



Sauna Controller

Installation and Operating Manual v2.3





1. Warnings	3
General warnings	3
Safety Warnings	3
Stove - requirements	3
2. General description	4
Controller	4
Temperature sensor and thermal protection	5
RGB LED Control Box (optional)	5
3. System Installation	6
controller	6
Alivida Touch control panel	6
Temperature sensor and thermal protection	7
4. Electrical connections	8
5. Settings	9
6. System Booting	10
User environment	10
Start	11
Set date and time	12
Sauna function	13
Delayed start	14
Lighting	15
Aromatherapy	16
Option menu	17
7. Messages and Error Codes	18
8. Technical data	19



1. Warnings

General warnings:

Read all chapters of this manual carefully before you start installing the sauna controller. Keep this manual for the entire life of the product. Always follow the instructions in this manual or in the manual of the accessories.

Do not make any adjustments to the sauna controller and do not perform maintenance of any kind. There are live parts in this product. Maintenance and service of such a product should only be performed by specialized or qualified personnel. This product is intended for adults. Do not allow use of the product by children under 8 years old, persons with reduced physical, mental or sensory condition. The product should not be used by people with insufficient knowledge or experience. It is advised to consult personal medical advice before using the product. Check whether the mains supply is suitable for the electrical input of the sauna controller.

Any form of warranty becomes void if adjustments are made to the device or if the installation manual is deviated from.

Safety Warnings:

The installation of the system must comply with the safety requirements of the laws and regulations of the place of use.

Heater Requirements Alivida Sauna Controller:

The Alivida Sauna Controller can control heaters with the following features:

- heaters with heating elements: Maximum 3*3.0 kW / 230V.

Note: The Alivida Sauna Controller can be powered with 1 phase (230V) or 3 phase (380V+N).

Removal regulations:

Disposal of electrical equipment should be collected separately, in accordance with local regulations on waste disposal.



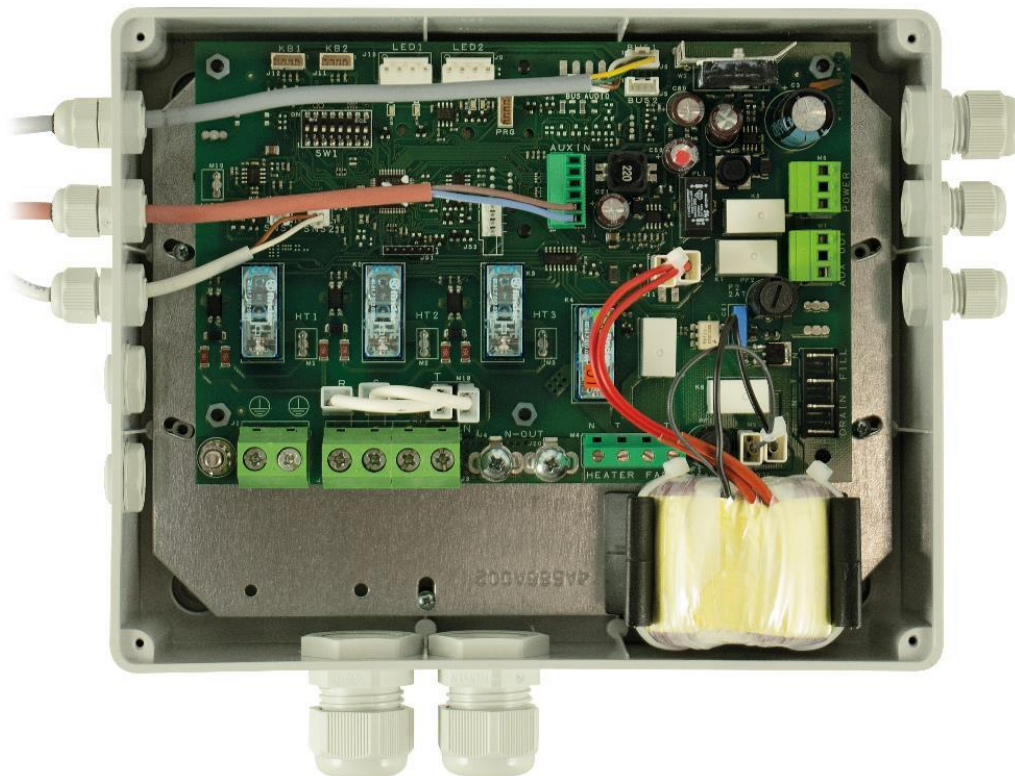
2. General description

The Alivida Sauna Controller regulates the power of sauna heaters which is controlled by the Alivida Touch Control Panel.

