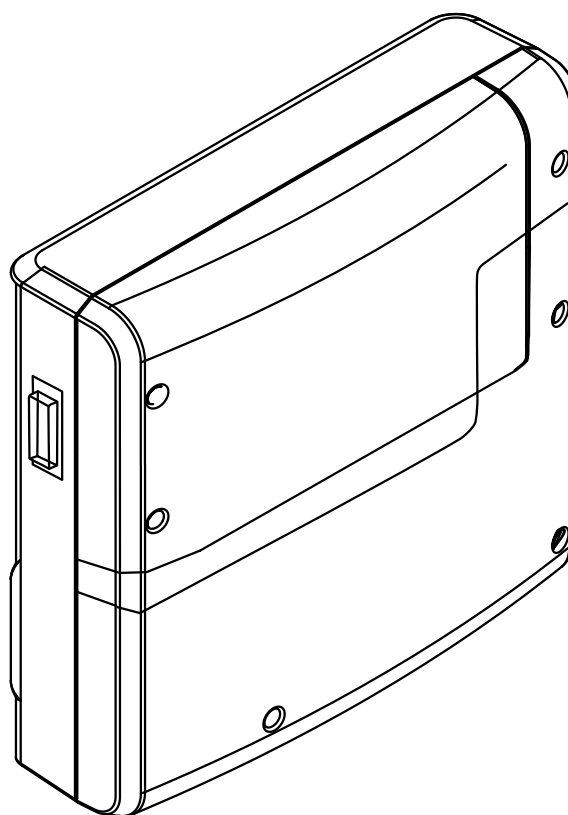


# SBM-IR Modul

Module for Infrared and Sauna Cabins



Operating Instructions

**Made in Germany**



Druck-Nr.: 2902 5028  
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# Documentation

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## Original installation and operating instructions EN

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## Characters, symbols and illustrations

①	Additional information about an operating step
📄	Cross-reference to a page
📖	Read instructions
☑	Result of a step
📊	Table title
🖼	Title of figure

## Revision history

Date	Version	Description
1 Feb. 2019	01.00	First version

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# General safety instructions

# 1

## General safety instructions

### 1.1 Safety levels

Safety instructions and important operating instructions are classified according to ANSI Z535.6. Please familiarise yourself with the following terms and symbols:

#### **DANGER!**

##### **Danger**

Indicates a hazardous situation which, if not avoided, will result in death.

#### **WARNING**

##### **Warning**

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

#### **CAUTION**

##### **Caution**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

#### **NOTICE**

##### **Notice**

Indicates a hazardous situation which, if not avoided, will result in damage to the unit.

## 1.2 Assembly and installation



These operating instructions are intended for qualified personnel familiar with the laws and regulations applicable to electrical installations at the installation site. Observe the following general safety instructions during set-up and commissioning.

### **Risk to life and limb and risk of fire**

Risk to life and limb from electric shock and fire in the event of improper or faulty electrical connection. This risk also applies following completion of the installation work.

- ▶ The electrical installation of the relay box and other electrical systems or equipment with a fixed mains connection must only be performed by a trained electrician from an authorised electrical company.
- ▶ Observe the stipulations in VDE 0100 part 701.
- ▶ The system must be disconnected and removed entirely from the mains supply before commencing installation and repair work.
- ▶ The housing cover must only be removed by a specialist.
- ▶ Do not install control units, relay boxes and modules in enclosed cabinets or wood panelling.

### **Fire hazard from overheating**

Infrared emitters and heating foils without overheat protection can lead to overheating of the cabin and fire. Flammable parts must not exceed a temperature of 140°C when the unit is operated as intended or in the event of a malfunction.

- ▶ Install only infrared emitters or heating foils that are designed and installed in such a way that they do not pose a fire hazard when the unit is operated as intended. Alternately, infrared emitters or heating foils with overheat protection as per EN 60335-2-53 may be used.
- ▶ Install a safety temperature limiter if needed.
- ▶ Observe the manufacturer's safety and installation instructions for infrared emitters and heating foils.
- ▶ Observe the cabin manufacturer's safety and installation instructions.

## General safety instructions

### 1.3 Operator instructions

The operator of the infrared or sauna cabin must be instructed in the general safety instructions during commissioning. The operator must be given a copy of the instructions for use.

- |   |  |
|---|--|
| <b>Risk of electric shock</b>           | <p>A risk to life and limb from electric shock and fire arises in the event of improper repair work. This risk also applies after work is completed.</p> <ul style="list-style-type: none"> <li>▶ The housing cover must only be removed by a specialist.</li> <li>▶ Repairs and installations must only be performed by a trained specialist.</li> <li>▶ The system must be disconnected and removed entirely from the mains supply before commencing repair work.</li> <li>▶ Use only original spare parts from the manufacturer.</li> </ul> |
| <b>Risk of burns and chemical burns</b> | <p>Touching hot parts may lead to skin burns and chemical burns of the skin.</p> <ul style="list-style-type: none"> <li>▶ The operator must be familiar with the unit's hot parts and be able to identify them.</li> <li>▶ The operator must be familiar with the settings for the heating period and understand how it is controlled.</li> </ul>  |
| <b>Health risks</b>                     | <p>Spending time in an infrared or sauna cabin can lead to serious health risks or even death for persons with health impairments.</p> <ul style="list-style-type: none"> <li>▶ Persons with health impairments who spend time in a sauna must consult a doctor before entering an infrared or sauna cabin.</li> </ul>   |
| <b>Equipment damage due to overuse</b>  | <p>Excessive humidity in commercial infrared or sauna cabins can lead to property damage.</p> <ul style="list-style-type: none"> <li>▶ In a commercial infrared or sauna cabin, the heating period must be set so that it switches off automatically after a specific period of time.</li> <li>▶ If the heating period does not switch off automatically, cabin use must be supervised at all times.</li> <li>▶ Inspect the cabin before each use.</li> </ul>  |

**Operation by  
children or persons  
with reduced mental  
capacity**

Children and persons with reduced mental capacity can be a risk.

- ▶ Children must be supervised to ensure they do not play with the unit.
- ▶ Children under 8 should not operate the infrared cabin.
- ▶ The settings for the heating period must only be used by children under 8 years of age if they are supervised by an adult.
- ▶ The infrared cabin must only be used by persons with reduced mental capacity, or limited physical or sensory abilities under supervision or if they have already been instructed in its use and understand the risks.
- ▶ Children and persons who have not received proper instruction must not clean or service the system.

## 1.4 Standards and regulations

The following standards, in their currently applicable versions, were observed during design and construction.

Local regulations also apply to the installation and operation of heating, sauna, and steam room systems.

Standard	Title
DIN EN 60335-1	Household and similar electrical appliances - Part 1: General requirements
DIN EN 60335-2-30	Household and similar electrical appliances – safety - Part 2-30: Particular requirements for room heaters
DIN EN 60335-2-53	Household and similar electrical appliances – safety – Part 2-53: Particular requirements for sauna heating appliances and infrared cabins
DIN EN 60335-2-96	Household and similar electrical appliances – safety - Part 2-96: Particular requirements for heating equipment
DIN EN 55014-1	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission
DIN EN 55014-2	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity

# 2

## Identification

This chapter describes the control units used to control a SBM-IR Modul in an infrared or sauna cabin.

