EOS

ECON D2

GB Assembly and operating instruction

Made in Germany

$C\epsilon$ **IP x4**

English

Table of Contents

Package contents

(subject to change)

Included with the control unit are

1. temperature sensor, consisiting of: sensor board with overheating protection fuse, KTY-sensor, sensor housing, two 3x25 mm fastening screws and 2,0 m long sensor cable.

2. a plastic bag with three 4 x 20 mm fastening screws.

3. a replacement overheating protection fuse

Technical data

Rated voltage:	400 V 3 N 50 Hz AC
Breaking capacity:	max 9 kW resistive load (AC 1 operation) upgrade to 36 kW possible through connection to circuit breakers
Heating time limit:	6 h, 12 h
Display:	Display 65 x 37 mm
Dimensions (HxWxD):	220 x 250 x 67 mm
Protection type:	IPx4 in accordance with EN 60529, Splashproofing
Control range, sauna operation:	30 to 115° C
Sensor system:	KTY sensor with safety temperature limiter 142°C
Type of regulation:	Digital two-point control
Light:	max. 100 W
Environmental temperature	-10°C bis +40°C
Storage temperatures:	-20°C bis +70°C

GB

General information concerning sauna bathing

Dear customer,

with purchase of this sauna control unit you opted for a superior quality, high-tech electronic device which was developed and manufactured to meet the highest standards of quality and safety.

Please note that an optimal interaction of sauna cabin, sauna oven and sauna control unit is mandatory for a pleasant sauna climate in your cabin.

With this sauna control unit you can operate your sauna heater and thanks to the individual programming settings you will surely soon find the setting that suits you best.

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

By default the finnish sauna is preset to 95°C. For steam operation the values are set to 60°C and 60% humidity.

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

Please note the variation in temperatures in the cabin while sauna bathing. The hottest area is directly under the cabin ceiling, whereas there is a steady temperature gradient towards the floor of the cabin. Inversely, the relative humidity is lowest directly under the cabin ceiling and the highest on the cabin floor.

For safety reasons the temperature sensor with the overheat limiter is located on the cabin ceiling above the oven, since this is the hottest area in the cabin.

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

For the cabin light use only light bulbs. Do not use fluorescent lamps, energy saving lamps and gas discharge lamps.

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

Always observe hygiene. Always use hand- or bathing towels, to avoid getting perspiration on the wood.

To protect your cabin from possible damages due to steam operation, we recommend reheating or drying the cabin after every steam bath.

In addition, a fan can help to dissipate used humid air in badly ventilated areas.

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

Always make sure no objects are located on the sauna oven before starting the heating cycle.

General safety precautions

- his device has not been designed for being used by persons (including children) that are physically or mentally handicapped or have sensory disabilities. Moreover, it is not allowed to use this device without sufficient experience and/or knowledge, unless these persons will be supervised by persons responsible for their security or in case they have been instructed how to use this device.

- 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 breaking capacitor).

- 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.

⚠️ When using control units that offer the possibility of external access (GSM-module, remote button, etc.) or time-delayed switching (preselection time, weekly timer, or similar) a trigger guard with covered heating unit is required. (cover protection type 1-5 or S-Guard).

⚠️ **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 mention to the fact that in case of a warrenty claim, you are kindly requested to present a copy of the invoice of the executive electric shop.

Installation of the control unit

Wall mount fixture

The control unit may only be mounted outside the cabin. 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:
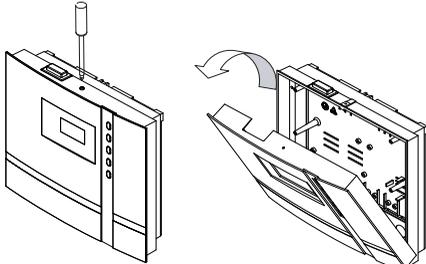

Fig. 1

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 swivelling (Fig. 1).

Wall mounting

1. The 3 mm diameter boreholes for the supplied wood screws 4 x 20 mm are 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.

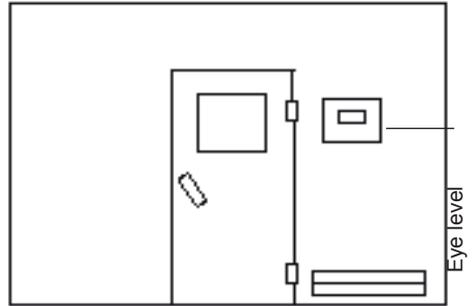Eye level

Fig. 3

approx. 34 cm

17 cm

17.7 cm

Eye level

3

Fig. 3.1   **Fig. 3.2**

Mounting holes

Upper mounting hole

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

Feed-through for sensor lines
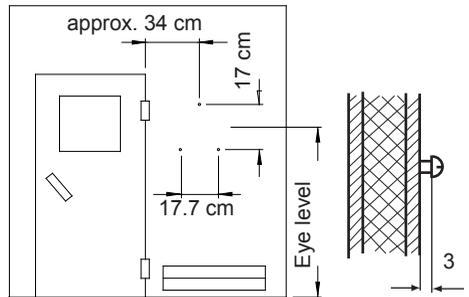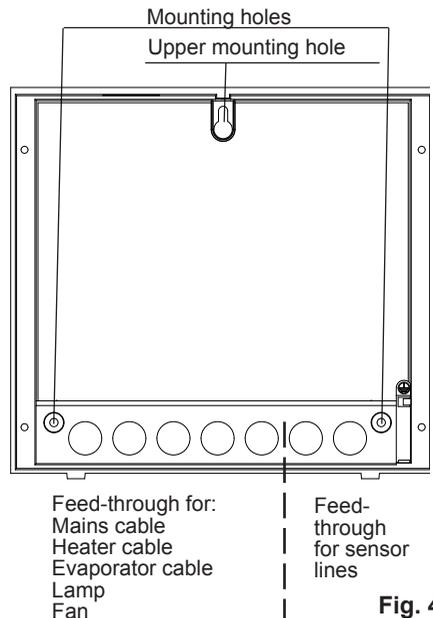
Fig. 4

Wall recessing

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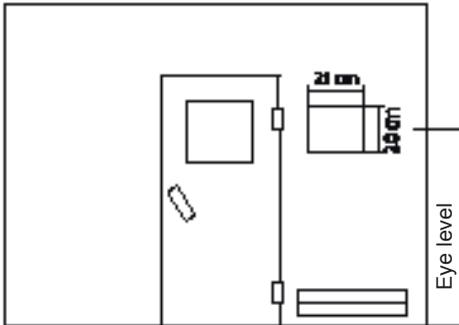
Fig. 5

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.