The Sauna Controller consists of the following components:

- Alivida Sauna Control Box.
- Alivida Touch Control Panel.
- Temperature sensor and thermal protection.

controller



The controller senses the temperature of the sauna using the temperature sensor. This temperature sensor switches the heating elements in the stove on and off in order to maintain the set temperature with an accuracy of +/- 2°C. The temperature sensor is an NTC which is provided with a 2 core cable with a length of 3.5 meters. This cable is provided with a screw connector.

Pay attention! When the thermal protection is activated, the system stops. All functions will be disabled until the thermal protection problem is resolved.



Temperature sensor and thermal protection

The temperature sensor is standard equipped with a 3.5 meter cable. It can be extended using an optional extension cable. This temperature sensor must be mounted in the supplied sensor holder. The thermal protector breaks the circuit when the maximum temperature is reached. All functions of the sauna controller are disabled. According to the safety rules, the heating element will not break immediately, but will be switched off via the electronics. This thermal protection cannot therefore be regarded as a safety element!



RGB LED Control Box (optional)

The RGB LED Control Box makes it possible to control a total of 150 Watts of RGB LED strips. This RGB LED Control Box is connected to the sauna control controller via a Buss cable. Through the display of the sauna controller you can choose from 2 color change programs and a number of fixed colors.



3. System Installation

PAY ATTENTION! Check that the cable length is correct before you start installing the sauna controller.

Controller

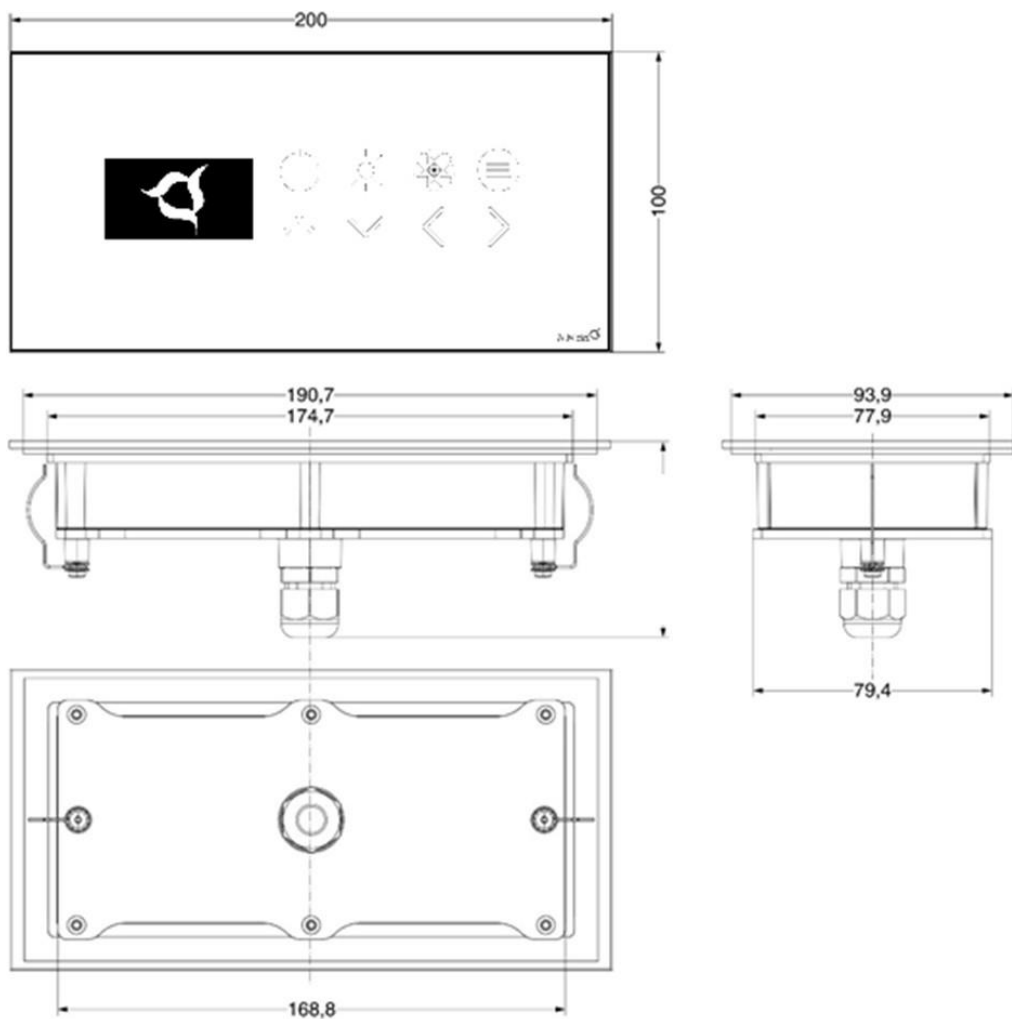
- Install the controller in a safe place out of reach of the end user.
- Attach the controller with the correct clips.

