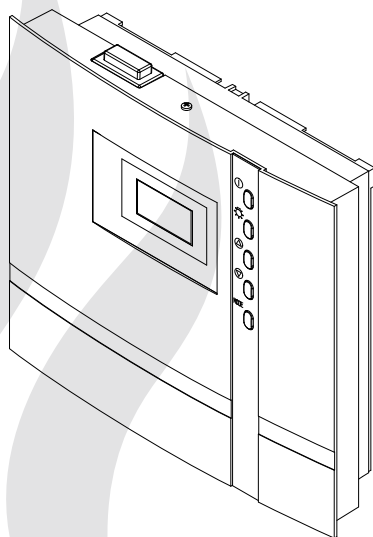


ECON S2

control unit for steam generator
SteamRock Basic



EN Installation and operating manual

Made in Germany

CE IP x4

Firmware < R4.31

print 29344783 en / 08.18
Technical changes reserved



ENGLISH

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Delivery scope

Please verify that you have got all components which belong to the standard delivery.

1. Control unit **Econ S2**
2. Temperature sensor Ø15 x 65 mm including separate 5 m connection cable
3. 3 mounting screws 4 x 25 mm.
4. 5 rubber grommets for connection cables
5. Installation and operation manual

(changes reserved)



Optional accessories:

Button for manual essence dosingitem no. 94.6507

Essence dosing pump with accessoriesitem no. 94.6297

5 l container for essences, with level probe.....item no. 94.6298

Sensor cable 20 mitem no. 94.6410

Sensor cable 50 mitem no. 94.6411

Specifications

Power supply:	230 V 1 N AC 50 Hz
Switching capacity:	3 kW resistive load (AC1 operation) with 16 A protection
Heating time limitation:	6 h / 12 h / unlimited (via jumper setting)
Temperature control range:	30°C to 50°C
Temperature sensor:	KTY type in metal housing Ø15 x 65 mm
Hysteresis:	adjustable range 1K to 5K
Display:	LCD display 65 x 37 mm, multi-line alphanumeric illuminated
Light control output:	230 V, max. 100 W load
Extractor fan output:	230 V, max. 100 W load
Essence dosing pump output:	230 V, max 100 W load
Protection class:	IPx4 as per EN 60529 water splash proof
Housing:	Plastic, for surface mounting or semi-recessed installation
Size (H x W x D):	220 x 250 x 67 mm (35 mm depth requirement by semi-recessed installation)
Ambient temperature (operation):	-10°C to +40°C
Ambient temperature (storage):	-20°C bis +70°C

NOTICE

ONLY FOR USE WITH THE STEAM GENERATORS STEAMROCK BASIC.

Applicable norms:

- 2014/35/EU
- 2014/30/EU
- DIN EN 60335-1
- DIN EN 60335-2-53
- DIN EN 60335-2-98
- DIN EN 60335-2-105
- DIN EN 62233

General information for steam baths

Dear customer,

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

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

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

Please note that there are different temperatures in the cabin of your steam bath.



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

For instance, a pre-selected temperature of 50 °C may show a value of 38°C on your display thermometer. This would then also correspond to the typical climate data in the cabinet.

Only use suitable cabin lights. Always ensure hygienic conditions.

To prevent draughts inside the cabin, try to avoid using the fan function during your steam bath. It should only be used if recommended by the cabin manufacturer.

General Safety Regulations

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



Caution!

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

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



Attention!

Make sure to use only the original spare parts.

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

Any unauthorized technical modification voids the product warranty.

Installation of the control unit

Installation location

The control unit may be only mounted outside steam room on a suitable wall surface.

Please follow the instructions for installation:

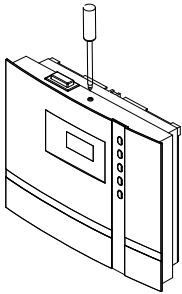


Fig. 1

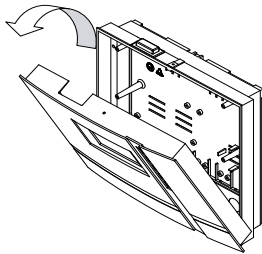


Fig. 2

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).

Surface-mounted installation

1. The 3 mm diameter boreholes for the supplied wood screws 4 x 25 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.

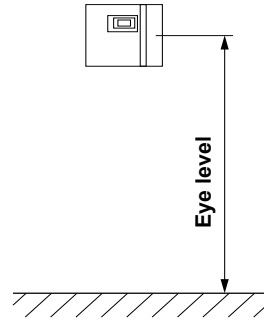


Fig. 3

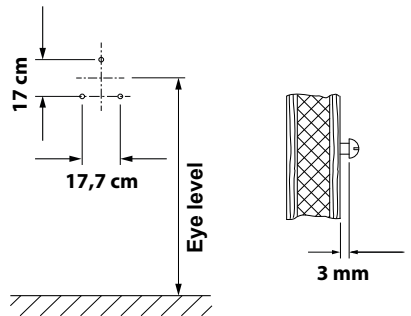


Fig. 3.1

Fig. 3.2

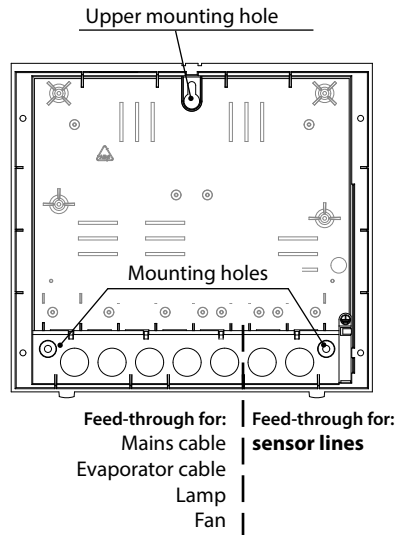


Fig. 4

Recessed installation

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

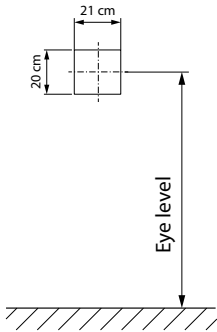


Fig.5

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.