Holes to fasten the control unit inside the wall opening.

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

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).
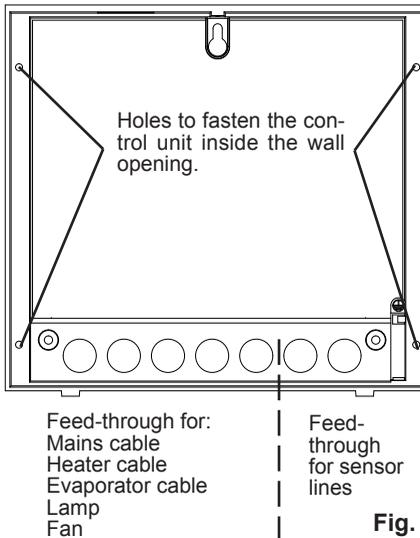
Connect the shielding to ground in the control unit.

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.

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 heater sensor

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

Sensor circuit board

Illust. 10

Fig. 7

Fig. 8

Fig. 9

Hole

Sauna ceiling

Centre sensor housing on middle section

X2

F1

X1

Sensor cables

Fig. 11

X2

Limiter

Sensor

142°C

KTY 10/5

White

Red
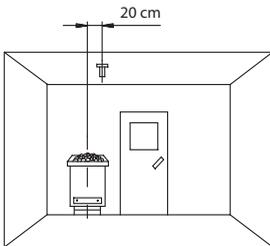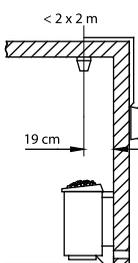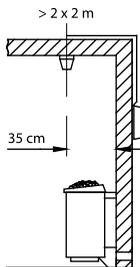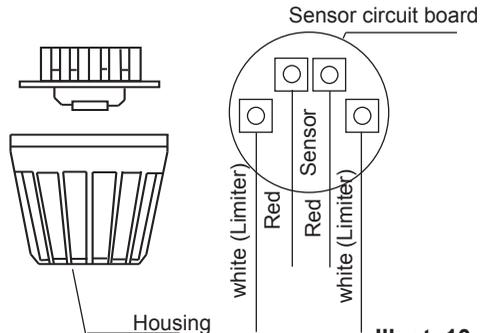
Fig. 12

6. After completed installation and correct operation of the control unit, the line for overtemperature protection must be checked for short-circuits. In order to do this, disconnect one of the white cables in the sensor casing. The respective error message appears in the display.

🕐12:00

**Thermal
fuse**
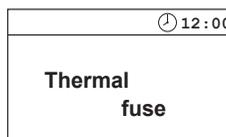
Electrical connection

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.

Connecting the sauna heater

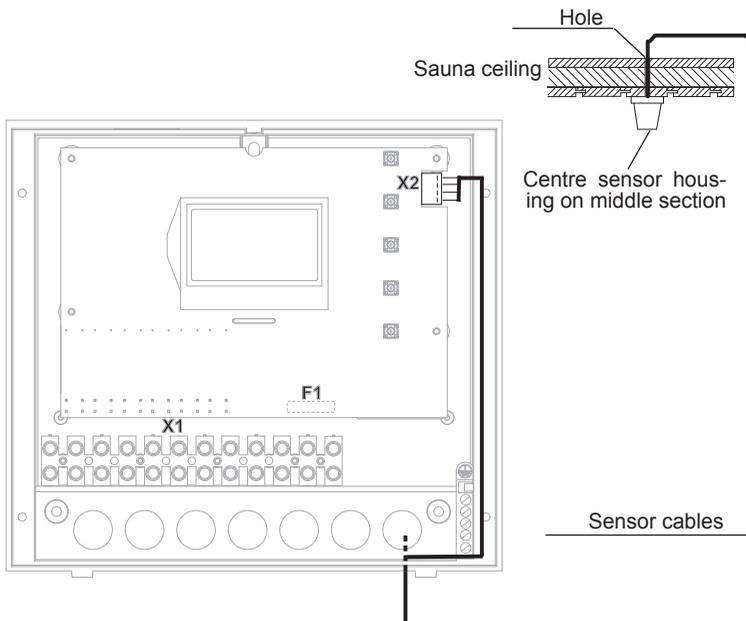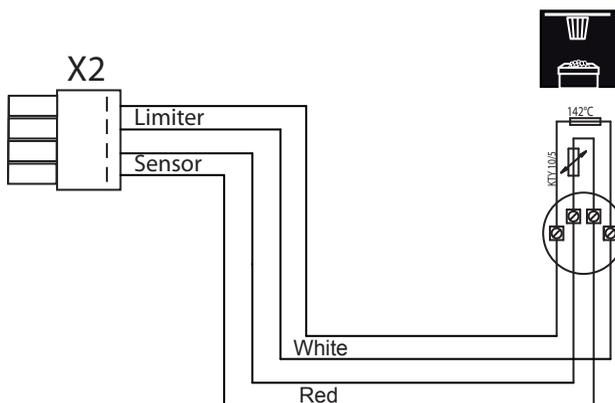Install the sauna heater and the vaporizer in front of the air intake according to the manufacturer's installation instructions.

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: 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.

Connecting a load switch (LSG)

For details refer to the installation instructions of the LSG.

Connecting the sauna lamp

The sauna lamp must be weatherproof protected (IPx4) and resistant to the ambient temperature. The sauna lamp may be installed at any location but never in the vicinity of the rising hot air of the heater. Only use bulbs!

