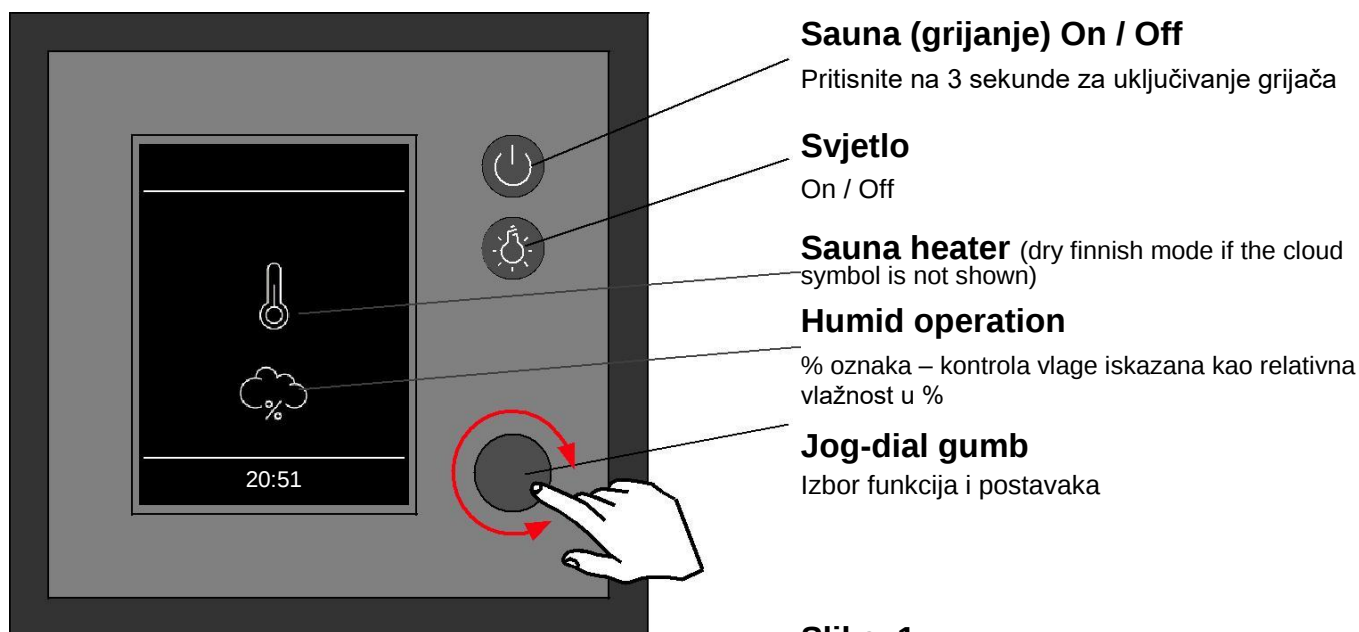


Upravljanje

Upravljačka ploča



Slika. 1

Uključivanje i isključivanje saune

Za uključivanje grijača saune pritisnite gumb  na 3 sekunde. Sauna će se uključiti prema pohranjenim parametrima (npr. temperatura, itd.). Za isključivanje ponovo kratko pritisnite gumb.

Uključivanje i isključivanje svjetla

Pritisnite gumb  na prednjem zaslonu za uključivanje i isključivanje svjetla.

Postavke

Okrenite jog-dial gumb za ulazak u izbornik postavki. Prozor kao na Slici 2. će se otvoriti.

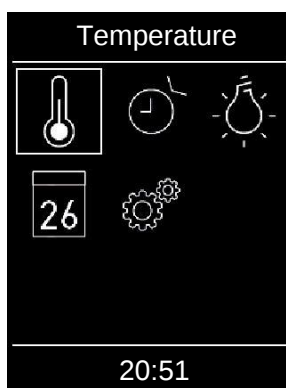
Kod Emotec H modela (with enabled vaporizer) the symbol for a quick selection between the dry and humid sauna mode will be shown at the "rst place.

