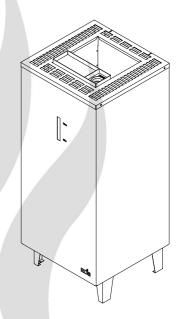


# **Bi-O Cubo**



**EN** Installlation and operating instruction

**Made in Germany** 





# **English**

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#### Dear customer

You have purchased a high-quality technical device with which you will have years of sauna fun. This sauna heater was designed and inspected according to the current European safety standards and manufactured at the factory in accordance with the quality management standard DIN EN ISO 9001:2008.

This detailed installation and operation manual has been prepared for your information. Please observe in particular the **important notes** and the information on electrical connection.

We wish you exhilarating recreational experience and lots of fun with your sauna!

### Intended use

This sauna heater is exclusively intended for the heating of sauna cabins in combination with an appropriate control unit.

Any other use over and above the intended purpose is not considered as appropriate use! Compliance of the standard operation, maintenance and repair conditions is also an element of appropriate use.

The manufacturer cannot be held liable for deviating, unauthorized alterations and any resulting damages: the initiator of these changes bears the full risk.

#### **General information**

Please check whether the unit has arrived in perfect condition. Any transport damages should be immediately reported to the freight forwarder delivering the goods or you should contact the company that shipped the goods.

Please note that you will only be able to achieve an optimum sauna climate if the cabin with its air intake and ventilation, the sauna heater and the control unit are aligned to each other.

Please observe the information and stipulations made by your sauna supplier.

Sauna heaters heat up your sauna cabin using heated convective air. Here, fresh air is drawn in from the air intake which, when heated, rises upwards (convection) and is then circulated within the cabin. Part of the used air is pushed out through the vent in the cabin. This creates a typical sauna climate which can achieve temperatures of approx. 110°C measured directly under the ceiling of your sauna, dropping in temperature to approx. 30-40°C towards the floor. It is therefore not unusual to measure temperatures of 110°C on the temperature sensor hanging over the heater, whilst the thermometer hanging on the sauna wall, approx. 20-25 cm under the cabin ceiling, only indicates 85°C. The bathing temperature generally lies between 80°C and 90°C in the area of the upper bench when the temperature is set to maximum.

Please note that the highest temperatures are always generated over the sauna heater and that the temperature sensor and the safety limiter must be mounted there in accordance with the control unit installation instructions.

When heating up for the first time, you may notice a slight smell caused by evaporating lubricants used in production processes. Please ventilate your cabin before beginning your sauna bath.

# **Important notes**

- Unprofessional installation may cause a fire hazard! Please read these installation instructions carefully. In particular, please observe the dimensions stated and the following notes.
- This device can be used by children aged 8 upwards and by persons with physical, sensory, or mental disabilities, or who have inadequate experience and knowledge if they are supervised or if they have received adequate instruction in how to use the device safely and understand the associated risks. Children may not play with this device. Children may not clean or carry out any user maintenance if unsupervised.
- Children should be supervised to make sure that they will not play with the unit.
- Only specialists may install and connect the sauna heater, control unit and other electrical equipment with a fixed mains connection. The necessary protective measures according to VDE 0100 of § 49 DA/6 and VDE 0100 part 703/2006-2 must be observed.
- Sauna heater and controller may only be used in sauna cabins made of suitable, low-resin, untreated materials (e.g. spruce).
- Only a sauna heater with the appropriate power output may be installed in the sauna cabin.

- Please provide air intake and vent openings in each sauna cabin. The air intakes must always be positioned behind the sauna heater, approx. 5 to 10 cm above the floor. The minimum dimensions of the air intake and vent openings are stated in the table.
- The duct vents are always to be positioned offset diagonally to the sauna heater in the lower area of the rear sauna wall. The air intake and vents may not be covered. Please observe the sauna cabin supplier's instructions.
- Only the control units specified herein must be used for the operation of the sauna heater. This control unit must be positioned at an appropriate point on the cabin outer wall; the associated sensor must be positioned inside the sauna cabin according to the installation instructions included with the control unit.
- Caution: Covering the heater or an incorrectly filled stone container represent a fire hazard.
- Every time before the sauna is used, ensure that no objects have been left lying on the sauna heater.
- Caution: The high sauna heater temperatures generated during operation can cause burns.
- · The sauna heater is not intended for in-