Installation diagram

- - - - - = alternativ

ECON

LSG

4

5

3

4

5
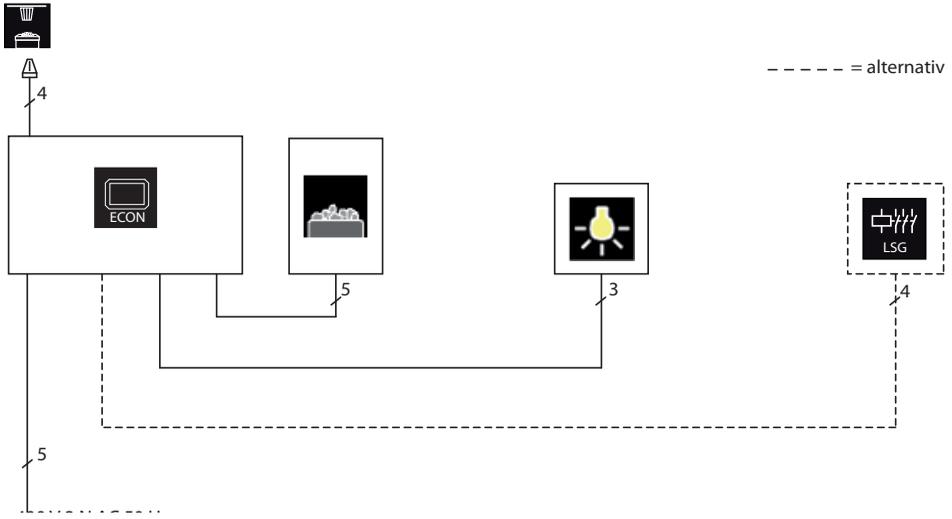
Terminal arrangement on the circuit board.

X2

F2

Plug for sensor connection

underneath the circuit board

F1

X1
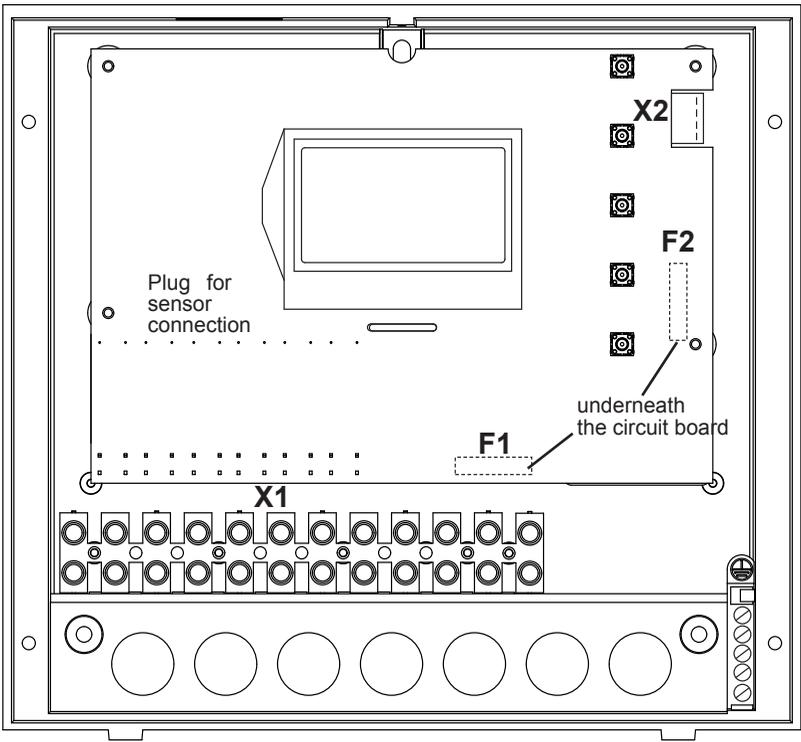
Connecting the sauna heater (max. 9 kW)

ECON

X1 · L1 L2 L3 U V W N N N N S1 Light

max. 100 W

P max. 9 kW

400 V 3 N AC 50 Hz
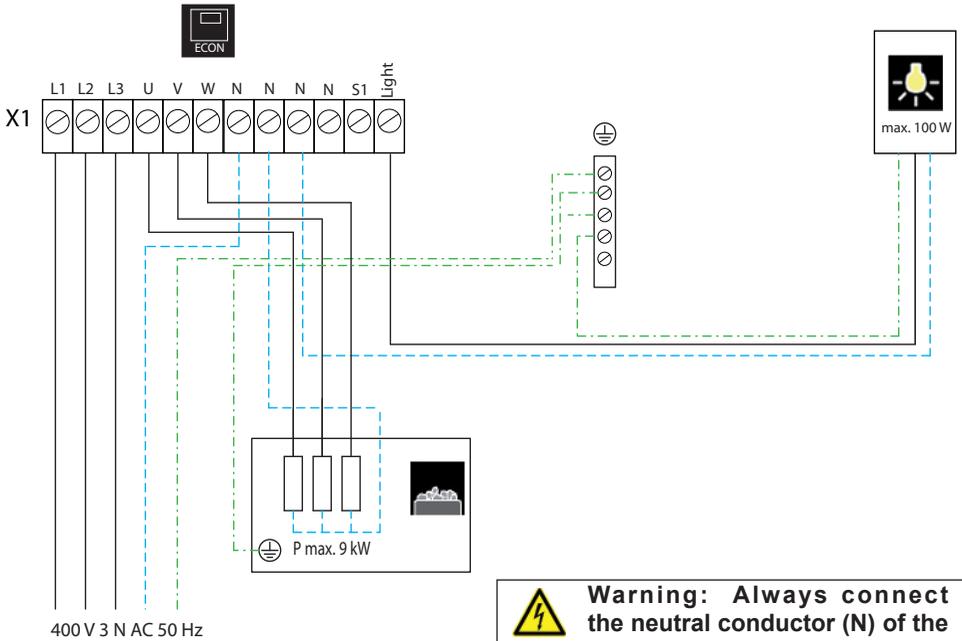
Warning: Always connect the neutral conductor (N) of the sauna oven.

