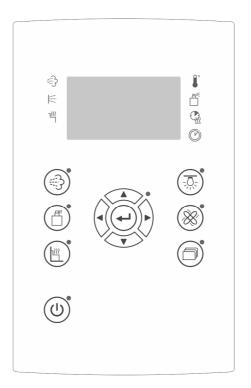


Operating manual

Steam bath control Series FCU2000/FCU3000/FCU4000





Doc-ID: B_FCUxxxx-Steam_EN

Version: V 2.03

FASEL GmbH Germany



Table of Contents

1	Safety		5
	1.1	Explanations of symbols	5
	2.1	Demands on the operator and technicians	5
	1.2	Intended use	6
	1.3	Changes and modifications	7
	1.4	Operational safety and special dangers	7
2	Identification	on	8
	2.1	Nameplate	8
3	Technical [Oata:	8
4	Design and	function	9
	4.1	Function	9
	4.1.1	Steam	9
	4.1.2	Aroma	9
	4.1.3	Seat heating – (optional)	9
	4.2	Operating and display elements	10
	4.2.1	FCUxxxx-Steam design and FCU-Steam design glass	10
	4.2.2	Control keys steam bath control	11
	4.2.3	Explanation of the display	13
	4.3	Display symbols	14
5	Operation .		15
	5.1	Safety and instructions	15
	5.2	Turn steam bath control on and off	16
	5.2.1	Turn steam bath control on	16
	5.2.2	Turn steam bath control off	16
	5.2.3	Select or start the mode	17
	5.3	Adjust "Steam bath" mode	17
	5.4	Adjust the set point temperature, heating time, remaining heating time a timer	
	5.4.1	Maximum allowed heating time	19
	5.4.2	Maximum allowed heating time	20
	5.5	Day timer	20
	5.5.1	Adjust the flavour feed	21
	5.6	Adjust the brightness of the cabin light (not for FCU2xxx)	22
	5.7	Adjust the cabin fan speed (not for FCU2xxx)	22
	5.8	Options menu	23
	5.8.1	Adjust bench temperature – (optional)	23
	5.8.2	RGB-LED brightness (only for FCU4xxx and menu "Pro")	23
	5.8.3	Colour light mode (including parameter description)	24
	5.8.4	Colour light start (only for menu "Pro")	26
6	"Basic sett	ings" menu	28



b. I	"Basic settings" - general	28
6.1.1	Time and Weekday	28
6.1.2	Weekly timer ON/OFF (only for FCU4xxx)	29
6.1.3	Program the weekly timer	29
6.1.4	Select program (only for FCU4xxx)	31
6.1.5	Adjust display lighting (not for FCU2xxx)	32
6.1.6	Adjust display contrast (only for FCU4xxx)	32
6.1.7	Light settings (only for menu "Pro")	33
6.1.8	Fan settings (only for menu "Pro")	34
6.2	"Basic settings" for options	36
6.2.1	RGB-LED settings (only for FCU4xxx and menu "Pro")	36
6.2.2	Colour light automatic (only for menu "Pro")	37
6.2.3	Versions and data (only for menu "Pro")	39
Options me	enu	40
7.1	Small/professional	40
7.2	Parental/Keypad lock	40
7.3	Select language	40
Maintenand	e	41
8.1	Cleaning	41
Malfunction	าร	41
General Infe	ormation	41
10.1	Liability limitation	41
10.2	Copyright	42
10.3	Scope of delivery	42
10.4	Spare parts	42
10.5	Customer service	42
10.6	43	
10.7	Safety and instructions	43
10.8	Malfunction messages	43
10.9	Acknowledge malfunction message	44
Decommiss	sioning and disposal	45
Setting value	ue	45
12.1	Setting value Steam bath	45
Declaration	of Conformity	45
ρ¥		46
	6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.1.7 6.1.8 6.2 6.2.1 6.2.2 6.2.3 Options me 7.1 7.2 7.3 Maintenanc 8.1 Malfunction General Inf 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 Decommiss Setting value 12.1 Declaration	6.1.1 Time and Weekday. 6.1.2 Weekly timer ON/OFF (only for FCU4xxx). 6.1.3 Program the weekly timer



1 Safety

1.1 Explanations of symbols

Warnings

Warnings in this operating manual are indicated through symbols. The instructions are introduced through signal words, which express the degree of danger.

Follow these instructions strictly and take care to avoid accidents, personal injuries and property damage.



DANGER!

...indicates an imminent dangerous situation, which could lead to loss of life or cause serious injuries if not avoided.



WARNING!

...indicates a possible dangerous situation, which can be fatal or cause serious injuries if not avoided.



CAUTION!

...indicates a possible dangerous situation, which could lead to small or slight injuries if not avoided.



ATTENTION!

...indicates a possible dangerous situation, which could lead to property damage if not avoided.

2.1 Demands on the operator and technicians

No special skills are required to operate the control unit.

The operating manual does not generally take the following into account:

Persons (including children)



- their physical, sensory or mental abilities or
- Lack of experience and / or knowledge which prevent the safe use of the device without supervision or instruction.
- Children playing with the device.

The operating instructions are to be read carefully before switching on the unit! To ensure safe operation and safe working practices you must comply with all the given safety and handling instructions.

If you have any doubts, please contact your customer service.

Inadequate qualifications



WARNING!

Danger caused by inadequate qualifications! Improper handling could lead to considerable personal injuries and damages to property.

Therefore:

The assembly, installation, commissioning, troubleshooting, maintenance and repair work should be carried out only by qualified persons unless otherwise mentioned.

Tips and recommendations



NOTE!

...highlights useful tips and recommendations as well as information for an efficient and smooth operation.

1.2 Intended use

The FASEL Steam bath controls of the series FCU2000, FCU3000 and FCU4000 are solely intended for operating and controlling steam bath cabins. The control units are approved for private and commercial use.

Intended use



CAUTION!

Danger caused by improper use!

Using the steam bath control for purposes other than the intended use could lead to dangerous situations.

Therefore:

- Use the steam bath control only for the intended purpose.
- Operate the steam bath control only within the permissible ambient temperature and humidity range. → See page 8.
- All the information in the operating and installation manual are to be strictly followed.
- When not in use switch off the main switch (230V) or fuses
- Before switching on the steam bath control make sure that no objects are placed on the oven.



Any damage claims which arise due to improper use are excluded. Only the user is responsible for damages caused by improper use.

1.3 Changes and modifications

Changes and modifications to the steam bath control or to the installation could lead to unexpected dangers.

The written approval of the manufacturer must be obtained before making any technical changes and enhancements to the steam bath control.

1.4 Operational safety and special dangers

Pay attention to the safety and warning notes in the following chapters of this manual to minimize health hazards and to avoid dangerous situations.

The following instructions are to be adhered for your own safety and the safety of the unit:

Electric potential



DANGER! Danger to life due to electric potential!

Contact with live components can be fatal.

Damage of the insulation of the individual components can be dangerous to life.