- stallation or set-up in a niche, under a bench or under a sloping roof.
- Do not put the sauna heater into operation when the air intake is closed.
- The cabin lighting and the corresponding installation must correspond with the "splash protected" version in accordance with DIN EN VDE 0100 T 703. Therefore, only VDE-tested sauna light with max. 40 Watt may be installed in connection with the sauna heater.
- Only a locally certified electrician may connect the sauna facility (sauna heater, control unit, lighting etc.) to a fixed mains connection.
- All electrical installations and all connection lines that are installed inside the cabin must be suitable for an ambient temperature of at least 170 °C. If single-wire cables are used as connection lines, they must be protected using a flexible metal tube connected to the equipment grounding conductor. Please see the table for the minimum cross-section of the connection cable and the suitable cabin size in relation to the power input in kW.
- When installing the sauna heater, please ensure that the vertical clearance between the sauna heater upper edge and the sauna ceiling is maintained. Please see also the dimensions diagram for the clearance between the lower edge of the

- sauna heater and the floor. On heaters with bases, this clearance is maintained via the base or legs of the device.
- Please always ensure that the sauna heater is never placed on flooring made of flammable material (wood, plastic flooring etc). Ceramic tiles are recommended as floor materials.
- Floor heating in the sauna cabin increases the surface temperature of the flooring.
- Please see the dimensions information for the respective sauna heater for the clearance between the heater protective grating or the bench and other flammable materials. The heater protective grating must roughly accord with the front height of the sauna heater.
- Please also observe the information and instructions provided by the cabin manufacturer.
- Please take precautions when cleaning components with sharp edges.
- Upright heaters need to be fitted on site with elements that prevent them from overturning.
- Attention: Pour the infusion water only on the sauna rocks and never anywhere else.
- When using your sauna in a dry Finnish mode never add sauna essences or

place any herbs into the vaporizer holder for essences/herbs. **Fire hazard!** 

Never add more essences or volatile oils than advised on the packaging.

Never use alcohol or undiluted concentrates. Caution! Fire hazard!

When designing the cabin ensure that the external exposed glass surfaces only reach a maximum temperature of 76°C. If necessary, protective features need to be fitted.

#### **Electrical connection**

Using the above-mentioned wiring diagram and the information on the wiring circuit adhered to the respective control system, your electrician will be able to connect the system without further instructions.

Please note that, for safety reasons, power cables may not be laid visibly on the interior walls of the cabin. Most sauna cabins have empty ducts fitted into the wall element with the air intake.

If no empty ducts are available in your cabin, drill a sufficiently sized hole in the cabin wall directly next to the place where the cable exits the sauna heater and guide this cable outside through the hole to the control unit. The cable, and all other connecting cables (mains power cables and cabin lighting), should be installed in installation ducts or also be protected against damage on the outside of the cabin e.g. by laying them in installation pipes or attaching wood cover strips.

The sauna heater, if used in commercial/public facilities and equipped with remote control\*, may be used only in combination with the appropriate cover protection system or S-Guard system.

\*Remote control – means settings, switching, control and adjustment of the sauna control unit by means of commands transmitted from a remote location beyond sight distance using telecommunication, wire- or wireless signal transmission systems, network and similar systems.

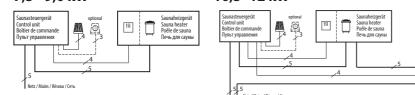
### Caution!

Dear Customer,

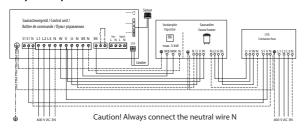
In compliance with the valid regulations, only certified electricians may connect the sauna heater and the sauna control system to the mains power supply. Please note that you must provide a copy of the invoice from the electrical company who installed the sauna in case of a warranty claim.

# Connection example of a sauna system with Bi-O Cubo





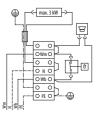
# 10,5 -12,0 kW



# Vaporizer

Leistungsschaltgerät Power extension unit Extension de puissance Блок расширения мощ

LSG



#### 7.5 kW 7.5 kW

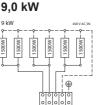
1500W

1500W

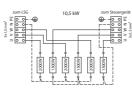
**(4)** 



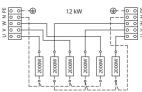
UVWNP



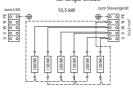
10,5 kW Connection factory-provided



12,0 kW



10,5 kW Connection example for single circuit



Redistribution routing on single-circuit variant possible, by using a control device with approval for a power of 10,5 kW for phase load 16 A.