Connecting the sauna heater > 9 kW

ECON

X1 · L1 L2 L3 U V W N N N N S1 Light

max. 100 W

LSG

P max. 9 kW

400 V 3 N AC 50 Hz

400 V 3 N AC 50 Hz
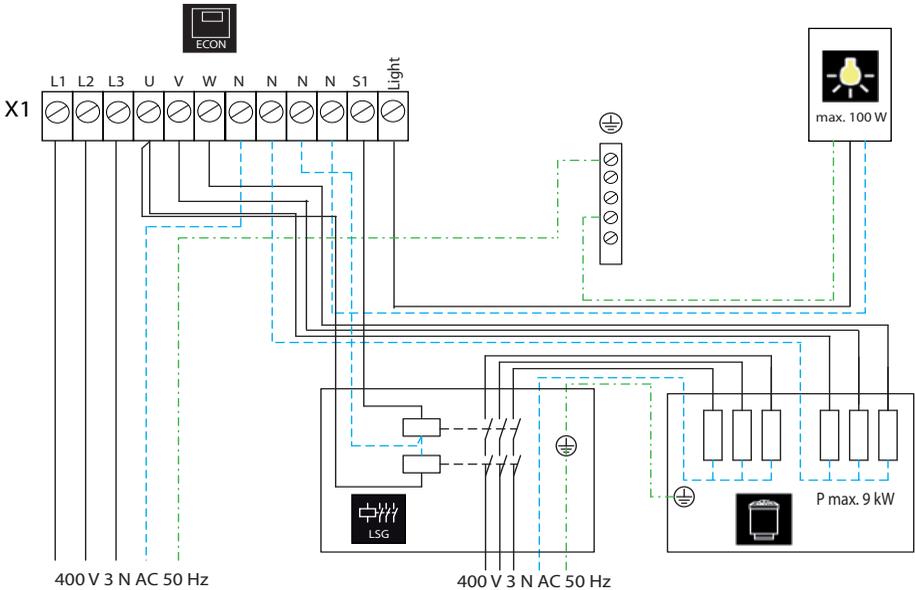
Operation

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

Over the following pages we will show you the options provided to you with the control.

General

The user interface
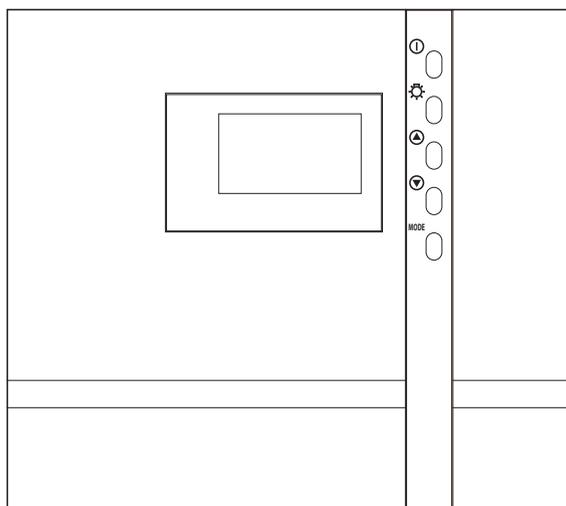
The Fig. shows the operating unit in Stand-by mode with the light switched on.

Operating buttons

(¹) = System On - Off

☼ = Cabin lighting

MODE = Programming mode

▲ = Increase the value

▼ = Decrease the value

Default display Stand-by

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

Reset to this display takes place from other menu items if no activity is carried out > 15 s.

```
                          🕐 12:00
Temperature          30°C
Auto-stop            5 : 59
Start time           - - : - -
```

Default display in operation

is shown if the system is in operation.

Reset to this display takes place from other menu items if no activity is carried out > 15 s.

```
 ☼                       🕐 12:15
Temperature          30°C  ▪▪▪
Auto-stop            5 : 59
Start time           - - : - -
```

Illustration of the heating performance:

During the heating phase the bars behind the temperature display fill continuously.

Once the target temperature is reached, these bars are shown filled

```
30°C  ▪▪□□
```

```
30°C  ▪▪▪▪
```

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.
By pressing any key you can return to the Stand-by default display

```
          12:34
```

The following applies for all settings:

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

☼   The light - symbol
(when the light is switched on)

🕐   The clock symbol

12 : 00   Current time

In addition, the following symbols are displayed depending on the operating mode selected.

⊶0   Child lock active

🔔   Preselection time

In order to adjust the individual values to the particular desires, briefly push the **MODE** -button out of Stand-by.

The modifiable parameter will then be high-lighted in black and it is possible to select with the ▲ or ▼ - buttons the desired parameter.

Parameters that blink on the display can be changed and are shown in these instructions as displayed.

By pushing the **MODE** -button again you will arrive at the programming level.

The name of the parameter is now blinking and the modifiable value is highlighted in black.

The value highlighted in black can now be changed with the ▲ or ▼ the - buttons.

All settings out of Stand-by are confirmed by pressing **MODE** > 3 s and are saved in the unit.

The blinking of the parameter ends and the new value is now authoritative until another change is made.

If no key is pressed for > 15 s., the unit switches back into the default display. Changes made up to then are not saved

	🕐 12:15
Temperature	**30°C**
Auto-stop	5 : 59
Start time	- - : - -

≫ **Temperature** ≪

	🕐 12:15
Temperature	**30°C**
Auto-stop	5 : 59
Start time	- - : - -

Modifiable parameter

Modifiable value

	🕐 12:15
Temperature	**30°C**
Auto-stop	5 : 59
Start time	- - : - -

Cabin lighting

The cabin lighting is automatically switched on as soon as the sauna unit is switched on. In the top left of the display the ☼ - symbol is shown. When the sauna unit is switched off the cabin lighting will switch off with a de-lay of 30 minutes.

Irrespective of the status of the sauna unit, the cabin lighting can be ☼ switched on or off anytime with the button.