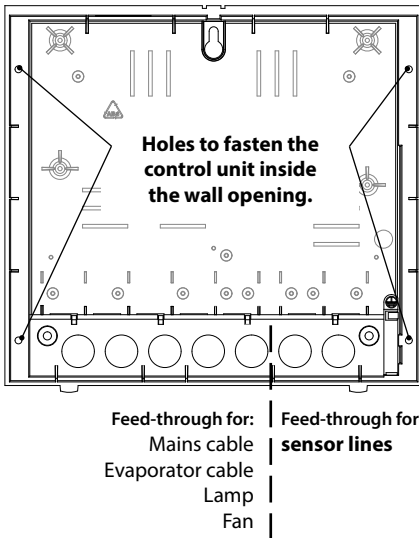


Fig. 6

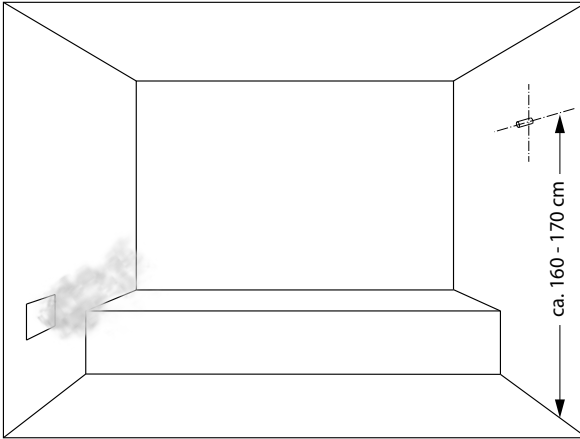
Temperature sensor installation

Do not install sensor and power supply lines together, or lead them through the same duct. Installing these together may lead to malfunctions in the electronics, e.g. error messages.

Any cable shielding (if any) must be connected to the earth in the control unit.

Please note that the following information about sensor position provides only a guideline for the optimal climate and temperature regulation in a standard cabin. Sensor position may vary depending on the cabin situation. Fig. 8-10 provide an overview of the sensor installation.

Sensor position



Optimal position is normally opposite to the steam outlet with approx 2 m gap at some 160-170 cm from the floor level.

Notice: a too small or too large gap may lead to incorrect temperature control.

Depending on the cabin situation individual testing may be required.

Make sure that the sensor sticks to 30 mm out of the cabin wall as per fig. 10.

Fig. 8

Sensor installation:

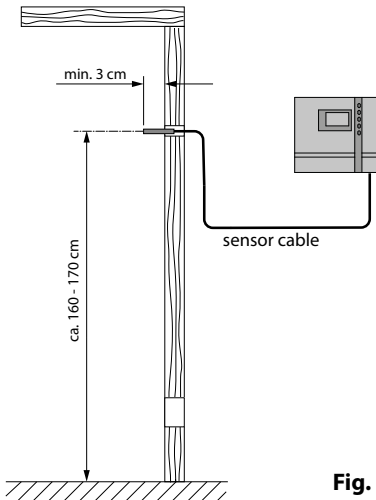


Fig. 9

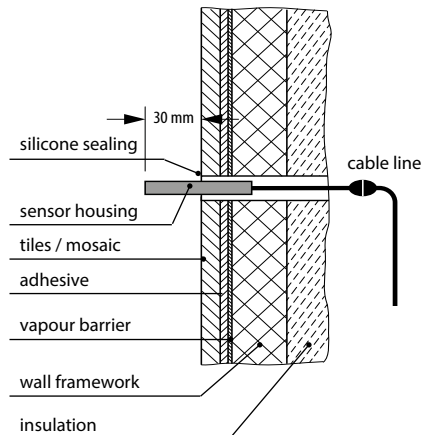


Fig. 10

Electrical connections



Attention!

Do not attempt to install or repair the unit by yourselves. The unit's housing may be opened only by authorized and appropriately qualified electrician. **Danger to life!**



Attention!

The electrical connection may be carried out only by a qualified electrician with respect to the applicable local norms and VDE regulations. **Danger to life!**

In general, there may be only one fixed connection to the power supply. Equipment should be provided that makes it possible to disconnect the system with all poles from the power supply with at least 3 mm contact opening.

All electrical installations and all connection lines that are installed inside the cabin must be suitable for an ambient temperature and should have the adequate humidity protection class.

The power supply line should be drawn to the control unit and connected to the connection terminals as per wiring diagram.

Steam generator connection

The steam generator should be mounted outside steam room as per installation instruction of the manufacturer / supplier.

Draw the connecting cable and make electrical connections as per wiring diagram.

Make sure to observe specific connection details as per wiring diagram for steam generator and control unit.

The general connections overview is shown on page 13.

Cabin light connection

Connect the cabin lamp as per wiring diagram.



The lamp should have at least IPX6 protection class and should be suitable to the steam room temperature range.

The lamp may be mounted at any place except within the direct range of the steam flow coming out or rising from the steam outlet.

Extractor fan connection

Connect the fan as per wiring diagram.

The extractor fan should have at least IPX6 protection class. The fan should not be mounted inside the steam cabin.

Recommended position of the fan is in the duct channel for air extraction leading from the cabin.

Notice: The position of the duct vent may have an influence on the temperature regulation if the fan is operated during steam production.

Dosing pump connection

Connect the dosing pump as per wiring diagram shown on pages 13 and 14.

Make sure to observe the maximum allowed power of the dosing pump.

Pay especial attention to the correct installation and connection of the dosing line to the steam pipe.

Heating time limitation

The heating time may be limited with the jumper 5 on the main board to max. 6 hours, 12 hours or it may be set to unlimited time.

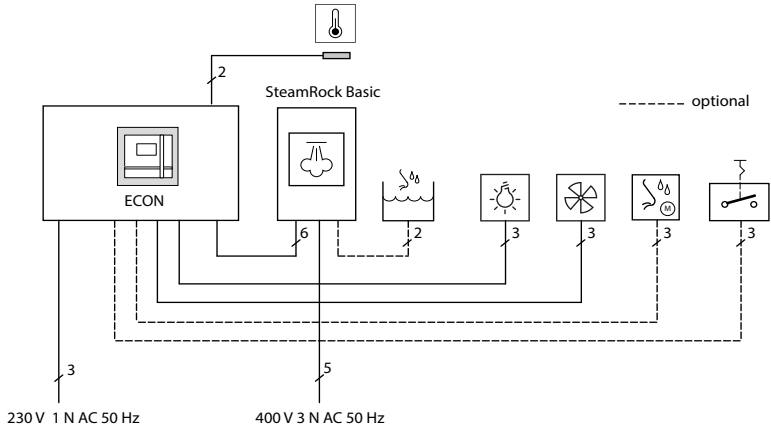
By jumper setting „unlimited“ the heating should be switched off manually.