Alivida Touch control panel

- The control panel can be mounted on the inside or outside of the sauna.

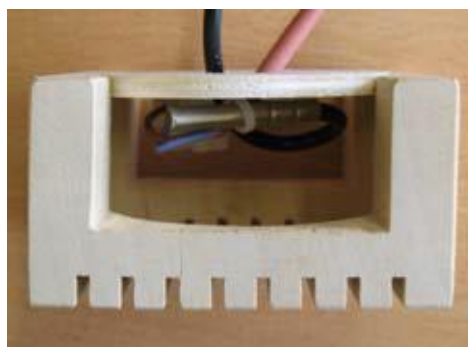
PAY ATTENTION! If it is chosen to place the control panel on the inside of the sauna cabin, it may only be mounted at a maximum height of 110 cm from the floor. Damage to the control panel due to overheating is **not** covered by the warranty!

Dimensions:



Temperature sensor and thermal protection

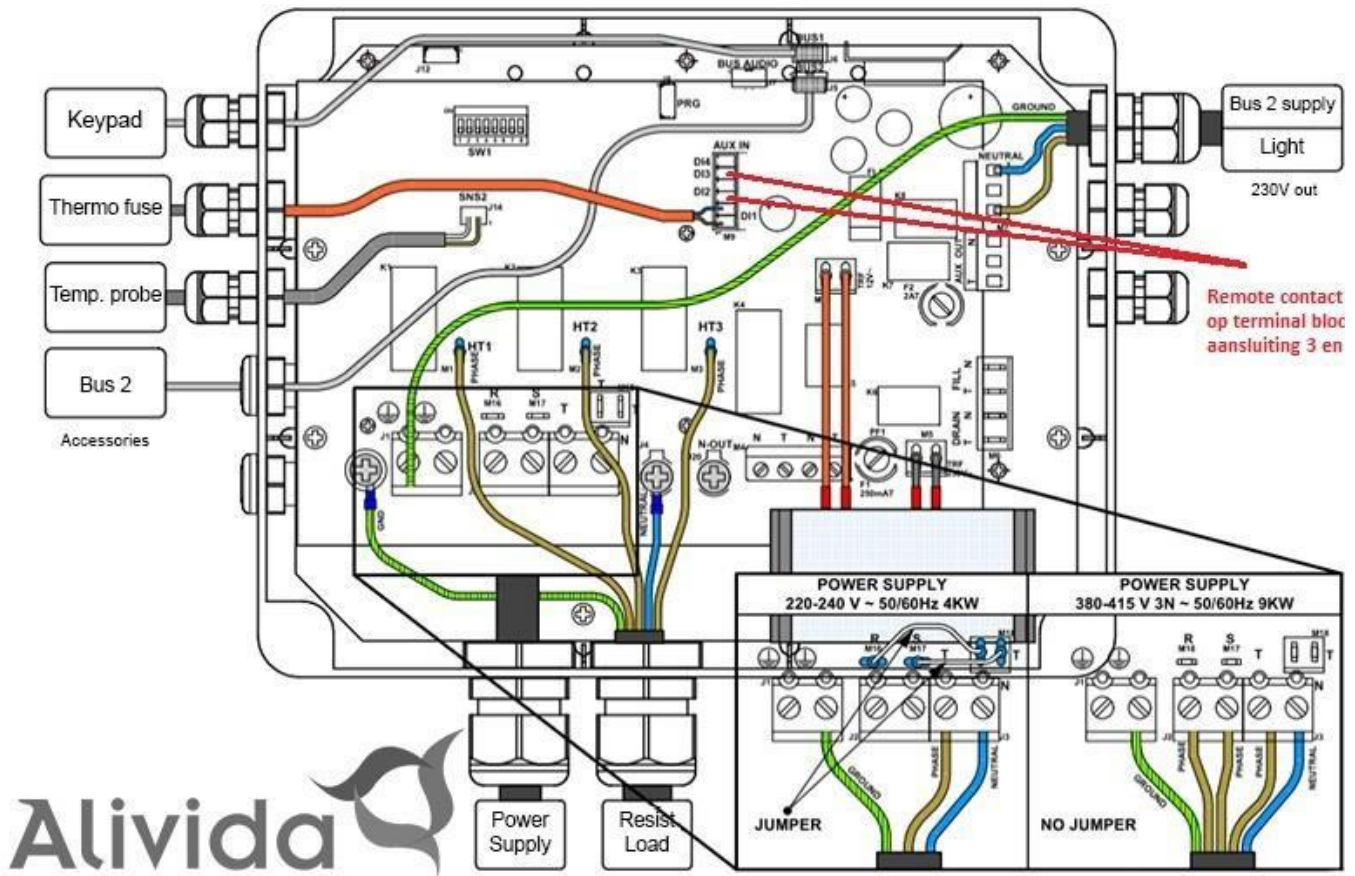
Place the temperature sensor in the housing. Place the sensor cover over the housing and fix it with the 2 screws provided.



Mounting location of the temperature sensor

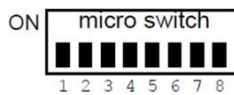
- In the ceiling of the sauna cabin.
- In the center of the door, +/- 20 to 30 cm from the door.

4. Electrical connections



5. Settings

Configure the system according to the dip-switch setting below (sw v1.1)











Dip Switch Nummer	ON / OFF	Means
1	OFF	Default
2	OFF	Default
3	OFF	Default
4	OFF	Heating element nummer 1 installed
	ON	Heating element nummer 1 NOT installed
5	OFF	Heating element nummer 2 installed
	ON	Heating element nummer 2 NOT installed
6	OFF	Heating element nummer 3 installed
	ON	Heating element nummer 3 NOT installed
7	OFF	Default
8	OFF	Default

6. System Boot:

User environment



ICOON	FUNCTIE
	On/off
	Light: With the light button the lighting is switched on/off. When the RGB LED option is connected, the user can also control the color lighting using this button.
	Aroma: When the aromatherapy option is enabled, the user can adjust its Intensity in 3 levels.
	Option: When optional accessories are connected, such as cleaning light, or an Extra output, these can be operated using the option button.
	Up Arrow: This arrow key allows the user to navigate through the menu structure. This key is also used to increase a value shown in the display.
	Down Arrow: This arrow key allows the user to navigate through the menu structure. This key is also used to decrease a value shown in the display.
	Left Arrow: This arrow key allows the user to navigate through the menu structure.
	Right arrow: This arrow key allows the user to navigate through the menu structure.