Postavke sučelja za Emotec H

Simbol za izbor suhog ili vlažnog načina rada prikazan je kao prvi izbor.



Postavke sučelja za Emotec D ili za Emotec H s onemogućenim isparivačem.



Slika. 2

Napomena: ako zaslon upravljačke ploče ostane crn nakon uključivanja napajanja, molimo provjerite položaj glavnog prekidača upravljačke ploče (Switch Off rocker switch) koji se nalazi na glavnoj jedinici (relay box). the display of the control panel remains dark after

switching the power supply on please check the position of the unit's main switch (Switch-O! rocker switch) located on the main elec-tronics unit (relay box). See chapter "Switch-O! switch" for more details.

Operation principle with a jog-dial knob

Rotate the jog-dial knob to the left or right in order to reach a function. Press shortly on the jog-di-al knob to open this function. Rotate the jog-dial knob to change the value (changed value turns from white to green). Press the jog-dial knob shortly to save (con!rm) the setting and exit, the control panel will then return to the previous (upper) menu.

Symbol description - main navigation menu



Operation type (only Emotec H)

Selection between dry and humid mode (the vaporizer must be connected and enabled).



Finnish sauna mode

Selection for operation in dry Finnish mode (submenu of the operation type).



Humid sauna mode (Bi-O)

Selection for operation in humid mode. (submenu of the operation type).



Temperature

Setting of the target temperature in the sau-na cabin.



Humidity

Setting of the target humidity value in humid operation mode. %-sign indicates a connect-ed humidity sensor (rel. air humidity control).



Auto-Start

Pre-set timer for later automatic switching on of the sauna up to 24 h in advance.



Light

Setting of the desired light intensity and light switching (light dimming 0 - 100%).



Timer

Setting for automatic switching on via calen-der. A single event switching or regular week timer switching is possible.



Extended settings

Submenu for further settings. Like e.g. lan-guage, time, date, screensaver, child lock, heating time, etc.



Potential-free contact

Switch for the potential-free contact (output).



Back

Return to the upper menu.

Hint:

The on/o" switch  on the control panel front functions as a „home“ button during settings and allows you to quickly return to the start screen. Simply press shortly on this button. Please remember that all not yet con!rmed settings will be lost in this case.

If you do not operate the jog-dial for more than 20 seconds the control unit will return to the start screen. All not con!rmed settings will be lost in this case.

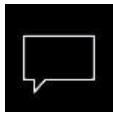
Thanks to the integrated battery (CD2032 type, in control panel) all settings will be stored in the memory and will be retained even in the case of a very long time power loss.

New extension modules and optional equipment will be normally automatically detected and con!gured. Upon restart the control panel will show the corresponding new symbols in the menu navigation.

Symbol description - extended settings

„Extended settings“ sub-menu provides a range of additional functions, which normally need to be set only once or quite seldom.

Select the symbol  in the main menu and press shortly on the jog-dial to enter.



Language

Allows to set the language for the menu navigation. 18 languages are available:

DE, EN, FR, RU, ES, NL, IT, PL, SLO, FIN, TR, CZ, RO, BG, HU, HR, SK, DK



Time

Here you can set the time of day.



Date

Here you can set the date, month and year.



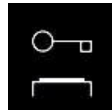
Screensaver

Here you can set the interval, after which the display will show the screensaver with floating clock.



Sleep mode

Here you can set the interval, after which the control panel goes into sleep mode in order to save power. Rotate or press on the jog dial to wake up the unit.



Child lock

Here you can lock the unit with own Pin-code. It will be still possible to switch off the heater and to switch the cabin light.

Please observe the special advice below.



Heating time (Auto-Stop)

Here you can set the desired heating time. By private use - up to 6 hours, by commercial use - up to 12 hours or 99 hours.



Operation data

Here you can check the firmware version, the remaining time until the next service, as well as the contacts for service issues.



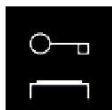
Display brightness

Here you can change the display brightness in three steps.



Holiday home mode

Here you can restrict the user's access to the minimum functions with an own Pin-code.



