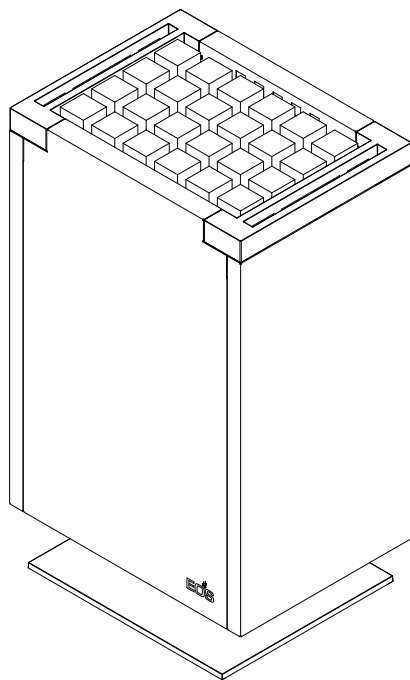
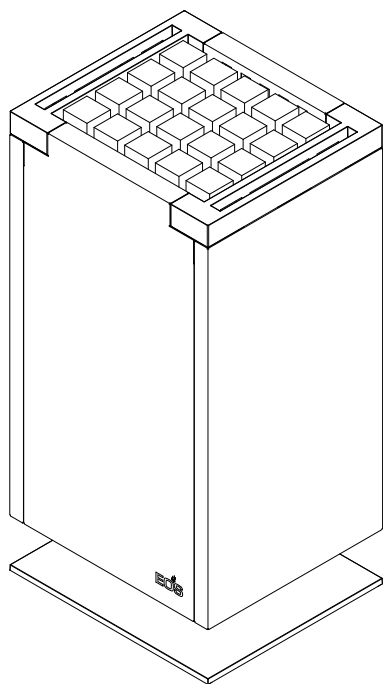


EOS Mythos S35 / S45

Heater for Sauna Cabins



Installation and Operating Instructions

Made in Germany

Documentation

Manufacturer

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Original installation 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
- $\leq \geq$ Less than or equal to, greater than or equal to

Revision history

Date	Version	Description
6 Dec. 2022	01.10	Nameplate and technical data updated, labeling of internal wiring changed
1 Feb. 2022	01.00	First version

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1 General safety instructions

1.1 Mounting and electrical installation



The 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 also applies following completion of the installation work.

- ▶ The electrical installation of the heater, relay boxes and other electrical systems or equipment with a fixed mains connection must only be performed by a trained electrician from an authorized electrical company.
- ▶ Ensure compliance with the applicable standards and regulations for electrical installation.
- ▶ The system must be disconnected and removed entirely from the mains supply before commencing installation and repair work.
- ▶ The housing cover may be removed only by an electrician.

Fire hazard from overheating

Insufficient ventilation can lead to device overheating and fire.

- ▶ Install air inlets and outlets in the cabin.
- ▶ Observe the cabin manufacturer's safety and installation instructions.

Risk of fire due to sauna stones

It is possible for hot stones or stone pieces to fall out of the rock store.

- For this reason, the sauna heater may not be placed on a floor made of easily flammable material (e.g., laminate or synthetic flooring). Ceramic tiles are recommended as a flooring option.

Risk of burns from hot glass

Glass surfaces in the cabin become hot while the sauna is in operation.

- When installing the cabin, ensure that the touchable glass surfaces on the outside of the cabin may reach a maximum temperature of 76 °C/168 °F. Appropriate protection may need to be installed if required.

Risk of burns from hot unit

During operation, the sauna heater may become hot and, if touched, could cause burns.

- Maintain a safe distance.

Sauna cabin and heater

The sauna cabin must be constructed with proper material and built in a professional manner, and the heater must be suited for the cabin.

- Sauna heaters and control units may only be used in sauna cabins made of suitable, low-resin and untreated material (e.g., Nordic spruce).
- Multiple heaters may be installed in one sauna if the heater output can properly supply the cabin volume. In this case, depending on the position, an additional safety temperature limiter must be installed for each additional heater.

- ▶ The sauna heater is not designed to be installed or set up in an alcove or under a bench or sloping roof, unless the sauna heater is specifically designed and approved for this type of installation.
- ▶ Receptacles may not be installed inside the sauna cabin.
- ▶ Each sauna cabin must have air inlets and outlets. The air inlets and outlets may be installed below or behind the sauna heater, approx. 5 to 10 cm/2 to 3.9 inches above the floor. The minimum dimensions of the air inlets and outlets can be found here: 2.4 Technical data, □ EN-17, 3.1.1 Installation site, □ EN-21.
- ▶ The exhaust openings are always installed in the lower part of the wall diagonal to the sauna heater. The supply and exhaust openings must not be closed. Please observe the instructions provided by your sauna cabin manufacturer.
- ▶ Use one of the control units listed below to check and control the sauna heater. This control unit is fixed to a suitable location on the cabin's external wall, and the corresponding sensor housings according to the installation instructions that accompany the control units inside the sauna cabin.
- ▶ The cabin lighting must be safe for sauna cabin use and installed in such a way that it can be used safely in a sauna cabin. Ensure that the heater is installed in compliance with the standards and legal norms valid in your country.
- ▶ The cabin door must open outward and must not have a lock that cannot be opened in the case of failure. We recommend magnetic or spring locks.

1.2 Operator instruction

The operator of the sauna cabin must be instructed in the general safety instructions during commissioning. The operator must be given a copy of the operating instructions.

The operator must make the end user aware of safety instructions that are relevant to the end user.

The operator must be familiar with the settings for the heating period and understand how it is controlled.

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 also applies after work is completed.

- ▶ The housing cover may be removed only by an electrician.
- ▶ Repairs and installations must only be performed by a trained electrician.
- ▶ 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 the heater or protective grilles can easily be ignited and cause fires.

- ▶ Attach the heater guard rail.
- ▶ Do not place objects on the heater.
- ▶ Fill the stone grate as directed.
- ▶ Inspect the sauna cabin prior to each commissioning.
- ▶ 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.

Health risks

Spending time in a sauna cabin can lead to serious health risks or even death for persons with health impairments.

- Persons with health impairments who spend time in a sauna must consult a doctor before entering a sauna cabin.

Damage to health

Excessive time spent in a heated sauna cabin can lead to overheating of the body (hyperthermia), which may cause serious health problems and even death. Hyperthermia occurs when the core temperature of the body exceeds the norm by a few degrees. Symptoms of hyperthermia include fever, dizziness, lethargy, sleepiness, and fainting. Side effects of hyperthermia include perception disorders, inability to recognize the need to leave the room, inability to identify imminent danger, harm to the fetus in the case of pregnant women, inability to physically leave the room, unconsciousness.

Alcohol, drugs, and medications increase the risk of hyperthermia.

- Do not exceed the maximum recommended time in the sauna.
- Leave the sauna cabin if your body responds abnormally to the heat or if you do not feel well.
- Avoid alcohol, drugs, and medications when you are using the sauna.

Operation by children or persons with reduced mental capacity

Children and persons with reduced mental capacity can put themselves at risk.

- ▶ Children must be supervised to ensure they do not play with the unit.
- ▶ Children under 8 years of age should not operate the sauna cabin.
- ▶ The settings for the heating time must only be changed by children under 8 years of age if they are supervised by an adult.
- ▶ The sauna cabin must only be used by persons with reduced mental capacity, or limited physical or sensory abilities under supervision or if they have been previously 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 Heater and cabin labels

UL 875 (Electric Dry-Bath Heaters) requires the following labels to be affixed.