Therefore:

- For switching off the mains, the power supply cable must be equipped with a fuse with a contact opening width corresponding to the requirements of the excess voltage category III for total disconnection.
- Disconnect the unit from the mains before carrying out any work on it (switch off the fuse in the distribution box) and secure against restarting. Check for zero potential. The control device should be disconnected from the mains before opening the casing.
- In case of damage to the insulation, switch off the power supply immediately and carry out the repair.
- Work on electrical unit should be carried out by certified electricians only.
- Never bypass fuses or put them out of operation.
- While replacing fuses, pay attention to correct current specifications.
- Keep moisture away from live components, since it can lead to short circuit.



WARNING!

If a short circuit occurs in a 230V/400V load, the relay contact can be welded by the high short-circuit current. Is turned on before removing the short circuit, the safety relay can be also welded. This can lead to the continuous operation of the load. Turn off the circuit breaker in the distribuition box. Send the unit back to the factory for check/repair.



Improper operation



WARNING!

Improper operation can result in serious injuries!

Therefore:

- read and note the operating manual.

2 Identification

2.1 Nameplate

The nameplate is located on the control unit on the left side:

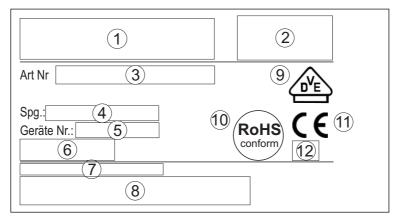


Fig.1 Control unit nameplate

- 1 Type designation
- 2 Company logo
- 3 Article number
- 4 Voltage and max. power
- 5 Device number
- 6 Barcode
- 7 Article number
- 8 Barcode article number
- 9 VDE mark (for devices that are approved by VDE)
- 10 RoHS marking
- 11 CE mark
- 12 Protection category

3 Technical Data:

Label	Туре		
	Series FCU2000 Series FCU3000 Series FCU4000		
Ambient temperature	0 °C to +40 °C With protective coating -20 °C to +40 °C		
Rel. humidity	max. 80 % r.H., non condensing		

Table 1: Technical Data



4 Design and function

4.1 Function

Depending on the model, the control unit is suitable for the following modes:

- Steam
- Aroma
- Seat heating (optional)

4.1.1 Steam

In the "Steam" mode, the cabin is heated to the desired temperature (set point temperature) with the help of a vaporiser. In order to maintain the desired temperature in the cabin, the control unit switches the vaporiser on and off.

As long as the vaporiser blows "steam" into the cabin, the status display "Steam generator" lights and the display shows "Heat-up phase". Once the desired temperature is reached, this message disappears. The cabin is ready for use.

4.1.2 Aroma

With the help of the "Aroma" function, you can select the time intervals and the duration, for which aromas will be blown into the cabin (blowing time). As long as aromas are blown, the status display shows "Aroma".

4.1.3 Seat heating – (optional)

In the "Seat heating" function, a steam bath bench with seat heating is additionally heated.

For this purpose, the "bench temperature", to which the bench should be heated, can be adjusted. As long as the seat heating is working, the status display "Seat heating" lights up.



4.2 Operating and display elements

4.2.1 FCUxxxx-Steam design and FCU-Steam design glass

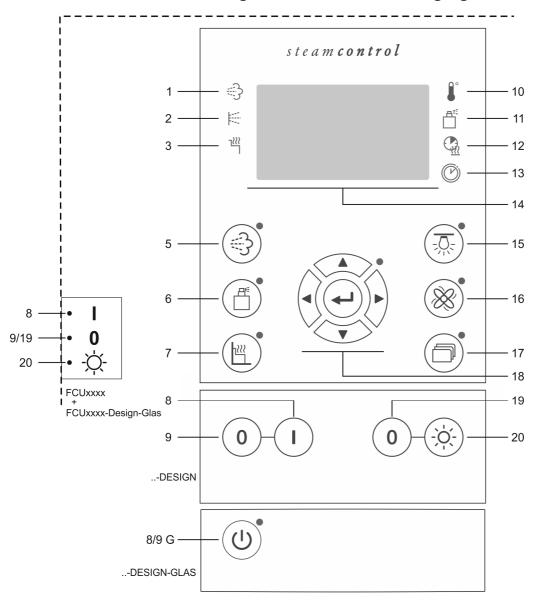


Fig. 2: View: Operation FCUxxxx-Steam design and FCUxxxx Steam design glass

- 1 Status display "Steam generator"
- 2 Status display "Aroma"
- 3 Status display "Seat heating"
- 5 "Steam bath" key
- 6 "Aroma" key
- 7 "Bench" key
- 8 Control unit ON (only design)
- 9 Control unit OFF (only design)

- 10 "Set temperature" symbol
- 11 "Set flavour" symbol
- 12 "Set or remaining heating time" symbol
- 13 "Set start time" symbol"
- 14 Display
- 15 Cabin light" key
- 16 "Fan" key"
- 17 "Basic settings" key
- 18 Navigation keys
- 19 Cleaning light OFF (only design)
- 20 Cleaning light ON (only design)



4.2.2 Control keys steam bath control

The steam bath control is equipped with the following control keys:

Key	Description		
3.5	"Steam" key		
₹ ?	Depending on the status of the green lamp, the "Steam" key has different functions.		
	Status lamp next to the key	Meaning	
	Flashes	■ Bathing mode "Steam" not active.	
		Control unit can be turned off using the "Control unit OFF" switch.	
	Lights up	■ "Steam" mode is turned on.	
		If the option "Seat Heater" is available, then the "Seat Heater" is enabled simultaneously and ad- justed to the desired temperature.	
	"Aroma" key		
		he lamp can be switched on and off	
	Status lamp next to the key	Meaning	
	Does not light up	Main menu is displayed.	
		, ,	
	Lights up	"Aroma" menu is activated and the interval setting pause/spray can be changed.	
		For hose refilling, the button must pressed longer than 2s. Then the flavour pump runs continuously as long as the button is pressed.	
_			
<u> </u>	"Bench" key (optional By pressing the "Bench "key, the lamp can be switched on and off.		
	Status lamp next to the key	Meaning The "Coast Heater" is toward off	
	Does not light up	■ The "Seat Heater" is turned off.	
	Lights up	The "Seat Heater" is enabled and controls to the desired temperature.	
-0-	"Cabin light" key	pressing the key, the light is turned on or off and the	
71	menu for adjusting the brightne		
		enabled, the light is enabled only as long as the Light key external dimmers can be controlled, the internal dimmer	
%	"Fan speed" key		
Turn the fan on and off. By pressing the key, the fan is turned on or off for adjusting the fan speed is automatically displayed.			





Key	Description
	"Basics menu settings" key
	Call "Basic settings menu".
A	 Navigate upwards within the menu. Navigate one line upwards in the display. Increase the value by one. Select option
▼	 Navigate downwards within the menu. Navigate one line downwards in the display. Reduce the value by one. Select option
•	 Change mode ON: (the green lamp next to navigation keys lights up): Move cursor to the left. Change mode OFF: (the green lamp next to navigation keys does not light up): Go back to the parent menu.
>	 Change mode ON: (the green lamp next to navigation keys lights up): Move cursor to the right. Change mode OFF: (the green lamp next to navigation keys does not light up): Call sub-menu.
4	 Call sub-menu. Turn on change mode. Digit flashes. Accept value (and go back into the parent menu).
0 🌣	Keys "Cleaning light OFF" and "Cleaning light ON" (only FCUxxxx Steam and FCUxxxx-Steam design, not for FCUxxxx Steam design glass) Use these keys to turn the cleaning light on and off. The control unit need not be turned on.
0 1	Keys "Control unit OFF" and "Control unit ON" (only FCUxxxx-Steam and FCUxxxx-Steam design) Turn the power line for the control device on and offf.
(h)	 "Activate/ deactivate control standby " key (only FCU4x00 design glass) ■ Turn the control unit standby on and off. ■ To prevent uncontrolled switching on and off, when cleaning the keyboard, the control is automatically after two minutes in the off-state. In this state, only the LED of the Standby-Key is lighting. To restart or start a mode, press for 0.5 − 1 second the corresponding key. From Software-Version 5.25.