#### **Technical data**

Power acc. DIN	Evaporator power Volumen	Installation dimensions H/B/T in cm	for cabin volumes	Minimum dimension for ventilation and bleeding	Weight without stones and packaging	Stone filling	Electr. connection	Power contorl unit repuired	Protection control device in A	Protection power control unit in A		Connection mains power control unit	control unit - heater	Connection control device power control unit	contol unit	to be used with the control units
7,5 kW	2,0 kW 71 95 / 40 / 3,0 kW 71		7 - 10 m³	35 x 5 cm			3N AC	nein	3 x 16				5 x 1,5			Econ H1, H2, H3, H4 EMOTEC H EmoTouch II +
9,0 kW			9 - 14 m³	35 x 6 cm												
10,5 kW			11 - 15 m³	35 x 6 cm	33 kg	25 kg	50 Hz 400 V	ECON L09 EMOTEC L09		3×16	5 x 2,5	525	& 4x1,5	4 x 1,5	5 x 1,5	
12 kW			14 - 18 m³	35 x 7 cm								3 x 2,5				

All information on cable cross-sections are minimum cross-sections in mm<sup>2</sup> copper line.

Discharge current: max. 0,75 mA per kW heating capacity

Sauna oven for use in family sauna

# **Assembly**

# Scope of delivery

The following are included in the scope of delivery:

- 1 Sauna heater
- 1 Evaporator cover with herb bowl and filter insert
- 1 safety bracket with 2 corrugated-head screws
- · 1 enclosed floor equalisation profile set
- 1 set of sauna rocks

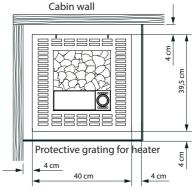
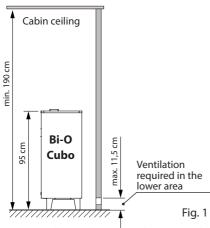


Fig. 2

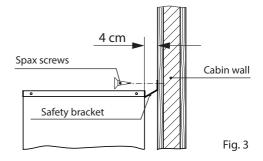
- The distance from the heater grid and the bench to other inflammable materials near the heater must be at least 4 cm. The heater grid must be more or less the same height as the front of the heater.
- Complete the connections as shown in the circuit plan. A circuit diagram is attached in the mains connection area.
- Connect the unit to the control unit.
   Make certain that you have complied with the local electricity board and the VDE recommendations.
- Place the lid on the connection box. Use 4 metal screws for this.

#### Minimum clearances

 The minimum interior height of the sauna cabin is 1.90 m (Fig 1).



 When assembling the sauna heater, make sure that the horizontal (side) clearance between the heater and cabin wall is at least 4 cm (fig. 2). Push the safety bracket under the heater cover in the middle of the reverse side and affix to the cabin wall using the two spax screws (see fig. 3)



# Finnish (dry) sauna mode

The evaporator is not in use in this mode. It is essential to ensure that no herbs or essences remain in the herbs tray, as these could ignite due to overheating. Add essences or infusion substances to the infusion water only in accordance with the manufacturer's specifications.

In the case of infusion at the end of a sauna session, for a proper infusion effect, do not pour the water from the ladle over the stones too quickly but allow it to evaporate.

Never add more sauna essenses or additives to the infusion water than indicated on the pack. Never use alcohol or undiluted infusions. Danger! There is a risk of fire.

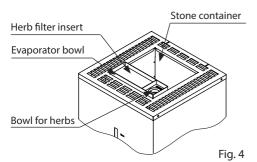
Attention: Always pour the water over the stones and not over other parts of the heater.

By using a dry "Finnish" sauna never put herbs or any additives into the vaporizer essence holder. **Risk of fire!** 

# Humid sauna operation only by models with vaporizer

# Filling the vaporizer with water

Remove the evaporator bowl to fill the evaporator manually.



#### Attention!

The evaporator bowl will become hot when the sauna is on. Therefore, never touch the bowl when the sauna is on or shortly afterwards, or use an appropriate tool.

#### Risk of burning!

Never place dry herbs or tea bags into the accessories

#### Risk of fire!

Always keep all parts placed inside the pan (e.g. sliced lemons) moist; refill with water regularly.

Clean the filter insert regularly to prevent corrosion.

When filling with water, always use a suitable vessel, e.g. a measuring cup etc.

#### Risk of scalding!

### De-scaling of the vaporizer

The water outlet is found under the drainage faucet.

Place an appropriate container beneath the heater before opening the bleeder.



# **Operation with vaporizer**

(only for Bi-O / Vapor heaters)

Please clean the vaporizer in advance before the first use.