Heater – left side

**WARNING**

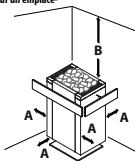
REDUCE THE RISK OF FIRES
Do not install Closer Than 900 mm (or 35,4 inches)
To A Horizontal Surface (Ceiling).
295475 / 02.22/09/04

**AVERTISSEMENT**

RÉDUIRE LE RISQUE D'INCENDIE
Ne pas installer à moins de 900 mm (ou 35,4 pouces)
d'une surface horizontale (plafond).
295475 / 02.22/09/04

Observe the important additional instructions in the manual! Suitable for damp location.
Consultez les instructions supplémentaires importantes dans le manuel! Convient pour un emplacement humide

	mm	inch
A	40	1,6
B	900	35,4

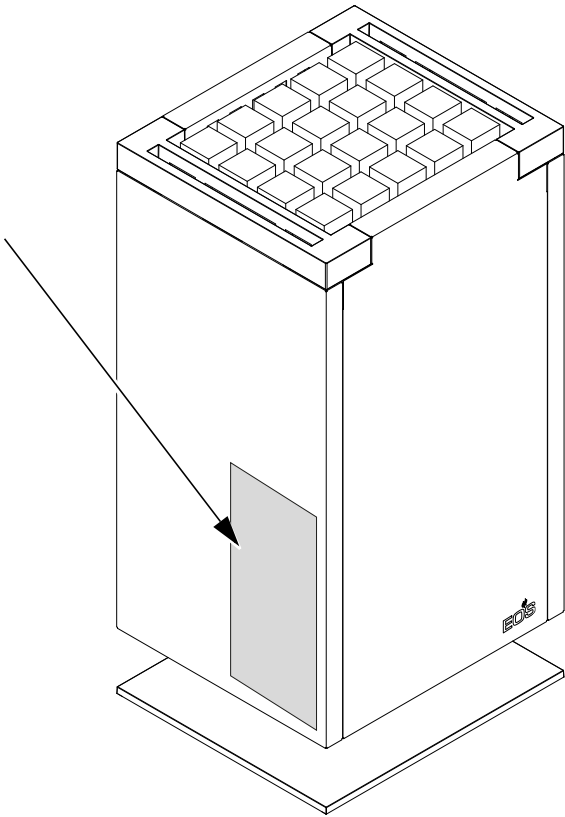


Print no. 29546280 / 02.22

FOR SUPPLY CONNECTIONS USE ONLY COPPER WIRE CABLE SUITABLE FOR AT LEAST 90 °C.
POUR LES CONNEXIONS ÉLECTRIQUES PREVOIR UN CÂBLAGE DE CUIVRE RÉSISTANT AU MOINS À 90° C.

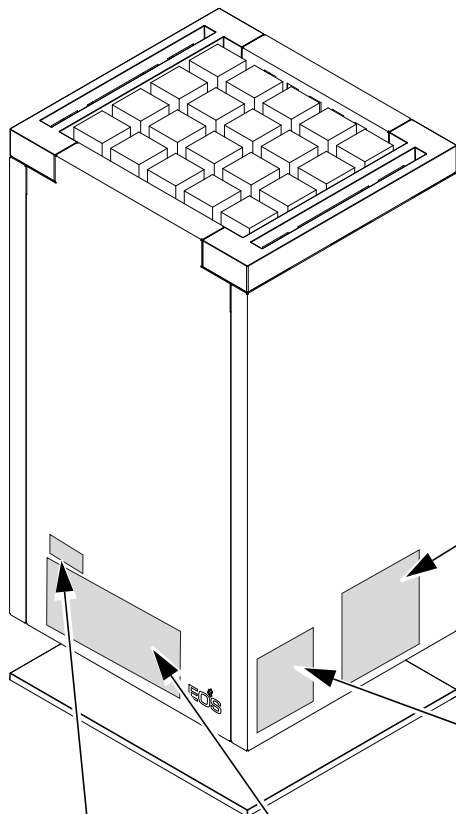
Heater output Puissance du poêle	Cabin volume Volume de cabine	Minimum ventilation Ventilation minimale
7,5 kW	4,2-6,3 qm x 1,90 m 45,3-67,8 qm ft x 6,2 ft	35 x 5 cm 1,2 x 0,2 ft
9,0 kW	4,7-7,4 qm x 1,90 m 50,5-79,7 qm ft x 6,2 ft	35 x 6 cm 1,2 x 0,2 ft
12,0 kW	7,4-9,5 qm x 1,90 m 79,7-102,3 qm ft x 6,2 ft	35 x 7 cm 1,2 x 0,3 ft
15, kW	9,5-12,2 qm x 1,90 m 102,3-142 qm ft x 6,2 ft	35 x 9 cm 1,2 x 0,4 ft

Location of control unit in a dry area /
Emplacement de l'unité de commande dans une zone sèche
Emofec USA/CAN D/H
Print no. 29545281 / 02.22



 Example: EOS Mythos S35

Heater – front and right side



⚠ WARNING!  

DO NOT PLACE ANY OBJECTS ON HEATER. COVERING CAUSES FIRE RISK.
AN INADEQUATELY FILLED ROCK STORE CAUSES FIRE RISK.
DO NOT OPERATE WITHOUT ROCKS.

⚠ AVERTISSEMENT!

NE PAS PLACER DES OBJETS AU-DESSUS DU POÊLE. IL Y A UN RISQUE D'INCENDIE SI LE POÊLE EST RECOUVERT.
IL Y A UN RISQUE D'INCENDIE SI LE COMPARTIMENT DE PIERRES N'EST PAS CORRECTEMENT REMPLI.
NE PAS CHAUFFER SANS PIERRES.

Print no. 29345269 / 02.22

For household use only
Uniquement pour usage privé

Sauna heater
Type EOS Mythos S35 XXX
Item-No. 94 XXXX 00
240 V 2Ph AC 60 Hz XX kW

 **IPX4** 

Made in Germany S-No. 20.22 00002
EOS SAUNATECHNIK GmbH, Schneiderstriesch 1, 35759 Driedorf

 C US

⚠ WARNING

REDUCE THE RISK OF ELECTROCUTION

Disconnect All Supply Connections Before Servicing.
This Appliance Has 1 Supply Connection.

2024007_F01.1_20210503

⚠ WARNING

REDUCE THE RISK OF ELECTROCUTION AND BURNS

Do Not Operate Unless Guard Is In Place.

2024001_F01.1_20210503

⚠ AVERTISSEMENT

RÉDUIRE LE RISQUE D'ÉLECTROCUTION

Débranchez toutes les connexions d'alimentation avant de procéder à l'entretien.
Cet appareil a 1 connexion d'alimentation.

2024007_F01.1_20210503

⚠ AVERTISSEMENT

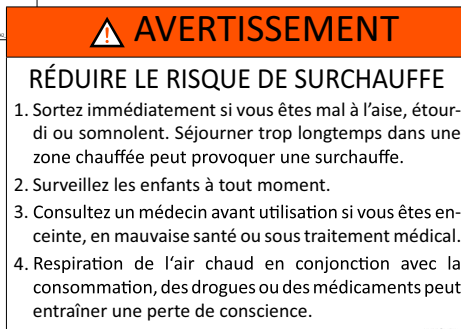
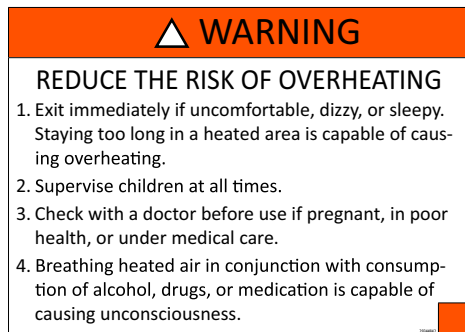
RÉDUIRE LE RISQUE DE ÉLECTROCUTION ET BRÛLURES

Ne pas utiliser l'appareil si la protection n'est pas en place.

2024001_F01.1_20210503

Cabin

Sauna visitor notices must be prominently displayed at eye level on the outside of the cabin.



1.4 Safety levels

Safety instructions and important operating instructions are classified according to ANSI Z535.6. Please familiarize 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.

1.5 Standards and regulations

For an overview of the standards that were observed during design and construction of the sauna heaters, please refer to the individual product's technical data sheet that can be downloaded from www.eos-sauna.com. Local regulations also apply to the installation and operation of heating, sauna, and steam room systems.

2 Identification

EOS Mythos S35/Mythos S45 is an electrically heated sauna heater for Finnish mode available in a variety of output capacities.