Default setting from factory is “6 hours”.

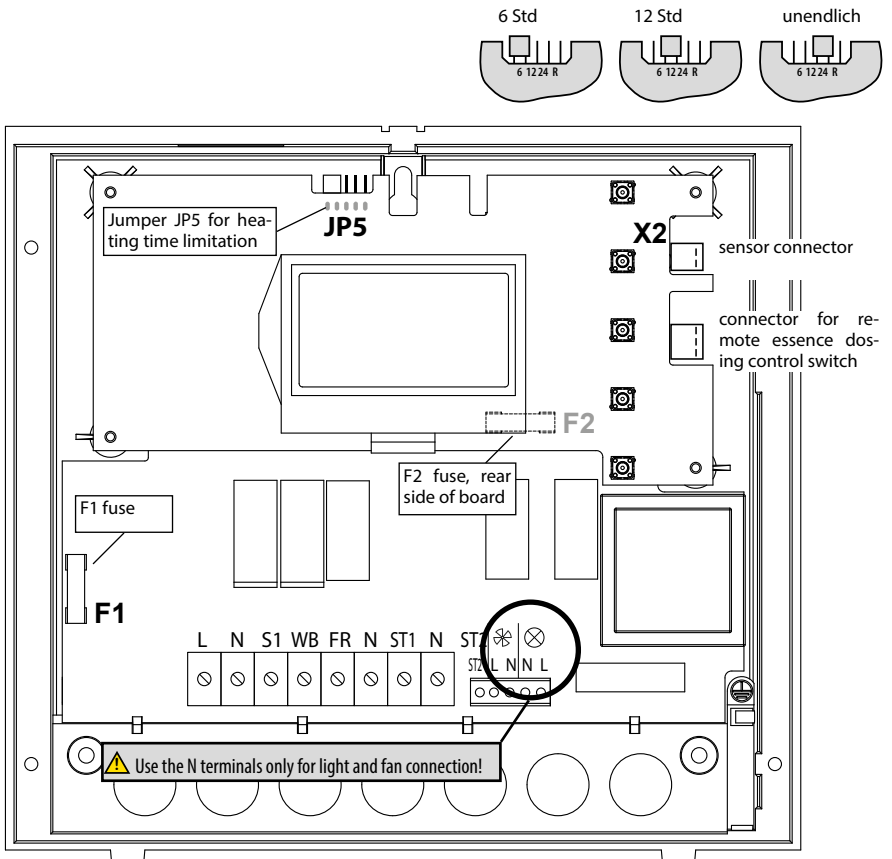


This setting is only allowed if the control unit is switched off from power supply. Do not set the jumper by working control unit!

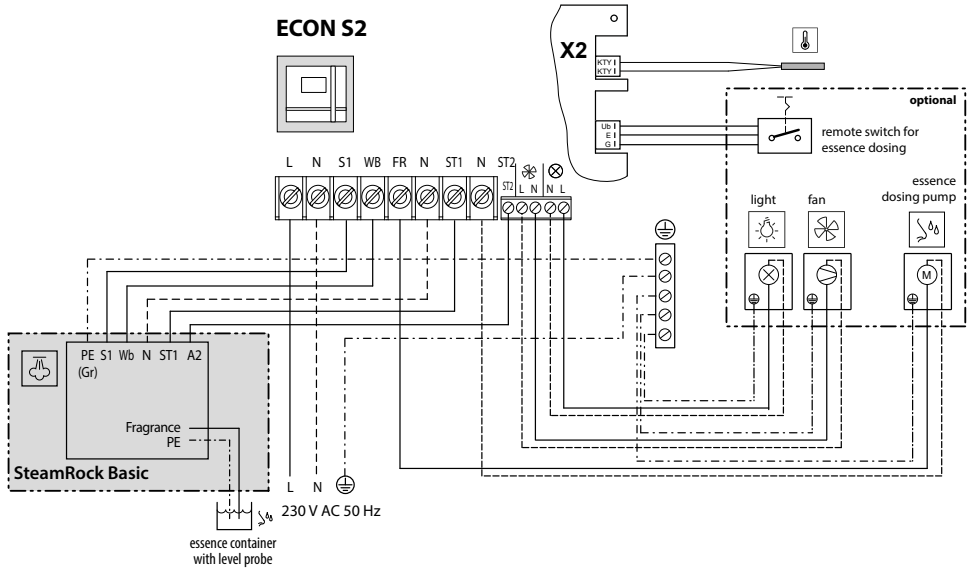
Connections overview



Main board overview



ECON S2 connection to SteamRock Basic steam generator



Warning:

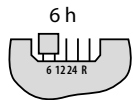
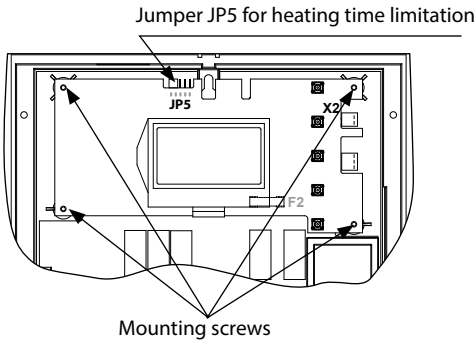
Always connect the neutral terminal (N) of the steam generator SteamRock Basic. Incorrect connection can cause fire and damages to persons.

Heating time limitation

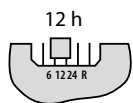
The heating time limitation can be adjusted with the JP5 jumper position on the main board of the control unit. You can set the limitation to 6 hours, 12 hours or set the heating time to unlimited (manual) mode. The JP5 jumper is located in the middle at the upper edge of the board. You will need tweezers or an alike tool to change the jumper position. Alternatively you can also take the board out of the housing slightly (undo the mounting screws in the corners).

If set to unlimited position („24“) with the heating time can be programmed up to 23:59 or also set to „--:--“ position. The setting „--:--“ means unlimited heating time. In such case the heating will not stop automatically and needs to be stopped manually.

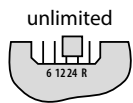
⚠ This setting may be carried out only by a skilled person. By all works on an open control unit disconnect the power supply on all phases. Do not change the jumper position without disconnecting the power. Risk of electric shock! Risk of damages to the unit!



Limitation up to 6 hours heating time (factory default)



Limitation up to 12 hours heating time



Unlimited heating time - no automatic switch off if the „Auto-Stop“ parameter has been set to „--:--“.