Table: 2 Control keys steam bath control



4.2.3 Explanation of the display

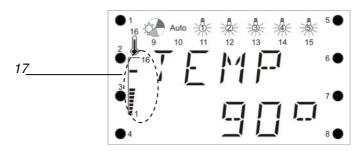


Fig. 3: Explanation of the FCU2xxx display

- 1-8 indicates which symbol or status display is currently enabled.
- 9 Colour wheel indicates whether colour light option is available.
- 10 Auto / manual
- 11-14 Colour lamps 1-4
- 15 Supply to the colour box
- 16 Thermometer is visible as soon as a value is shown on the bar graph.
- 17 The bar graph shows the actual and the set point temperature. In figure 4, the upper bar represents the set point temperature (90 °C) to be reached. The lower bars represent the actual temperature (60 °C).



4.3 Display symbols

The following symbols can appear in the display of the FCU4x00 control:

Display elements	Description
1	Temperature
å [©]	Aroma
<u></u>	Heating time
<u>®</u>	Remaining heating time
ဖ	Start time
京	Light
*	Fan
⊕ ⊼	Colour light
Ľ.	Bench temperature
<u> </u>	Time
∄ ७	Weekly timer
	Display lighting
₽0	Display contrast
υ	ON / OFF

Table: 3 Display symbols

The following symbols can appear in the display of the FCU2x00 and FCU3x00 control:

Display elements	Description
v'	Selection checkmark
占	0 / 1
(1	Enter

Table: 4 Display symbols FCU2x00/FCU3x00



5 Operation

5.1 Safety and instructions

Electric potential



DANGER!

Danger to life due to electric potential!

Touching live parts can cause immediate danger to life.

Therefore:

- Control unit should be opened only by authorised electricians.
- Electrical work on the machine should be carried out only by qualified electricians.

Improper operation



WARNING!

Improper operation can result in serious injuries!

Therefore:

- Carry out all the operating steps according to this operating manual.

Danger of fire



WARNING!

Danger of injury caused by fire!

Objects on the heater or in the vicinity of the heater can cause a fire and thus result in injuries.

Therefore:

Always keep the heater and the area around the heater free of objects.

Health hazard



WARNING!

Danger of injury caused by covering the temperature sensor and / or the humidistat!

Covering the temperature sensor and / or the humidistat could lead to increased temperatures and humidity. These increased levels could lead to health hazards or serious injuries.

Therefore:

- Do not cover the temperature sensor and humidistat.
- Ensure free circulation of air.





NOTE!

The temperature values displayed on additional thermometers in the cabin can deviate from the displayed values on the control. This could be due to the following reasons:

Depending on the cabin, the temperature differences from the floor to the ceiling can be considerably.

Instruments with indicator needles react slower than electrical measuring and display systems used for the control.

5.2 Turn steam bath control on and off

5.2.1 Turn steam bath control on

Ensure that the steam inlet, the surrounding area and the sensors are free of objects.

- 1. Turn on the steam bath control using the "Control unit ON" key. \rightarrow See page 14, Fig. 2
- 2. The set point temperature, the aroma settings and the heating time are displayed. The green lamp of the "Steam bath" key flashes.
- 3. Start mode according to chapter.5.2.3.

5.2.2 Turn steam bath control off



PLEASE NOTE!

The electronic components can be damaged by repeated improper turning off!

Therefore:

- Turn off the steam bath control as described.



PLEASE NOTE!

Cabin damage for e.g. mould growth due to premature stopping of the fan after-run time!

In order to remove the moisture in the steam bath room, you can set a fan after-run time in the basic setting menu after completion of the steam bath programme. This ensures that the fan is running for the extra time you have set after the steam bath operation. This function is used to avoid cabin damage such as mould growth.

Therefore:

Do not stop the fan after-run time prematurely.

The "Steam bath" mode is selected. The corresponding green lamp lights up.

- 1. Press the key of the "steam bath" mode. The green lamp next to the key flashes.
- 2. The green lamp of the "steam bath" mode flashes. Turn off the steam bath control using the "Control unit OFF" key. → See page 10, Fig. 2



5.2.3 Select or start the mode

Mode select

- 1. Turn on steam bath control according to chapter 5.2.1.
- 2. The green lamp of the "Steam bath" mode flashes.
- 3. Press the key for the "Steam bath" mode. The lamp flashes. Mode was started.

Key	Description
3	Steam bath mode

Table: 5 Mode control keys

5.3 Adjust "Steam bath" mode



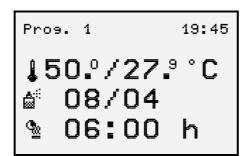
NOTE!

There are two menu navigations available for the control unit. All the menus are displayed only in the "Professional" menu. These menus are indicated accordingly in this chapter. If these menus are not displayed, your control has been set to the "Small" menu \rightarrow See also page 39.

Furthermore, the control unit can be equipped with extension boards like for e.g. for colour light. This requires additional menus, which are indicated accordingly in this chapter. For information about the fittings of your steam bath control, please contact the installer or the dealer of your steam bath system.

The control unit is turned on.

- 1. The lamp next to the "Steam bath" key must flash or light up.
- 2. Following view is displayed:



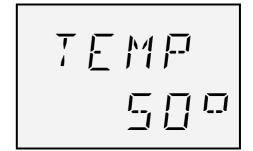


Fig. 4: "Steam bath" view (example)

- 3. Press the ▼ key.
- 4. The symbol \P (adjust the temperature) lights up. \rightarrow See page 18, chapter 5.4.
- 5. Press the ▼ key.
- 6. The symbol $\stackrel{\clubsuit^{;;}}{\bowtie}$ (Adjust aroma) lights up. \rightarrow See page 21, chapter 5.5.1.
- 7. Press the ▼ key



- 8. The symbol (adjust heating / remaining heating time) lights up.
- 9. Depending on the status of the lamp next to the mode key, adjust the heating time or the remaining heating time. → See page 18, chapter 5.4.
- 10. Press the ▼ key.
- 11. Menu option Professional: "Light brightness" view is displayed.
 - \rightarrow See page 22, chapter 5.6.
- 12. Press the ▼ key.
- 13. Menu option "Professional": "Fan speed level view is displayed.
 - \rightarrow See page 22, chapter 5.7.
- 14. Press the ▼ key.
- 15. Optional: The "Bench temperature" view is displayed.
 - \rightarrow See page 23, chapter 5.8.1.
- 16. Press the ▼ key.
- 17. Optional: "Adjust colour light mode" view is displayed.
 - \rightarrow See page 25, Fig. 11.
- 18. Press the ▼ key. The "Steam bath" view (Fig. 4) is displayed again.