☼	🕐 12:15
Temperature	30°C ▁▂▃▄
Auto-stop	5 : 59
Start time	- - : - -

Initial commissioning

☼   🕐 12:00

DE NL   I
GB PL RU ▼

▲ / ▼

☼   🕐 12:00

DE NL   I
GB PL RU ▼

MODE > 3 s

🕐 00:00
Time of day
0 : 00

▲ / ▼

🕐 00:00
Time of day
12 : 00

MODE

🕐 00:00
Time of day
12 : **00**

▲ / ▼

🕐 00:00
Time of day
12 : **15**

MODE > 3 s

🕐 12:15
Life Guard ◼

▲

🕐 12:15
Life - Guard ☑
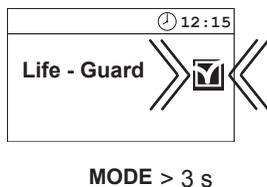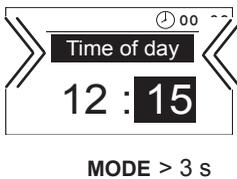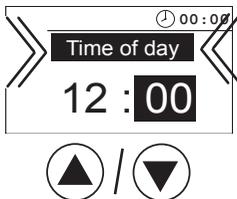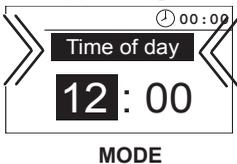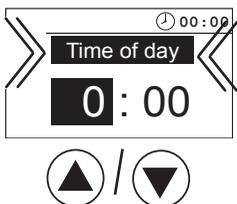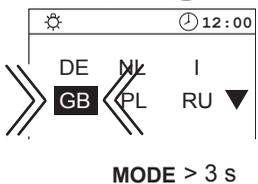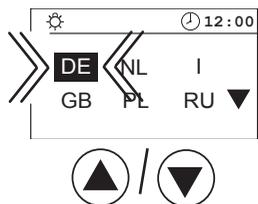
MODE > 3 s

🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	20 min

Change language

```
                        🕐 12:00
Temperatur          30°C
Auto-Stop           5 : 59
Vorwahlzeit         - - : - -
```

MODE & ▼

```
                        🕐 12:15
        Tageszeit
        12 : 15
```

▲ / ▼

```
☼                       🕐 12:00

 DE    NL    I

 GB    PL    RU    ▼
```

MODE

```
☼                       🕐 12:00

 DE    NL    I

 GB    PL    RU    ▼
```

▲ / ▼

```
☼                       🕐 12:00

 DE    NL    I

 GB    PL    RU    ▼
```

MODE > 3 s

```
                        🕐 00:00
      Time of day
       0 : 00
```

Change time

```
                        🕐 12:00
Temperature         30°C
Auto-stop           5 : 59
Start time          - - : - -
```

MODE & ▼

```
                        🕐 12:00
      Time of day
       12 : 00
```

MODE

```
                        🕐 00:00
      Time of day
        0 : 00
```

▲ / ▼

```
                        🕐 00:00
      Time of day
       12 : 00
```

MODE

```
                        🕐 00:00
      Time of day
       12 : 00
```

▲ / ▼

```
                        🕐 00:00
      Time of day
       12 : 15
```
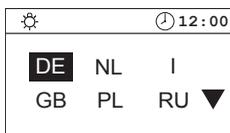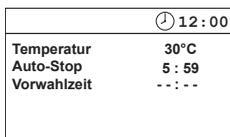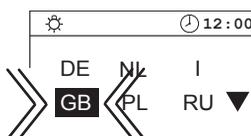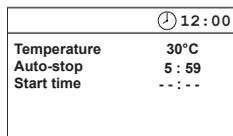
MODE > 3 s

Activate 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 elapsed the unit can be MODE switched on again by pushing the - button for the set time.

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

MODE & (▼)

	🕐 12:15
Time of day	
12 : 15	

(▲) / (▼)

	🕐 12:15
Life Guard	》》■《《

(▲)

	🕐 12:15
Life - Guard	》》☑《《

MODE > 3 s

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	20 min
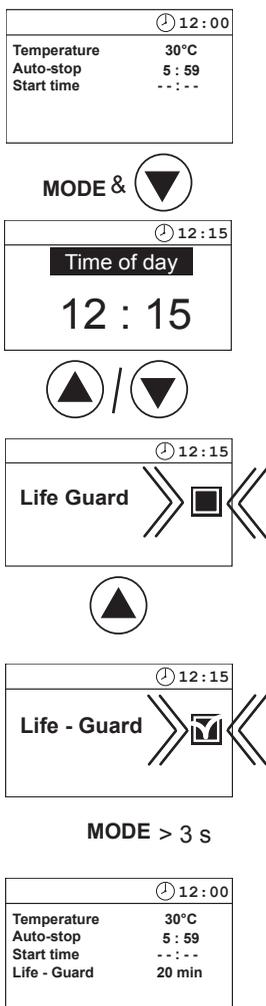
Activate / deactivate the child lock

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. Activation / deactivation of the child lock can be done in stand-by as well as in operation. The unit can still be switched off while in operation.

Activate

Stand-by　　　　　　Operation

(▲) & (▼) > 3 s

Deactivate

(▲) & (▼) > 3 s
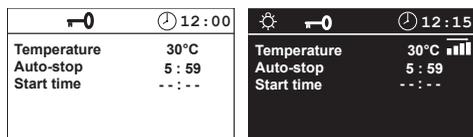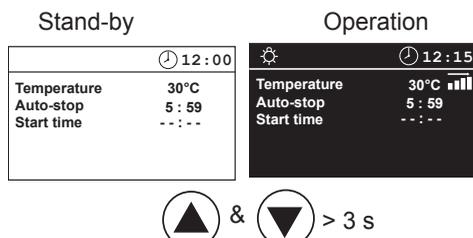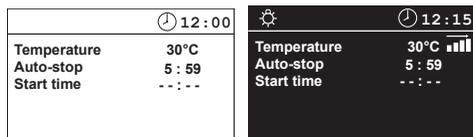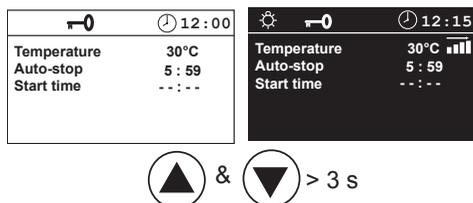
Switching on the sauna unit

```
                            🕐 12:00
Temperature              30°C
Auto-stop                5 : 59
Start time               - - : - -
```

