3 sec.

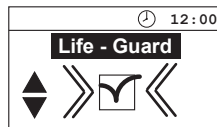
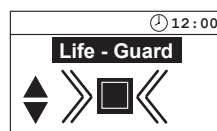


Life Guard activated

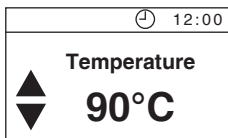
Deactivate



MODE



MODE > 3 sec.



Life Guard deactivated

Life-Guard

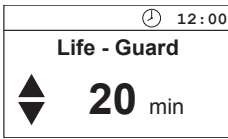
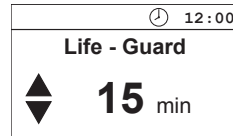
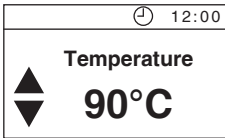
Here you can set a short period of time after which the sauna will be automatically switched off (interrupted) and may be immediately restarted for the same period of time by pressing the **MODE** button.

For example, set up 15 minutes.

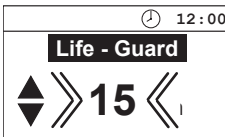
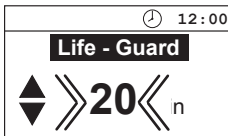
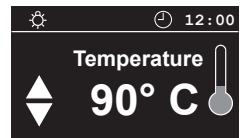
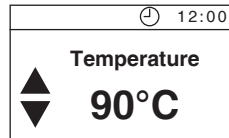
If you do not press the button again after 15 minutes, the sauna heater will switch off. After completed confirmation, it will run again for 15 minutes, etc.

The setting of the „Life-Guard“ time may be made only in stand-by mode. The „Life-Guard“ function must be activated in the basic set-up menu and shown on the display.

In stand-by

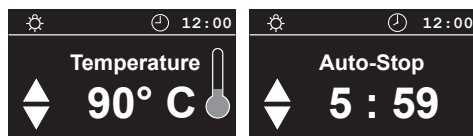
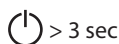
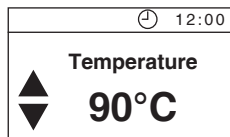


MODE



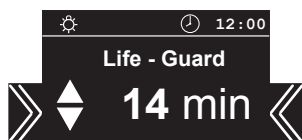
MODE

Switching on the sauna unit with Life - Guard



The sauna heater will now heat normal, without „Life - Guard“-time. To activate the function „Life - Guard“.

MODE

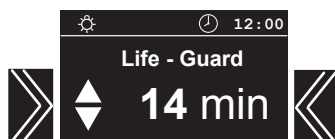


After the „Life - Guard“ - time has expired, the sauna heater is switched off and the set „Life - Guard“ - time blinks.

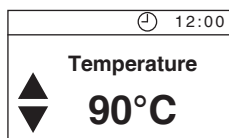


Restart

MODE



or switch off the system



Note:

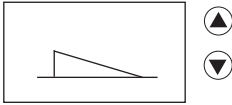
In the Life-Guard mode, no changes can be made to the temperature if the device is operational (active heating).



Holiday home mode

The holiday home mode allows the control system to be blocked so that only the most essential functions are visible and can be set. The menu language must be selected every time before use.

The holiday home mode is activated and deactivated by keeping the keys Up+Down pressed whilst activating the system via the Switch-Off.

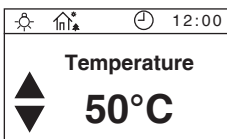


This setting is saved permanently. When the holiday home mode is active, a house symbol is permanently visible in the display.



The control system functions as follows in the holiday home mode:

- The language is queried every time the control system is activated or when the system returns from the energy saving mode
- The pre-select time, life-guard, auto-stop and child lock are not available
- The configuration menu with the time, language, fan setting and life-guard is not available
- Only the temperature can be set, and the light activated



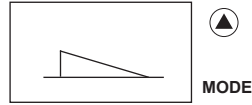
Holiday park mode

Symbol flashes

In the holiday park mode, all functions are deactivated apart from Sauna and Light (On/Off).

None of the settings, such as language, temperature, auto-stop, are available.

The holiday park mode is activated and deactivated by keeping the keys Up+Mode pressed whilst activating the system via the Switch-Off.

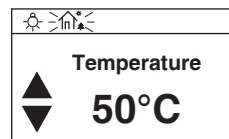


This setting is saved permanently. The house symbol in the display flashes when the holiday park mode is active.



The control system functions as follows in the holiday park mode:

- All values must be set before the holiday park mode is activated
- The pre-select time, life-guard, auto-stop, child lock and holiday home mode are not available
- The configuration menu with the time, language, fan setting, light setting and life-guard is not available
- The temperature cannot be set
- Only the Sauna On/Off can be set, and the light activated



Device fuses


The control unit is fitted with two protective fuses which are mounted on the main relay board of the unit. These fuses protect the electronics on the board and the light outputs.

Notice: fuses do not mean absolute protection, in an unlikely case of a power surge or a short circuit with particularly fast voltage increase the electronic components may be still be affected.