NOTE!

If the key is not operated for a few seconds, the program automatically switches back to the "main" view. (If the controller has a timer and it is active, he switches into the timer menu.)

5.4 Adjust the set point temperature, heating time, remaining heating time and timer

The following example describes how to adjust the set point temperature.

The heating time, the remaining heating time and the timer are adjusted similarly. Note the following points:

- If you want to adjust the set point temperature, heating time, remaining heating time or the timer, the corresponding symbol must light up at the right of the display. That is, the symbol "Temperature" should light up if you want to adjust the temperature.
- The heating time and the remaining heating time use the same symbol. The value which you adjust depends on the status of the lamp next to the mode key.



Heating time	Remaining heating time
The heating time is the operating time for the "Steam bath" mode.	The remaining heating time is the remaining time when the "Steam bath" mode is turned on. The remaining heating time is reduced automatically.
The heating time can be adjusted if the lamp next to the "Steam bath" mode key flashes.	The remaining heating time can be adjusted if the lamp next to the "Steam bath" mode key lights up. The modified remaining heating time does not change the programmed heating time.

Table: 6 Heating time / remaining heating time

- The timer may be enabled or disabled depending on the setting. In the series FCU2000-Steam and FCU3000-Steam, weekly timer is not available.
- 1. The "Steam bath" (Fig. 4) is displayed.
- 2. Press the ▼ key till the symbol **l** (adjust temperature) lights up.
- 3. Press the **◄** key.
- 4. Following view is displayed:

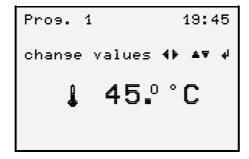




Fig. 5: "Change values" view (example)

- 6. Adjust the desired value:

Press the ▼ key: Reduce value.

Press the key: Increase value.

Note!

After the digit "9" or "0", the higher digit of the temperature value is changed. That is "40" is displayed after "39".

You can also select the higher digit using the ₹ key or ▶ key and then change.

5.4.1 Maximum allowed heating time

After starting a mode, the remaining heating time is displayed in place of the full heating time. The heating time can be changed only in standby mode.



The EN 60335-2-53 "Specific requirements for sauna heating devices" allows the following maximum heating times:

Max. heating time	Description
more than 12 hours	Public cabins which are supervised by trained personnel.
max. 12 hours	Hotels, apartment blocks, etc.
max. 6 hours	All other cabins / private households

Table: 7 Maximum heating time

The control devices are delivered with a maximum adjustable heating time of 6 hours. If you need heating times exceeding 6 hours, please contact the installer or the dealer of your sauna system.

5.4.2 Maximum allowed heating time

After starting a mode, the remaining heating time is displayed in place of the full heating time. The heating time can be changed only in standby mode.

The EN 60335-2-53 "Specific requirements for sauna heating devices" allows the following maximum heating times:

Max. heating time	Description
more than 12 hours	Public cabins which are supervised by trained personnel.
max. 12 hours	Hotels, apartment blocks, etc.
max. 6 hours	All other cabins / private households

Table: 8 Maximum heating time

The control devices are delivered with a maximum adjustable heating time of 6 hours. If you need heating times exceeding 6 hours, please contact the installer or the dealer of your sauna system.

5.5 Day timer



NOTE!

The timer may not be enabled without additional safety measures by your service technician and therefore it can be disabled (the menu does not appear).

- 1. Press the ▼-key until the symbol ② (adjust timer) lights up.
- 2. Adjust desired time (see above)
- Press the

 √-key to adjust the value.
- 4. Press the mode-key (flashes)
- 5. Symbol Of flashes.
- 6. For turning off the timer, please turn off the control unit or press mode-key once for starting and once again for stopping.



5.5.1 Adjust the flavour feed

The control unit is turned on.

1. Press the (Adjust flavour) key or ▼ key till the following view is displayed.

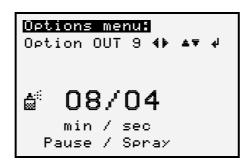




Fig. 6: " flavour feed" view (example)

- 3. Adjust the desired parameters "Pause (in min.) / Spray (in sec.)".

Change between "Pause" and "Spray".

Press ▶ key: Move the cursor to the right.

Adjust the desired value.

Press the ▼ key: reduce value.

Press the **key**: increase value.

Note!

After the digit "9" or "0", the higher digit of the temperature value is changed. That is "20" is displayed after "19".

You can also select the higher digit using the

✓ key or

✓ key and then change.

Parameter	Description
Spray	Duration of flavour feed in seconds
Pause	Time between two flavour feeds in minutes.

Table 9: Parameter description menu " flavour feed"



NOTE!

If the key is not operated for a few seconds, the program automatically switches back to the "main" view. (If the controller has a timer and it is active, he switches into the timer menu.)



5.6 Adjust the brightness of the cabin light (not for FCU2xxx)

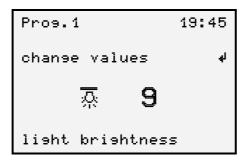




Fig. 7: "Light brightness" (example)

- 1. Select setting "light brightness". Either:
 - Press key to turn on the light or
 - From the main view "adjusting a mode", press the

 key until the menu "Light brightness" is displayed.
- 3. Value flashes.
- 4. Adjust the desired value:

Press the ▼ key: Reduce value.

Press the ▲ key: Increase value.

0: darker 9: brighter

5.7 Adjust the cabin fan speed (not for FCU2xxx)

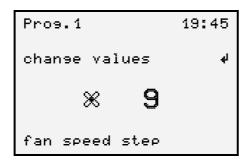




Fig. 8: "Fan speed" view (example)

- 1. Select "Fan speed" setting. Either:

 - From the main view "adjusting a mode", press the ✓ key until the menu "Light brightness" is displayed.
- 2. Press the **◄** key:
- 3. Value flashes.
- 4. Adjust the desired value:



Press the $\overline{\mathbf{v}}$ key: Reduce value.

Press the **key**: Increase value.

0: slow step 9: quick step

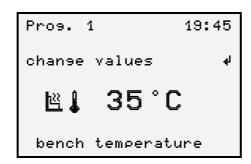
5.8 Options menu

5.8.1 Adjust bench temperature – (optional)



NOTE!

The menu "bench temperature" is only available if this option is available in your device.



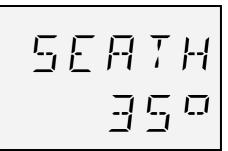


Fig. 9: "Options menu (bench temperature)" view (example)

In this menu, you can adjust the set point value for "bench temperature" within the possible operating range. Change the values as described in chapter 5.4.

5.8.2 RGB-LED brightness (only for FCU4xxx and menu "Pro")

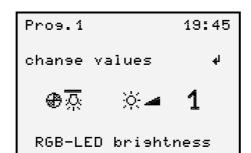


NOTE!

The "RGB-LED brightness" menu is only available for control devices which are connected to a RGB-LED control from the company Licht2000.

In this menu you can set the brightness of the RGB-LEDs.

1. V-Press the key until you see the following view:



Not available with FCU2000 and FCU3000!