All parts and joints in contact with water should be inspected regularly for defect in liquid tightness during servicing and maintenance.

The control of the vaporizer is managed by the control unit. The humidity level is controlled either proportionally (time basis) or in the case a humidity sensor is connected it is controlled basing on the relative humidity value.

Please note that the relative humidity varies greatly due to the varying temperature distribution in the cabin. The readings of the hygrometer and the readings at the control unit can for that reason be very different.

Make sure that sufficient water is in the water tank of the vaporizer before use.

Please fill the vaporizer tank up to a max of four centimeters below the upper edge respectively until the marking "MAX" on the display panel.

Never add essences, oils or herbs directly to the water tank; instead add these to the herbal bowl on the holder of the vaporizer.

The volatile oils released from essences are carried with the hot rising steam and will be distributed throughout the cabin.

In the case of the low water level in the water tank during operation a buzzing signal indicates the water shortage. To continue your sauna session, you have to refill the tank after a 5 minutes stop of the sauna control or after switching to Finnish (dry) sauna for 5 minutes.

The heating element in the vaporizer must cool down for 5 minutes before cold water is refilled.

Never pour water on the glowing heating elements. Besides of the danger of scald, the heating elment could be damaged. Fill in the water up to the upper water level marking.

Add herbs and essences to the herbal bowl only. Do not pour essences into the vaporizer tank!

By adding essences or any other additives for air humidity, a health hazard cannot be removed. It is advised not to use those additives apart from the recommended ones by the manufacturer of the oven.

If additives are put in the water, this generally leads to a foaming of the water. In this case the water must be drained and the interior of the cold reservoir washed out with a cloth soaked in alcohol or mineral spirits. Even small remainders of essences in the vaporizer will change the natural molecular structure of the water.

Attention: Risk of scalding at the steam outlet. Essences and herbs are to be placed in the herb dish only.

Caution by control units with after-heating mode! Never leave herbal bags in the herbal bowl during the after-heating mode after a humid (steam) operation. These may dry out rapidly in this case and a present a fire hazard! For fire safety reasons only herbs in perforated aluminium bags may be used.



# De-scaling of the vaporizer

Consult your water company to determine the hardness level of your water. In areas with hardness level 1 (0-8,4° German hardness levels - soft water), the system generally works without special precautions and must be de-scaled only occasionally when necessary.

Should your water lie within the hardness levels 2-3 (hard water), the vaporizer must be de-scaled regulary (in accordance with the hardness level). Control the vaporizer on regular basis!

To descale the vaporizer add the de-scaling liquid (descalers for household appliances are generally suitable), which is suitable for aluminium, to the water in the vaporizer in accordance with manufacturer's instructions. Bring the water and de-scaling product mixture to a boil for about 10 minutes and allow to cool. After cooling, drain the mixture from the vaporizer and rinse at least twice with clear water. Note also the instructions given by the de-scaling product manufacturer.



# ATTENTION

Please make sure to disconnect the power supply completely by all servicing and maintenance works, by replacement of parts and accessories and by troubleshooting of any operation faults.

# The optional fixed water connection

Using this fixed water connection provides you with a permanent supply of water.

### Important notes:

The regulations of EN 1717 or DIN 1988 part 4 must be observed. Suitable measures must be taken to avoid water flowing back into the drinking water mains. Pipe dividers or system dividers are suitable for this. Ask your drinking water supplier or a specialist sanitary dealer.

Fixed water connection for subsequent mounting on sauna heaters with vaporisers for automatic filling of the vaporiser from the water mains.

Hose connection: 3/4" thread

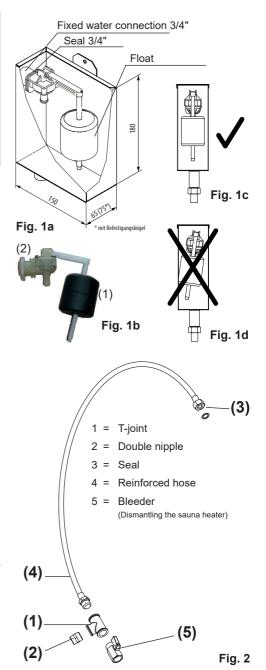
The float (1) opens or closes the valve (2) to ensure that the tank remains full.

The water level can be regulated by turning the float.

Connection between fixed water connection and vaporiser with steel-flex hose.