### 2.1 Control units

The SBM-IR Modul can be operated with one of the following control units:

- EmoTec, EmoTec IR (software release R. 3.45 or higher)
- EmoStyle, InfraStyle (software release R. 3.45 or higher)
- EmoStyle i, InfraStyle i (software release R. 3.45 or higher)
- EmoTouch 3 (also SteamRock Premium) (software release R. 2.06 or higher)

Check your control unit's software version. Update your software if it does not match the specifications above.

Control units are not included in the SBM-IR Modul's scope of delivery. These operating instructions describe only IR settings for control units.

### 2.2 Intended use

The SBM-IR Modul is designed to operate infrared radiators and foils (IR emitters). The control units control the temperature of the cabin and the intensity of the IR emitters.



## Foreseeable misuse

The following are considered instances of foreseeable misuse:

- The infrared heating foils do not have an integrated temperature sensor with overheat protection.
- The control and sensor cable plugs are plugged in incorrectly.
- The cabin addresses are programmed incorrectly.
- The unit is operated without knowledge of or compliance with the safety instructions.
- Operating, service and maintenance requirements are not observed.
- The unit is operated after technical or other modifications are made to the module.
- The unit is operated by children or persons with reduced mental capacity or by persons who have not been thoroughly instructed in its use.

 General safety instructions,  5

For more information, see the SBM-IR Modul installation instructions.

## 3

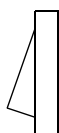
## Operation

All cabin settings are made at the control unit. At least one cabin must be set up for commissioning.

The term IR emitter refers to infrared emitters and heating foils in the following documentation.

In order to commission the cabin with the installed IR emitters, the cabin must be switched on at the control unit. If the display is blank, the relay box might be switched off.

An on/off switch is located on the left side of the relay box and the module. Both switches must be switched on to configure the control system.



Position I:

Relay box is switched on.

The relay box is ready for operation in standby mode.



Position 0:

Relay box is completely switched off.

Parts of the circuit board are still energized.



Position II:

Cabin light is switched on, relay box is switched off.

Position for maintenance and cleaning.

















## 3.1 Configuring the IR control system

The control system cannot be configured until the IR emitters are installed and connected. The following describes only how to configure the IR emitters. Complete configuration is described in the operating instructions for the control units.

You should be familiar with the basic operating steps, e.g. navigating the menus and sub-menus and entering and saving settings.

### Icons

The following icons are used to assign the IR emitters.



	Front middle		Front right
	Front left		Back middle
	Back left		Back right
	Leg		Ceiling
	Floor		Side right
	Side left		IR group 1
	IR group 2		IR group 3
	IR group 4		IR group 5

Each icon may be assigned only once.

### 3.2 Adjusting the IR emitters

The IR emitters have two operating modes.

These operating modes let you determine how the IR emitters can be used: via intensity and/or temperature.

Operating mode	Temperature	Intensity
	Ambient temperature can be set via temperature sensors Emitters heat until the temperature has been reached	All channel groups at 100%
	Ambient temperature increases slowly via channel group intensity	Can be set for each channel group

#### IR intensity operating mode

The following settings are available in IR intensity operating mode for outputs IR-1 to IR-3:

Foils at IR-3	Emitter at IR-3	Foil at IR-1, IR-2	Emitter at IR-1, IR-2	Intensity setting
x	x			0% or 100%
		x		20% to 100%, in increments of 2%
			x	15, 25, 33, 50, 66, 75, 100%

#### IR temperature operating mode

The following settings are available in IR temperature operating mode for outputs IR-1 to IR-3:

Foil at IR-1, IR-2, IR-3	Emitter at IR-1, IR-2, IR-3	Control mode for relay output
x	only IR-1 and IR-2	Control via T (target)
	x	Switch-off > 70°C

The connection for switching output IR-3 is not controlled via the temperature of the IR emitter, but rather switched off when the ambient temperature reaches 70°C. In Foil operating mode, it is controlled via the ambient temperature sensor.

Note that the intensity and temperature settings impact the duration of the heat-up phase.

## 3.3 EmoTouch 3

The graphic user interface displays icons depending on the selection. Their use is described below:



Tap briefly on the cabin image: The function is switched on or off.

Tap briefly on the sub-menu: The icon is selected.

Tap again: The selection is confirmed.

Press and hold: A sub-menu opens.

Tap anywhere on the cabin image: The sub-menu for settings closes.



Cabin on/off



Settings



Next



Back to previous selection or start



Confirm selection



Clear selection



Increase the value by 1



Decrease the value by 1

The home screen (standby) appears after the display has not been touched for 10 seconds.

- Settings that have not been saved are lost.
- Date and time are saved if the built-in battery is in working order. All other settings are saved permanently.

Add-on modules or accessories are detected once the unit is switched on again and their corresponding icons appear on the cabin image or in the sub-menus. Unit operation and unit settings are available on different levels:

Operation level	Private operation	
	Commercial operation	Basic settings
		Advanced settings (with PIN code)
Service level	Settings for service technician (with PIN code)	

### 3.3.1 Configuring during commissioning or after a reset

The basic settings must be defined to commission the unit. The program guides you through the required steps.

The home screen automatically appears after the control panel has not been touched for 10 seconds. Settings that have not been saved are lost.

#### ► Defining the basic settings

- 1 Select a language and confirm.
- 2 Set the time and confirm.
- 3 Set the date and confirm.
- 4 Specify the type of use and confirm:

a)  Private use

b)  Commercial use

❗ Specific safety regulations apply to this setting. See 1.3 Operator instructions, [p 7](#)


If you use the EmoTouch 3 to operate sauna cabins and steam rooms in addition to the IR cabin, initial configuration involves additional steps, e.g. heater selection, cabin views, etc. These steps are described in the installation and operating instructions for the sauna and steam room relay boxes. You can select and configure the IR intensity and/or IR temperature operating modes once the channel groups are configured.

See 3.3.2 Configuring the channel groups, [p 14](#)

### 3.3.2 Configuring the channel groups


The settings are configured as shown in the example above.

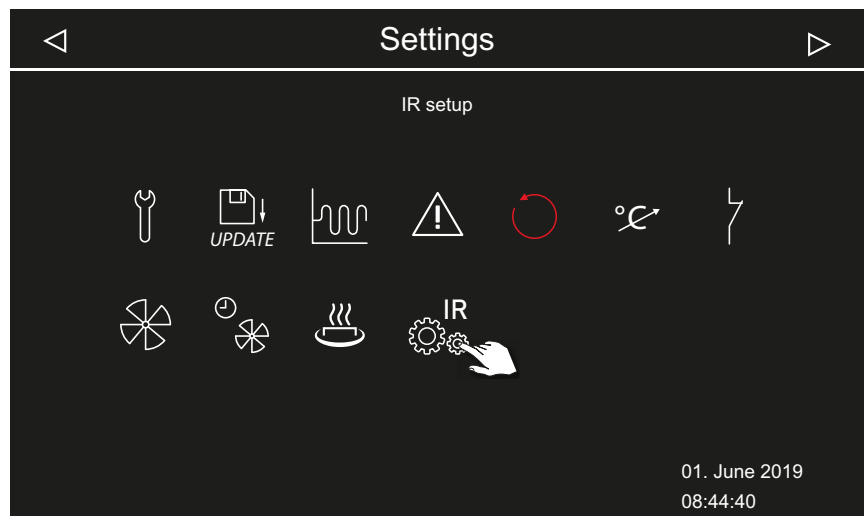
#### ► Configuring the IR channel groups

- 1 Select the cabin.
- 2 Tap and hold  for 3 seconds.

- 3 Enter code **5349** and confirm.

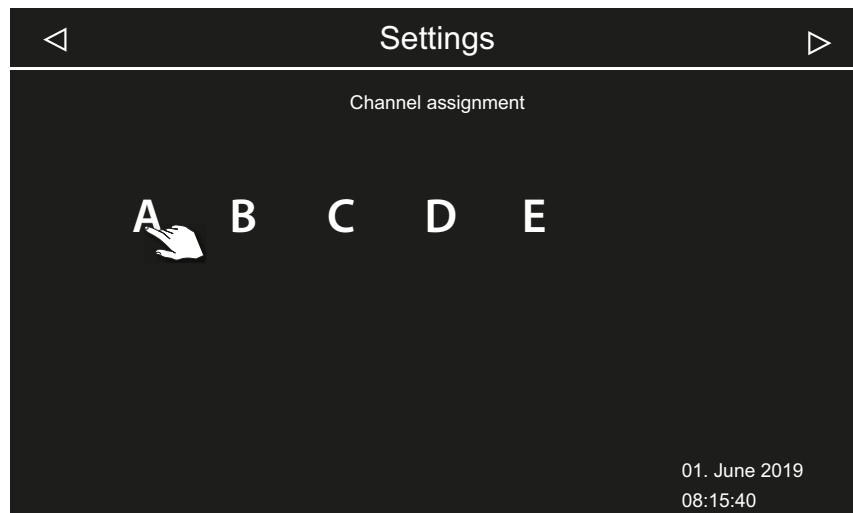


- 4 Tap  and confirm the selection.



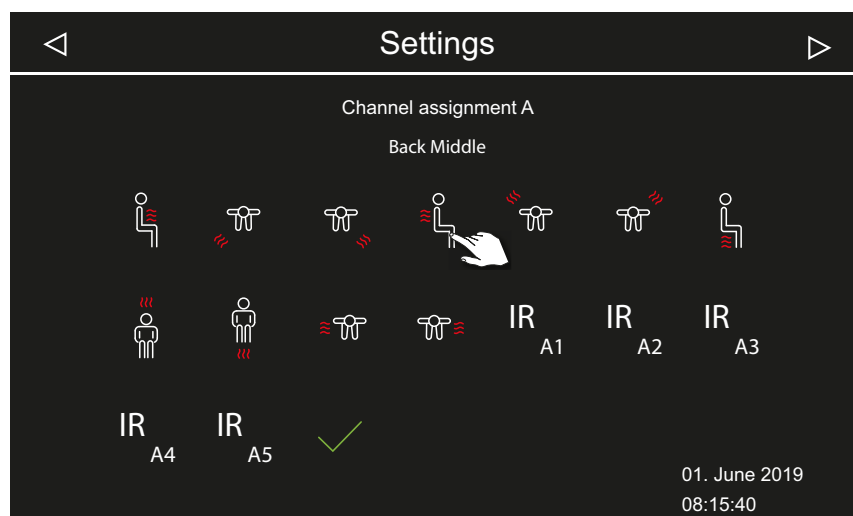
# Operation

- 5 Select a channel and confirm the selection.



① Ensure that the selected channel is configured at the circuit board.

- 6 Select the IR emitter icon and confirm.



① You may assign each icon only once.

- 7 Follow the same steps to configure the next channel group.



## 3.3.3 Setting the IR operating mode

After installation, you can set the operating mode, temperature and/or intensity for each IR cabin. You can also define the switching hysteresis for the IR emitters.

The following icons are displayed for selection.



IR temperature operating mode:

You can set the temperature of the IR emitters and the intensity per channel.

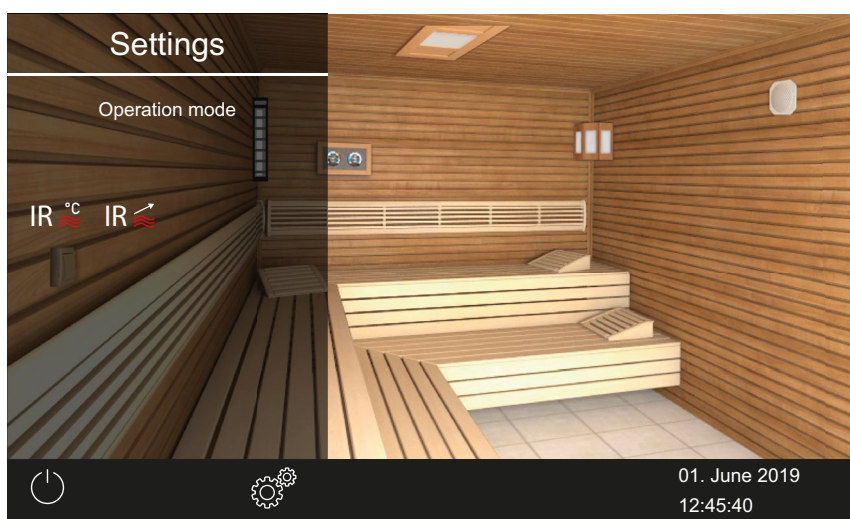
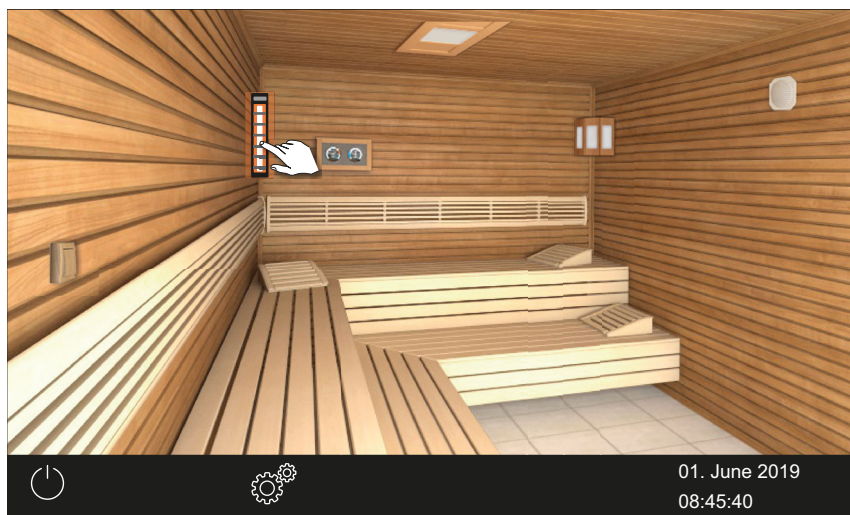


IR intensity operating mode:

You can set the intensity of the IR emitters per channel.

### ► Setting the operating mode


- 1 Press and hold the IR emitter icon for 5 seconds.



## Operation

2 Select the operating mode and confirm.

a)  IR intensity.

b)  IR temperature.

### 3.3.4 Setting the IR temperature

You can set the temperature only after you have selected the IR temperature operating mode. 3.3.3 Setting the IR operating mode, [17](#)

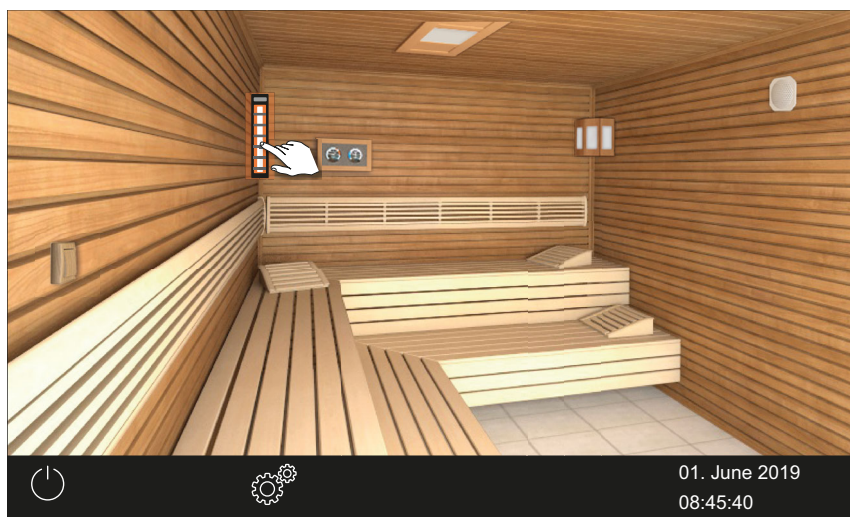
You can also set the temperature while the system is in operation. The temperature applies to all IR emitters.

The ambient temperature in the IR-only cabin cannot exceed 70°C. This maximum temperature cannot be exceeded even if all IR emitters are operating at full intensity.

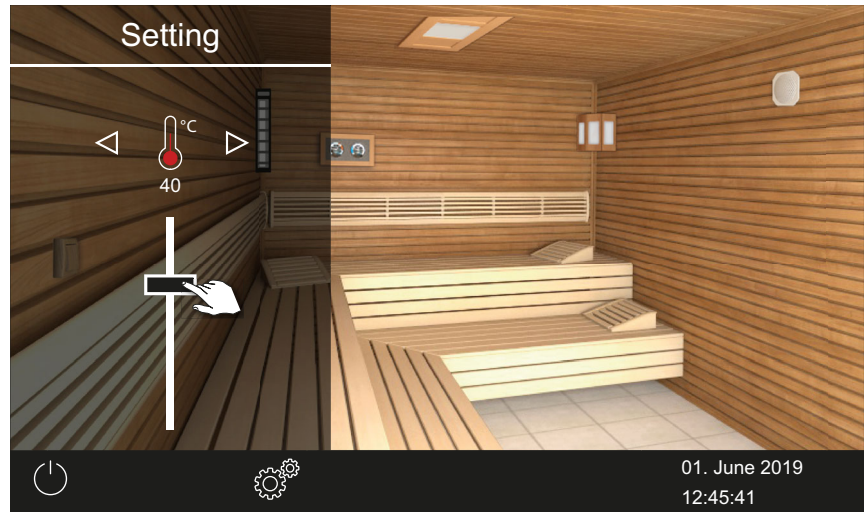
#### ► Setting the IR temperature

1 Select the cabin.

2 Tap the IR emitter icon.



- 3 Move the slider to the desired temperature.



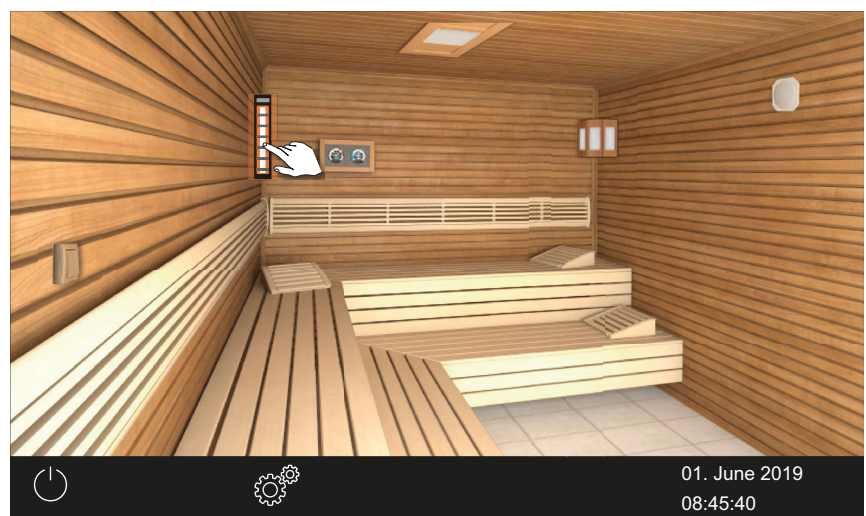
- ☒ The emitter is immediately set to the new temperature.

### 3.3.5 Setting the IR intensity

You can set the intensity once you have selected either the IR temperature or IR intensity operating mode. 3.3.3 Setting the IR operating mode, [17](#)  
You can set the intensity of the IR emitters while the system is in operation. It generally applies to one channel group.


#### ► Setting the IR emitter intensity

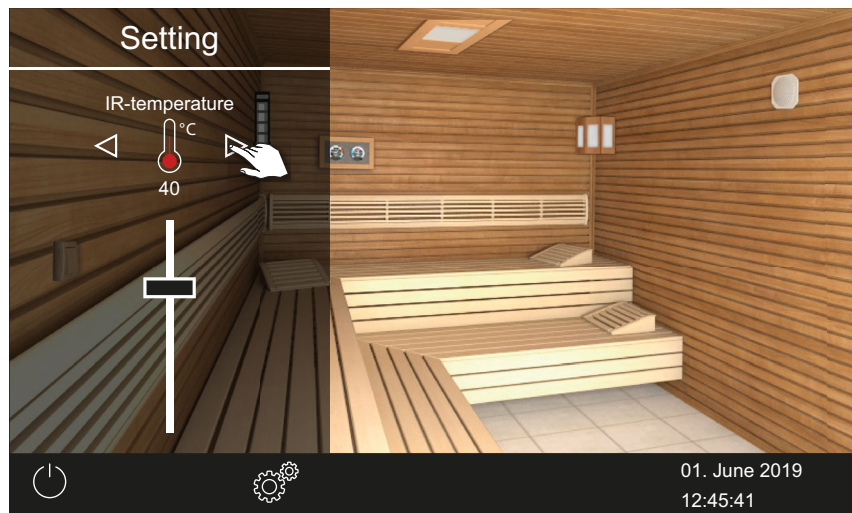
- 1 Select the cabin.
- 2 Tap the IR emitter icon.





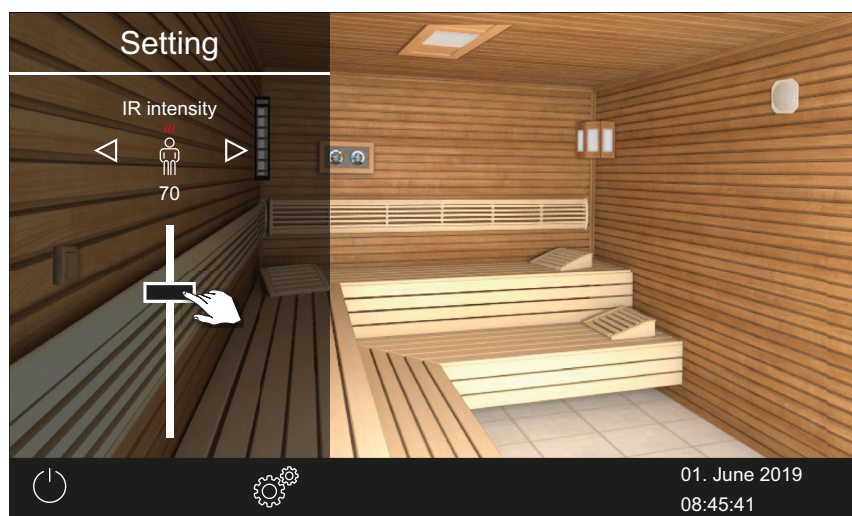
# Operation

- 3 Tap  to switch to the intensity settings as needed.




① The first channel group is displayed first.

- 4 Move the slider to the desired intensity.



- ① The selected channel group's icon appears above the slider.
- ① Only 0% or 100% may be selected for emitters at the IR-3 connection; 20%-100% for foils.
- ☒ The channel group emitters are immediately set to the new intensity. This means they are not set to the target temperature.

- 5 Tap  to switch to the next channel group as needed.







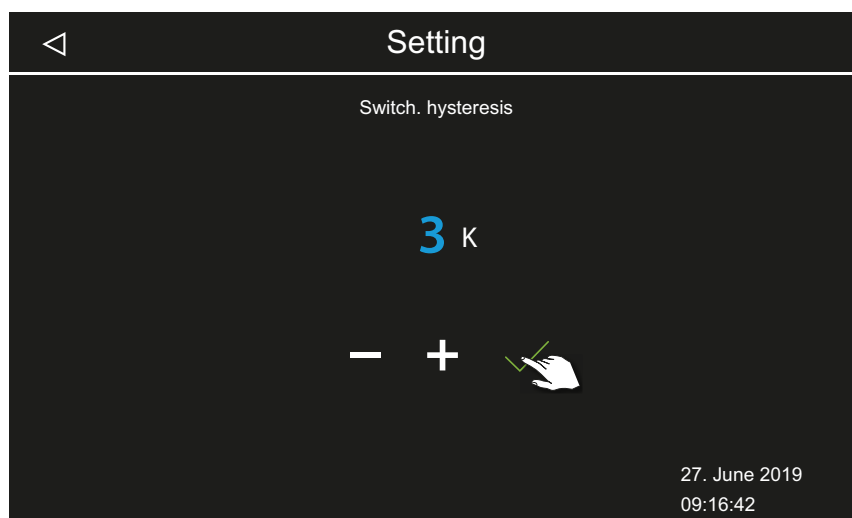
### 3.3.6 Switching hysteresis for the IR temperature

In the service settings, you can also set a temperature range within which the IR emitters are switched on and off. It applies to all connected IR emitters.

Example — 46°C target temperature and hysteresis 4 K: The IR emitter is switched off at 48°C and switched on at 44°C.

#### ► Adjusting the hysteresis

- 1 Tap and hold  for 3 seconds.
- 2 Enter code **5349** and confirm.
- 3 Tap  and confirm the selection.
- 4 Set the value with  and , and then confirm.



① The value can be set to any number between 1 and 5.

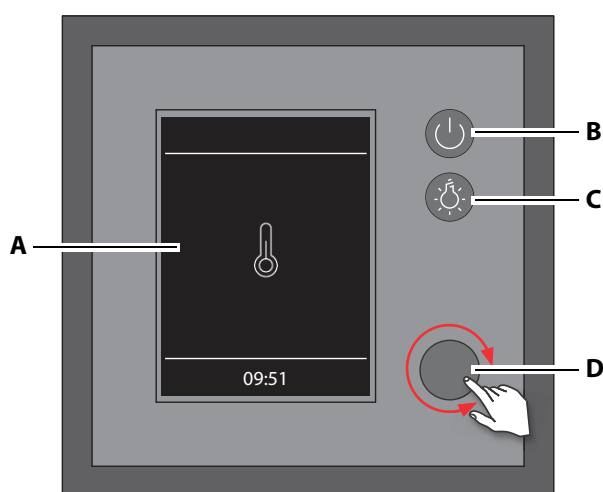
## 3.4 EmoTec IR, InfraStyle, InfraStyle i

All functions must be configured to commission the system. However, this chapter describes only the settings for the IR emitters.

Add-on modules or accessories are detected after the unit is switched on again and their corresponding icons appear in the sub-menus.

A complete description of the control panels can be found in separate operating instructions.

### EmoTec IR operation




**A** Display

**B** Switch on/off

**C** Switch cabin light on/off

**D** Jog dial

 EmoTec control panel

The following icons represent operational functions:



On/off



Jog dial:  
Rotate = select functions.



Light on/off



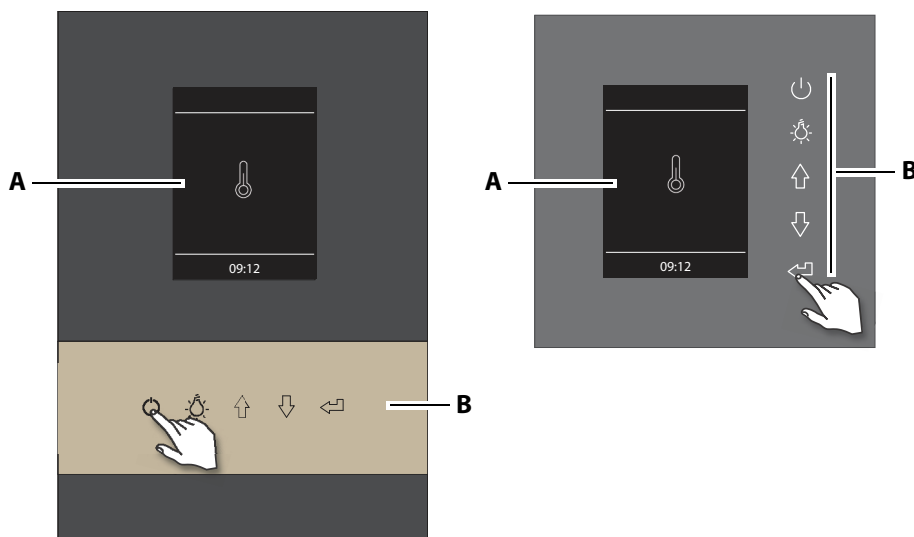
Jog dial:  
Press = confirm functions and settings.

The home screen (standby) appears after the jog dial has not been touched for 15 seconds.

- Settings that have not been saved are lost.
- Date and time are saved if the built-in battery is in working order. All other settings are saved permanently.

# Operation

## InfraStyle and InfraStyle i operation



### InfraStyle i

**A** Display

 InfraStyle i control panels - D/H

### InfraStyle

**B** Function buttons

The following icons represent operational functions:



Tap: Select the function and confirm.



Scroll back through functions.



On/off



Scroll forward through functions.



Light on/off



Open selected function.  
Save settings.

The home screen (standby) appears after the display has not been touched for 15 seconds.

- Settings that have not been saved are lost.
- Date and time are saved if the built-in battery is in working order. All other settings are saved permanently.



## 3.4.1 Configuring during commissioning or after a reset

The basic settings must be defined to commission the unit. The program guides you through the required steps.

The home screen automatically appears after not using the control panel for 15 seconds. Settings that have not been saved are lost.

### ► Defining the basic settings

- 1 Select a language and confirm.
- 2 Set the time and confirm.
- 3 Set the date and confirm.
- 4 Select the type of use and confirm:

a)  Private use

b)  Commercial use

① Specific safety regulations apply to this setting. See 1.3 Operator instructions, [p. 7](#)

In the sauna cabin, initial configuration involves additional steps, e.g. heater selection, etc. These steps are described in the installation and operating instructions for the corresponding sauna relay box.


You must select and configure the IR intensity and/or IR temperature operating modes once the channel groups are configured.

See 3.3.2 Configuring the channel groups, [p. 14](#)

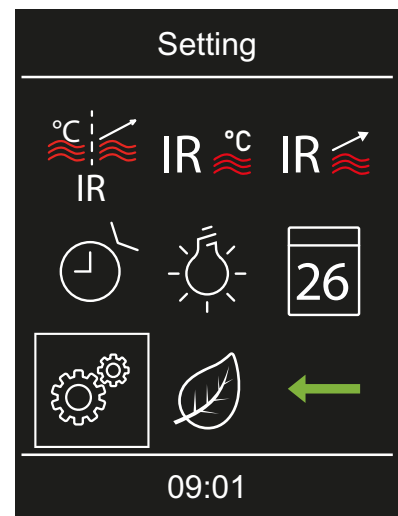
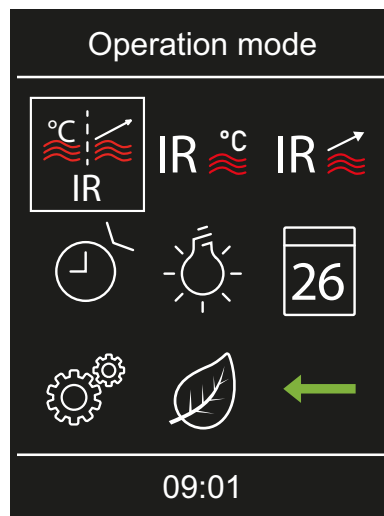
## 3.4.2 Configuring the channel groups

The settings are configured as shown in the example above.

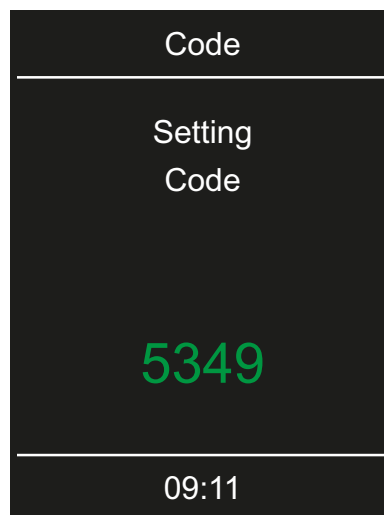
### ► Configuring the IR channel groups

- 1 : Select and confirm by pressing and holding until the code entry is displayed.
  - a) EmoTec: Press and hold the jog dial.
  - b) EmoStyle: Press and hold the Enter icon.


## Operation



- 2 Enter code **5349** and confirm.

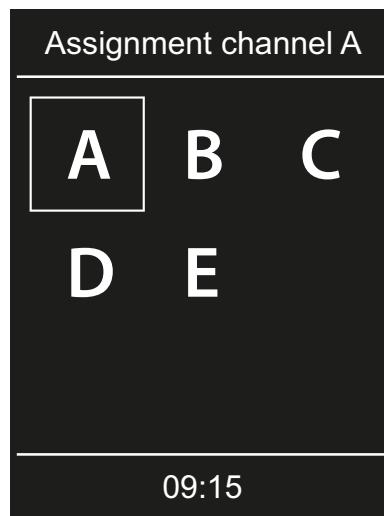


- ① Increase or decrease the numbers and confirm by pressing Enter. Confirmed numbers appear green.

- 3 : Select and confirm.

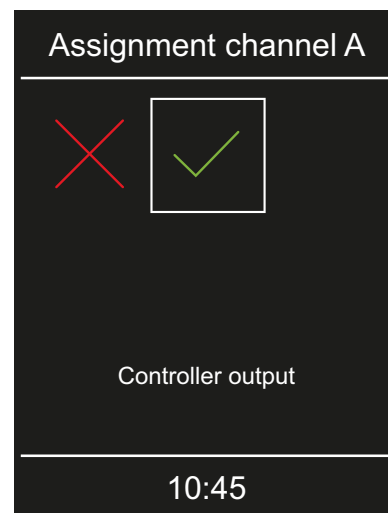
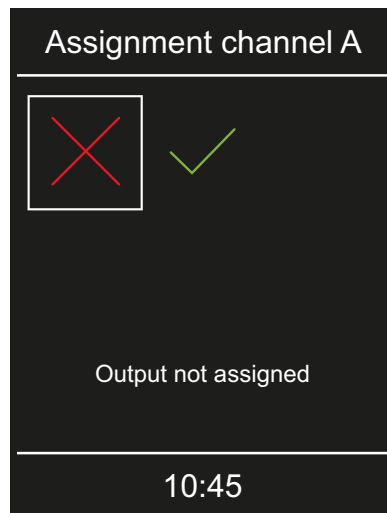


- 4 Select the channel and confirm.

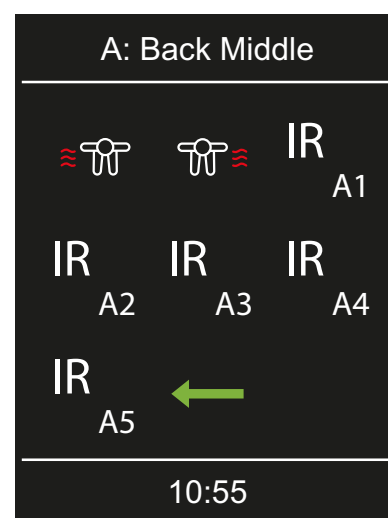
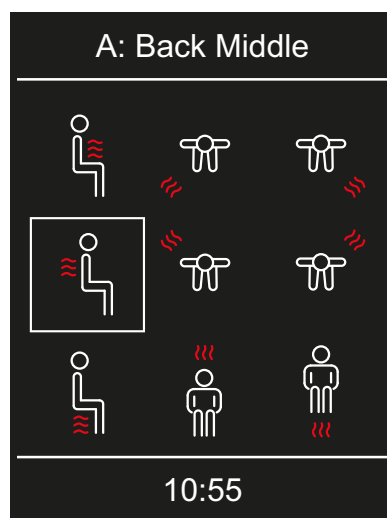


## Operation

- 5 Select the channel assignment and confirm.



- 6 Select the IR emitter icon and confirm.





① You may assign each icon only once.

- 7 Follow the same steps to configure the next channel group.

## 3.4.3 IR operating mode

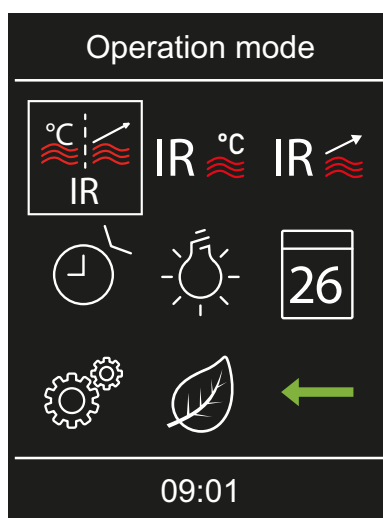
After installation, you can set the operating mode, temperature and/or intensity. You can also define the switching hysteresis for the IR emitters. The IR emitters have two operating modes.

These operating modes let you determine how the IR emitters can be used: via intensity and/or temperature.



Operating mode	Temperature	Intensity
	Ambient temperature can be set via temperature sensors Emitters heat until the temperature has been reached	All channel groups at 100%
	Ambient temperature increases slowly via channel group intensity	Can be set for each channel group

### ► Setting the operating mode

- 1 : Select and confirm.