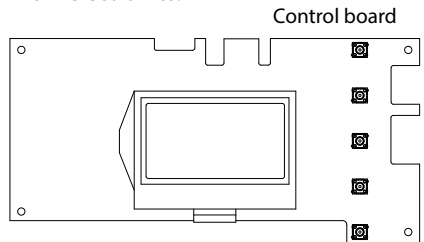
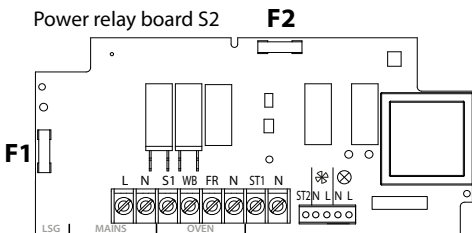
Devices' fuses

F1 = T 2A H 250V

Primary fuse protection for main electronics, light and fan.

F2 = T 315 mA L 250V

Secondary protection for main electronics.



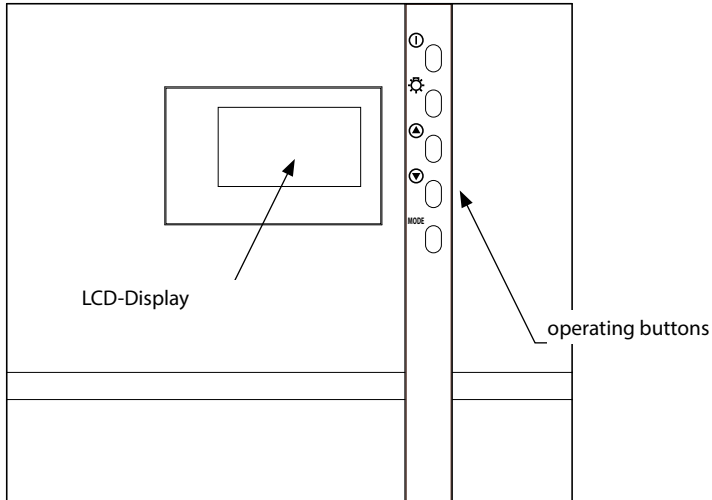
Operation

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


The following pages provide the detailed explanation, how to operate your control panel and make all necessary settings.


General Details


Operation elements




Operating buttons

 = Heating on / off (stand-by)

 = Cabin lighting on/off



 = Reduce value / next function

 = Increase value / next function

MODE = Programming mode (settings)

Interface in stand by

is shown if the control unit is in stand-by model
The display will automatically switch this interface from any state if no button has been pressed within >15 sec.

		12:00
Temperature	30°C	
Fragrance	10	
Auto-Stop	6:00	
Start time	--:--	

Interface during active heating




is shown if the control unit is in active operation mode (heating is switched on).

The display will automatically switch this interface from any state if no button has been pressed within >15 sec (during active heating).

Heating process indication:

During the heating-up phase the bars behind the temperature figures will fill progressively.

Once the pre-set temperature has been reached, the bars will remain filled.

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	--:--	

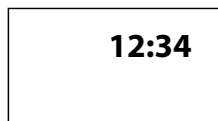


Interface in energy-saving mode

If the control unit is not used for a longer time it will switch into the energy-saving mode.

A clock randomly moving across the display every minute will be shown after 5 minutes, similar to a PC screensaver. The backlighting of the display is switched off after an additional 15 minutes

By pressing any key you can wake the unit to the default "Stand-by" interface.



The following symbols are displayed at the top of the control unit:



the light symbol
(appears if the light is on)



the clock symbol

12:00

current time

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



control unit locked (hotel mode)



pre-set timer active



Descaling pending (symbol flashes)



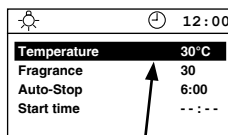
Holiday home mode
Holiday park mode (if flashing)



Descaling in progress (symbol flashes)

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

The first parameter will then be highlighted in inverted colour. and You can then select the desired parameter with the ▲ or ▼ - buttons.



highlighted parameter

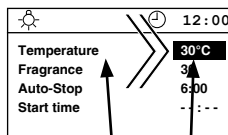
Values that flash on the display can be changed with the ▲ or ▼ - buttons and are shown in these instructions as displayed.

By pressing the **MODE** button again you will launch the programming mode.

The value of the parameter will flash and will be shown inverted.

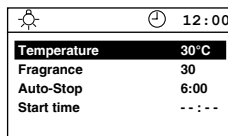
Use the ▲ or ▼ buttons to change the value of the selected parameter.

To save the changed value press **MODE** for over 3 seconds. Once saved the value stops flashing. The new value will be applied immediately until another change is made.

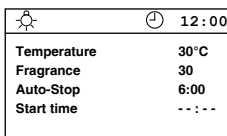


parameter to be adjusted

value to be adjusted



If no button is pressed for >15 seconds the unit switches back to the default display. Changes made up to then will not be saved



Cabin light

The cabin lighting is automatically switched on as soon as the heating is switched on. In the top left of the display the ☀- symbol is shown. When the heating is switched off the cabin lighting will switch off with a delay of 30 minutes.

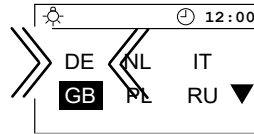
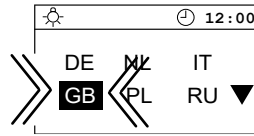
Irrespective of the status of the control unit, the cabin lighting can be switched on or off any-time with the light button ☀.



Initial commissioning

Language selection

Unit setup starts with language setting. You can choose from 12 languages. Use up/down button to select language, press “mode” for 3 sec to confirm.

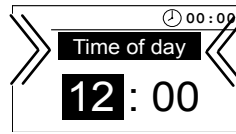
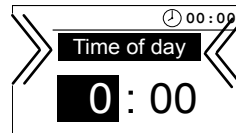


MODE > 3 Sec

Time setting

Set the time of day.

First set hours. Use up/down button to select value and press “mode” shortly to confirm.



MODE

Now set minutes. To confirm time setting press “mode” for 3 sec.



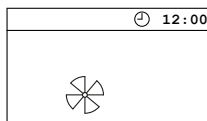
MODE > 3 Sec

Fan setting

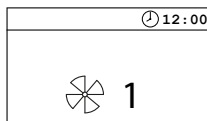
Set the fan operation mode by selecting the setting value from 0 to 2.