Important advice for Child Lock function

You can completely lock the control panel via  symbol with an individual pin-code.

By active lock you can only switch off the heater (if it is heating) and switch the cabin light. If you attempt to reach any function you will be prompted to give in the pin-code.

How to reset the pin-code:

If you forgot the pin-code proceed as described to reset it. Press the on/off button or turn jog-dial to initiate the pin-code prompt, do not change the four „0“ digits, confirm the "rst „0“ with the jog-dial, the press and hold the jog-dial pressed at the second „0“ (first two zeros turn green, the cursor will move to the third zero).

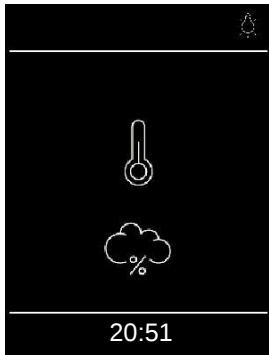
After approx 40 seconds all zeros will turn white. Now confirm all zeros (do not change them!), the display will return to the start screen and the Child Lock will be reset.

Graphic user interface (GUI) and the current climate conditions check

Thanks to the modern graphic user interface you can quickly access all functions and make necessary settings, as well as make a simple instant query for the current sauna climate condition.

The symbols on the start screen may be displayed in different colours, in order to indicate the current operation status - e.g. white colour for standby and red/blue colour for active heating.

For every selected symbol the control panel will display the meaning of this symbol at the top in one of 18 languages and will provide additional text hints by various settings. For language selection please see the next chapter.

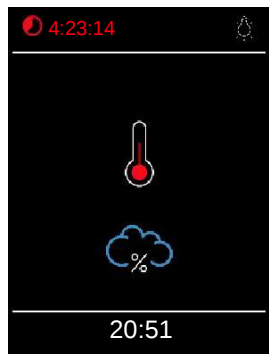


Start screen (standby mode)

In standby mode the display will show the symbol for the heater (thermometer). By Emotec H in humid mode a cloud symbol will be additionally displayed underneath (symbolizes the vaporizer).

The „%“ sign inside cloud means that the humidity sensor has been detected on the control unit (means humidity control as per rel. air humidity).

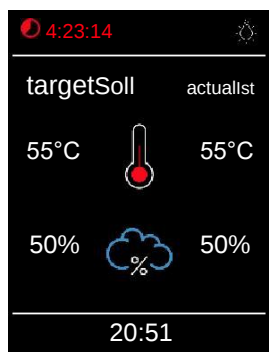
The light symbol will appear at the top right corner if the light has been switched on. At the bottom the clock will be displayed.



When the sauna is switch on - the thermometer symbol starts to pulse red during the heating up time, after this it will continuously light in red.

The countdown of the remaining heating time will be shown in red at the top left corner. You can stop the heating at any time by pressing on the on/ off button shortly.

The blue cloud means the active humid mode. Humidity regulation starts after the target temperature has been reached. After the humid mode a „sauna-dry“ program will start (up to 30 min., only the heater will run), unless this program has been disabled in setup.



Checking the target and current sauna climate condition

You can quickly check the pre-set (target) and the real temperature (and humidity by Emotec H). Press on the jog-dial for approx. 3 seconds.

The target and current values will be displayed on the screen. The current values correspond to the values measured at the respective sensor.

If the 2nd sensor (bench sensor) is installed, then the current temperature will be shown as measured by this sensor.

Without humidity sensor only the pre-set proportional vaporizer switching will be shown, with humidity sensor the target and the real humidity in % will be shown.

Notice: Please pay attention that the shown values for the current temperature (humidity) are measured at the sensor location point. Because of the considerable differences in temperature in different parts of a sauna these values may vary from the values shown by the instruments mounted at the sauna wall. We recommend to maintain the climate as it is pleasant to you instead of blind orientation on some suggested values.

Operation and program settings



Sauna on / off

Press the  button on the control panel for approx. 3 seconds to switch the sauna on. The display will show the active heating state (see previous page). The cabin light will be also switched on.