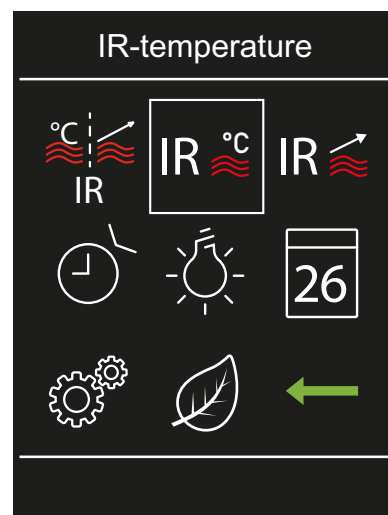
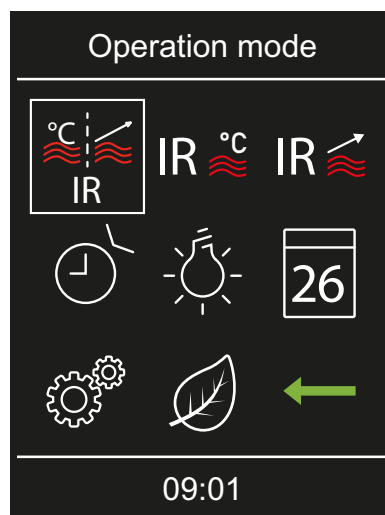
- 2 Select the IR operating mode and confirm.

- a)  IR intensity. In this operating mode, only the intensity of the IR emitters can be set.
  - b)  IR temperature. In this operating mode, both the IR temperature and the intensity of the IR emitters can be set.
- ① Depending on the IR operating mode you select, you can now set the temperature and/or intensity.

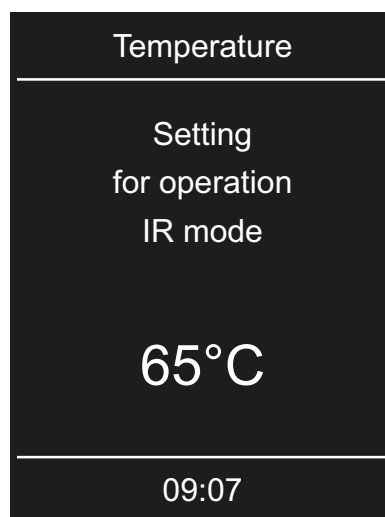
### 3.4.4 Setting the IR temperature

#### ► Setting the temperature

- 1 : Select and confirm.



- 2 Set the temperature and confirm.




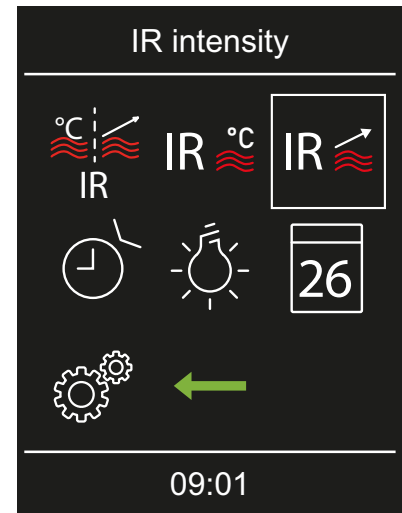
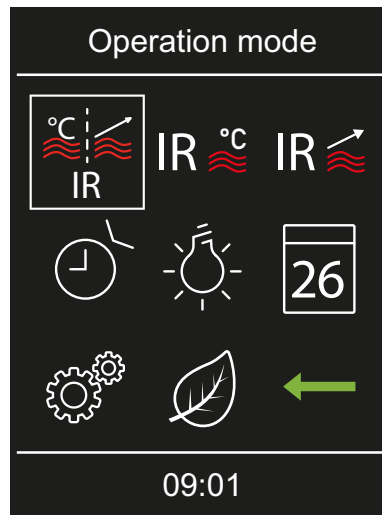
- 3 Confirm the set value.

☒ The value is saved and the display returns to the screen for operating mode selection.

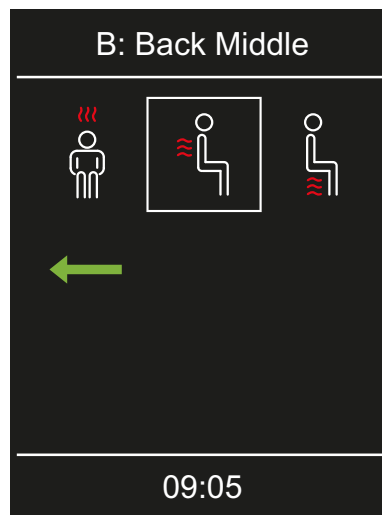
## 3.4.5 Setting the IR intensity

### ► Setting the IR emitter intensity

- 1 : Select and confirm.

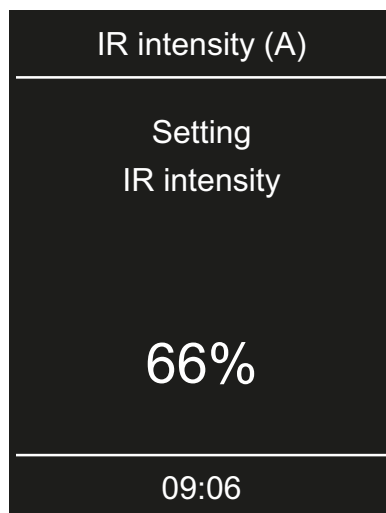


- 2 Select the channel and confirm.



- ① Only 0% or 100% may be selected for emitters at the IR-3 connection; 20%-100% for foils.

- 3 Set the IR emitter intensity.



- ① The value can be set in 2% intervals from 20% to 100%.
- ① Only 0% or 100% may be selected for emitters at the IR-3 connection; 20%-100% for foils.

- 4 Confirm the set value.

- ☒ The value is saved and the display returns to the screen for operating mode selection.
- ☒ The channel group emitters are immediately set to the new intensity. This means they are not set to the target temperature.

- 5 Repeat steps 1 to 4 for the next channel.


### 3.4.6 Switching hysteresis for the IR temperature

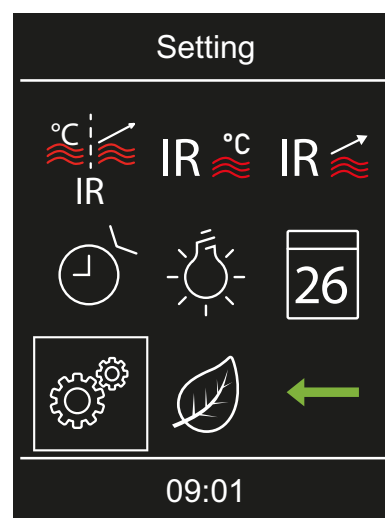
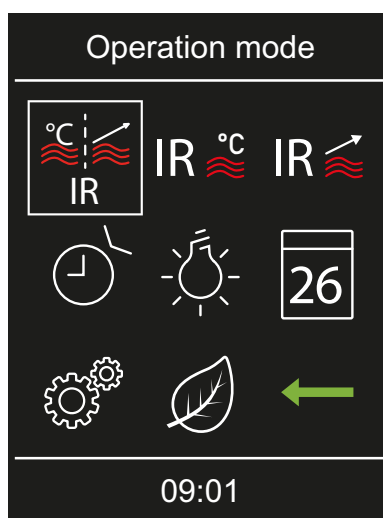
In the service settings, you can also set a temperature range within which the IR emitters are switched on and off. It applies to all connected IR emitters.

Example — 46°C target temperature and hysteresis 4 K: The IR emitter is switched off at 48°C and switched on at 44°C.

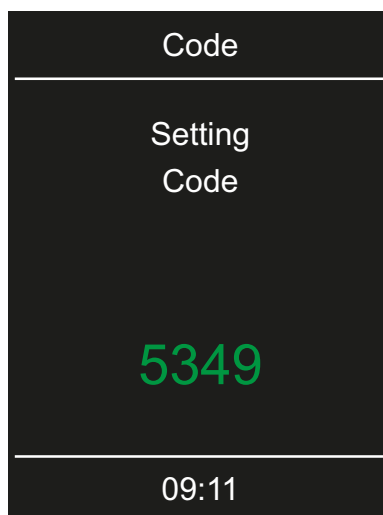


## ► Adjusting the hysteresis

- 1 : Select and confirm by pressing and holding until the code entry is displayed.
  - a) EmoTec: Press and hold the jog dial.
  - b) EmoStyle: Press and hold the Enter icon.




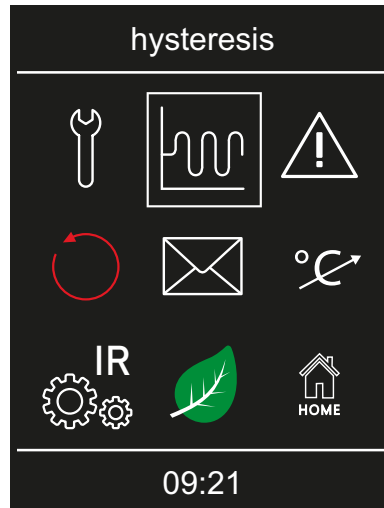
- 2 Enter code **5349** and confirm.



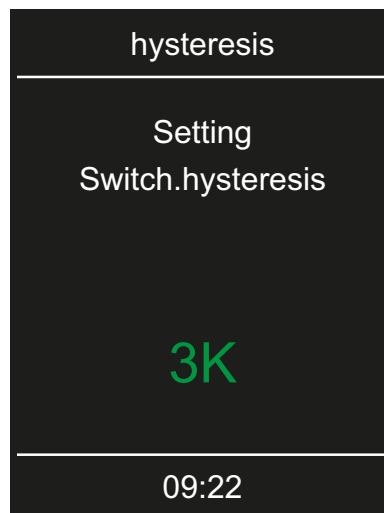
- ① Increase or decrease the numbers and confirm by pressing Enter. Confirmed numbers appear green.

## Operation

- 3 : Select and confirm.



- 4 Set the desired value and confirm.



- ☒ The value is saved and the display returns to the selection screen for advanced settings.

## 3.5 Troubleshooting

Error message and icons on the control panel indicate SBM-IR Modul operating statuses and fault conditions.

Fault	Reason	Solution
Control panel display is blank	No power supply.	Switch on the relay box.
		Check the relay box's mains connection.
		Check fuses.
		Check the power supply
IR temperature cannot be set	Channels are not set.	Define channel groups.
Communication error	Sauna bus not plugged in.	Check data line and connections.
	Jumpers not set.	Set JP1 and JP2 for connections IR-1 and IR-2.
	IR module is disconnected.	Set the heater operating mode.
	Channel groups not defined.	Define channel groups.
IR emitters do not heat.	Unit not detected.	Set unit address for the module.
Cabin is not displayed.	Cabin is not detected.	Check and set cabin address. Check the sequence of connections.
Thermo-fuse tripped.	Temperature too high.	Check cause of excess temperature. Replace fuse.
Unknown error.		Restart unit.
		Contact technical support.
No bus communication	Too many add-on modules connected.	Connect IR module with separate power supply.
	Bus connection plug not plugged in.	Plug in plug.
	Bus cable damaged.	Replace bus cable.

## General terms and conditions of service

# 4

### General terms and conditions of service

(T&C, Dated 008-2018)

#### I. Scope

Unless otherwise agreed in writing for specific instances, these terms and conditions of service shall apply to service operations, including reviewing and remedying complaints. All our existing or future legal relationships shall be governed solely by the following terms and conditions of service. We do not recognise any of the customer's conflicting terms and conditions unless we have given our express written consent to their applicability.

We hereby expressly object to any of the customer's terms and conditions included in the customer's General Terms and Conditions of Business or order confirmation. Unconditional acceptance of order acknowledgments or deliveries shall not be construed as any form of acknowledgment of such terms and conditions. Ancillary agreements or amendments must be confirmed in writing.

#### II. Costs

The customer shall bear the following costs in connection with services rendered:

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

There shall be no third-party billing.

#### III. Performance and cooperation obligations

The customer shall provide assistance free of charge to the manufacturer in rendering services.

In the case of a warranty claim, the manufacturer shall provide replacement parts necessary for servicing free of charge.

#### IV. Service visit by the manufacturer

Services rendered on site by an employee of the manufacturer must be agreed in advance.

If the main reason for the service visit is not the fault of the manufacturer, any costs incurred shall be charged to the customer after the service visit and must be paid by the customer in full within the agreed payment term.

## **V. Liability**

The manufacturer shall assume liability in accordance with the currently applicable statutory regulations. All our products are packaged in such a way that the individually packed goods (pallets) can be shipped. We wish to point out that our packaging is not suitable for individual shipments via parcel post. The manufacturer shall accept no liability for damages incurred as a result of improper packaging in an individual shipment.

## **VI. Manufacturer's warranty**

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

- The warranty period shall commence from the date on which proof of purchase is provided and shall be limited, in all cases, to 24 months.
- Warranty services shall be performed only if proof of purchase of the equipment can be presented.
- Any and all warranty claims shall become void if modifications are made to the equipment without the manufacturer's express consent.
- Any warranty claim shall likewise become void in the case of defects that arise due to repairs or interventions made by unauthorised persons or due to improper use.
- In the case of warranty claims, the serial and article numbers must be provided, together with the unit designation and a meaningful description of the fault.
- This warranty shall cover defective equipment parts, with the exception of normal wear parts. Wear parts shall include, for example, light sources, glass elements, tubular heating elements and sauna heater stones.
- Only original replacement parts may be used within the warranty period.
- Service visits made by third parties shall require a written order issued by our service department.
- The equipment in question shall be sent to our service department by the customer at the customer's own expense.

## General terms and conditions of service

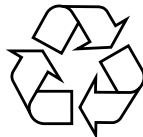
- Electrical assembly and installation work, including service visits and parts replacements, shall be carried out at the customer's expense; costs shall not be borne by the manufacturer.

Complaints in respect of our products shall be reported to the responsible distributor and shall be handled exclusively by said distributor.

The manufacturer's General Terms and Conditions of Business, in the version available at [www.eos-sauna.com/agb](http://www.eos-sauna.com/agb), shall apply in addition to the foregoing terms and conditions of service.

# 5

## Disposal



Electrical devices that are no longer needed must be recycled at a recycling station as per EU guideline 2012/19/EU or as per the Electrical and Electronic Equipment Act (ElektroG).

Observe local provisions, laws, regulations, standards and directives when disposing of the steam generator.



Do not dispose of the unit with household waste.

### Packaging

SBM-IR Modul packaging can be completely separated for disposal and recycled. The following materials are used in the packaging:

- Used paper, cardboard
- Plastic foil
- Foam material

### Electronic waste

Electronic waste must be disposed of at the designated local collection point for electronic waste.

### **Service address**

EOS Saunatechnik GmbH

Schneiderstriesch 1

35759 Driedorf, Germany

Tel. +49 2775 82-0

Fax +49 2775 82-431

Web [www.eos-sauna.com](http://www.eos-sauna.com)

Store this address with the Operating Instructions in a safe place.  
Please always provide us with nameplate data, such as model, item number and serial number so we can provide fast and efficient support.

### **Date of sale**

### **Stamp/retailer signature:**