⏻ > 3 s

```
☼                           🕐 12:15
Temperature              30°C ▪▪▪▪
Auto-stop                5 : 59
Start time               - - : - -
```

Switching off the sauna unit

```
☼                           🕐 12:15
Temperature              30°C ▪▪▪▪
Auto-stop                5 : 59
Start time               - - : - -
```

Auto-Stop-Time / ⏻

```
☼                           🕐 12:00
Temperature              30°C
Auto-stop                5 : 59
Start time               - - : - -
```

Switching on the sauna unit with Life - Guard

```
                            🕐 12:00
Temperature              30°C
Auto-stop                5 : 59
Start time               - - : - -
Life - Guard             20 min
```
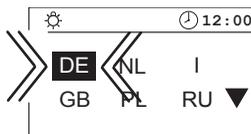
⏻ > 3 s

```
☼                           🕐 12:15
Temperature              30°C ▪▪▪▪
Auto-stop                5 : 59
Start time               - - : - -
Life - Guard             20 min
```

The sauna heater is now heating normally, without "Life - Guard"-time. To activate the function "Life - Guard".

MODE

```
☼                           🕐 12:15
Temperature              30°C ▪▪▪▪
Auto-stop                5 : 59
Start time               - - : - -
Life - Guard             20 min
```

After expiration of the "Life - Guard" - time the sauna heater is switched off and the entire display blinks.

```
☼                           🕐 12:15
Temperature              30°C ▪▪▪▪
Auto-stop                5 : 59
Start time               - - : - -
Life - Guard             20 min
```

Restart

MODE

```
                            🕐 12:00
Temperature              30°C
Auto-stop                5 : 59
Start time               - - : - -
Life - Guard             20 min
```

or switch off the system

⏻

```
                            🕐 12:00
Temperature              30°C
Auto-stop                5 : 59
Start time               - - : - -
Life - Guard             20 min
```

Individual settings

Hereafter we are showing you options that allow you to adjust the controls to your individual needs. The various parameters can be changed in Stand-by or in operation and the changes are saved in the unit. Changes made in operation are effective directly.

Cabin temperature   Setting range: Finnish mode 30 - 115°c
                                        Humidity mode 30 - 70°C

In Stand-by   **In operation**

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

MODE

	🕐 12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

MODE

	12:15
Temperature	°C
Auto-stop	59
Start time	- - : - -

▲ / ▼

	🕐 12:15
Temperature	85°C
Auto-stop	5 : 59
Start time	- - : - -

MODE > 3 s

	🕐 12:15
Temperature	85°C
Auto-stop	5 : 59
Start time	- - : - -

15 s   /   ⏻ > 3 s

	🕐 12:00
Temperature	85°C
Auto-stop	5 : 59
Start time	- - : - -

☼	🕐 12:15
Temperature	85°C
Auto-stop	5 : 59
Start time	- - : - -

In operation

☼	🕐 12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

MODE

☼	🕐 12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

MODE

☼	🕐 12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

▲ / ▼

☼	🕐 12:15
Temperature	85°C
Auto-stop	5 : 59
Start time	- - : - -

MODE > 3 s

☼	🕐 12:15
Temperature	85°C
Auto-stop	5 : 59
Start time	- - : - -

15 s

☼	🕐 12:15
Temperature	85°C
Auto-stop	5 : 59
Start time	- - : - -

Life - Guard

Here you can set after what time the sauna unit is switched off and by pushing the **MODE** - button again you can restart the "Life - Guard" time.

This setting can only be selected in Stand-by when the function "**Life - Guard**" is activated.

In Stand-by

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	20 min

MODE

	🕐 12:00
Temperature	**30°C**
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	20 min

▲ / ▼

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	**20 min**

MODE

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	**20 min**

▲ / ▼

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	15 min

MODE

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	**15 min**

15 s / ⏻ > 3 s

	🕐 12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	15 min

☼	🕐 12:15
Temperature	30°C ▁▃▅▇
Auto-stop	5 : 59
Start time	- - : - -
Life - Guard	14 min

Auto-Stop

Auto-Stop is the time to which the heating time is limited. The sauna unit automatically turns off once this time has expired.

The time is adjustable from 0:01 to 6:00 hours.

In Stand-by

```
                        🕐 12:00
Temperature             30°C
Auto-stop               5 : 59
Start time              - - : - -


```
MODE

```
                        🕐 12:15
Temperature             30°C
Auto-stop               5 : 59
Start time              - - : - -


```
▲ / ▼

```
                        🕐 12:15
Temperature             30°C
Auto-stop               5 : 59
Start time              - - : - -


```
MODE

```
                        🕐 12:15
Temperature             30°C
Auto-stop               5 : 59
Start time              - - : - -

```
▲ / ▼

```
                        🕐 12:15
Temperature             30°C
Auto-stop               3 : 59
Start time              - - : - -

```
MODE

```
                        🕐 12:15
Temperature             30°C
Auto-stop               3 : 59
Start time              - - : - -

```
▲ / ▼

In operation

```
☼                       🕐 12:15
Temperature             30°C ▂▃▄
Auto-stop               5 : 59
Start time              - - : - -


```
MODE

```
☼                       🕐 12:15
Temperature             30°C
Auto-stop               5 : 59
Start time              - - : - -


```
▲ / ▼

```
☼                       🕐 12:15
Temperature             30°C
Auto-stop               5 : 59
Start time              - - : - -


```
MODE

```
☼                       🕐 12:15
Temperature             30°C
Auto-stop               5 : 59
Start time              - - : - -