To switch the sauna off press the  button shortly. By Emotec H models in humid mode the “sauna dry” program will switch on for 30 min. after the main operation. This time may be reduced or the program may be disabled in setup. After this program the sauna will switch off completely.

You can stop the “sauna dry” program at any time - just press the  button again shortly.



Light on / off

Press the light button on the control panel to switch the cabin light on or off. The light will switch on automatically if the heater is switched on, after the heater switches off the light will stay on for 30 minutes.



Sauna operation mode - dry sauna or humid (Bi-O) sauna (only Emotec H)

Select the sauna mode symbol  and press on the jog-dial to enter the selection

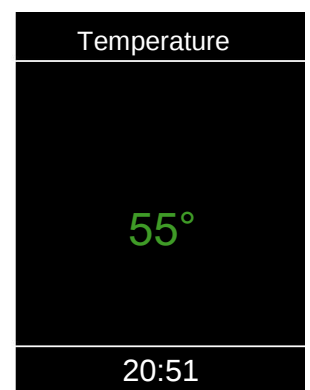
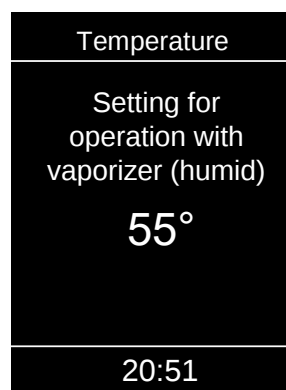
menu: select  for the dry Finnish sauna or  for the humid (Bi-O) sauna mode.

If the humid mode has been selected, the humidity symbol will automatically appear in the main menu. This option is only available in Emotec H models.



Temperature

Select and press the temperature symbol  in the main menu. A sub-menu will open and show the current value. Set the new temperature with the jog-dial. Press the jog-dial to confirm and exit. This setting can be also made during active heating.



Humidity (only Emotec H)

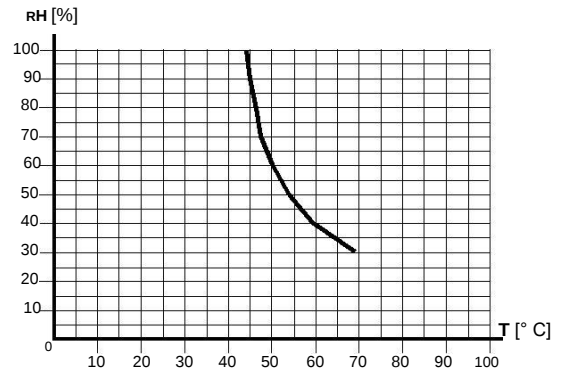
Select and press the humidity symbol  in the main menu. A sub-menu will open and show the last stored humidity value. Set the desired humidity with the jog-dial. Press the jog-dial shortly to confirm the setting and exit. This setting can be also made during active heating (in humid mode).

With a connected humidity sensor (% sign appears inside cloud) the relative air humidity will be controlled. Without humidity sensor the humidity will be controlled in proportional to time way.

“30%” then means 30% of the total heating time. The display will show the  symbol.

Please observe that with a humidity sensor the humidity setting will depend on the pre-set temperature. For safety reasons only the values to the left and under the curve may be selected. For instance at 60°C temperature you can set up to 40% rel. air humidity. In order to set a higher humidity you will need to reduce the temperature.

If the sauna has been used in dry mode with high temperatures and you switch to the humid mode, the vaporizer will start to work only after the temperature drops under the max. allowed level (70°C)

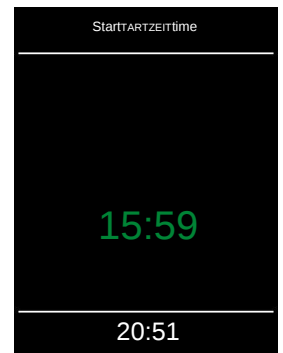


Time pre-selection (Auto-Start)

With this function you can program your sauna to switch on at a later time with up to 24 h delay. In the main menu select and press the timer symbol



with the jog-dial. A sub-menu will open and display „--:--“. Rotate the jog-dial to set the hour for the desired automatic switch on time. Press on the jog-dial to confirm and to jump to minutes. Now set the desired value for minutes and press the jog-dial to save the setting and exit. At the start-screen you will see at the bottom right the blinking timer with the programmed time. This time means the time of day, not the delay in hours/minutes from the moment of setting.