2.1 Requirements for operation

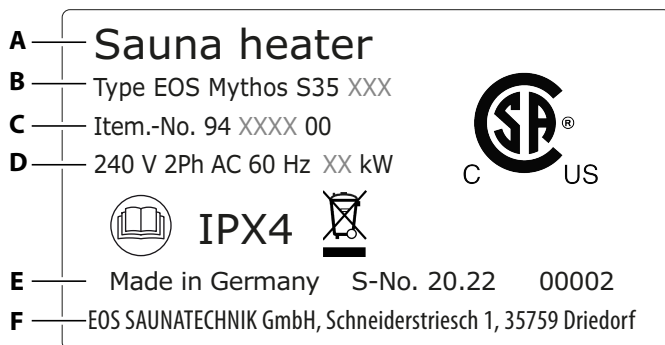
The heater must be operated with a control unit:

- EOS EmoTec D/H USA/CAN

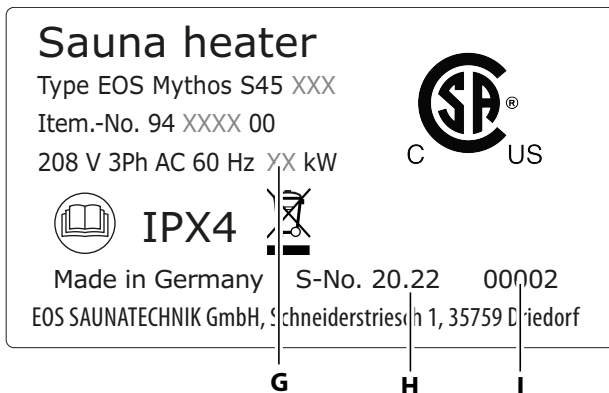
The control unit is not included in the scope of delivery.

2.2 Nameplate

Mythos S35



Mythos S45



- A** Name
- B** Model
- C** Item number
- D** Electrical connection
- E** Country of origin

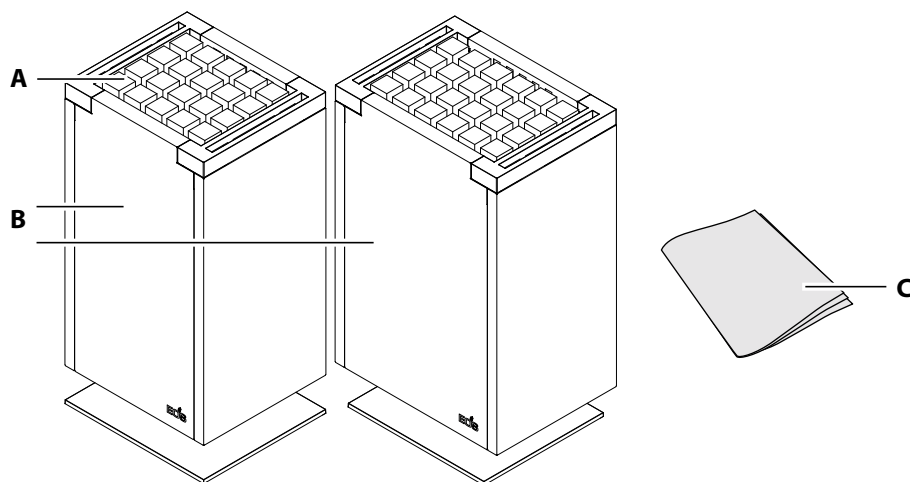
- F** Manufacturer
- G** Heater output
- H** Manufacturing date
- I** Serial number

Nameplate (examples)

2.3 Scope of delivery

Check the delivery to ensure that all components were delivered and that they are in proper working order. Contact your distributor if components are missing or damaged. The heater must not be operated if components are missing or damaged.

The following parts are included in the scope of delivery:



A Cubic stones

B Mythos sauna heater S35 or S45

C Installation and Operating Instructions

 Scope of delivery

Accessories (optional)

Accessories (optional)	Item number
EOS heater guard rail (to protect unit from being touched)*	94.6972
Cubic stones + frame S35	94.5520
Cubic stones + frame S45	94.5521
Stones – grain size 100-150 mm/4-6 in.	94.7340
Safety temperature limiter 160 °C/320 °F Use only original replacement parts.	Model: see component mounted in the device

* It is essential that the unit is protected from being touched.

2.4 Technical data

Electrical connection data

Heater type	Heater output	Connection voltage	Connecting cable control system	Connecting cable	Fuse
Mythos S35	7,5 kW	1 x 208 V 3 (L1, L2, L3)	1 x AWG 10	AWG 12	30 A
Mythos S35	9,0 kW	1 x 208 V 3 (L1, L2, L3)	1 x AWG 8	AWG 12	40* (35) A
Mythos S35	7,5 kW	3 x 240 V 2 (L1, L2)	6 x AWG 12	AWG 12	20 A
Mythos S35	9,0 kW	3 x 240 V 2 (L1, L2)	6 x AWG 12	AWG 12	20 A
Mythos S45	12 kW	2 x 208 V 3 (L1, L2, L3)	1 x AWG 8 1 x AWG 10	AWG 12	40* (35) A 30* (25) A
Mythos S45	15 kW	2 x 208 V 3 (L1, L2, L3)	1 x AWG 8 1 x AWF 10	AWG 12	40 A 30 A

Only use copper lines that are approved for temperatures of min. 90 °C.
When using 4 to 6-core cables, the type of AWG cable specified in the table increases by one unit.

Example: AWG 12 > AWG 10.

All line cross-section specifications are the minimum cross-sections for the copper line.

* Maximum dimensioning of the final fuses can be adjusted on site depending on the current load.

The following fuses are permitted:

- Class G, H, J, K
- Type S plug-in fuse
- Edison base

Heater

Heater type	Heater output	Unit dimensions HxWxD	Weight Without stones	Stone filling
Mythos S35	7.5 kW	84 x 42 x 37 cm	33.5 kg/74 lbs.	35 kg/77 lbs.
Mythos S35	9.0 kW	2.8 x 1.4 x 1.2 ft.		
Mythos S45	12 kW	84 x 50x 37 cm	39.5 kg/87 lbs.	45 kg/99 lbs.
Mythos S45	15 kW	2.8 x 1.6 x 1.2 ft.		

Cabin

Heater type	Heater output	Cabin – volume	Min. dimension – venti- lation
Mythos S35	7.5 kW	4.2-6.3 sq. m x 1.9 m 45.2-67.8 sq. ft. x 6.2 ft.	35 x 5 cm 1.2 x 0.2 ft.
Mythos S35	9.0 kW	4.7-7.4 sq. m x 1.90 m 50.5-79.7 sq. ft. x 6.2 ft.	35 x 6 cm 1.2 x 0.2 ft.
Mythos S45	12 kW	7.4-9.5 sq. m x 1.90 m 79.7-102.3 sq. ft. x 6.2 ft.	35 x 7 cm 1.2 x 0.3 ft.
Mythos S45	15 kW	9.5-13.2 sq. m x 1.9 m 102.3-142 sq. ft. x 6.2 ft.	35 x 9 cm 1.2 x 0.4 ft.

2.5 Intended use

This heater is intended solely for the purpose of heating sauna cabins, together with a suitable control unit.

EOS Mythos S35/Mythos S45 is suitable for private and commercial use.



Neither heater model is suitable for outdoor use. They may only be operated indoors in buildings. They 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.

Any use beyond this is considered improper use. Proper use also includes compliance with operating, maintenance and servicing requirements.

The manufacturer is not responsible for unauthorized modifications and damages resulting from these modifications; the person modifying the equipment alone shall bear the associated risk.

Foreseeable misuse

The following are considered instances of foreseeable misuse:

- The device does not contain a time-controlled circuit breaker. The control unit, which ensures an all-pole disconnection of the device, must control the heating period limitation according to the standard specification. It must not be possible to override this time limit.
- There is no heater guard rail (to protect unit from being touched) attached to the cabin. See 3.2 Heater guard rail,  EN-24.
- The cabin volume does not match the heater output.
- 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 by children or persons with reduced mental capacity or by persons who have not been thoroughly instructed in its use.