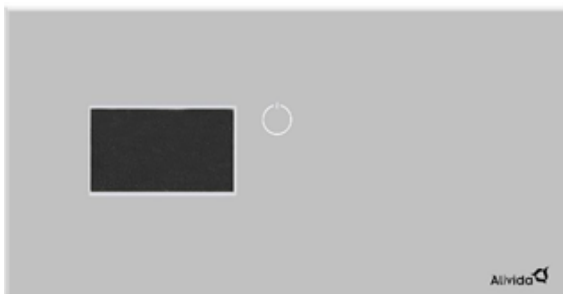
Start

Switch on the main voltage. The Alivida logo appears in the display.

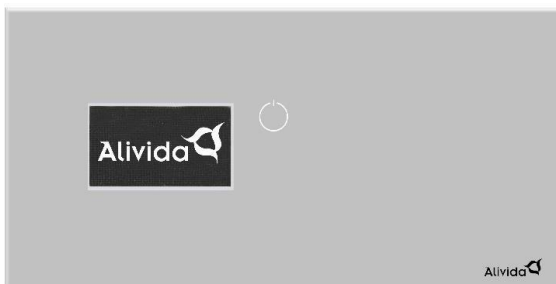
Wait for the system to initialize (+/- 8 seconds).

Start up control panel

In standby mode, the sauna control is in rest position. The on/off button on the display shows a dim white light. By pressing the on/off button, the control comes out of rest mode.



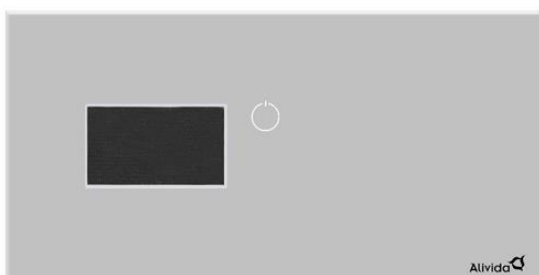
The display starts up after which the Alivida logo is displayed.



After start-up, the display will show the current date, time and temperature.



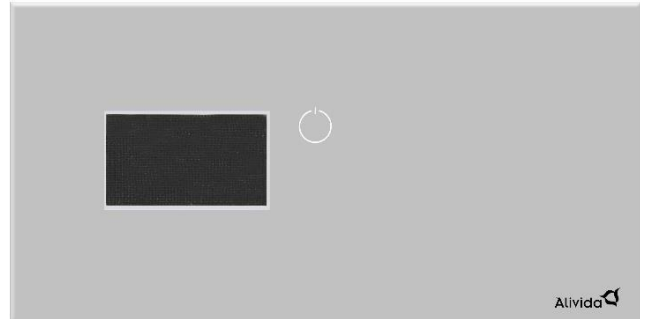
The display will return to idle mode if no button is pressed for more than 5 seconds.





Set date and time

Press the on/off button so that the control comes out of Idle Mode.



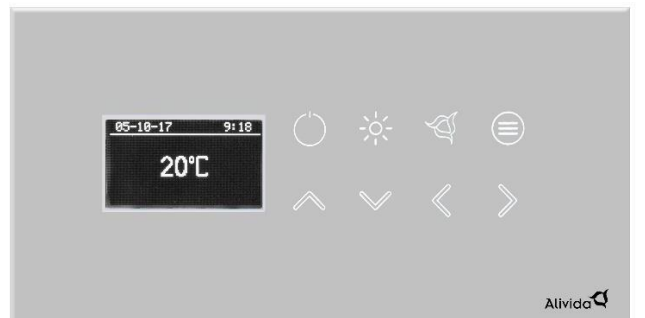
The display starts up after which the Alivida logo is displayed.



After startup, the display will show the current date, time and temperature.



Press and hold the “aroma” button for 3 seconds until you hear a beep and the date starts flashing. After that you can use the navigation keys to adjust the date and time. Confirm the date and time by pressing and holding the “aroma” button for 3 seconds.



Sauna function

From idle mode, press the “on/off” button.
The display will start up.



When the “on/off” button is pressed again,
the parameters for the temperature and the session
time will appear in the display.
The “on/off” button will flash blue. With the arrow keys
you can change the temperature and the session time.
By pressing the “on/off” button again, the sauna
session will be started.



After activating the sauna session, the current
temperature is shown in the display.
The “on/off” button now lights up continuously in blue.