```
▲ / ▼

```
☼                       🕐 12:15
Temperature             30°C
Auto-stop               3 : 59
Start time              - - : - -

```
MODE

```
☼                       🕐 12:15
Temperature             30°C
Auto-stop               3 : 59
Start time              - - : - -

```
▲ / ▼

MODE > 3 s

MODE > 3 s

15 s

15 s

Temperature 30°C
Auto-stop 3 : 30
Start time - - : - -

Temperature 30°C
Auto-stop 3 : 30
Start time - - : - -

Temperature 30°C
Auto-stop 3 : 30
Start time - - : - -

Temperature 30°C
Auto-stop 3 : 30
Start time - - : - -

Temperatur 30°C
Auto-Stop 3 : 29
Vorwahlzeit - - : - -

Temperatur 30°C
Auto-Stop 3 : 29
Vorwahlzeit - - : - -

Temperature 30°C
Auto-stop 3 : 30
Start time - - : - -

Temperature 30°C
Auto-stop 3 : 30
Start time - - : - -

Preselection time

Using the time preselection, you can preselect a switch-on time within 24 hours for your sauna heater.

Always make sure that there are no objects on the sauna unit before the heating process begins. Fire risk!

Please remember however that the cabin must heat up for approx. 40-50 minutes in order to achieve a pleasant climate in the cabin. If, for example. you wish to start with your sauna bath at 18:00 hrs, please select 17:10 hrs as your preselection time.

If the sauna unit is to be used without preselection time, „**-- : --**" must be entered in the display under preselection time.

In Stand-by

	🕐12:00
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

MODE

	🕐12:15
Temperature	**30°C**
Auto-stop	5 : 59
Start time	- - : - -

⬆ / ⬇

	🕐12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	**- - : - -**

MODE

	🕐12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	**- -** : - -

⬆ / ⬇

	🕐12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	**17** : - -

MODE

In operation

☼	🕐12:15
Temperature	30°C ▂▃▅
Auto-stop	5 : 59
Start time	- - : - -

MODE

☼	🕐12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

⬆ / ⬇

☼	🕐12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	- - : - -

MODE

☼	🕐12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	**- -** : - -

⬆ / ⬇

☼	🕐12:15
Temperature	30°C
Auto-stop	5 : 59
Start time	**17** : - -

MODE

12:15

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : - -

12:15

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : - -

△ / ▽

12:15

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

12:15

Temperature 30°C
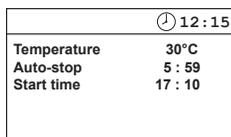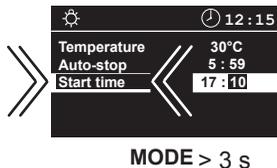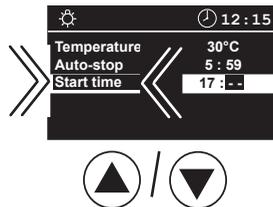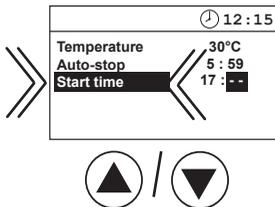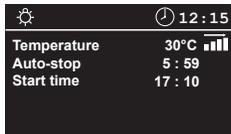Auto-stop 5 : 59
Start time 17 : 10

MODE > 3 s

MODE > 3 s

12:15

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

12:15

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

15 s / ⏻

15 s / ⏻

12:15

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

🔔 **12:15**

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

To the preselection time

12:15

Temperature 30°C ▁▃▅█
Auto-stop 5 : 59
Start time 17 : 10

12:15

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

12:15

Temperature 30°C ▁▃▅█
Auto-stop 5 : 59
Start time 17 : 10

Activate the preselection time

Deactivate the preselection time

⏻

🔔 **12:15**

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

To the preselection time

🔔 **12:15**

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

⏻

12:15

Temperature 30°C ▁▃▅█
Auto-stop 5 : 59
Start time 17 : 10

12:15

Temperature 30°C
Auto-stop 5 : 59
Start time 17 : 10

GB
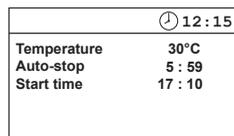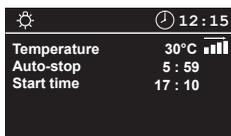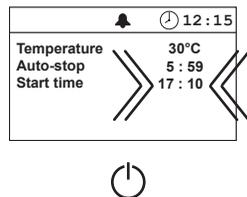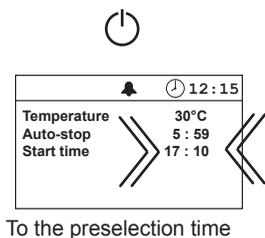
Extend the time setting for sauna time

By switching a jumper you can extend the time setting for sauna time from 6:00 to 12:00 hours.

⚠️Such work must be left exclusively to an expert. Prior to any kind of work disconnect all poles on the opened control unit from the power supply. (Switch off main switch, or trip the Fi-switch). **Risk of electric shock!!**

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

Loosen the screws
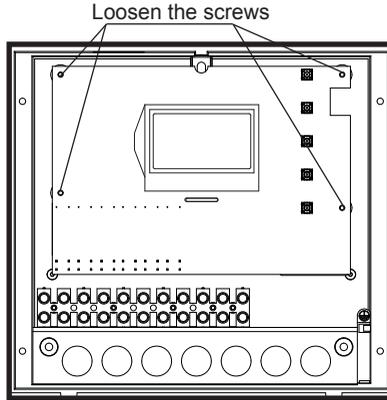
You will find a jumper on the backside of the circuit board.