General instructions

- Please note that an optimal sauna climate can be achieved only if the cabin with its air inlets and outlets, the sauna heater, and the control unit are synchronized.
- Observe the specifications and information provided by your sauna retailer.
- The sauna heaters heat the sauna cabin with heated convection air. Fresh air is drawn in through the air inlet. It is warmed and rises (convection) and is then circulated in the cabin. Some of the used air is pushed out of the cabin through the cabin's air outlet. This creates a typical sauna climate in your sauna.

All temperatures that can be set via the control unit are tested according to UL875 or CSA C22.2#60335-1:2016Ed.2 and CAN/CSA E60335-2-53*AEI.

It must be noted that there is a temperature drop between the ceiling and the foot area inside the sauna cabin. The measured and set values are taken from the ceiling. Thermometers below the ceiling will therefore register lower temperatures. When the max. temperature is set for the area around the upper sauna bench, the bathing temperature is typically between 80 °C/176 °F and 90 °C/194 °F.

- The first time the cabin is heated, you may notice a slight odor resulting from the evaporation of consumables used in the manufacturing processes. Air out your cabin once it has been heated and before using the sauna.

3 Installation

Prior to installation, air inlets and outlets must be installed in the cabin. All protective films must be removed.

3.1 Specifications for the cabin

The cabin must be planned and installed according to specifications before the heater is installed. The minimum height of the sauna cabin must equal 1.90 m/6.2 ft. on the inside.

The floor on which the heater stands must be level.

In general, it should be noted that the sauna heater must not be set on a floor made of highly flammable material (laminated, flooring made of plastic material, etc.). Ceramic tiles are recommended as a flooring option.

Electrical lines

All electrical installations laid inside the cabin must be suitable for silicone cables and a temperature of at least 170 °C/338 °F. All lines must be routed in such a way that they are well-protected, e.g., in a cable duct.

If single-core lines are used as connecting cables, they must be protected by a flexible metal hose that is connected to the protective conductor.

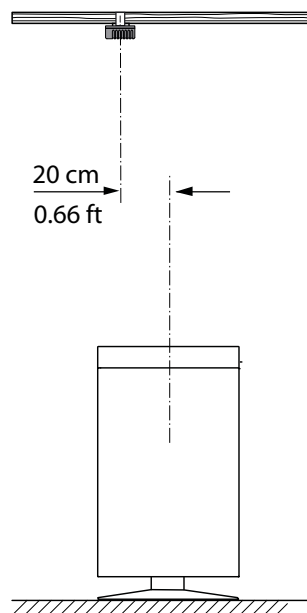
3.1.1 Installation site

The required cabin volume depends on the heater output. See 2.4 Technical data,  EN-17.

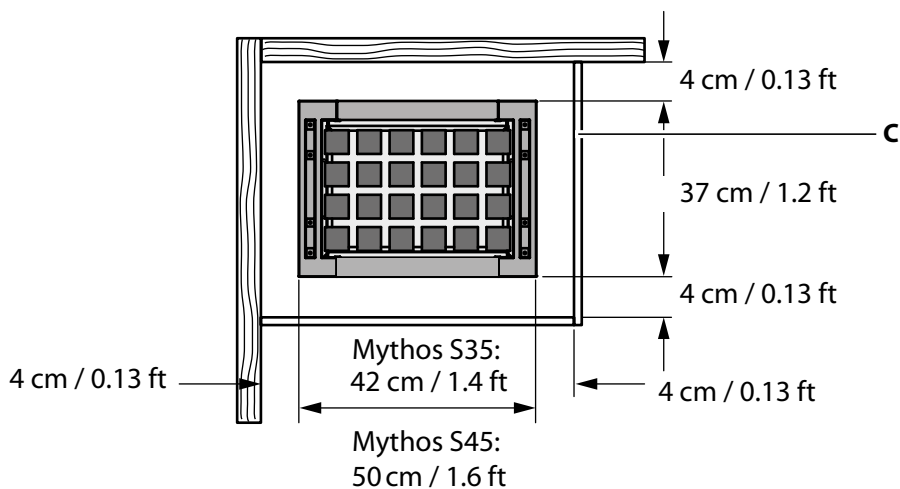
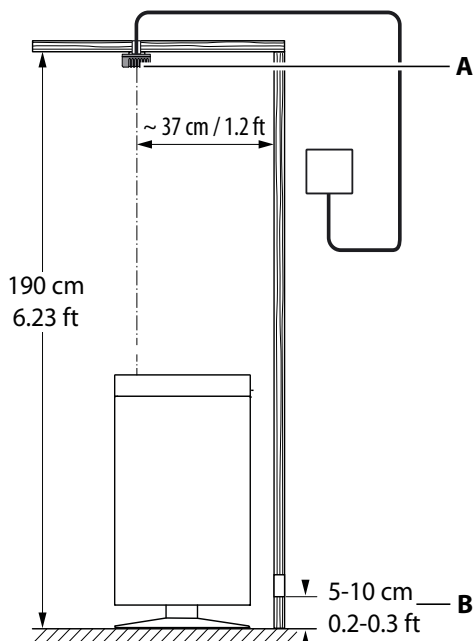
The clearance distances between the heater and flammable material (wood wall, sauna bench, etc.) must be observed as shown below.

Dimensions and clearance distances

Front view



Side view



- A** Temperature sensor with safety temperature limiter
- B** Air inlet
- C** Contact protection made of non-metallic material

3.1.2 Temperature sensor

It is essential that the temperature sensor with the safety temperature limiter (STB) is installed.

This temperature sensor must be installed where expected temperatures are the highest, meaning above the heater. See Dimensions and clearance distances, ▢ EN-22.

The temperature sensor with the safety temperature limiter is not included in the scope of delivery. See the separate installation instructions for information on installation of

EmoTec D/H USA/CAN.

Connect the sensor as shown in the circuit diagram for the respective control unit.

3.1.3 Air inlets and outlets

At least one air inlet must be installed in the cabin to ensure a sufficient air flow in the cabin and to prevent the heater from overheating.

The required size of the air inlet depends on the heater output; see 2.4 Technical data, ▢ EN-17.

WARNING

Fire hazard from overheating

The heater can overheat if the air supply is insufficient. There is a risk of death due to fire.

- ▶ Ensure that the air inlets and outlets provide sufficient ventilation. Install a fan if necessary.
- ▶ Commission the cabin only after all air inlets and outlets have been opened.

If the heating process takes a long time, the underlying reason is that the heater receives insufficient air. A minimum of 5 times the cabin volume of air per hour must be exchanged.

If, despite compliance with dimensions, there is still not enough fresh air to reach the heater, a fan must be installed at the opening outside of the cabin.

3.1.4 Connecting cables

The heater is connected to the sauna control unit via connecting cables. These temperature-resistant AWG cables are very pressure-sensitive and must be protected from damage during installation. To do this, route a cable duct or empty pipes from the installation site of the heater up to the relay box. The radius for laying the cables around a corner must equal a minimum of 100 mm/3.9 in. (R100).

See the connection diagrams in  Connections,  EN-30.

3.2 Heater guard rail

CAUTION

Risk of burns if heater is touched

The outer casing of the heater may become hot and, if touched, could cause burns.

- It is essential that a heater guard rail is installed so that the unit is protected from being touched.

You can purchase a suitable heater guard rail from the sauna heater manufacturer.

3.3 Installing the heater

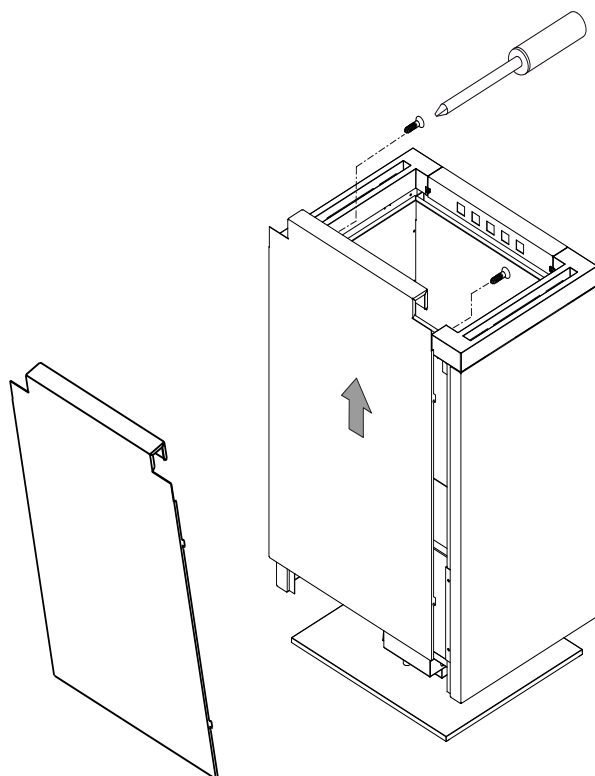
Once the cabin is prepared, the heater is placed on a pre-defined installation site. Two people should always transport the heater.