Fig. 10: View "RGB-LED brightness"

3. Select RGB-LED brightness. Digit flashes.

Press the key: Increase value.

Press the ▼ key: Reduce value.

There are 4 brightness levels possible.

4. Press the **◄** key. The selection is saved.

5.8.3 Colour light mode (including parameter description)



NOTE!

The "Colour light mode" menu is only available for control devices with the extension board type FCU-EXT-COLOR LIGHT or a RGB-LED control from the company Licht2000.

In this menu, you can adjust the coloured lights. The following table shows the parameters and their explanations.

Parameter	Description
OFF / ON	 OFF: The colour light mode is off. ON: The colour light mode is on. The colour lights are controlled either directly (manual) or by an automatic program (auto).
Manual / Auto	 The option "ON" must be selected. Manual: The colour lights are manually controlled using this "Colour light mode". See parameters "1 / 2 / 3 / 4". Auto: The colour lights are controlled automatically. Select the desired colour program using the parameter "colour program". For the "Auto" option, you can make further adjustments in the "Colour light automatic" menu.
Colour program	The options "ON" and "auto" must be selected. 2 colour programs are available. These programs can be setup in the menu. "basic settings"
Lamps 1/2/3/4	The options "ON" and "manual" must be selected. Depending on the settings in the service menu, you can select single or mixed colours. Single colours are: 1 / 2 / 3 or 4. Mixed colours are combinations of two colour lights. The following combinations are possible: 1 + 2 / 2 + 3 or 3 + 4.

Table: 10 Parameter description menu "mode colour light"

- 1. Select "colour light mode".
- 2. Following view is displayed:



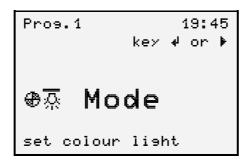




Fig. 11: View "colour light mode"

- 4. Following view is displayed:

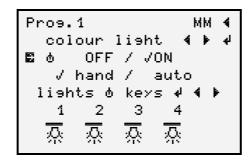




Fig. 12: View "Set colour light – change mode" (example)

- 5. Select one of the following lines with the ▼ or ▲ key:
- 7. Select option OFF or ON. "OFF / ON" line is enabled.
 - OFF is enabled.
 - ► Key: without function
 - ■ Key: Select "ON".
 - ON is enabled.
 - Key: Select "OFF".
 - ≺ Key: without function
- 8. Press the **◄** key. The selection is saved.
- 9. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 10. Select option "manual" or "auto". "Manual / Auto" line is enabled. The options "manual" or "auto" do only work if the "ON" option is enabled.
 - "manual" is enabled.
 - Key: without function



- ► Key: Select "auto".
- "auto" is enabled. The symbol "auto" (symbol no. 10) appears in the display.
 - Key: Select "manual".
 - ► Key: without function

- 13. If the option "auto" is selected, the line "colour program no." is displayed. Select "colour program no." and enable.
 - "1" is displayed for "colour program no."
 - ▼ Key: without function
 - ▲ Key: Select colour program no. 2.
 - "2" is displayed for "colour program no."
 - ▼ Key: Select colour program no. 1.
 - ▲ Key: without function
- 14. Press the **◄** key. The selection is saved.
- 15. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 16. If the option "manual" is selected, the active colour lamps are displayed. With the option "lamps", the number of colour lamps can be edited.
- 17. Select one or two (mixed colour) colour lights with the ◀ or ▶ key. The following combinations are possible:

$$-1/1+2/2/2+3/3/3+4$$
 and 4

Note!

The possibility of selecting mixed colours is set in the service menu. For modification requests, contact the installer or dealer of your sauna system.

- 18. Press the **◄** key. The selection is saved.
- 19. Exit the menu using the ◀ key. The "colour light mode" view (fig. 10) is displayed.

5.8.4 Colour light start (only for menu "Pro")



NOTE!

The "Colour light start" menu is only available for control devices with the extension board type FCU-EXT-COLOR LIGHT or a RGB-LED control from the company Licht2000.

Here you can set the starting time for the colour light.

Option		Description
FCU4x00	FCU2x00/FCU3x00	
If power on	:F.P0	Start, as soon as control device is switched on.
On heat-up phase	не.иР	Start, as soon as a mode is active.
If bath is ready	BARE	Start, as soon as the set point temperature is reached.

Table 11: Parameter description menu "colour light"

- 1. Select "colour light start".
- 2. Following view is displayed:





Fig. 13: View "colour light start"

- 4. Following view is displayed:

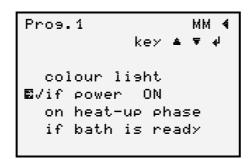




Fig. 14: View "Set colour light start – change mode" (example)

5. Select one of the following lines with the ▼ or ▲ key:

If power ON
 On heat-up phase
 If bath his ready

- 7. Exit the menu using the ◀ key. The view "colour light start" (Fig. 13) is displayed.



6 "Basic settings" menu

6.1 "Basic settings" - general

6.1.1 Time and Weekday

In this menu you can set the time and the weekday.

- 1. Press key (basic settings). The lamp next to the key must light. The weekday appears only, if the weekly timer is released.
- 2. The following view is shown:

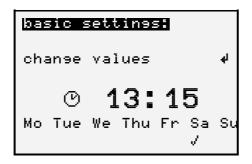




Fig. 15: View "Change values" (example)

- Press

 -key.
- 4. The following view is shown:

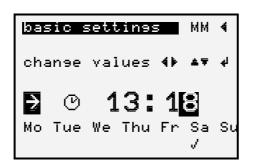




Fig. 16: View "Change values – change mode" (example)

- 5. Select one of the following lines with the keys ▼- or ▲:
 - Time (\rightarrow point 7)
 - Weekday (→ point 10) (only at FCU4xxx and if the weekly timer is enabled)
- 6. Press

 -key. Selected line is activated.
- 7. Set the desired time. Last digit flashes.
 - Press ▼ -key: reduce value.
 - Press ▲ -key: increase value.
 - Press **◄** -key: move cursor left.
 - Press ▶ -key: move cursor right.
- 8. Press **◄** -key. The selection is saved.
- 9. Exit the menu by using the ◀-key or select the next line with the ▼ or ▲ -key.

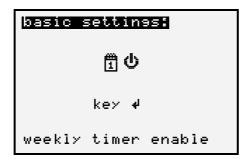


- 10. Select desired weekday. Check mark flashes.
 - Press **⋖**-key: move cursor left.
 - Press ▶ -key: move cursor right.
- 12. Leave menu with < -key.

6.1.2 Weekly timer ON/OFF (only for FCU4xxx)

The timer appears only if the weekly timer is enabled. In this menu you can enable the weekly timer (enable Service menu).

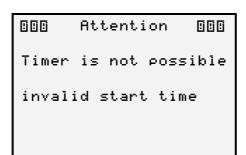
1. Following view is displayed:



Not available with FCU2000 and FCU3000

Fig. 17: Weekly timer enabled. – Check mark not set (example)

- 3. The following message is shown on the display: Please inspect the cabin and check the steam inlet. Nothing must be positioned on the steam inlet.
- 4. Message will disappear automatically.
- 5. Following view is displayed if no valid start time is programmed. In that case, programme a start time first.