To delete the pre-set Auto-Start timer simply press shortly on the On/O# button. The blinking timer indication shall disappear.



ATTENTION! This function is only allowed to be used if your sauna is fitted with an approved safety system, which prevents the heater from being switched on in unsafe condition (e.g. a towel forgotten on the heater). Even in the case if your sauna has such an approved system, prove there are no objects forgotten on the heater. Risk of fire!



How to dim the cabin light

The light button on the control panel  allows to switch the light on/off quickly. In the main menu you can adjust the light brightness (dim the light 0-100%) over the same symbol.

Press on the  light symbol with the jog dial. The cabin light will switch on (if not yet switched on) and a sub-menu will open and display the current light setting in %. Rotate the jog-dial to adjust the brightness to the desired value. Press on the jog-dial shortly to confirm the new setting and to exit the sub-menu.

Please observe that the light dimming will only function if a dimmable transformer or a regular resistive load incandescent bulb has been connected. Make sure to observe the minimum and maximum power load for the connected lamps (see specifications or contact your dealer).



Timer (switch-on time pre-selection)

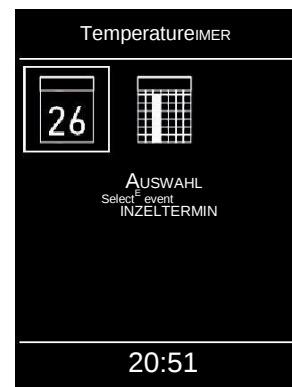
The timer function allows you to have your sauna switched on automatically with the desired climate condition at some time in the future. You have two possible options:



- single event (single time switching, not recurrent)



- week timer (regular, recurrent switching for the given day of the week, e.g. Monday, with up to 4 switching programs per day).



ATTENTION! This function is only allowed to be used, if your sauna is fitted with an approved safety system, which prevents the heater from being switched on in unsafe condition (e.g. a towel forgotten on the heater). Even in the case if your sauna has such an approved system, prove there are no objects forgotten on the heater. Especially by active week timer make sure to check your sauna for safe condition regularly. Risk of fire!

For single event switching press on the  symbol in the main menu. In the sub-menu (see example above) press again on the  symbol for the single event programming.

Now set the day, month and year for the desired switching. Then in the new window set the start time (hours and minutes). Then in the new window set the operation type (dry Finnish sauna or humid sauna). Then as the last step set the preferred temperature and humidity (only by humid mode). The programming window will close after the last step. At the start screen in the bottom right corner you will now see the flashing programmed time (date and time, e.g. 15.01. and 18:30).

If you want to cancel this program just press shortly on the On/Off switch. The flashing date and time indication will disappear. This program will be also automatically cancelled if you switch the sauna manually.

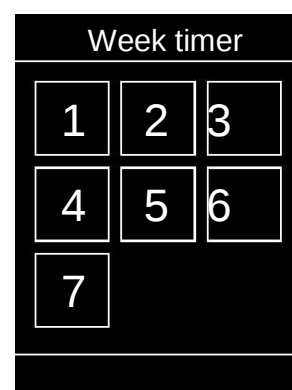
For week timer programming press on the  symbol (week timer). A new window with seven numbered squares will open (1 to 7, 1 = Monday, 2 = Tuesday, and so on).

NOTICE: white colour means an empty program place. Green colour means there is a program for the given day.

Select a day of the week, for which you would like to assign a program (e.g. „1“ for Monday) and press on the jog dial.

NOTICE: You can assign up to 4 programs to each day of the week. The max. heating time for each switching is 12 h. A 6 h pause must be observed after 12 h non-stop heating as per legal regulations. The next program may therefore start only after a 6 h break if the previous program duration has been set to 12 h. If you wish a shorter pause, then set the heating time to less than 12 hours.