3.3.1 Mounting the heater

The terminal box with the connection terminals for the heating elements is located at the front of the heater.

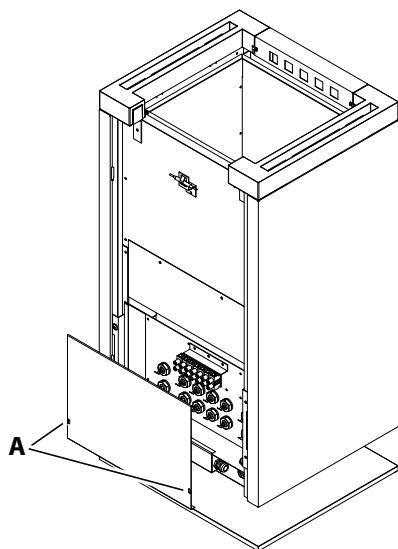
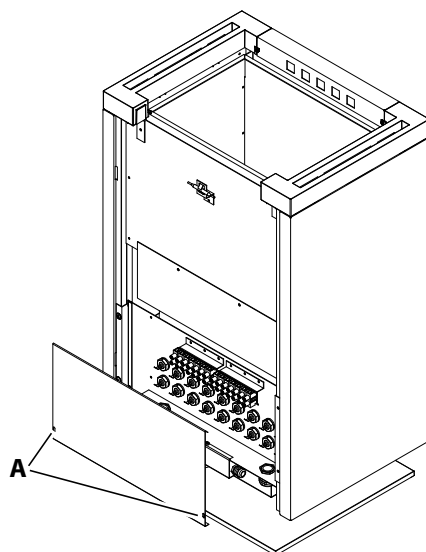
► Connecting the connecting cables to the heater

- 1 **CAUTION!** The heater weighs a minimum of 33.5 kg/73.9 lbs. Two people should always move the heater.
Loosen the transport box from around the heater and remove all transport locks.
- 2 Set up the heater in the cabin.
① Make sure that the removable front panel is facing forward.
- 3 Loosen the front panel's 2 screws on the inside at the top.



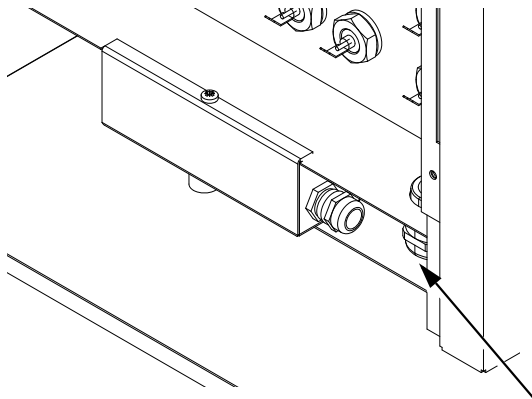
- 4 Carefully slide the front panel upwards and remove it from the brackets.

- 5 Loosen the 2 self-tapping screws (A) on the cover of the terminal box and remove the cover.

**Mythos S35****Mythos S45**

A 2 self-tapping screws on the cover

- 6 Pull the connecting lines through the cable feed openings.

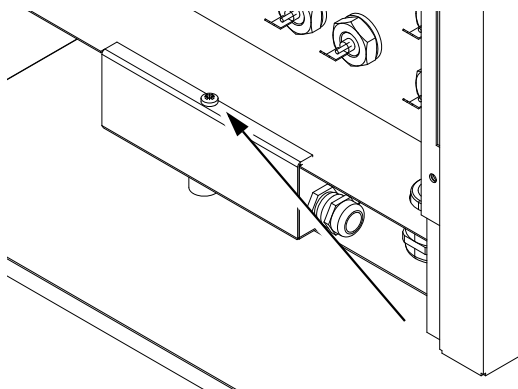


- 7 Connect the connecting lines for the heater according to the circuit diagram.

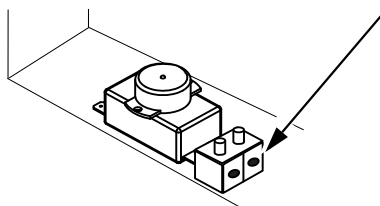
① A circuit diagram has been affixed and is visible near the connection terminal. See also 4.2 Connections,  EN-30.

- 8 Tighten all terminals properly.

- 9** Loosen the screw on the cover of the safety temperature limiter and remove the cover.



- 10** Connect the 2-core supply line of the safety temperature limiter to the two terminals.



- i** In the control unit, this (heater) safety temperature limiter must be connected in series with the safety temperature limiter on the cabin ceiling. For more information, see the installation instructions for the control unit.

- 11** Replace the STB cover and screw in the screws.
- 12** Replace the cover of the terminal box and fasten it with the 2 self-tapping screws.
- 13** Carefully hook the front panel into the brackets and push it down.
- 14** Screw in the 2 screws of the front panel on the inside at the top.
- 15** Position the heater.
- i** Leave enough cable in the sauna so that the heater can be moved from its spot for maintenance.
- 16** Guide the cable from the cabin to the control unit.

3.3.2 Filling rock stores with stones

The heater is designed for natural stones. Use only natural sauna stones of the prescribed grain size of approx. 100-150 mm/3.9-5.9 in. Stack natural stones piled loosely in the area of the rock store.

⚠ WARNING

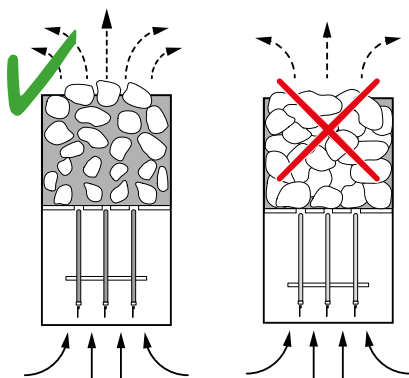
Fire hazard from overheating

Operating the heater without stones could cause fire or damage to the heater. Stones that are positioned too close together in the heater prevent hot air from being exhausted. This leads to overheating of the heater.

- ▶ Start the heater only if it has been filled with stones.
- ▶ Stack the stones loosely.

▶ Filling the rock store

- 1 Wash the sauna stones under running water.
- 2 **WARNING!** Stones stacked too densely will impede air flow. The heater may overheat.
Distribute stones loosely in the rock store.



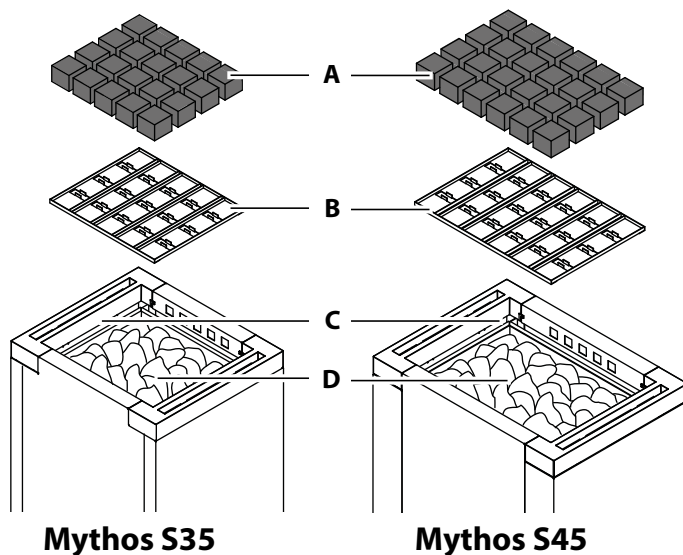
- ❶ Do not place the sauna stones on the edges. The air must flow freely.
- ❶ The sauna stones should be filled only to the upper edge of the inner rock store so that the cubic stones can be inserted correctly. See
▶ Inserting cubic stones, [EN-29](#)

3.3.3 Inserting cubic stones

The sauna stones must be in place before mounting the cubic stones. The stones may only be filled up to the upper edge of the inner rock store.