Not available with FCU2000 and FCU3000

Fig. 18: Start time (example)

6.1.3 Program the weekly timer

The timer appears only if the weekly timer is enabled.

In this menu, you can set the weekly program. You can program 2 start times for each day.

1. Press (basic settings) The lamp next to the key must light up.

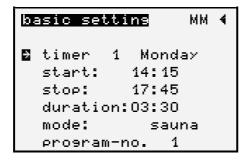


2. ▼ - Press the key until you see the following view:



Not available with FCU2000 and FCU3000

Fig. 19: "Program the weekly timer" view



Not available with FCU2000 and FCU3000

Fig. 20: "Program the weekly timer" view (example)

- 4. Select one of the following lines with the ▼ or ▲ key:
 - Timer (\rightarrow point 6)
 - Start (\rightarrow point 9)
 - Stop (\rightarrow point 12)
 - Duration (→ point 12)
 - Mode (→ point15)
 - Programme no. (\rightarrow point 18)
- 5. Press the ≰key. Selected line is enabled. Cursor flashes.
- 6. Adjust timer. Digit flashes. Each day is assigned two numbers. For Monday the numbers are 1 and 2, for Tuesday 3 and 4, etc.
 - Press the ▼ key: Reduce value. (Select weekday)
 - Press the \(\Lambda \) key: Increase value. (Select weekday)
- 7. Press the 4 key. The selection is saved.
- 8. Select the next line with the ▼ or ▲ key.
- 9. Setup start time. Last digit flashes.
 - Press the ▼ key: Reduce value.
 - Press the key: Increase value.
 - Press the ◀ key: Move cursor to the left.
 - Press the ▶ key: Move cursor to the right.

Here you set the time when the timer is started. If you change the start time, the duration changes automatically.



- 10. Press the **◄** key. The selection is saved.
- 11. Select the next line with the ▼ or ▲ key.
- 12. You can set the stop time (end) and the duration similar to the start time. If you change the end time, the duration changes automatically.
- 13. Press the **◄** key. The selection is saved.
- 14. Select the next line with the ▼ or ▲ key.
- Select mode. Cursor flashes.
 Select the mode with the ▼ or ▲ key.
- 16. Press the **◄** key. The selection is saved.
- 17. Select the next line with the ▼ or ▲ key.
- 18. Select program no. Digit flashes.Press the ▼ key: Reduce value.Press the ▲ key: Increase value.
- 19. Press the **◄** key. The selection is saved.
- 20. Exit the menu using the

 key.

6.1.4 Select program (only for FCU4xxx)



Note!

For each mode there exist 8 programs which are freely adjustable. . The program numbers are shown on the display. (These 8 freely adjustable programs may be locked by the service engineer.)

In this menu you can select 1 of 8 programs.

- 1. Press key "basic settings". The lamp next to the key must light.
- 2. Press ▼-key until the following view is shown:



Not available with FCU2000 and FCU3000

Abb. 21: View "select program" (example)

- 4. Select desired program with the keys ▲ or. ▼
- 5. Confirm with key 4



6.1.5 Adjust display lighting (not for FCU2xxx)

In this menu you adjust the brightness of the display.

- 1. Press (basic settings) The lamp next to the key must light up.
- 2. Press the ▼ key until you see the following view:





Fig. 22: "Display lighting" view (example)

- 4. Value flashes.
- 5. Adjust the desired value:

Press the ▼ key: Reduce value.

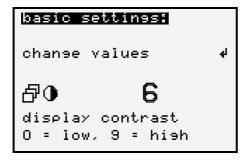
Press the key: Increase value.

- 0: dark
- 9: bright
- 7. Exit the menu using the ◀ key.

6.1.6 Adjust display contrast (only for FCU4xxx)

In this menu you can change the contrast of your display.

- 1. Press key "basic settings". The lamp next to the key must light.
- 2. Press the ▼-key until the following view is shown:



Not available with FCU2xxx and FCU3xxx

Fig. 23: View "light settings" (example)

- 4. Select desired contrast with the keys ▲ or ▼.



6.1.7 Light settings (only for menu "Pro")

In this menu you can set the time, when the light should go on and how long it should stay on after the end of a mode.

- 1. Press (basic settings) The lamp next to the key must light up.
- 2. Press the ▼ key until you see the following view:



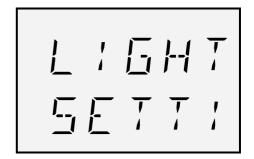


Fig. 24: "Light settings" view (example)

- 4. Following view is displayed:

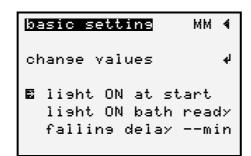




Fig. 25: "Light settings – change mode" view (example)

Select one of the following lines with the ▼ or ▲ key:

 Light ON at start 	START	NΠ	$(\rightarrow point 7)$
 Light ON if mode ready 	ьяге	NΠ	$(\rightarrow point 11)$
 Falling delay time x min 	ċdELR −	- M ! N	(→ point 15)

Note!

Only the option "light ON at start" or "light ON if mode ready" can be selected.

- 7. Option "light ON upon starting" is enabled. Cursor flashes on the selected line. Press the ▲ key. Check mark is set (option selected). Press the ▼ key: Check mark is deleted (option not selected).
- 9. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 10. Press the **◄** key. The selected line is enabled.
- 11. Option "light ON after heat-up phase" is enabled. Cursor flashes on the selected line.



Press the ▲ key. Check mark is set (option selected).

Press the ▼ key: Check mark is deleted (option not selected).

- 12. Press the **◄** key. The selection is saved.
- 13. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 15. Adjust the time for turn off delay. Digit flashes.

Press the ▼ key: Reduce value.

Press the \(\bigcap \) key: Increase value.

Press the

key: Select left digit.

Press the ▶ key: Select right digit.

- 17. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 18. Option "light OFF at drying" is enabled. Cursor flashes on the selected line. Press the ▲ key. Check mark is set (option selected).

Press the ▼ key: Check mark is deleted (option not selected).

- 19. Press the **◄** key. The selected line is enabled.
- 20. Exit the menu using the ◀ key.

6.1.8 Fan settings (only for menu "Pro")

In this menu you can set the following:

- The mode in which the fan is turned on.
- Follow-up time of the fan, if the mode is completed.
- 1. Press (basic settings) The lamp next to the key must light up.
- 2. Press the ▼ key until you see the following view:

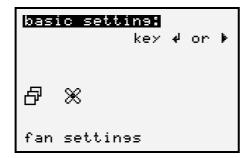




Fig. 26: "Fan settings" view (example)

- 4. Following view is displayed:



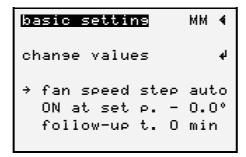




Fig. 27: "Fan settings – change mode" view (example)

5. Select one of the following lines with the ▼ or ▲ key:

- Fan level AUTO $5.9470 \times 10^{-1} \times 10^{-1}$

Note!

Several modes can be selected, in which the fan is turned on.