# **Assembly**

- Use commercially-available Teflon sealing tape to seal all screw connections.
- Remove the bleeder on the sauna heater.
- Screw in the 1/2" double nipple into the side outlet of the T-joint.
- Now screw the other side of the 1/2" double nipple to the T-joint at the point on the heater where the bleeder was previously mounted.
- Now screw the bleeder into the front outlet of the T-joint. Seal the bleeder with sealing tape again first. By turning the T-joint you can vary the tilt angle slightly to drain the water.
- Screw in the included reinforced hose to the rear outlet of the T-joint.



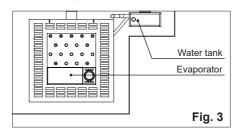
# Assembly of the water tank near the oven

Initially select a fixing option according to (Fig. 3 - Fig. 5)

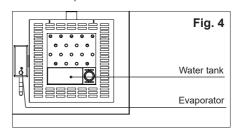
This applies to the sauna ovens Type Bi-O Cubo.

- Drill the fixing holes Ø 3.4 mm according to the sizes in fig. 6
- Screw the water tank onto the rear wall using the 2 4.2x 9.5 self-tapping screws provided.
- Now install the float valve into the tank.
   Ensure that the float makes a vertical movement and does not contact the tank wall.
- Make the connection between the water tank and vaporiser according to fig. 2 and fig. 6.
- There is a 3/4" thread on the float valve output From here you can now connect your supply line individually to the fixed water connection.

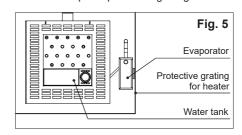
Attachment option: wall



Attachment option: heater



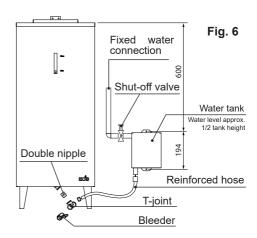
Attachment option: protective grating



# Please observe:

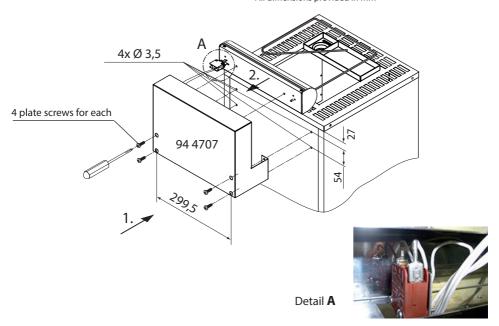
A shut-off valve must be installed between the mains and the fixed water connection. If the fixed water connection is not used for a longer period of time, the shut-off valve should be closed.

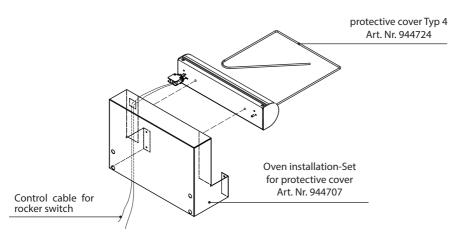
Caution: operating pressure 3 - max. 10 bar.



# Assembly of the protective cover on the sauna heater

All plate screws for suspension of the heater protector. All metric screws: for mounting the rocker switch All dimensions provided in mm





Lay the control cable for the rocker switch and heater supply with a minimum clearance of 30 mm.

#### Sauna rocks

Sauna stones are a natural product. Check the sauna stones at regular intervals. Aggressive sauna essensces can weaken the sauna stones and cause them to break apart over time. Consult your sauna supplier if necessary.

Rinse the sauna stones provided under running water and then place them in the **stone compartment** so that the convection air flow can circulate easily between the stones (Illust. 9 + 10).

The quantity of stones is sufficient to create a steam shock, vaporizing about 10 cl of water per m³ cabin volume. Always wait 10 minutes after infusion before repeating the infusion. Only then the sauna stones will re-heat sufficiently again.

Never add more essences or volatile oils than advised on the packaging. Never use alcohol or undiluted concentrates. Caution! **Fire hazard!** 

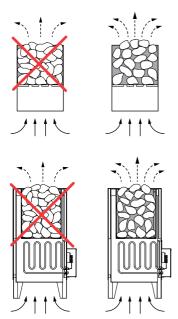
#### Maintenance and care

All sauna heating units are made of low-corrosion material. To enjoy your sauna heating unit for a long time you should ensure maintainance and take due care about the heater. Always make sure that the air supply vents and reflection surfaces in the area of air intake are free. These can easily become clogged with fuzz and dust when drawing in fresh air. This reduces the air convection in the sauna heating unit and can be a cause of too high temperatures.