► Inserting cubic stones

- 1 Center the frame (B) in the rock store (C).



A Cubic stones

B Frame

 Mythos S35 – example

C Inner rock store

D Sauna stones

- ⓘ The frame must rest securely on the inner rock store. It must not rest on the sauna stones (D).

- 2 Insert all supplied cubic stones (A) in the frame.

3.4 Warning plates on the cabin

► Attaching warning signs

- 1 Attach warning signs to the outside of the cabin so that they are clearly visible at eye level.

- ⓘ See Cabin,  EN-13

4 Connections

4.1 General instructions for electrical installation

Ensure that electrical installation is performed in compliance with the standards and legal norms valid in your country.

If a residual current device (RCD) is installed, ensure that there are no units not belonging to the sauna system which are fused via this RCD.

If the sauna heater has not been used for an extended period of time, the heater may draw moisture from the ambient air, which, in rare cases, could lead to the RCD to be tripped. This is a physical process and not a fault on the part of the manufacturer.

In this case, the heater must be heated by a technician under supervision which will bypass the RCD function. Once the moisture has escaped from the heating elements after approx. 10 minutes, the RCD can be integrated again in the electric circuit.

If the sauna heater will not be used for an extended period of time, we recommend that you switch on the heater every 6 weeks so that the heating elements do not accumulate moisture. If, during commissioning, the RCD is triggered, the electrical installation must be checked again.

The electrician is responsible for properly connecting the heaters; thus, the manufacturer does not assume liability.

4.2 Connections

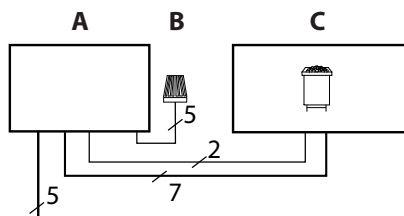
The sauna control unit and the heater must be connected as shown in the circuit diagrams.

Please observe the installation and operating instructions for the control unit as well as the sticker for the connection on the heater.

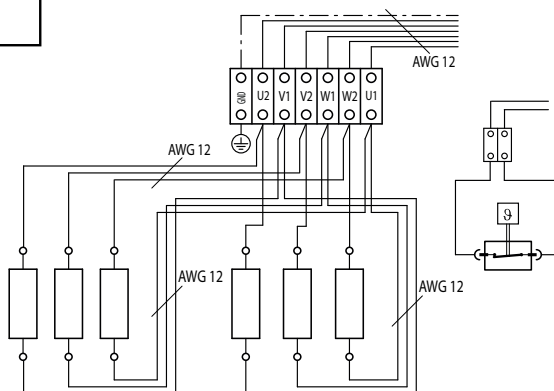
See also 2.4 Technical data, □ EN-17

4.2.1 Connection diagrams and internal wiring

7,5 - 9 kW | 208V

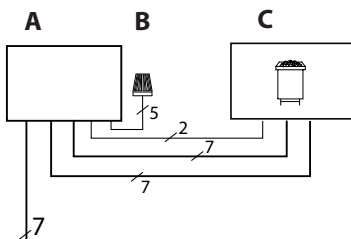
**D**

Connection diagram



Mythos S35 internal wiring single-circuit

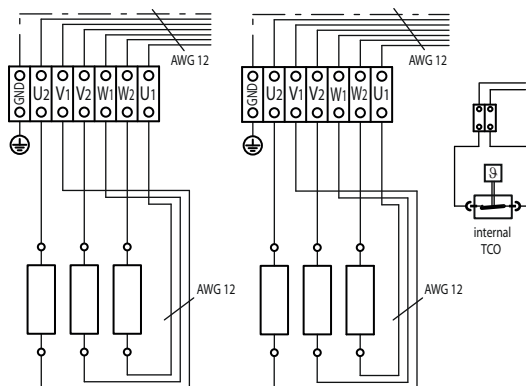
7,5 - 9 kW | 240V

**D**

Connection diagram

7,5 kW = 6x 1250 W

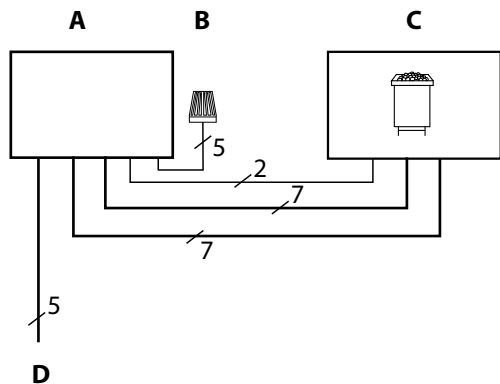
9,0 kW = 6x 1500 W



Mythos S35 internal wiring dual-circuit

- A** Control unit
- B** Safety temperature limiter
- C** Heater
- D** Power supply for control unit

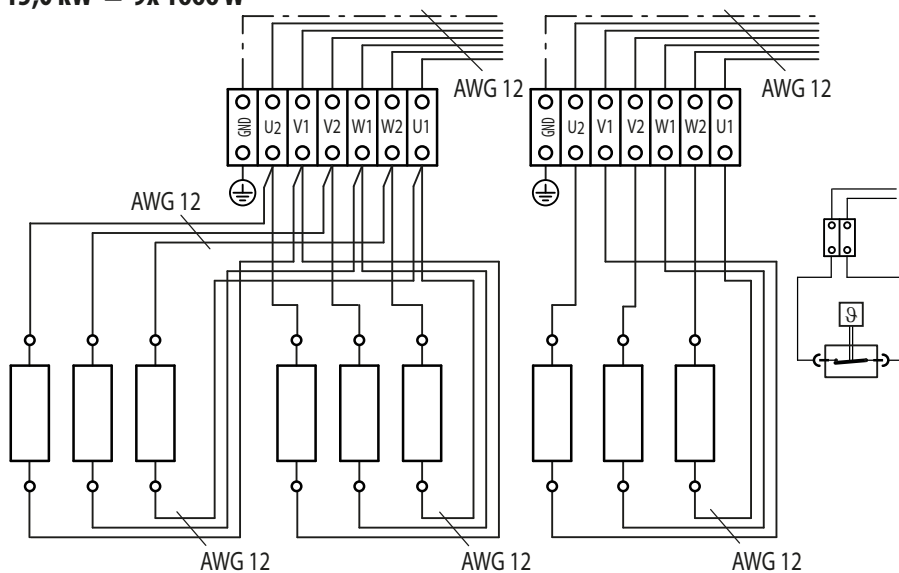
12-15 kW



- A** Control unit
B Safety temperature limiter
C Heater
D Power supply for control unit
- Connection diagram

12,0 kW = 9x 1333 W

15,0 kW = 9x 1666 W



Mythos S45 internal wiring

4.3 Establishing an electrical connection

The description below assumes all connection works on the heater have been completed (3.3.1 Mounting the heater,  EN-24).

► Connecting the connecting cable to the control unit

- 1 Guide the cable from the heater to the control unit.
 - ① Do not completely pull the connecting cable out of the cabin to allow removal of the terminal box for maintenance.
- 2 CAUTION! Ensure that the control unit has no power.
Connect the cable as described in the installation instructions for the relay box.

4.4 Heating period limitation

The control unit ensures that the heating period limitation is observed. Refer to the installation and operating instructions of the control unit.

5 Commissioning

The heater is switched on via the control unit. It is operated via the control panel.

WARNING



Risk of fire due to objects on the heater

Objects placed on the heater or protective grill could catch fire.

► Inspect the cabin prior to each use and ensure that no objects are placed on the heater.