Furthermore you can assign individual temperature (and humidity by Emotec H) to each program for automated sauna operation. This allows to implement flexible energy management schemes in your



sauna - for instance during peak-times you may set the sauna to run at lower temperatures with reduced energy consumption, so that it can then reach the full temperature faster at the main time of use.

Now select the program (1 of 4) and press on the jog dial knob.

1. Set the required start time (hours and minutes) - e.g. 9:30.
2. Set the required heating time (hours and minutes) - e.g. 3:30.
3. Set the required operation type - dry Finnish sauna or humid sauna (only Emotec H)
4. Set the required temperature.
5. Set the required humidity (only Emotec H).

After the last step the control panel will return to the week overview. All days with assigned programs will be displayed in green. Repeat the above steps for every new program you may require (max. 4 per day). After you return to the main start screen you will see the indication of the next (earliest) switching time flashing in the bottom right corner (e.g. Monday, 9:30).

How to delete or change the week timer

In order to delete or change the program open the week timer via the main navigation menu.

1. Select the respective day of the week.
2. Select the respective program number.
3. Make the necessary adjustments (start time, heating time, temperature) or...
4. to delete the program, set the start time (hour and minutes) to „--“ and press the jog dial two times shortly to confirm and exit.
5. The display will return to the week overview.

Notice: By active week timer you will always see the next earliest switching time displayed flashing in the bottom right corner. Also if you programmed several switching times or a combination of the single event switching and week timer switching.



Potential-free contact

With the potential-free contact (output) you can switch an external device up to 16 A on or off. This function has to be enabled in the setup menu and the external device has to be properly connected and configured.

Please observe that the potential-free contact output only provides a switching signal.

In the main navigation menu select the  symbol and press on the jog dial shortly. In the sub-menu you can now select and press on the  (on) or  (off) symbol in order to make the respective switching.

If you cannot find the symbol of the potential-free contact in the main navigation menu please contact your local dealer to have this function enabled.



Extended settings

The sub-menu „Extended settings“ allows you to make additional settings, which normally need to be set only once or very seldom.

In the main navigation menu select the  symbol and press on the jog dial shortly.



Language

Here you can set the language for the menu navigation and messaging system. Press on the language symbol, in the respective sub-menu select the required language and press on the jog dial shortly to confirm. All texts will be then shown in the new language. 18 languages are available.



Time (clock)

Here you can set the time of day (system time). Press on the clock symbol, in the respective sub-menu set the hours and minutes with the jog dial and confirm each setting by pressing shortly on the jog dial. After the last setting the display will return to the upper menu. The winter/summer time has to be adjusted manually.



Date

Here you can set the date (day, month, year). Press on the date symbol, in the respective sub-menu set the date, month and year and confirm each setting by pressing shortly on the jog dial. After the last setting the display will return to the upper menu. Thanks to the integrated battery the once set time will be retained even by very long time power disconnection.



Screensaver

This setting defines the period of time after which the control panel will enter the screensaver mode if no button has been operated. In this mode the display brightness will be reduced to the minimum and the display will show the current time floating across the screen. Rotate the jog dial or press on the on/off button shortly in order to return to the start screen.



Sleep mode

This setting defines the period of time after which the control panel will enter the sleep mode. In sleep mode the display will be switched off completely. Rotate the jog dial or press on the on/off or light button to wake the control panel. This function is only active if the heater is not switched on.



Child lock / Operation lock

You can lock the control panel with the individual pin-code in order to prevent the unauthorized access.

In order to lock the control panel select the „lock“ symbol and press on it with the jog dial shortly. A sub-menu will open and display „0000“. You can now replace the zeros with your personal 4-digit

pin code. Rotate the jog dial to select a number, press on the jog dial to confirm it and to jump to the next digit.

After the 4th digit confirmation the display will return to the start screen and the unit is now locked.

Notice: make sure to remember the pin-code!