- 6. Press the **◄** key. Selected line is enabled.
- 7. Select fan level AUTO option. Cursor flashes on the selected line. With this option, the fan speed is automatically controlled.
 - Press the ▲ key. Check mark is set (option selected).
 - Press the ▼ key: Check mark is deleted (option not selected).
- 8. Press the **◄** key. The selection is saved.
- 9. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 10. Press the **◄** key. Selected line is enabled.
- 11. Select ON at set point -.- option. Cursor flashes on the selected line. Here, you can select at how many degrees should the fan be switched on before reaching the set point temperature.
 - Press the **key**: Increase value.
 - Press the ▼ key: Reduce value.
 - Press the ◀ key: Move cursor to the left.
 - Press the ▶ key: Move cursor to the right.
- 12. Press the **◄** key. The selection is saved.
- 13. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 15. Adjust the follow up time. Last digit flashes.
 - Press the A key: Increase value.
 - Press the ▼ key: Reduce value.
 - Press the ◀ key: Move cursor to the left.
 - Press the ▶ key: Move cursor to the right.
- 16. Press the **◄** key. Selected value is accepted.
 - 17. Exit the menu using the ◀ key.



6.2 "Basic settings" for options



NOTE!

These menus appear only if the corresponding options board is available in the control unit.

6.2.1 RGB-LED settings (only for FCU4xxx and menu "Pro")

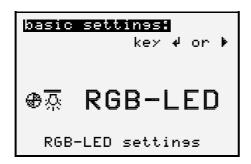


HINWEIS!

The "RGB-LED settings" menu is only available for control devices which are connected to a RGB-LED control from the company Licht2000.

In this menu you can program the fading time (the time for a smooth colour transition from one colour to another) for RGB-LEDs.

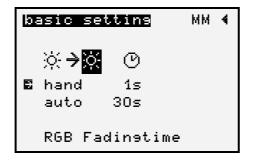
- Press key (basic settings). The lamp next to the key must light.
- 2. ▼ Press the key until you see the following view:



Not available with FCU2000 and FCU3000!

Fig. 28: "RGB-LED settings" view

- 3. Press the **⋠** key.
- 4. Following view is displayed:



Not available with FCU2000 and FCU3000!

Fig. 29: "RGB fading time – change mode" view (example)

- 5. Select one of the following lines with the ▼ or ▲ key:
 - hand (\rightarrow point 7)
 - auto (\rightarrow point 10)



- 7. Select hand. Cursor flashes on the selected line.
 - Press the **key**: Increase value.
 - Press the ▼ key: Reduce value.

There is a maximum time period of 3 seconds possible.

- 8. Press the **◄** key. The selection is saved.
- 9. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 10. Adjust auto. Last digit flashes.
 - Press the key: Increase value.
 - Press the ▼ key: Reduce value.
 - Press the ◀ key: Select left digit.
 - Press the key: Select right digit.

There is a maximum time period of 50 seconds possible.

- 11. Press the **◄** key. The selection is saved.
- 12. Exit the menu using the ◀ key.

6.2.2 Colour light automatic (only for menu "Pro")



Note!

The "Colour light automatic" menu is only available for control devices with the extension board type FCU-EXT-COLOR LIGHT or a RGB-LED control from the company Licht2000.

In this menu you can program the sequence, if you have selected the "Auto" option in the "Colour light mode". → See operating instructions for program settings.

- 1. Press (basic settings) The lamp next to the key must light up.
- 2. Press the ▼ key until you see the following view:





Fig. 30: "Colour light automatic" view (example)

- 4. Following view is displayed:







Fig. 31: "Colour light automatic - change mode" view (example)

- 5. Select one of the following lines with the ▼ or ▲ key:
- 7. Select colour program no. Cursor flashes on the selected line.
 - Press the key. Increase value.
 - Press the ▼ key: Reduce value.
- 8. Press the **◄** key. The selection is saved.
- 9. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 10. Select program step. Digit flashes.
 - Press the A key. Increase value.
 - Press the ▼ key: Reduce value.
 - 16 program steps are possible.
- 11. Press the **◄** key. The selection is saved.
- 12. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 13. Adjust duration. Last digit flashes.
 - Press the key. Increase value.
 - Press the ▼ key: Reduce value.
 - Press the ◀ key: Move cursor to the left.
 - Press the ▶ key: Move cursor to the right.
 - A maximum duration of 32 minutes is possible.

Important!

If you enter "0", the colour light programme automatically goes back to programme step no. 1 during the programme run, i.e. after you enter the colour combination for the last programme step, you must enter a "0" in the next programme step.

- 14. Press the **◄** key. The selection is saved.
- 15. Exit the menu using the ◀ key or select the next line with the ▼ or ▲ key.
- 16. Select adjusted colour. Cursor flashes. Select one or two (mixed colour) colour lights with the ◀ or ▶ key. The following combinations are possible:
 - -1/1+2/2/2+3/3/3+4 and 4



- 17. Press the **key**. The selection is saved.
- 18. Exit the menu using the

 key.

6.2.3 Versions and data (only for menu "Pro")

This menu is used for service to, for e.g., quickly find the cause of fault with the versions given here.

- 1. Press (basic settings) Tkey. The lamp next to the key must light up.
- 2. Press the ▼ key until you see the following view:



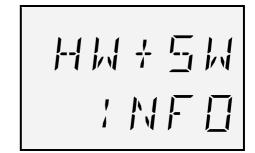


Fig. 32: "Versions and data" view (example)

- 3. Press the **◄** key.
- 4. Following view is displayed:



Fig. 33: "HW and SW versions" view (example)

- 5. With the ▼ or ▲ key you can navigate within the menu. The following information is displayed here:
 - Software version of the control board and the keyboard PCB
 - Device configuration
 - Customer configuration
 - Configuration of the optional inputs and outputs
- Exit the menu with the ◀ key.



7 Options menu

7.1 Small/professional

The control unit offers two menu navigations "small" and "professional".

The menu "small" includes the main menu items. The menu "professional" includes all menu items. Typically, the menu navigation "small" is sufficient.

You can change the menu as follows:

- Press the ▲ key.
- Press the ▲ and the key "basic settings" simultaneously.
- - Switch from "small" to "professional" menu: Press the ▲ key.
 - Switch from "professional" to "small" menu: Press the ▼ key.

7.2 Parental/Keypad lock

From this menu it is also possible to lock or unlock various keys.

You can lock or unlock the keys as follows:

- 2. The text "Lock and unlock individual keys. If the LED next to the key lights up, this key is locked" appears on the display.
- 3. Now press the keys that need to be locked or unlocked.
- 4. Press the ◀ and ▶ keys simultaneously to apply changes and navigate back to the "Small / Professional" menu.

7.3 Select language

Besides, there is the possibility to change the language of the menu guide. You can change the language from menu "Small/Profi" in the following way:

- Press the ▲ or ▼ key to get to the language selection menu.
- 3. Press the ▲ or ▼ key to select the desired language.



8 Maintenance

The steam bath controls are maintenance free.

8.1 Cleaning

Aggressive cleaning agents and additives



PLEASE NOTE! Device damage possible!

Aggressive cleaning agents and additives can damage or destroy the electrical components and cable.

Therefore:

- Do not use cleaning agents and additives with aggressive substances.
- 1. Turn off control device and secure against turning on (turn off circuit breakers.)
- 2. Clean the housing only from the outside with a damp soft cloth. The housing must not be opened.