Jumper open   6:00 hours heating time limitation

Jumper closed   12:00 hours heating time limitation
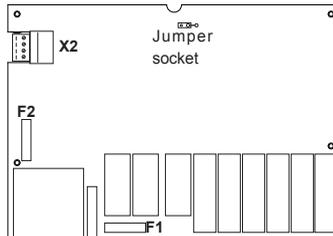
Unit fuses

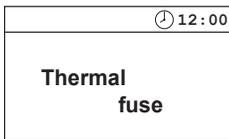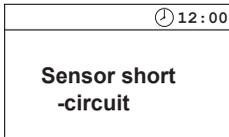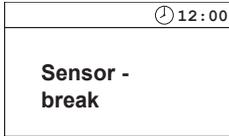You will also find 2 micro fuses on the backside of the circuit board

F1 = T 2A   Fuse primary electronics and light and fan

F2 = T 250 mA Fuse secondary electronics

Error messages

The control unit continuously monitors the sensor for short circuits and interruptions. The error messages appear as follows:

| Display	Cause	Remedy
🕐 12:00 **Sensor - break**	= Interruption in the room sensor circuit The temperature sensor (KTY) is defective or the line to the temperature sensor is interrupted.	Have cables and KTY checked by an expert. KTY at 20°C ca. 2 k W may have to be replaced.
🕐 12:00 **Sensor short -circuit**	= Short-circuit in the room sensor circuit The temperature sensor (KTY) is defective, or the line to the temperature sensor is short-circuited.	Have cables and KTY checked by an expert.
🕐 12:00 **Thermal fuse**	= Interruption in the limiter circuit The thermal fuse (142°C) has tripped or the line to the thermal fuse is interrupted.	Have cables and thermal fuses checked by an expert.

The device switch (Switch-off)

The unit switch is located at the top of the control unit. You can disconnect the electronics from the mains using this switch in case of a fault.
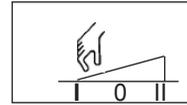
.
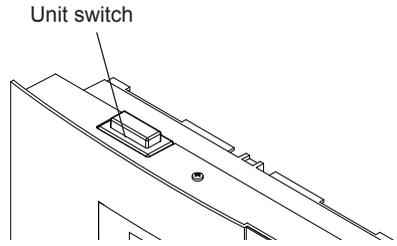
Unit switch
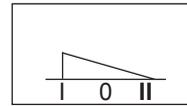
**Unit switch**

= Unit switched on
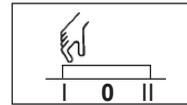
In case of faults push the unit switch on the left side of the rocker to the first latch (switch setting 0). The unit is now completely switched off.

= Unit switched off

To turn the light on in the cabin when the unit is disconnected, push the left part of the rocker to the second engagement point (switch setting II).

= Lamp switched on

To make the unit ready for operation, switch back to the initial position (switch setting I).
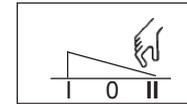
Please keep this address in a safe place together with the installation guide.

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.

Service Address:

EOS Saunatechnik GmbH
Adolf-Weiß-Straße 43
35759 Driedorf-Mademühlen, Germany
Tel: +49 (0)2775 82-514
Fax: +49 (0)2775 82-431

servicecenter@eos-sauna.de
www.eos-sauna.de

WARRANTY

The warranty is provided according to the legal regulations at present.

Manufacturer's guarantee:

- The period of guarantee starts from the date of purchase and lasts up to 2 years by commercial use and 3 years by private use.

- Always include the completed guarantee certificate when returning equipment.

- The guarantee is void for appliances which have been modified without manufacturer's explicit agreement.

- Damages caused by incorrect operation or handling through non-authorized persons are not covered under the terms of guarantee.

- In the event of a claim please indicate the serial number as well as the item number and model name with detailed description of the fault.

- This guarantee covers defective parts and labour but not the defects caused by wear and tear.

In case of complaint please return the equipment in its original packaging or other suitable packaging (caution: danger of transport damage) to our service department.

Always include the completed warranty certificate when returning equipment.

Possible shipping costs arising from the transport to and from point of repair cannot be overtaken by us.

Outside of Germany please contact your specialist dealer in case of warranty claims. Direct warranty processing with our service department is in this case not possible.

Equipment commissioning date:

Stamp and signature of the authorized electrician:

Handling procedures for return shipments (RMA) - Details for all returns !

Dear customer

we hope that you will rejoice in the ordered articles. Just in case that you are not entirely contented as an exeption, please follow the procedures specified below.This enabling us to ensure a quick and smooth handling of the return shipment.

Please absolutely respect for all returns!

• Please add the available **RMA-voucher** always **completely filled out** together with an **invoice copy** to the return shipment! Do not stick it on the goods or on the packaging. **We do not accept the return shipment without these papers.**

• Not prepaid parcels **will be refused** and returned to Sender! Please always ask for the **RMA-No**. for the cheapest return.

• **Please pay attention that** the goods have to be sent back **without visible marks of use** in the **original scope of delivery and in original packing.**

• We recommend to use an **additional solid and break-proof covering box** which should be padded out with styrofoam, paper or similar. Transport damages as a result of faulty packing are for the sender's account.

Form of complaint:

1) Transport damage	2) Faulty goods	3) Problems of installation and functioning
• Please check the content of your parcel immediately and advise the forwarding company of a claim (parcel service/ freight forwarder)	• The implied warrenty period is 2 years.Please contact your dealer in case of **faulty or wrong articles or missing accessories.** He will discuss with you the individual case and try for immediate and customer-friendly solution.	• Please **read the manual carefully first of all** and pay attention to the indicated assembly or installing instructions.
• Do not use damaged goods!	• For **economic returns** within Germany you will get an **RMA-number from the manufacturer.**	• **Your dealer should be the first contact person** because he knows his products best and also knows possible problems.
• Ask the forwarder **for a written acknowledgement of the damages.**	• All returns have to be in the **original packing of the goods with corresponding accessories.** Please repack the goods to avoid damages. In case of wrong delivery, please do not use this article !	• **In case of function problems with an article,** please check at first whether there is an obvious material defect. The quality system in our factory reduces malfunctions of new appliances to almost zero.
• **Report the claim promptly by phone to your dealer.** He will discuss with you how to act in this case.		.
• If the transport box has been damaged, please use an additional covering box. Do not forget to add the **acknowledgement of the damage of the forwarding company !**		