WARNING

Risk of fire due to heating without stones

If the heater is operated without stones, there is a risk of flammable parts becoming overheated. There is a risk of death due to fire.

► Start the heater only if it has been filled with stones. See

► Filling the rock store,  EN-28.

5.1 Starting the heater

A slight odor may be produced the first time the cabin is heated because the heater is being heated for the first time. The odor ceases upon continued operation of the heater.

► Switching the system on

- 1 Switch the sauna control unit on.
 The heater is switched on via the control unit.
- 2 Use the control unit to select a suitable program.

5.2 Water splash

Before the first water splash can begin, the cabin must be sufficiently heated. The temperature in the cabin is controlled from the control unit via the temperature sensor. The control panel indicates when the desired temperature has been reached.

WARNING

Risk of fire due to sauna essences

Incorrectly diluted sauna essences, essential oils or herbs can catch fire.

- ▶ Never add more sauna essence or essential oils to the water than the amount indicated on the container.
- ▶ Do not add herbs to the water or the stones.
- ▶ Do not use pure sauna essences for water splashes.
- ▶ Do not use alcohol for water splashes.
- ▶ Pour the water over the stones only.

Pour the water slowly and evenly over the stones or over the cubic stones. Due to the relatively smooth surface of the cubic stones, the water runs quickly over the frame onto the stones below. As the hot air rises, steam is distributed evenly in the cabin to create a pleasant infusion experience. Please note that the sauna stones must be reheated after each water splash to generate an intense burst of steam.

Recommendation: During a water splash, no more than approx. 10 cl/ 0.4 cups of water per m³ cabin volume should be vaporized. After each water splash event, wait approx. 10 minutes before starting the next one. This time is needed for the sauna stones to reheat.

6 Maintenance

This sauna heater is made of low-corrosion material. To ensure a long service life, take care of and perform regular maintenance on your sauna heater. Ensure that openings in the intake area and heat reflectors are never blocked. These can easily become blocked with lint and dust as fresh air is drawn in. This limits the air convection ability of the sauna heater and could lead to impermissible temperatures. Clean and/or descale the units as needed. Contact your sauna retailer or the manufacturer directly if you notice malfunctions or signs of wear and tear. If you do not use your sauna for a longer period of time, ensure that at the time of recommissioning no towels, cleaners or other objects are lying on the sauna heater or vaporizer.

6.1 Cleaning

The heater must be cleaned regularly. The cleaning frequency depends on how often it is used.

CAUTION

Risk of injury from sharp edges

- Use suitable personal protective equipment, e.g., gloves, when cleaning parts with sharp edges.

Clean the heater only with household cleaners.

6.2 Sauna stones

Sauna stones are a product of nature. Sauna stones must be replenished or reshuffled depending on the intensity of use. The process of heating and cooling can make the stones brittle and small particles can break free from the stones. The gaps between the stones also become smaller which means that hot air can no longer rise between the stones.

Check the sauna stones at least once per year and replace any defective stones.

Use only natural sauna stones when you refill the rock store. Due to their roughness, they produce a better water splash effect than ceramic sauna stones.

Consistently check the cubic stones for integrity and replace them with new stones as needed.

► Reshuffling the sauna stones

- 1 **CAUTION!** Caution: stones may be hot. Allow the heater to cool sufficiently before replacing the stones.
If necessary, remove cubic stones and frame.
❗ 3.3 Installing the heater, 📄 EN-24
- 2 Remove each stone individually.
- 3 Check each stone for damage.
❗ Remove the stone if damaged and replace it with a new one.
- 4 Rinse all stones with cold water.
- 5 Stack the stones loosely so that there is enough space between them for air to circulate sufficiently.
❗ The stones must not exert excessive pressure on the heating elements.

6.3 Replacing the heating elements

The heating elements can be replaced individually. To remove the heating elements, the terminal box must be accessible. The cubic stones and other stones must also be removed.

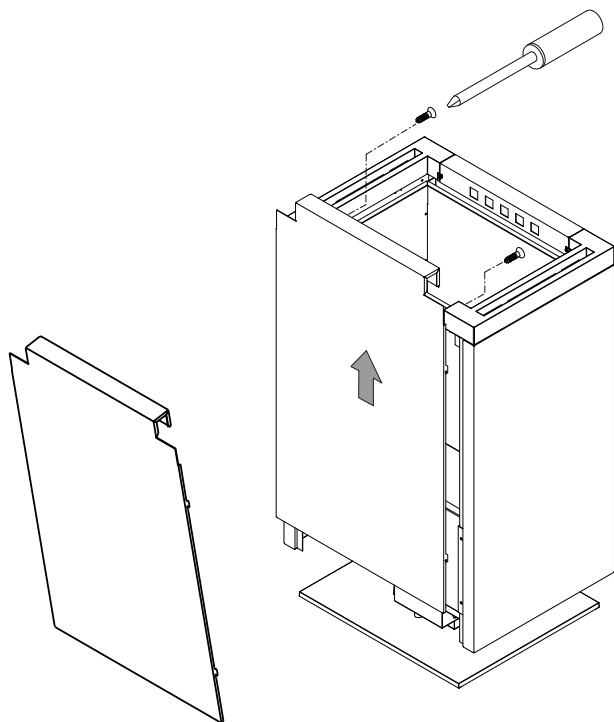
Hardware and tools:

- Heating elements and/or heating coil
- Screwdriver
- Hex key
- Ring or socket spanner

► Preparing the heater

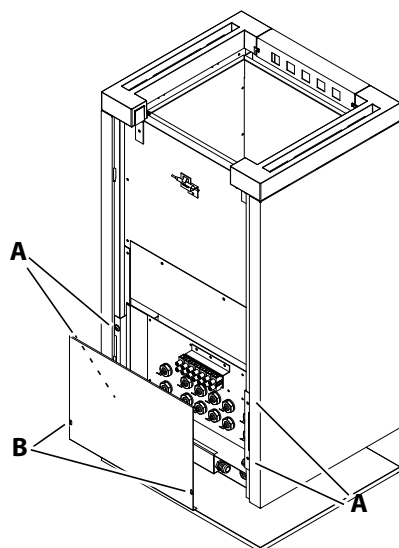
- 1 **WARNING!** Electric shock may occur if the heating coil is serviced while the heater is connected to the power supply.
Ensure that the heater has been disconnected from all power supply lines.
 - a) Switch off the heater.
 - b) Switch off the fuses to disconnect the heater from the mains supply.
- 2 **CAUTION!** Allow the heater to cool sufficiently before it is serviced.
If necessary, remove cubic stones and frame.
① See 3.3 Installing the heater,  EN-24
- 3 Remove the stones.

- 4** Loosen the front panel's 2 screws on the inside at the top.

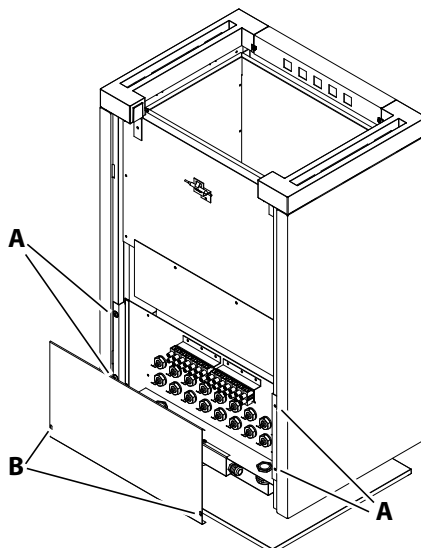


- 5** Carefully lift the front panel upwards and off.

- 6 Loosen the 2 self-tapping screws (**B**) on the cover of the terminal box and remove the cover.