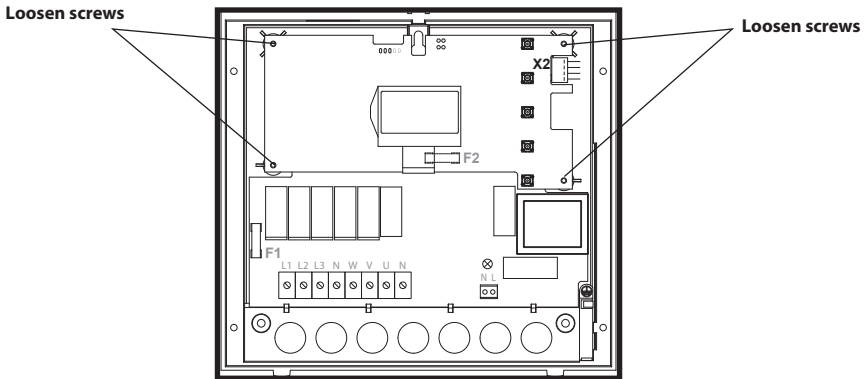
Unit fuses

F1 = T 2A H 250V Fuse electronics primary and light (*fan, if available)

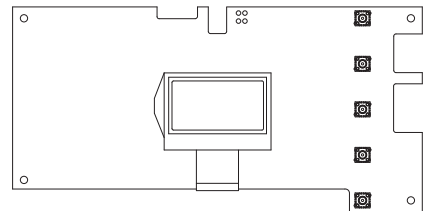
F2 = T 315 mA L 250V Fuse of the electronics secondary

 Only allow a specialist to carry out this work. Before working on the open control unit, disconnect all poles from the mains. (Switch off the master switch, or trigger the FI switch). **Risk of an electrical shock!**

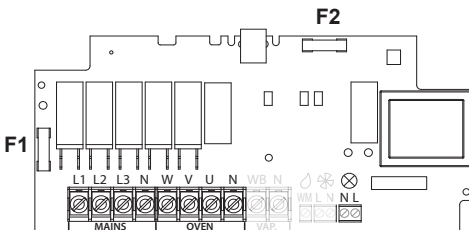
Loosen the four screws on the opened unit that hold the circuit board.



Display PCB



Relais PCB*

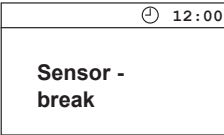
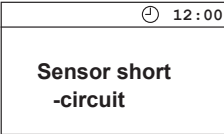
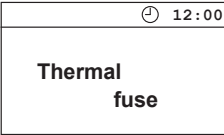


*) specific layout of the board and its components may vary slightly from model to model.

Error messages

The control unit continuously monitors the sensor for short circuits and interruptions.

The error messages appear as follows:

Display	Cause	Remedy
	<p>= interrupted room sensor circuit The temperature sensor (KTY) is faulty, or the line to the temperature sensor is interrupted.</p>	Arrange for a specialist to check the lines and KTY. KTY at 20°C approx. 1.9 kΩ replace if necessary.
	<p>= short-circuit in the room sensor circuit temperature sensor (KTY) is faulty, or the line to the temperature sensor has a short circuit.</p>	Arrange for a specialist to check the lines and KTY.
	<p>= interrupted limiter circuit The temperature fuse (139°C) has triggered or the line to the temperature fuse is interrupted.</p>	Arrange for a specialist to check the lines and temperature fuse.

The device „Switch-off“ switch

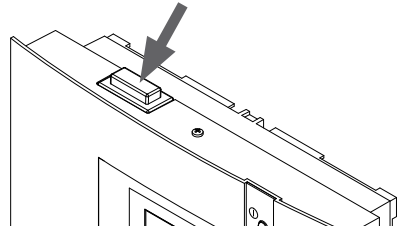
The control unit is equipped with a “Switch-off” rocker switch.

You will find this switch on the top side of the housing by Econ series control units.

This switch allows to switch the control unit to the 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.

Notice: if you leave the Econ control units switched off for more than 24 h the time setting will be lost. Other settings will be saved. You will have to repeat setup and re-confirm the settings.

Switch-off rocker



Note!

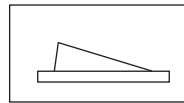
When switching the switch-off rocker from Pos. I to Pos. II, you will be at the intermediate position 0 for approx. 1s.



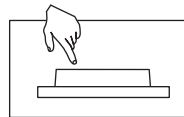
Attention! Parts of the printed circuit board will still remain energized in the switched off condition! Risk of electric shock!

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).



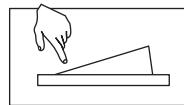
Device switched on.
(default Position I)



Device switched off
(completely);
Position 0.

Switch setting II

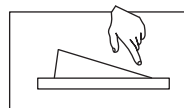
To turn the light on in the cabin while the unit is still disconnected (for maintenance and cleaning) push the left side of the rocker to the second latch (**switch setting II**).



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 stand-by mode.



Device switched on.
Position I.

Reset control to factory settings:

Restart control via the switch-off rocker and keep the buttons **MODE**, ,  pressed. After the appearance of the picture, press the keys **MODE**,  for > 3 sec.



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