If you wish to stop the sauna session, press
and hold the “on/off” button for 3 seconds.
The display will go into idle mode 5 seconds later.





Delayed start function

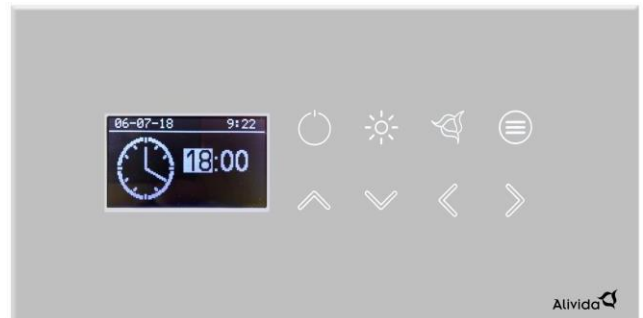
From idle mode, press the “on/off” button.
The display will start up.



When the “on/off” button is pressed again,
the parameters for the temperature and
the session time will appear in the display.
The “on/off” button will flash blue. Use the arrow keys
to change the temperature and session time.



To activate a delayed start, press the “option” button.
A clock will then appear in the display.
With the navigation keys you can adjust the start time.



The delayed start time appears in the display.
START: XX:XX. When the time of the delayed start time
is reached, the sauna oven switches on and heats up
to the set temperature.

PAY ATTENTION!

Always check the sauna before switching on
a delayed start time. Make sure that the door
of the sauna is closed and that there is nothing
on top of the stove.



Lighting

When the “light” button is pressed, the lighting in the cabin will be switched on. Press the button again to switch off the lighting. The lighting will turn off automatically after 3 hours.



RGB color light (optional)

If the cabin is equipped with the RGB color light option, after pressing the “light” button, a submenu appears after which the user can choose from 3 available functions. With the arrow keys you can navigate through the different functions



Solid color



Use the “arrow” keys to choose one of the available solid colors.

RELAX Cycle



An automatic color change program (red, orange, white, green)

ENERGY Cycle



An automatic color change program (blue, light blue, white, orange)

Aromatherapy:

If the sauna is equipped with aromatherapy (cold scent atomization), it can be activated as soon as the sauna session is active. There are 3 fragrance intensities namely; LOW, MEDIUM, HIGH. The aromatherapy is active when the cabin has reached a temperature of at least 30°C. Once the cabin has reached its set temperature, aromatherapy will be interrupted.



By pressing the “aroma” button once, the Aromatherapy is activated in the LOW position.



By pressing the “aroma” button again, the aromatherapy is activated in the MEDIUM position.



By pressing the “aroma” button again, the aromatherapy is activated in the HIGH position. By pressing the “aroma” button again, the aromatherapy is switched off.

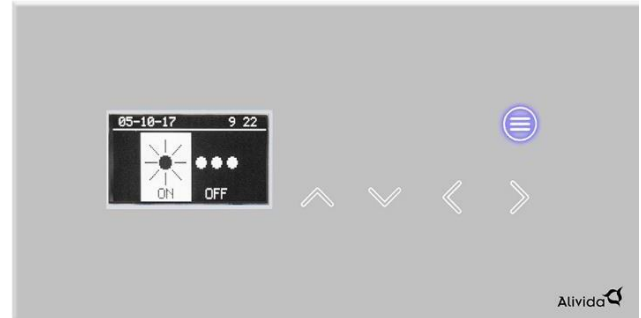


Option menu

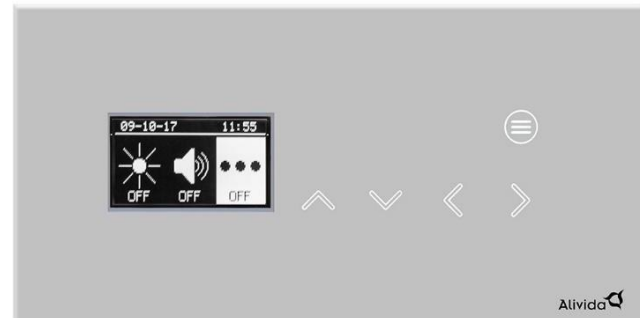
Depending on the configuration of your sauna control, you have 1 or more options at your disposal. When your sauna technique is configured with 1 option, it will be switched on/off by pressing the “option” key. The “option” button lights up as soon as this option is activated.



If your sauna control is configured with more than 1 option, you will enter a submenu after pressing the “option” key. In the submenu you can enable/disable the available options using the up and down arrow keys. The display returns to the main menu after 5 seconds.



The 2 possible options that can be displayed in the submenu are: Cleaning light, External output.

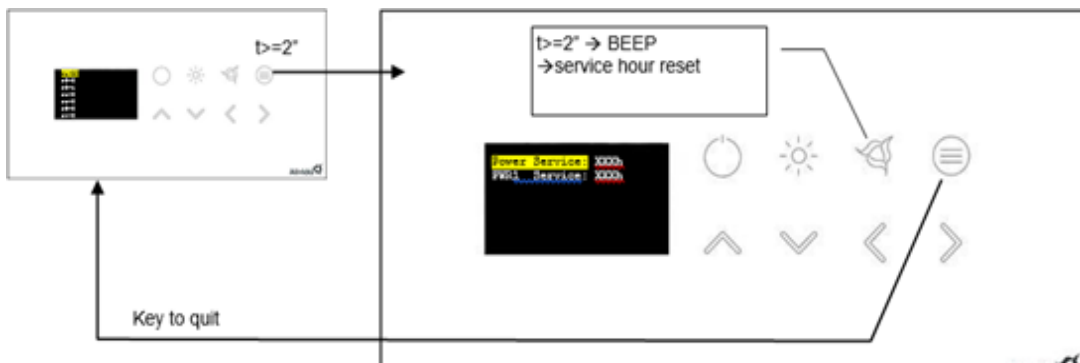


1. Meldingen en foutcodes

Error Message	Description	Possible cause	Solution
E1_1	Communicatie problem between controller and display	Bad connection between display and controller Display or controller malfunction	Reset
E2_1	Thermal protection	Controller failure Thermal cut-out problem Thermal cut-out position incorrect Cable connection lost	Fix the error + Reset
E2_2	Temperature out of range from 1°C / 125°C	Temperature sensor defective Sensor cable connection broken	Reset
E3	Display defect	Overheating	Replace display
NESS	RGB Control not working due to communication problem between controller and RGB box	Dip switch setting wrong. Cable connection lost	Check installation

Service interval

It is possible to set a service interval message, which will appear in the display after a preset number of hours has elapsed. In the low level menu go to parameter 10. Here you can adjust the value from 0 to 100 hours with the arrow keys to the left and to the right. It is not necessary to confirm the value in this parameter. When the number of hours set in parameter 10 has elapsed, a spanner with screwdriver will appear in the display. This service interval message can be reset in the low level menu. Go to parameter 10, hold the option button for 2 seconds. You will then arrive at the submenu. Pressing and holding the aroma button for 2 seconds resets the service interval counter. By pressing the power button you leave the low level menu.





2. Technical data

Alivida Sauna Controller

Power supply	230V 50/60Hz or 400V 3N 50/60HZ
Maximum power	9.0 kW
Temperature sensor	NTC (cable 3.4 meter)
Thermal protection	Silicone (cable 3.5 meter) Lighting 0.5A @ 230V
Sauna heating elements	Max 3 x 3.0 kW @ 230V
Dimensions controller	200 x 292 x 100mm
Working conditions	0°C - 50°C
Temperature range	40°C - 110°C
Time out	6 hours
Storage temperature	0°C - 50°C

Alivida Touch control panel

Power supply	12V
Number of keys	8 capacitive buttons
Display Graphic	black/white
Material	Glass
Dimensions	100 x 200 x 55mm
Clearance for mounting	80 x 177 mm
Protection degree	IPX5
Cable length	100 mm
Working conditions	0°C - 50°C
Storage temperature	0°C - 50°C

Temperature sensor + thermal protection

Thermal protection	121°C – 250V
Material	Wood
Dimensions	95 x 95 mm
Working conditions	10°C - 150°C
Storage temperature	0°C - 50°C