- 0 = fan disabled during heating, fan will run only after the heating (cabin dry cycle)
- 1 = fan is on during steam off intervals (active heating) + fan runs after heating (cabin dry program)
- 2 = fan is always on if heating is on, + fan runs after heating (cabin dry cycle)

Press "mode" for 3 sec to confirm setting.



range 0 - 2



MODE > 3 Sec

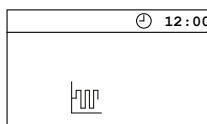


Hysteresis setting

You can set the hysteresis from 1K to 5K in order to adjust the temperature regulation and optimize steam production.

Use "down" button to change value and press "mode" button for 3 seconds to confirm.

Default value is 3K.



range 1 - 5 K



MODE > 3 Sec

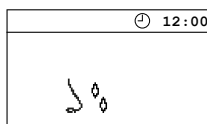


Essence dosing setting

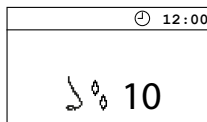
This setting adjusts the **essence injection duration** and thus allows you to set the essence quantity per each injection.

For instance the setting "10" means the dosing pump will run for 10 seconds per injection.

You can make the setting from 1 to 15 sec.



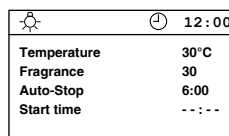
range 0-15 s
(default 0)



MODE > 3 Sec



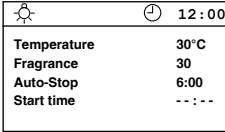
After this the setup is complete and the control unit will switch to the regular stand-by interface.



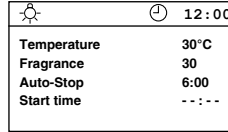
Operation

Language and time adjustment

The navigation menu language and time setting may be adjusted at any time after the initial commissioning. Press "mode" + "down" button to launch setting menu and proceed with adjustments.

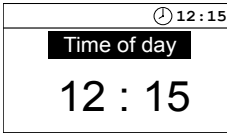


Press "mode" + "down" buttons to launch settings menu.



Press "mode" + "down" buttons to launch settings menu.

MODE &



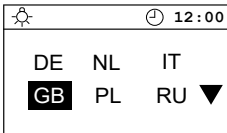
Use up/down buttons to select if you want to set time or language. Press "mode" to start adjustment.



Press mode to launch time adjustment.



MODE



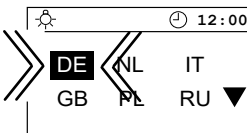
MODE



Set language as required and press "mode" for 3 seconds to confirm.



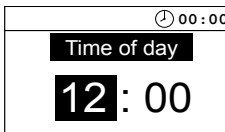
MODE



MODE > 3 Sec



Set minutes using up/down buttons, press "mode" for 3 sec to confirm.



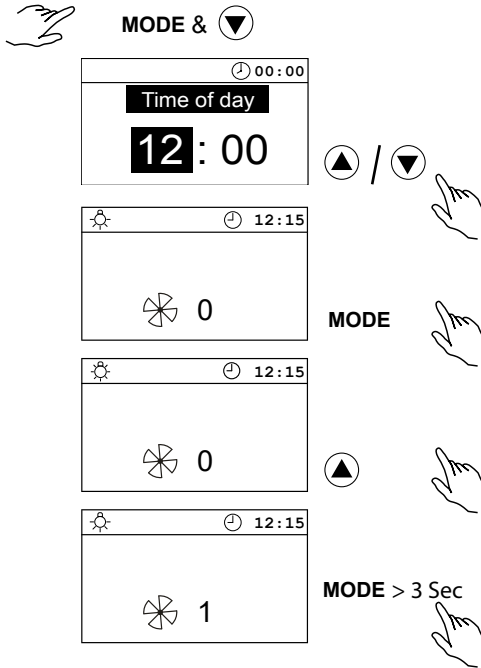
Set time if necessary.



MODE > 3 Sec

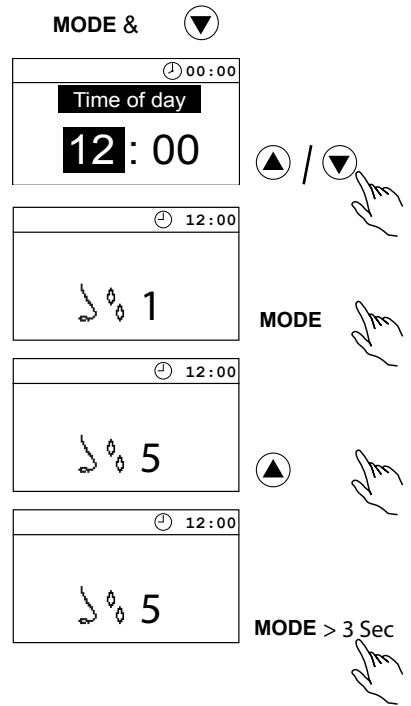


Fan mode adjustment

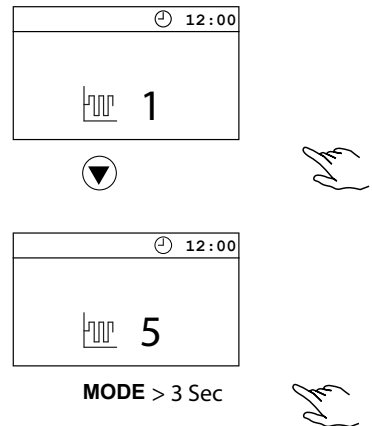
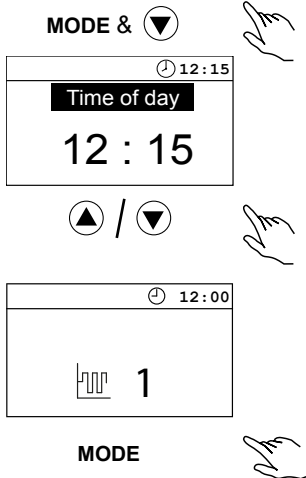


i	Possible settings:
	0 = Fan disabled (cabin-dry mode enabled)
	1 = Fan on during steam production intervals
	2 = Fan on during active heating

Adjustment of fragrance dosing



Hysteresis adjustment



Child lock (hotel mode)

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 active operation mode.

The unit can still be switched off if in active operation mode.

To activate

in stand by

⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--- --



&



> 3 Sec

in operation

⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--- --

🔑 ⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--- --

🔑 ⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	5:59
Start time	--- --

To deactivate

🔑 ⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--- --



&



> 3 Sec

🔑 ⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	5:59
Start time	--- --

⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--- --

⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--- --



Following functions are available by active child lock:

- Switching the heating off
- Light on or off

Switching the heating on

⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--- --



⏻ > 3 Sec

⏰ 12:00	
Temperature	30°C
Fragrance	10
Auto-Stop	6:00
Start time	--- --

Switching the heating off

⏰ 12:00	
Temperature	30°C
Fragrance	10
Auto-Stop	6:00
Start time	--- --



⏻ / Auto-Stop time

⏰ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--- --

Individual settings

You can adjust all parameters to suit your individual requirements. The parameters may be adjusted in stand-by and in active heating state, all changes will be saved in the memory. All adjustments made during active heating are applied immediately.

Temperature setting

Temperature control range: 30 - 50°C

Adjustment in Stand-by

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	---:--	



MODE

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	---:--	



MODE

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	---:--	



		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	---:--	



MODE > 3 Sec

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	---:--	



15 Sek. / > 3 Sec

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	---:--	

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	---:--	

Adjustment during active heating

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	---:--	



MODE

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	---:--	



MODE

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	---:--	



		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	---:--	



MODE > 3 Sec

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	---:--	

15 Sec

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	---:--	

Essence dosing intervals

Adjustment range: 1 - 30 minutes

During Stand-by

	🕒 12:00
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--:--

MODE

	🕒 12:00
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--:--



	🕒 12:00
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--:--

MODE

	🕒 12:00
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--:--



	🕒 12:00
Temperature	30°C
Fragrance	10
Auto-Stop	6:00
Start time	--:--

MODE > 3 sec.

During active heating

In the same way as described above but with the inverted interface.

Operation details

Essence dosing function becomes active if one of the two following conditions are met:

1. The steam room has reached the set point temperature and the control is in usual regulation phase.
2. The steam room is since at least 30 minutes in active heating mode.

The essence injection will only take place if there was steam production after the previous essence injection. Otherwise there will be no essence injection during the present cycle.

This prevents that an excessive quantity of essences collects in the steam pipe because the steam room has reached the set point temperature and there is no steam production (no steam flow in the steam pipeline).

Essence dosing adjustment

The dosing intervals may be adjusted in 1 minute steps within a 1 to 30 minutes range.

Setting the dosing intervals to "0" will switch the essence dosing off.

Dosing interval, min.	Injection duration, sec.	Essence quantity per cycle (grams)*
1	1	0,5 - 1
1	3	3
1	5	5 - 6
1	7	7 - 8
1	10	11 - 12
1	15	17 - 19

*For EOS dosing pump, depending on the position of the rotation rolls Injection duration per cycle is set during initial setup of the control unit (see page 19).



ATTENTION!

Do not use essences which may present a health risk by high concentration. Use only special essences for steam rooms.

Essence dosing with an external manual dosing switch

Alternatively to the automatic essence dosing you can switch the essence dosing manually through an optional remote switch button.

For connection see page 14.

Upon connection of the button the automatic dosing is as before possible. The switch will enable or disable the automatic dosing if the dosing interval is set to a value 1 - 30.

If the dosing interval is set to "0", then no automatic dosing will take place. In this case you can start/stop the dosing manually by swithing the button to "on" or "off". The duration of the dosing will correspond to the period of time when the dosing has been switched on. The maximum duration will be however limited in this case to max. 15 seconds per injection or as per pre-set dosing intensity.

The conditions for essence dosing are the same as described on the previous page.

The manual dosing can be switched on at any frequency. During steam production intervals it can be started only one time and will wait until the steam starts to be produced.

Notice: If after connection of the button no automatic essence dosing takes place the button has been probably set to "off" position. Press the button in such case to set it to the "on" position.

Auto-Stop / Heating time limitation

Auto-Stop is the heating time duration. After the heating time pre-set with this function expires the heating will automatically stop.

Default setting is 6 hours.

During Stand-by

⌚ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--:--

MODE

⌚ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--:--



⌚ 12:00	
Temperatur	30°C
Fragrance	30
Auto-Stop	6:00
Start time	--:--

MODE

⌚ 12:00	
Temperatur	30°C
Fragrance	30
Auto-Stop	5:59
Start time	--:--



⌚ 12:00	
Temperatur	30°C
Fragrance	30
Auto-Stop	5:59
Start time	--:--

MODE

⌚ 12:00	
Temperatur	30°C
Fragrance	30
Auto-Stop	3:59
Start time	--:--



NOTICE: Auto-Stop time is the heating time duration, not the stop time in real time!

⌚ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	3:30
Start time	--:--

MODE > 3 sec

⌚ 12:00	
Temperature	30°C
Fragrance	30
Auto-Stop	3:30
Start time	--:--

15 sec / ⏻ > 3 sec

⌚ 12:00	
Temperaturee	30°C
Fragrance	30
Auto-Stop	3:30
Start time	--:--

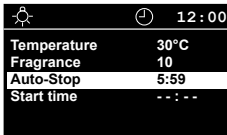
⌚ 12:00	
Temperature	30°C
Fragrance	10
Auto-Stop	3:29
Start time	--:--

After the heating is switched on the heating time will run as a countdown clock from pre-set time to "0:00". After the heating time expires the heating will stop and the Auto-Stop function will return to the last pre-set value (e.g. 3:30 as shown above).

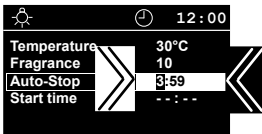
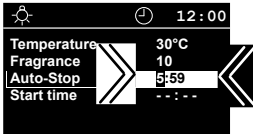
During active heating



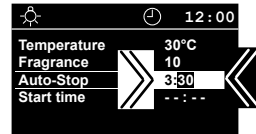
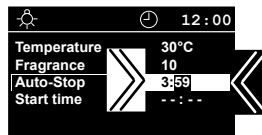
MODE



MODE



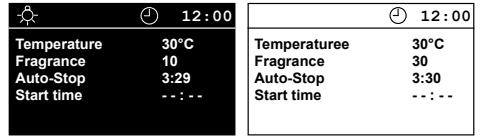
MODE



MODE > 3 sec



15 sec /



Heating time may be adjusted also during the heating. Once the new value is saved it will be overtaken and the countdown time will run from this new value to "0:00".

Time pre-selection

Start time pre-selection allows you to program the automatic start time up to 24 hours in advance or to get the heating switched on automatically at the given time on every day. This setting can be made in stand-by and during active heating.

i

If you wish to switch your sauna on manually make sure that the Start Time parameter is set to „--:--“. Attention - the value „00:00“ means that the heating will start at 0:00! During the active timer no manual switching is possible.

In Stand-by

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	--:--	

MODE

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	--:--	



		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	--:--	

MODE

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	--:--	



		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	17:--	

MODE

		12:00
Temperature	45°C	
Fragrance	30	
Auto-Stop	6:00	
Start time	17:--	



In operation

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	--:--	

MODE

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	--:--	



		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	--:--	

MODE

		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	--:--	



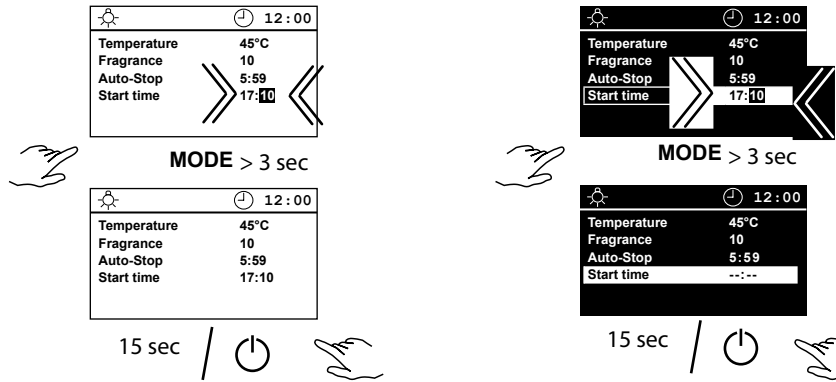
		12:00
Temperature	30°C	
Fragrance	30	
Auto-Stop	5:59	
Start time	17:--	

MODE

		12:00
Temperature	30°C	
Duftstoff	30	
Auto-Stop	5:59	
Start time	17:--	



continued on the nextpage



Temperature	45°C
Fragrance	10
Auto-Stop	5:59
Start time	17:10

Temperature	45°C
Fragrance	10
Auto-Stop	5:59
Start time	17:10

Temperature	45°C
Fragrance	10
Auto-Stop	5:59
Start time	17:10

Temperature	45°C
Fragrance	10
Auto-Stop	5:59
Start time	17:10

At pre-set time the control units will then automatically switch on:

Temperature	45°C	📶
Fragrance	10	
Auto-Stop	5:59	
Start time	17:10	

Single Event Timer / Recurring Switching Timer

Econ S2 features two possible time pre-selection timers - a single event timer and an automatic recurring switching timer.

By a single event timer the steam room will be

switched on only once. By recurrent switching timer the steam room will be switched on every day at the same time (helpful for commercial operation).

Single event timer

Press "on/off" for **1 sec.** ⏻ 1 sec

The "bell" symbol will appear to indicate the active timer condition. The start time will flash.

Temperature	45°C
Fragrance	10
Auto-Stop	5:59
Start time	17:10

The control unit will switch on at designated time and will operate for pre-set heating time.

Temperature	45°C	📶
Fragrance	10	
Auto-Stop	5:59	
Start time	17:10	

Recurring switching timer

Press "on/off" for **5 sec.** ⏻ 5 sec

The "bell" symbol will flash to indicate the recurring switching timer mode.

The start time will be flashing as well.

Temperature	45°C
Fragrance	10
Auto-Stop	5:59
Start time	17:10





The control unit will be then switching on at designated time every day and will operate for pre-set heating time.

Temperature	45°C	📶
Fragrance	10	
Auto-Stop	5:59	
Start time	17:10	

Notice: the display backlighting is illuminated by active start time pre-selection.


Deactivating the timer

Active timer mode is indicated by a bell symbol (continuous or flashing) and by a flashing start time.

		 12:00
Temperature		45°C
Fragrance		10
Auto-Stop		5:59
Start time		17:10



The “bell” symbol shall disappear. The timer is now deactivated.

		12:00
Temperature		45°C
Fragrance		10
Auto-Stop		5:59
Start time		17:10

i

Please remember that as long as there is any value indicated at the “start time” line the control unit is in timer mode (activated or deactivated) and may not be started manually.

If you wish to start the steam room manually set the start time to „--:--“ (see page 29 for details).

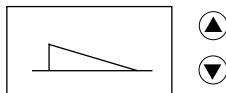


Holiday Home mode

In "Holiday Home" mode the control unit is locked so that a user will have a only few essential settings and functions at this disposal. If the control unit is in screensaver state it is offer the user to select a preferred operation language.

To enable or disable the Holiday Home mode press the "up" and "down" buttons while you switch on the power supply to the control unit and it boots (using the "Switch-Off switch").

1. Power off the unit
2. Press up+down keys
3. Switch power on
4. Let the unit boot while keeping the keys pressed

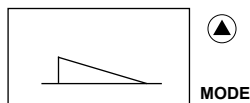


Holiday Park mode

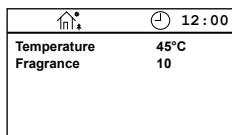
By "Holiday Park" all functions and settings except for heating on/off and light on/off are locked and not available.

No settings, such as setup, temperature, essence dosing, heating time are possible.

To enable or disable the Holiday Park mode press the "up" and "MODE" buttons while you switch on the power supply to the control unit and it boots (using the "Switch-Off switch").



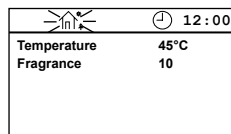
This setting will be permanently saved. A "Holiday Home" mode symbol will appear in the top line of the display:



The control unit behaves in Holiday Home mode as follows:

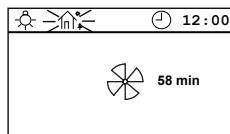
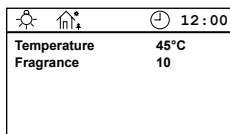
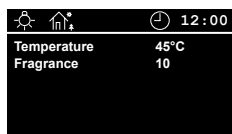
- Upon powering the unit on or upon waking the unit from screensaver state it will prompt a user to select the navigation language
- Timer, Life-Guard, Auto-Stop und Child Lock functions are not available.
- The setup menu is not available.
- The user can only switch the heating on/off, adjust temperature, adjust essence dosing intervals, switch the cabin light on/off.

This setting will be permanently saved. A "Holiday Park" mode symbol will appear flashing in the top line of the display:



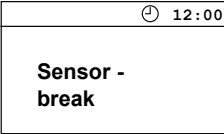
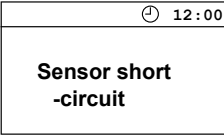
The control unit behaves in Holiday Park mode as follows:

- User can switch the heating on / off, user can switch the cabin light on/off.
- No other function or setting is possible.
- If the control unit is disconnected from power and re-started it will still start in Holiday Park mode.

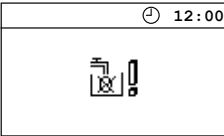
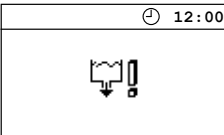
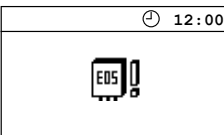
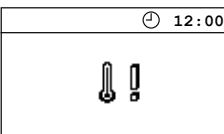
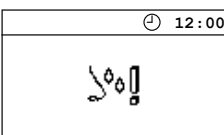


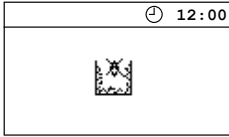
Error Messages & Troubleshooting

The control continuously monitors the temperature sensor as well as the connected steam generator (Steamtec II Basic only). Following are the possible error messages:

Error message	Possible fault	Remedy
 <p>Sensor - break</p>	<p>= interrupted room sensor circuit. The temperature sensor (KTY) is faulty, or the line to the temperature sensor is interrupted.</p>	<p>Arrange for a specialist to check the lines and sensor. The sensor at 20°C has approx. 1.9 kΩ, replace if necessary.</p>
 <p>Sensor short-circuit</p>	<p>= short-circuit in the sensor circuit temperature sensor (KTY) is faulty, or the line to the temperature sensor has a short circuit.</p>	<p>Arrange for a specialist to check the lines and the sensor.</p>

Error message (only in connection with SteamRock Basic steam generator)

 <p>Water tank filling error (steam generator)</p>	<p>Check the water supply to steam generator. Check the water filling valve.</p>
 <p>Draining error (steam generator)</p>	<p>Check the drain of the steam generator (e.g. may be blocked by scale debris). Clean if necessary.</p>
 <p>Steam generator error</p>	<p>Faulty connection to steam generator. Check if steam generator is switched on. Check connection cables.</p>
 <p>Overheating error</p>	
 <p>Essence container empty</p>	<p>Refill the container with essence for steam rooms.</p>



= **Descaler container empty**

Refill the descaler (cleaner) container of the steam generator.

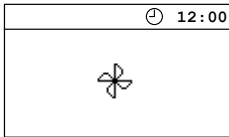
Other symbols / special modes

Symbol flashes

Temperature	45°C
Fragrance	10
Auto-Stop	6:00
Start time	-- : --

= **pending descaling / cleaning**

Steam generator waits for pending descaling / cleaning cycle.



= **cabin dry mode**

Control unit is in „cabin dry“ mode, extractor fan is switched on. Dry mode starts automatically after the heating is switched off and runs for 30 minutes.

The device „Switch-off“ switch

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

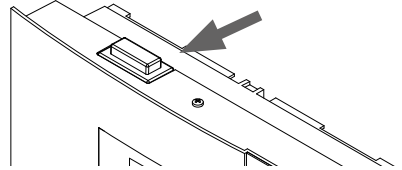
You will find this switch on the top side of the housing by Econ series control units and on the left side of the main relay box by control units of Emotec, EmoStyle and EmoTouch series.

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 switch by Emotec, EmoStyle, EmoTouch models



Switch-off rocker switch by Econ models

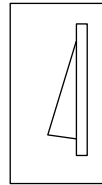


Attention! Parts of the printed circuit board will still remain energized in the switched off condition! Risk of electric shock!

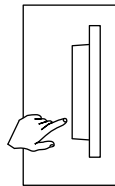
Press the switch on the lower side of the rocker to the first latch (**switch setting 0**). The switch will be in the middle position. The unit is now completely switched off (disconnected).

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

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.
(default Position I)



Device switched off
(completely);
Position 0.



Light enabled;
Device switched off.
Position II.



Device switched on.
Position I.



Recycling

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



Service Address:

EOS Saunatechnik GmbH
Schneiderstriesch 1

35759 Driedorf, Germany

Tel: +49 (0)2775 82-514

Fax: +49 (0)2775 82-431

servicecenter@eos-sauna.de

www.eos-sauna.de

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

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

Equipment commissioning date:

Stamp and signature of the authorized electrician:

General Terms and Conditions of Service

I. Scope

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

II. Prices and Payment Terms

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

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

There shall be no third-party billing.

III. Performance Obligations / Ordering Party's Cooperation

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

In the case of a warranty claim, the manufacturer shall make the replacement parts necessary for the service available to the Ordering Party free of charge.

IV. Service Visit by the manufacturer

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

V. Liability

The manufacturer shall assume liability in accordance with the currently applicable statutory regulations. The packaging for all of our products is designed for the shipping of individually packed goods (pallet). We expressly point out that our packaging is not suitable for individual

shipments via parcel post. The manufacturer shall accept no liability for damage incurred as a result of improper packaging in an individual shipment.

VI. Manufacturer's Warranty

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

- The warranty period shall commence from the date on which proof of purchase is provided and shall be limited, in principle, to 24 months.
- Warranty services shall be performed only if the proof of purchase relating to the equipment can be presented.
- Any and all warranty claims shall become void if modifications are made to the equipment without the manufacturer's express consent.
- Any warranty claim shall likewise become void in the case of defects that arise due to repairs or interventions made by unauthorized persons or due to improper use.
- In the case of warranty claims, the serial and article numbers must be indicated together with the designation and a meaningful description of the fault.
- This warranty shall cover defective equipment parts, with the exception of normal wear parts. Wear parts shall include, among other things, light sources, starters, gas or oil pressure dampers as well as acrylic glass panes, tubular heating elements and sauna heater stones.
- Only original replacement parts may be used within the warranty.
- Service visits by outside companies shall require a written order to be issued by our service department.
- The equipment in question shall be sent to our service department by the Ordering Party and at its expense.
- Electrical assembly and installation work, including in the event of service or replacement, shall be carried out at the Customer's expense and shall not be borne by the manufacturer.

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

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