For safety reasons it is still possible to switch off the heater (interrupt active heating) and to switch the light while the unit is locked. All other functions will be locked.

By an attempt to operate the control panel a pin code prompt will appear.

To unlock the unit rotate the jog dial in order to call the pin code prompt. Now give in your pin code. The unit is now unlocked.

How to reset the pin code by a locked unit

Launch the pin code prompt (rotate the jog dial). DO NOT change the four zeros, press the jog dial shortly to confirm the first zero, at the second zero press the jog dial continuously (the first two zeros turn green, the cursor is under the third zero).

After approx. 40 seconds all four zeros will turn white. Now simply confirm each zero with the jog dial. After the 4th digit confirmation the display will return to the normal start screen. The control unit is now unlocked and the pin code is reset.



Heating time

Here you can set the required heating time duration for your sauna bath.

By private use the max. heating time is limited to 6 hours. By commercial use the max. heating time may be limited to 6 hours, 12 hours or set to unlimited. This limitation should be set in hardware during the installation and setup (jumper 5 setting)

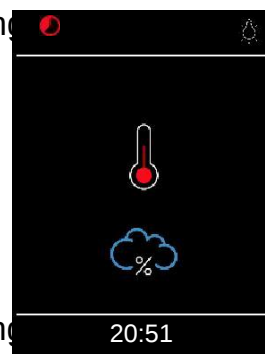
Press with the jog dial on the  symbol and set the required heating time in hours and minutes. This setting will be then valid for every manual sauna switching. You can of course stop the heating earlier at any moment.

After switching the sauna on the remaining heating time will be displayed as a countdown clock in the upper left corner. So you can check at a glance the remaining heating

4:23:14 time of your sauna.

Please observe that after the humid mode operation (only Emotec H) the sauna heater will be switched in the „sauna dry“ mode in order to dry your sauna cabin. The default sauna dry mode duration is 30 minutes. This time may be reduced (also the pre-set temperature and fan operation time maybe adjusted) in the setup menu. Please contact your dealer for further details.

The heating time may be changed with 1 minute steps. The minimal heating time is 1 minute.





Operation data

Here you can check the important information concerning your control unit (sauna) operation.



Firmware - allows to check the currently installed firmware version. Rotate the jog dial to switch between two possible parameters. „Panel Vx.xx“ - shows the firmware in control panel, „Mod-LS Vx.xx“ - shows the firmware in the main relay unit (x stands for a number). Press on the jog dial to close this sub-menu.



Service intervals - allows to check the remaining time until the next pending servicing / maintenance of your sauna. The intervals will be set by your dealer (installer) during the installation and setup.



Contacts - shows you the contact information of the sauna control unit manufacturer or your dealer (installer). This information will be also displayed by faults along with the error messages.



Display brightness

Here you can set the display brightness in 3 stages.



Holiday home mode

With this function you can restrict the access to the control panel with your own pin code down to the bare minimum of functions. All other functions will be disabled and their symbols will not be displayed.

Following settings are possible when the holiday home mode is active:

- Sauna on / off
- Light on / off
- Selection of the operation mode - dry or humid (only by Emotec H)
- Temperature setting
- Humidity setting (only by Emotec H)

To activate the mode press on the  symbol. A pin code prompt window with default „0000“ will open. Set your personal pin code with the jog dial. Rotate the jog dial to select a number and press shortly to confirm it and to jump to the next digit. After the 4th digit the display will return to the start screen and the holiday home mode will be activated.

Hint: To cancel the activation while setting the code press shortly on the main on/off button.

To unlock the control panel rotate the jog dial to reach the main navigation menu. Select the  symbol. Press on this symbol with the jog dial. The pin code prompt window will open („0000“ default display). Give in your pin code to unlock the control panel.

How to reset the pin code by a locked unit

Select the  symbol and press on it with the jog dial for approx. 1 minute. The pin code prompt will open, confirm all four zeros with the jog dial. After the 4th digit the control panel will be unlocked and will return to the start screen. The pin code will be reset.