Mythos S35



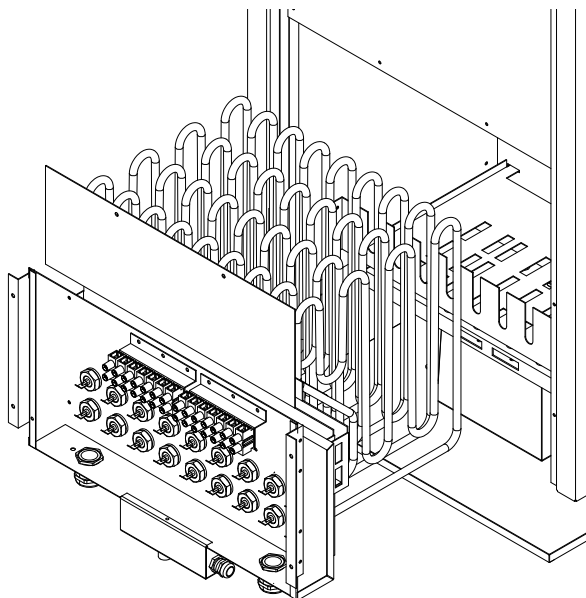
Mythos S45

A 4 screws on the terminal box

B 2 screws on the cover

- 7 Loosen the 4 self-tapping screws (**A**) on the terminal box.

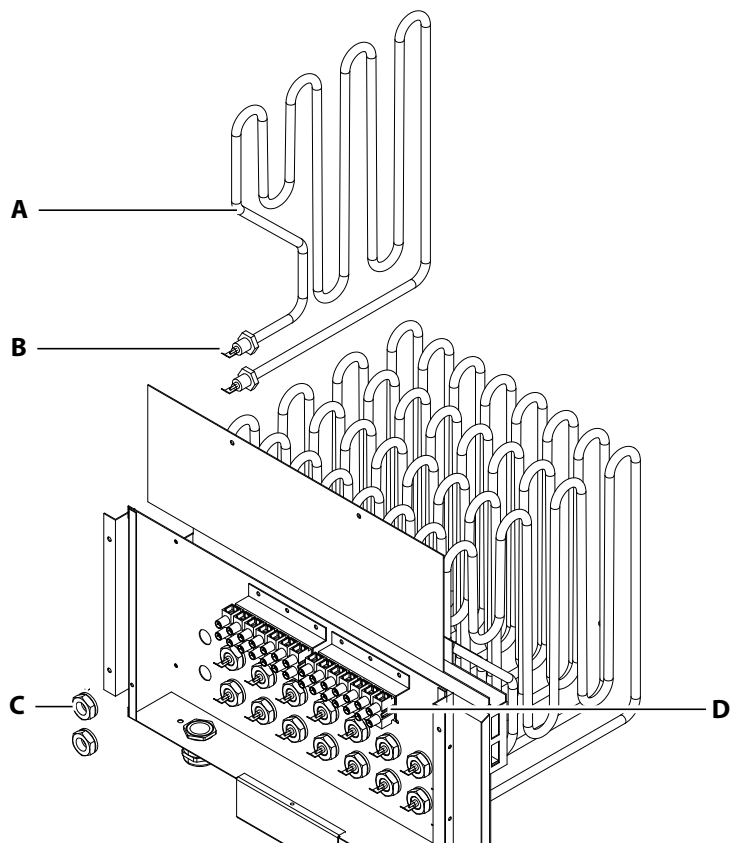
- 8** Pull out the entire terminal box.



 Terminal box and heating coil – example Mythos S45

► Replacing the heating element

- 1 Identify the defective heating element by taking measurements.
- 2 Remove both flat plugs from the defective heating element.



A Heating element

B Flat pins

C Fixing nut

D Connection terminals

 Mythos S45 – example

- 3 Loosen the 2 fixing nuts (**C**) and lock washers of the defective heating element.
- 4 Press the heating element slightly inwards and remove it upwards.
- 5 Insert the new heating element.

- 6 Fasten the heating element with the lock washers and fixing nuts.
 - ① Make sure that the heating element is installed vertically.
- 7 Attach the flat plug.
 - ① Check the wiring of all heating elements before closing the terminal box again and positioning the heater.

► **Reassembling the heater**

- 1 Reposition the heating coil in the heater and fasten it with 4 self-tapping screws.
 - ① Check that all lines are securely connected.
- 2 Replace the cover of the terminal box and fasten it with the 2 self-tapping screws.
- 3 Place the heater in its original position.
- 4 Carefully hook the front panel into the brackets and push it down.
- 5 Screw in the 2 screws of the front panel on the inside at the top.
- 6 Insert the stones and, if necessary, replace the frame and cubic stones.
- 7 Switch on the heater fuses.

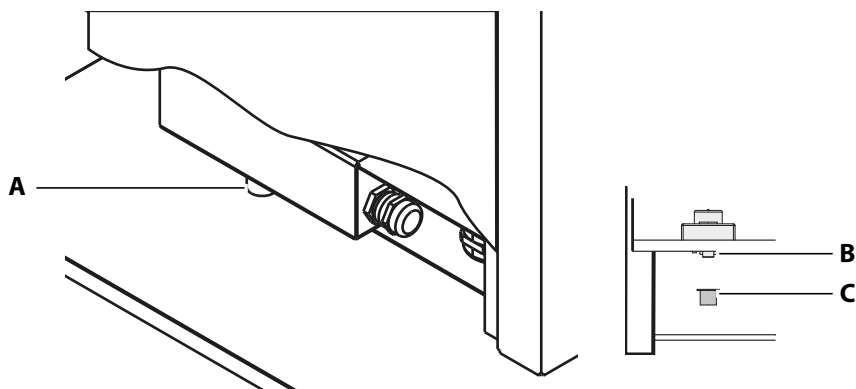
6.4 Resetting the safety temperature limiter

The heater has its own safety temperature limiter that prevents the heater from overheating.

It monitors only the temperature of the heater. Overheating of the cabin is monitored by the STB in the temperature sensor.

► Resetting the safety temperature limiter

- 1 **CAUTION!** Allow the heater to cool sufficiently before it is serviced.
Use a screwdriver or a coin to unscrew the protective cap (**C**).
① The safety temperature limiter is located below the terminal box and is accessible from the outside.



A Safety temperature limiter

B Reset pin

C Protective cap

- 2 Press in the pin (**B**) of the safety temperature limiter until it audibly engages.
① If the pin does not engage, the heater has not yet cooled down.
- 3 Replace the black cap and tighten it.
- 4 Switch on the heater via the control unit.

6.5 Troubleshooting

Error	Reason	Solution
It takes the heater a long time to heat up the cabin.	One or more than one heating element is defective.	Have a technician replace the tubular heating element.
	There is not enough space between the stones.	Reshuffle the stones. See ► Reshuffling the sauna stones, EN-37
	There is insufficient ventilation.	Install the air inlets. If these are insufficient, add a fan to the openings. See 3.1.3 Air inlets and outlets, EN-23
	The electrical connection is defective.	Check the installation fuses.
		Have the control unit's outputs checked by a technician.
The heater is very hot but cannot distribute the heat throughout the cabin.	The position of the temperature sensor is not optimal.	Check the position of the temperature sensor and adjust as needed. See 3.1.2 Temperature sensor, EN-23
	There is not enough space between the stones.	Reshuffle the stones. See ► Reshuffling the sauna stones, EN-37

Error	Reason	Solution
The safety temperature limiter was triggered and the heater no longer heats.	The safety temperature limiter was triggered by heat accumulation.	Check the inlets, outlets, and the fan and ensure that the heater has access to a sufficient amount of air. Reset the safety temperature limiter. See ► Resetting the safety temperature limiter,  EN-44
	The position of the temperature sensor in the cabin is not optimal.	Check the position of the temperature sensor and adjust as needed. See 3.1.2 Temperature sensor,  EN-23.

7 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 recognize 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 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 postal service. 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 unauthorized 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 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.
- 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.

8 Disposal

Observe the national and local regulations for the disposal of recyclable materials.

Packaging

The packaging of the sauna heater can be completely separated for disposal and recycled. The following materials are used in the packaging:

- Used paper, cardboard
- Plastic foil

Electronic waste

Electronic waste should be disposed of at a designated local collection point for electronic waste.



Service address

EOS Saunatechnik GmbH

Schneiderstriesch 1

35759 Driedorf, Germany

Tel. +49 2775 82-514

Fax +49 2775 82-431

Email service@eos-sauna.com

Web www.eos-sauna.com

Store this address with the installation and 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: