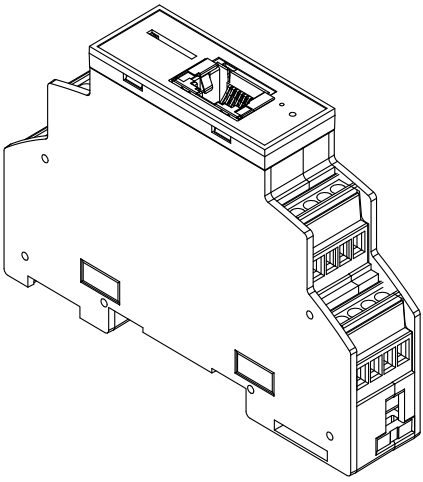
EN

EOS

FINEST SAUNA ENGINEERING

SBM-App Modul

for the EOS Spa Control App



Installation and Operating Instructions

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Original installation and operating instructions EN

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Characters, symbols and illustrations

- ⓘ Additional information about an operating step
- 🗋 Cross-reference to a page
- 🕮 Read instructions
- ☑ Result of a step
- 🗔 Table title
- 🖻 Title of figure
- ≤ ≥ Less than or equal to, greater than or equal to

Revision history

Date	Version	Description
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1 General safety instructions

1.1 Mounting and electrical installation

These installation 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 mounting, configuration and commissioning of the product.

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 remains also after completion of the installation work.

- ▶ Ensure compliance with the applicable standards and regulations for electrical installation.
- ▶ The system must be completely disconnected from the mains supply before commencing installation and repair work.
- ▶ The module housing may not be opened.

Damage due to incorrect mounting location

The module is not suitable for outdoor use.

- ▶ It must be operated only inside buildings and may not be exposed to environmental conditions such as extreme humidity and moisture or the possible formation of condensation or corrosive substances in the ambient air, as well as other weather conditions.
- ▶ Similarly, excessive cold and extreme exposure to sunlight must be prevented.
- ▶ Protect the unit accordingly if there is an increased risk of mechanical damage.

1.2 Operator instruction

During commissioning, the operator of the sauna/infrared cabin or steam room must be instructed in relation to the following general safety instructions: The operator must be given a copy of the operating instructions.

Risk of electric shock

A risk to life and limb from electric shock and fire arises in the event of improper repair work. This risk remains also after work is completed.

- ▶ Repairs and installations must only be performed by a trained specialist.
- ▶ The system must be disconnected and removed entirely from the mains supply before commencing repair work.
- ▶ Use only original spare parts from the manufacturer.

Fire hazard

Objects placed on heaters can easily be ignited and cause fires.

▶ If you switch on the heater using pre-set timers or a remote control, attach a protective cover to the heater or install a suitable safety system (e.g. rocker switches, EOSafe).

Operation by children or persons with reduced mental capacity

- Children and persons with reduced physical, mental or sensory abilities must be supervised to ensure that they do not play with the unit.
- Children under 8 years of age should not operate sauna or infrared cabins, or steam rooms.
- The settings for the heating period may only be changed by children 8 years of age or older if they are supervised by an adult.
- Operation of sauna cabins, infrared cabins or steam rooms must not be started by persons with reduced mental capacity or limited physical or sensory abilities unless they are supervised or unless 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.

1.3 Safety levels

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

⚠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.

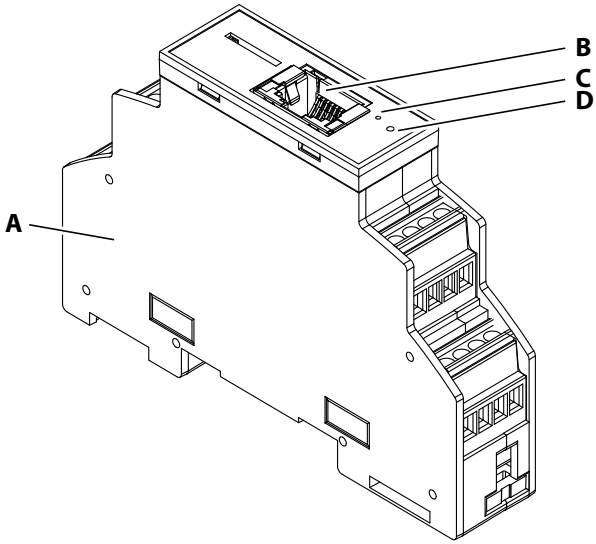
1.4 Standards and regulations

For an overview of the standards that were observed during design and construction of the sauna heater, please refer to the individual product's technical data sheet that can be downloaded from www.eos-sauna.com.

2 Identification

The SBM-App module is used in conjunction with the EOS Spa Control App for the remote control of selected functions in sauna cabins, infrared cabins and steam rooms.

2.1 Overview



A Housing
B Ethernet port
C Pairing LED
D Pairing button

2.2 Scope of delivery

The following components are included in the scope of delivery:

- SBM-App module
- Sauna bus cable
- Installation and Operating Instructions

Check the scope of delivery for completeness prior to mounting and installation.

2.3 Nameplate

The nameplate is attached to the side of the SBM-App module.

A Manufacturer
B Hardware ID
C MAC address
D CE marking
E Product name
F Manufacturer address
G Country of manufacture

2.4 Technical data

Ambient temperature	-10°C to +40°C
Storage temperature	-20°C to +60°C
Module housing	Plastic
Module dimensions (H x W x D)	62 x 90 x 18 mm
Control units	EmoTec series (firmware R4.00 or higher), EmoStyle/ InfraStyle series (firmware R4.00 or higher), EmoTouch 3 series (firmware R2.33 or higher)
Connections	1 x EOS sauna bus (RJ12 plug 6P6C) 1 x 10/100 BaseT Ethernet RJ45 socket, shielded
Power supply	24 V DC via EOS sauna bus cable
Module energy consumption	< 1 W
Terminal torque Terminals	0.22 to 0.25 Nm
Operating systems that support the app	iOS, Android
Port required for connection	7250
Variable IP address assignment	Via DHCP, IPv4
Units of measure for temperature display	Automatic conversion between °C and °F depending on the mobile device's region.

2.5 Requirements for operation and storage

The SBM-App module must only be mounted outside of sauna cabins, infrared cabins and steam rooms. The installation location must meet the following environmental conditions:

- Ambient temperature during operation -10°C to 40°C
- Storage temperature: -20°C to 60°C
- No condensing or corrosive atmosphere

The SBM-App module can be operated with one of the following control units:

- EmoTec series (firmware R4.00 and higher)
- EmoStyle/InfraStyle series (firmware R4.00 and higher)
- EmoTouch 3 series (firmware R2.33 and higher)

Check your control unit's software version. Update your software if it does not match the specifications above. The control units are not included in the scope of delivery.
For more information on the control units, please refer to the relevant operating instructions.

2.6 Intended use

The SBM-App module serves as an extension to the control units of the EmoTec, EmoStyle, InfraStyle and EmoTouch 3 series in connection with the EOS Spa Control App for remote control of selected functions in sauna cabins, infrared cabins and steam rooms.

This type of remote control is designated as a remote control* as per EN 60355-1.
Therefore, an additional safety measure is required as per EN 60335-2-53 when used in conjunction with a sauna cabin.
This safety measure could be a protective cover on the heater, a door supervision device or another type of technical equipment. Always ensure that a safety measure of this nature is installed.

The SBM-App module is not suitable for outdoor use. It must be operated only inside buildings and may not be exposed to environmental conditions such as extreme humidity and moisture or the possible formation of condensation or corrosive substances in the ambient air, as well as other weather conditions. Similarly, excessive cold and extreme exposure to sunlight must be prevented. Protect the unit accordingly if there is an increased risk of mechanical damage.
The SBM-App module is not suitable for installation at a height of over 2000 m (6,562 ft).

*Remote control = setting up, controlling and/or regulating a device with a command that can be given outside of the visual range of a device, whereby the transmission media such as telecommunication, audio engineering or bus systems are used; also included are pre-set timers and weekly timers.

(from EN 60335-1)

Foreseeable misuse

The following are considered instances of foreseeable misuse:

- The connecting cables are connected incorrectly.
- The cabin addresses are programmed incorrectly.
- The unit is operated without knowledge of or compliance with the safety instructions.
- Operation takes place in conjunction with a sauna cabin that does not comply with the valid safety standards.
- Operating, service and maintenance requirements are not observed.
- The unit is operated by children under 8 years of age.
- The unit is operated by children 8 years of age or older, or persons with reduced mental capacity who have not been thoroughly instructed in its use.

3 Mounting and electrical installation

This chapter describes how to install and set up the SBM-App module.

NOTICE

Damage due to incorrect mounting location

Weather conditions lead to the formation of condensation in the housing of the SBM-App module and destroy the lines and circuit boards.

- ▶ Mount and operate the module only inside buildings.
- ▶ Protect the module from splashes of water, high levels of humidity or moisture. Protect the module in a suitable housing (IPx4, see DIN EN 60335-2-53).
- ▶ Protect the module from conditions in the ambient air that promote corrosion.
- ▶ Protect the module from frost and direct sunlight.
- ▶ Protect the module from mechanical damage.

3.1 Mounting the SBM-App module

You require:

- Standard Ethernet cable (RJ45)
- Compatible control unit
- Internet access point (router/DSL modem)

The SBM-App module is designed for mounting on a top-hat rail and can be installed either next to the relay box for the control unit (recommended) or next to the internet access point (router/DSL modem).

1 Ensure that the relay box is disconnected from the power supply.

2 Mount the SBM-App module on a profile rail.

3 Connect the sauna bus cable of the SBM-App module to a free sauna bus connection (RJ12) on the relay box.
ⓘ To connect the sauna bus cable to the relay box, observe the installation instructions for the relay box.

4 Connect the SBM-App module to an internet access point (router/DSL modem) via a standard Ethernet cable (RJ45).

3.2 Installing the SBM-App module

You require:

- Thin, blunt object (e.g., paper clip)
- Mobile device (iOS, Android) with active internet connection
- Internet connection (e.g. router/DSL modem)
- EOS Spa Control App on the mobile device

Ensure that the internet connection is not blocked by the firewall (port 7250 must be available).

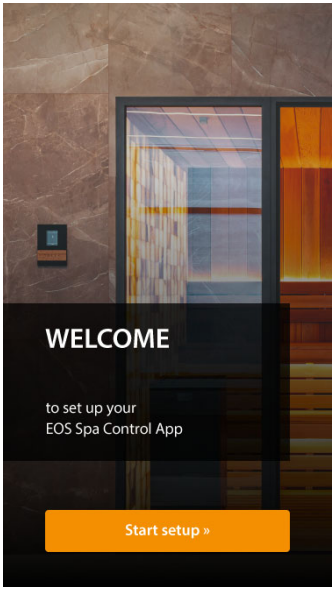
1 Switch on the control unit.
   ☑ The SBM-App module is supplied with power via the sauna bus.

2 Check the SBM-App module's internet connection.
   ⓘ The SBM-App module will attempt to establish an internet connection on its own. Internet connection is established when the right-hand LED below the Ethernet port lights up green continuously. The left-hand LED below the Ethernet port flashes green when there is network activity.

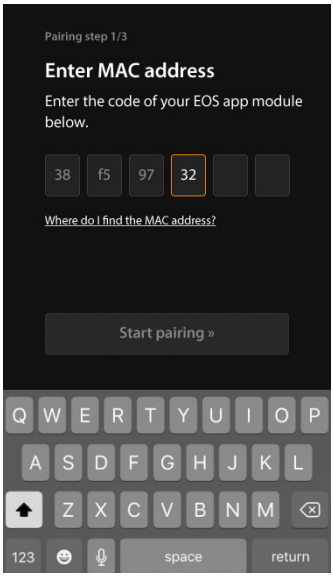
3 Download the EOS Spa Control App from the App Store (iOS) or Play Store (Android) and install it on your mobile device.

4 Open the EOS Spa Control App.

5 Choose **Start setup »**.

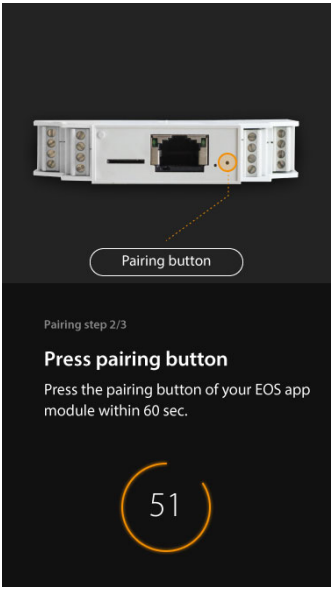


6 Enter the SBM-App module's individual MAC address.
   ⓘ It can be found on the SBM-App module's nameplate. See 2.3 Nameplate, 🗋 EN-10



7 Choose **Start pairing »**.
ⓘ Have a thin object (e.g., paper clip) ready.

8 Within 60 seconds, press and hold the pairing button on the SBM-App module with a thin, pointed object for approx. 2 seconds.