9 Malfunctions

10 General Information

10.1 Liability limitation

All the details and instructions in this manual have been compiled taking into consideration the relevant standard specifications and stipulations and the state-of-the-art technology as well as our knowledge and experience of many years.

The manufacturer does not take any liability for damages caused by:

Non-compliance to the operating and installation manual

Improper use

Unauthorized alterations

Technical changes

Use of unapproved spare parts and consumables.

The actual scope of delivery can deviate from the explanations and the presentation given here in case of special designs, additional orders or technical updates.

Otherwise the obligations agreed upon in the delivery contract, the general business conditions as well as the delivery terms of the manufacturer and the legal regulations valid at the time of concluding the agreement are applicable

Guarantee

The guarantee period of the manufacturer starts from the time of dispatch by the manufacturer and is valid for 24 months. The delivery date can be determined from the device number on the nameplate.

The manufacturer does not assume any liability which differs from this regulation. Guarantee claims must be submitted to the sauna manufacturer or dealer.



10.2 Copyright

Handing over the operating and installation manual to a third party without the written consent of the manufacturer is not permitted.



NOTE!

The details, texts, drawings, pictures and other representations in this manual are protected by copyright and subjected to the industrial proprietary laws. Any misuse is liable to punishment.

Reproduction in any manner or form – even as excerpt- as well as use and/or conveying of the content without written consent of the manufacturer is not permitted.

10.3 Scope of delivery

For information on the scope of delivery, pl. see the delivery note.

10.4 Spare parts



CAUTION

Danger of injury due to incorrect spare parts

Incorrect or defective spare parts could lead to damage, incorrect functioning or total breakdown and can impair the safety.

Therefore:

- Use only original spare parts of the manufacturer.
- Repairs of the sauna control should be carried out only by the technical experts.

Obtain spare parts from the installer or the dealer of the sauna unit. For address see the invoice, delivery note or the reverse of the manual.

10.5 Customer service

Your dealer or the installer of the sauna unit can provide technical information on request.

The address you can find on the invoice, delivery note or the reverse of this manual.



NOTE!

For quick processing, before calling note down the data on the nameplate as well as the model, serial number, version etc..



10.6

10.7 Safety and instructions

Electric potential



DANGER!

Danger to life due to electric potential!

Touching live parts can cause immediate danger to life.

Therefore:

- Control unit should be opened only by authorised electricians.
- Electrical work on the machine should be carried out only by qualified electricians.

Improper operation



WARNING!

Improper operation can result in serious injuries!

Therefore:

- Carry out all the operating steps according to this operating manual.

Danger of fire



WARNING!

Danger of injury caused by fire!

Objects on the heater or in the vicinity of the heater can cause a fire and thus result in injuries.

Therefore:

Always keep the heater and the area around the heater free of objects.

Health hazard



WARNING!

Danger of injury caused by covering the temperature sensor and / or the humidistat!

Covering the temperature sensor and / or the humidistat could lead to increased temperatures and humidity. These increased levels could lead to health hazards or serious injuries.

Therefore:

- Do not cover the temperature sensor and humidistat.
- Ensure free circulation of air.

10.8 Malfunction messages

Possible malfunctions and troubleshooting measures are described in this chapter.

Contact the installer or the dealer of your steam bath system for malfunctions that are not described below. See the delivery note or the reverse of this manual for the address.

If the error occurs during operation, then the display alternately shows the cause, the error number and the possible rectification.



If the error cannot be rectified by the end user, please note down the shown display and contact your service technician.

No.	Malfunction	Possible causes	Troubleshooting	To be carried out by
000	Internal time error	Internal time error		Service engi- neer
100	STB circuit open, STB	The connection to the safety temperature limiter (STB) is broken or the thermal fuse was destroyed by very high temperature.	Check STB.Check cable.Check terminals 29 and 30.	Electrician / ser- vice engineer
200	Heater sensor short circuit	Short circuit heater sensor	Check cable.Check terminals 27 and 28.	Electrician / ser- vice engineer
201	Heater sensor in- terruption	Cable break heater sensor Contact terminals	Check cable.Check terminals 27 and 28.	Electrician / ser- vice engineer
210	Bench sensor short circuit	Short circuit bench sensor	Check cable.Check terminals 31 and 32.	Electrician/ Service engi- neer
211	Bench sensor interruption	Cable break bench sensor Contact terminals	Check cable.Check terminals 31 and 32.	Electrician / ser- vice engineer
400	External malfunction message	Optional input of control unit, for example, Gas burner.	Acknowledge error. Rectify malfunction in external device.	User / Service engi- neer
11C	I ² C error	Error on I ² C bus	Disconnect mains, wait for some time and turn on again. If error occurs again then contact the service technician.	Service engi- neer
485	RS485 error	Error on RS485 bus	Disconnect mains, wait for some time and turn on again. If error occurs again then contact the service technician.	Service engi- neer
999	Internal time error	Internal time error		Service engi- neer

Table 12: Malfunction messages

10.9 Acknowledge malfunction message

- 1. Rectify the cause of the message.
- 2. Press the key for about 2 seconds. Message disappears.



11 Decommissioning and disposal

- Do not dispose the sauna control with household waste.
- Dispose the control unit according to the respective country-specific regulations.

12 Setting value

12.1 Setting value Steam bath

	min.	max.
Temperature	35℃	50℃
Operating time	00:15 h	06:00 h (20:00 h *)

^{*} The control units will be delivered with a maximum heating time of 6 hours. When you need a longer heating time than 6 hours, contact the installer of the dealer of your steam bath.

13 Declaration of Conformity

The electronics of the FCU2000 and FCU3000 equipment are identical to the FCU4400 equipment.

The current Declaration of Conformity can be found on the Internet at www.fasel-gmbh.de under "Control units for wellness, sauna and spa / Service / Downloads"

Index

Ь	N	
Basic operation menu12 Basic setting36	Nameplate	8
C	0	
	Operating elements	
Cabin light11 Cabin light settings33	Operation	
	Operational saftey	7
Cleaning41 Cleaning light12	S	
Conformity declaration45	Safety	5
Control keys11	Operation	
Control unit ON / OFF12	Scope of delivery	
Copyright42	Seat heating	
Customer service42	select program	
	Setting	
D	Aroma feed	21
Decommissioning45	Bench temperature	
Display elements10	Cabin fan speed	
Disposal45	Cabin light brightness	
E	Colour light	
Electric potential7	Colour light, auto	
Explanations of symbols5	Day timer	
·	Display lighting	32
F	Heating time	18
Fan11	Remaining heating time	18
Fan setting34	Set point temperature	18
Function9	Time, Weekday	28
G	Timer	
General Information41	Weekly timer	
Guarantee41	Special dangers	
	Start mode	
I	Steam	
Identification8	Steam bath"mode"	17
Improper operation8	Symbols	
Instructions	Display	14
Operations 15, 43	Т	
Intended use6	Technical Data:	8
L	Turn off control unit	
Liability limitation41	Turn on steam bath control unit	
·	Turning off	
М	Turning on	
Maintenance41	V	
Malfunction messages44		
Malfunctions41	Versions and data	39
Mode	W	
Steam9	Warnings	5