ⓘ Pairing may fail if the pairing button is not pressed long enough or pressed too long. After releasing the pairing button, the pairing LED briefly illuminates red.

ⓘ If pairing does not occur within 60 seconds, the screen for entering the MAC address reappears and pairing can be restarted. The time remaining for pairing is displayed in the app.

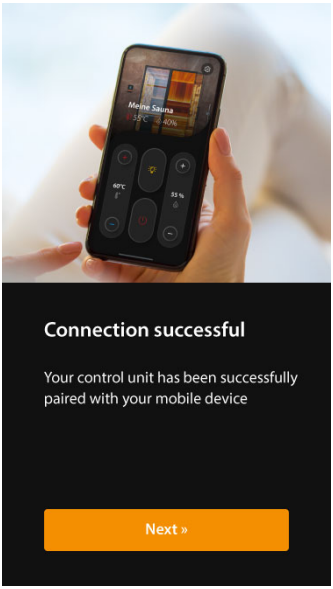
If pairing fails:

a) Ensure that the SBM-App module and the mobile device are connected to the internet (indicated by a green status LED on the module).

b) Ensure that the pairing button is pressed and held for approx. 2 seconds.

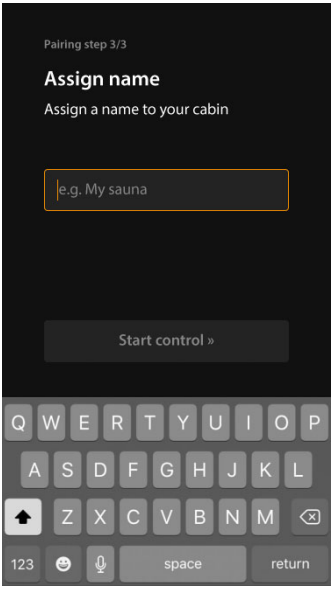
☑ If pairing is successful, a message is displayed in the app.

9 Choose **Next »**.



10 Enter a sauna name.

ⓘ Additional cabins can be entered later.



11 Choose **Start control »** to complete installation.

4 Operation

4.1 Starting the heating process

1 Press and at the same time and hold for 3 seconds.

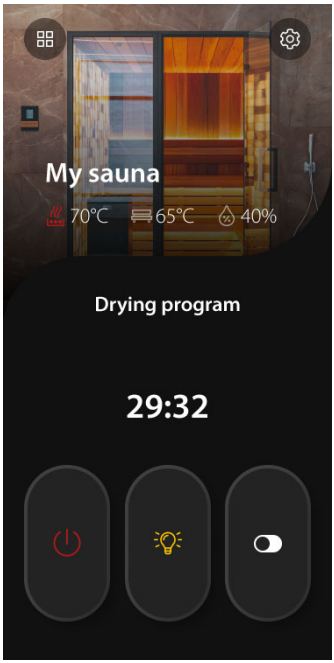
☑ The heating process starts.

4.2 Ending the heating process

1 : select.

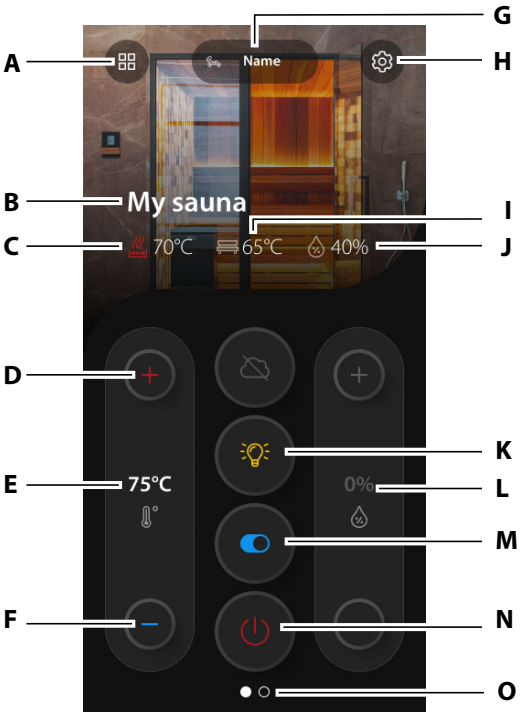
ⓘ In sauna cabins and steam rooms, the control unit switches to the drying program. The duration of the drying program can be set on the control panel (factory setting: 30 minutes). At the end of the drying program, the control unit switches off.

2 To end the drying program prematurely:



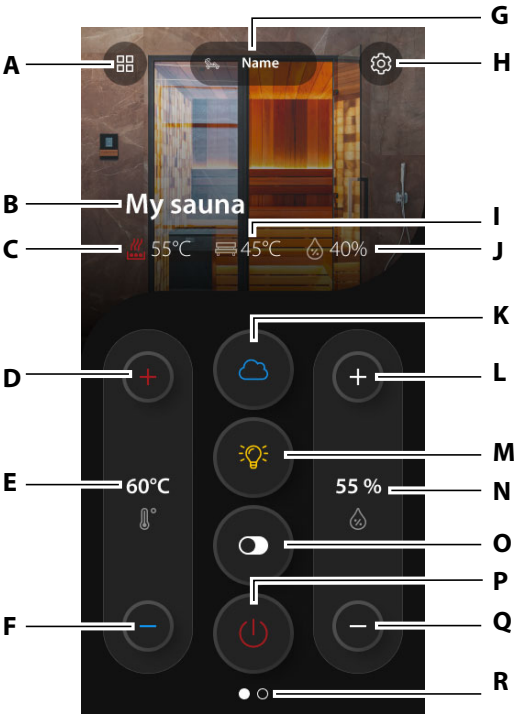
3 Confirm the prompt.

4.3 Operating the sauna in Finnish mode



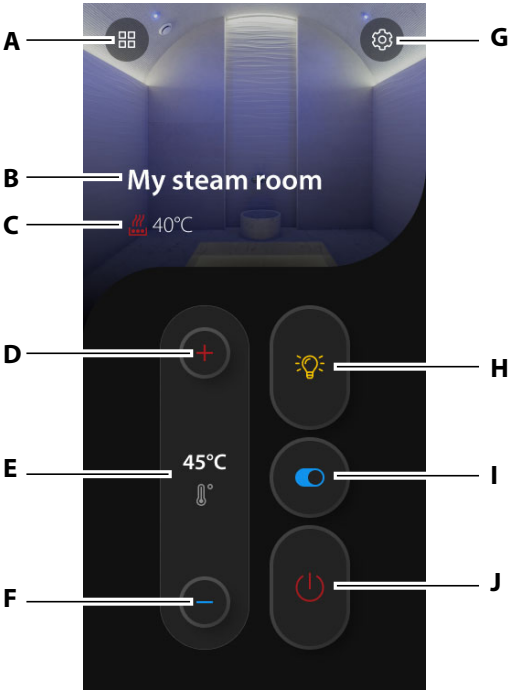
A Overview of cabins
B Cabin name
C Temperature (actual value)
D Increase temperature
E Temperature (target value)
F Decrease temperature
G Selected profile
H Settings
I Bench temperature
J Humidity (actual value)
K Switch lighting on/off
L Humidity (target value)
M Switch potential-free contact on/off
N End heating process
O Screen page view

4.4 Operating the sauna in Bi-O mode



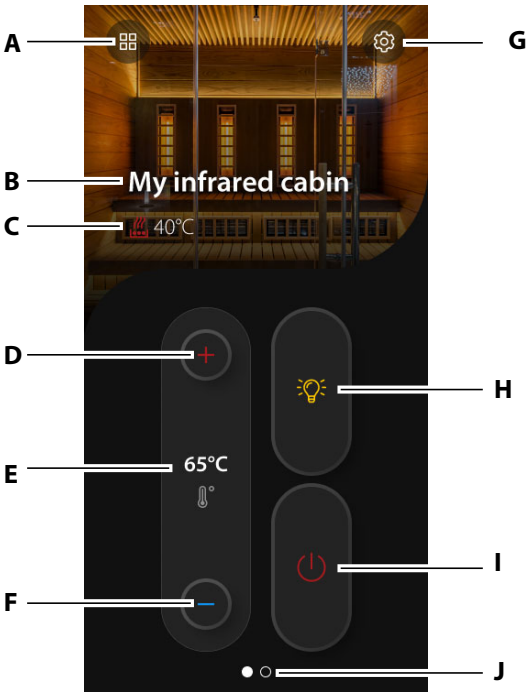
A Overview of cabins
B Cabin name
C Temperature (actual value)
D Increase temperature
E Temperature (target value)
F Decrease temperature
G Selected profile
H Settings
I Bench temperature (if available, will not be shown in Bi-O mode)
J Humidity (actual value)
K Switch vaporiser on/off
L Increase humidity
M Switch lighting on/off
N Humidity (target value)
O Switch potential-free contact on/off
P End heating process
Q Decrease humidity
R Screen page view

4.5 Operating the steam room



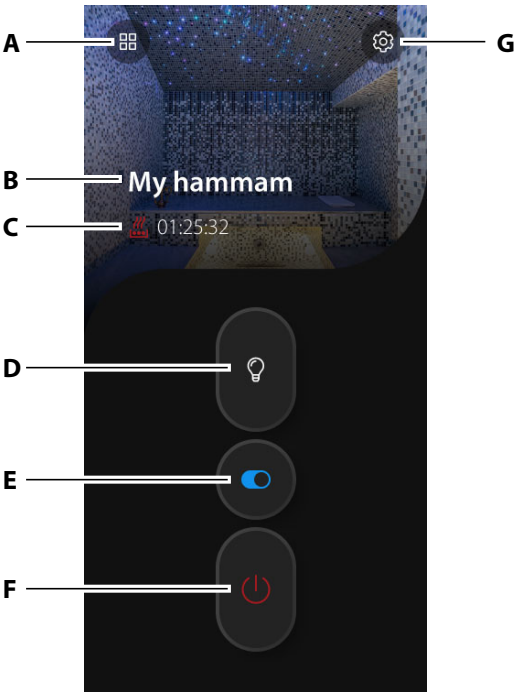
A Overview of cabins
B Cabin name
C Temperature (actual value)
D Increase temperature
E Temperature (target value)
F Decrease temperature
G Settings
H Switch lighting on/off
I Switch potential-free contact on/off
J End heating process

4.6 Operating the infrared cabin



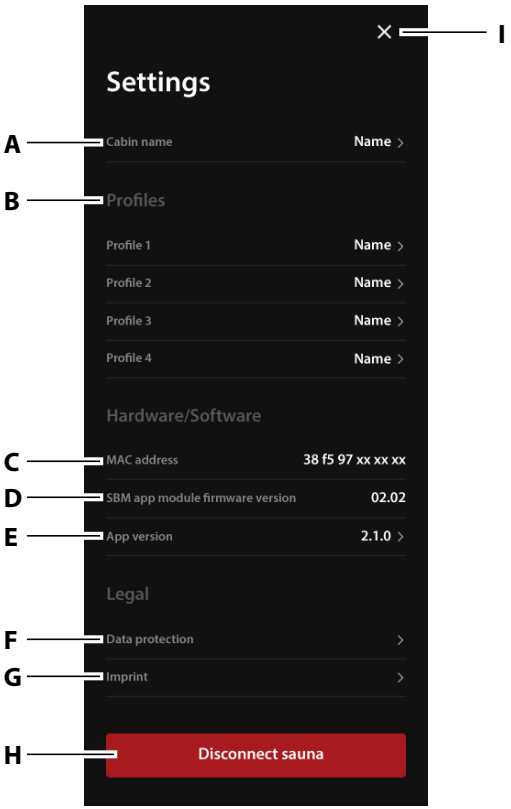
A Overview of cabins
B Cabin name
C Temperature (actual value)
D Increase temperature
E Temperature (target value)
F Decrease temperature
G Settings
H Switch lighting on/off
I End heating process
J Screen page view

4.7 Operating the Roman bath



A Overview of cabins
B Cabin name
C Time remaining
D Switch lighting on/off
E Switch potential-free contact on/off
F End heating process
G Settings

4.8 Changing the settings



A Change cabin name
B Edit profile
C SBM-App module MAC address
D SBM-App module firmware version
E App version
F Data privacy notice
G Legal notice
H Disconnect cabin
I Close settings

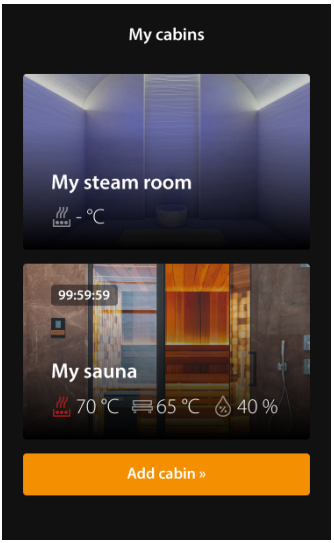
4.9 Cabins

4.9.1 Adding a cabin

You can control the functions of up to 8 cabins with the EOS Spa Control App. Each cabin requires its own SBM-App module.

1 : select.

2 Select **Add cabin »**.



ⓘ Note for EmoTouch 3 systems with multi-cabin control: A separate SBM-App module with the corresponding programmed cabin ID must be connected for each cabin starting with address 2. Such modules are available on request. The default ID of the SBM-App module ex works is 1.

3 Perform pairing. See 3.2 Installing the SBM-App module, 🗋 EN-16

4.9.2 Disconnecting the cabin

1 : select.

2 Select **Disconnect sauna**. The cabin is removed from the app.

4.9.3 Selecting the cabin

1 : select.

2 Select the desired cabin.

4.10 Profiles

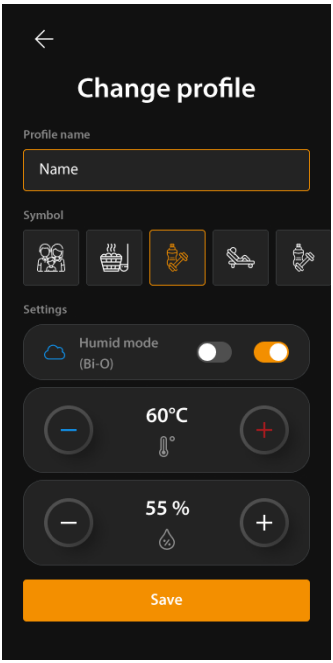
4.10.1 Adding a profile

You can create up to four individual profiles with preset values. The values that can be set depend on the cabin type.

1 : select.

2 Select the desired profile from the **Profiles** menu.

3 Enter a profile name.



4 Select an icon.

5 Switch vaporiser on/off:

6 Set temperature:

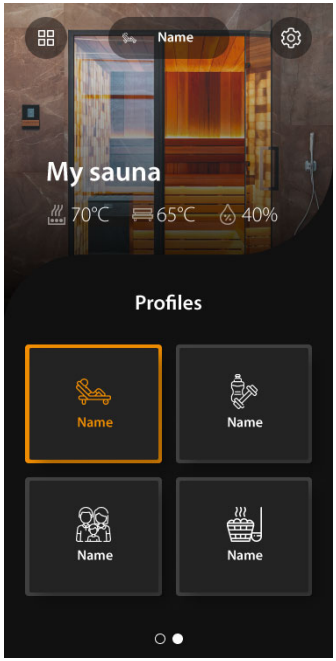
7 Set humidity:

8 Select **Save**.

4.10.2 Selecting a profile

1 On the home screen, scroll to **Profiles**○●.

2 Select the desired profile.



4.11 Troubleshooting

Error	Reason	Solution
The cabin cannot be switched on or off.	The relay box is switched off.	Switch on the relay box.
	The SBM-App module is not connected to the internet.	Check the SBM-App module's internet connection.
	The mobile device is not connected to the internet.	Check the mobile device's internet connection.
Values set in the EOS Spa Control App are not applied.	The relay box is switched off.	Switch on the relay box.
	The SBM-App module is not connected to the internet.	Check the SBM-App module's internet connection.
	The mobile device is not connected to the internet.	Check the mobile device's internet connection.

5 General terms and conditions of service

(T&C, Dated 08-2018)

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:

- Mounting/dismantling 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 spare 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 installation and operating instructions.

- 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 error.
- 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 spare 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.
- 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, shall apply in addition to the foregoing terms and conditions of service.

6 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 unit.

Do not dispose of the unit with household waste.

Packaging

The packaging of the unit 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.

EOS
FINEST SAUNA ENGINEERING

Service address

EOS Saunatechnik GmbH
Schneiderstriesch 1
35759 Driedorf, Germany
Tel. +49 2775 82-514
Fax +49 2775 82-431
Email service@eos-sauna.de
Web www.eos-sauna.com

Store this address with the installation 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:

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