Clean or de-scale the heater when needed. Refer to your sauna supplier or directly to the manufacturer in case of defects or signs of wear and tear.

Only use original manufacturer's replacement parts, which can be obtained from your supplier or directly from the manufacturer.

If you did not use your sauna for a long period of time, always check before next use that cloths, cleansers or other objects have not been left on the sauna heating unit or the vaporizer before turning them on.



# Please be sure to note!

Do not insert sauna rocks too tightly in the rock store. Place them loose, leaving as many spaces as possible to allow the free flow of hot air for circulation purposes.

Remove stones from the sauna heater only when they cooled down.

It cannot be excluded that hot rocks or their parts fall out of the rock store.

Risk of fire!



# For the installation of sauna heaters, please pay attention to the DIN VDE 0100 part 703!

This standard makes the following statement valid in your newest expenditure, since February 2006, paragraph 703.412.05; Quotation:

The additional must be planned for all electric circuits of the Sauna by one or more fault current protection device (RCDs) with a calculation difference stream not more largely than 30 mA, excluded of it is Sauna heating.

The EN 60335-1 DIN (VDE 0700 part 1):2012-10 states the following in paragraph 13.2; quote:

The leakage current may not exceed the following values during operation:

- for stationary heaters of protection class I 0,75 mA; or 0,75 mA each kW input of the appliance, depending on the higher value, at a maximum value of 5 mA.

If the appliance is equipped with a protective device for leakage current (ELCB), please pay attention to the fact that no other electrical units will be protected by this ELCB.

Under current manufacturing technology, it is not reasonable to use heating elements for sauna heaters which do not collect moisture from the surrounding air. It is therefore possible that a little bit of moisture from the surrounding air may reach the magnesium-oxide filling in the heating elements during transport or storage and may cause the ELCB to release.

In this case the oven must be heated up under supervision of an expert, during which the PE conductor is not connected. After about 10 minutes, when moisture has evaporated from the heating elements, the oven must be reconnected to the PE conductor!

If the sauna heater is not in use for a significant period of time, we recommend running it every 6 weeks, so as to avoid moisture concentrating in the heating elements.

Therefore, should the ELCB be released during start-up, the electrical installation must be checked.

Installation of the sauna heater and control

unit must be undertaken only by an authorized electrician. Without a documented proof of such installation a warranty is generally void.



# **Service Address:**

EOS Saunatechnik GmbH Schneiderstriesch 1

35759 Driedorf, Germany

Tel: +49 (0)2775 82-514 Fax: +49 (0)2775 82-431

servicecenter@eos-sauna.de

www.eos-sauna.de

Please keep this address in a safe place together with the installation guide.

To help us answer your questions quickly and competently please provide the information printed on the type shield including the model, item no. and serial no., in all inquiries.

**Equipment commissioning date:** 

Stamp and signature of the authorized electrician:

#### General Terms and Conditions of Service

#### I. Scope

Unless otherwise agreed in writing in a specific case, these terms and conditions of service shall apply to service operations, including examining and repairing complaints. All our existing or future legal relationships shall be governed solely by the following terms and conditions of service. Our recognition of any conflicting terms and conditions of the Ordering Party shall be conditional upon our having given our express written consent to their applicability. We hereby expressly object to any terms and conditions of the Ordering Party contained in its General Terms and Conditions of Business or order confirmation. If order confirmations or deliveries are accepted without reservation, this shall not be deemed to constitute recognition of such terms and conditions. Any ancillary agreements or amendments must be confirmed in writing.

#### **II. Prices and Payment Terms**

The Ordering Party shall bear the following costs in connection with the service operation:

- 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 Obligations / Ordering Party's Cooperation

The Ordering Party shall provide free-of-charge assistance to the manufacturer in carrying out the service operation.

In the case of a warranty claim, the manufacturer shall make the replacement parts necessary for the service available to the Ordering Party free of charge.

#### IV. Service Visit by the manufacturer

In the event that it is essential that a manufacturer employee carry out the service operation on site, this must be agreed in advance. Where the main reason for the service call is not the fault of the manufacturer, any costs incurred shall be recharged to the Ordering Party after the service visit.

#### V. Liability

The manufacturer shall assume liability in accordance with the currently applicable statutory regulations. The packaging for all of our products is designed for the shipping of individually packed goods (pallet). We expressly point out that our packaging is not suitable for individual

shipments via parcel post. The manufacturer shall accept no liability for damage incurred as a result of improper packaging in an individual shipment.

#### VI. Manufacturer's Warranty

The manufacturer's warranty shall apply only in the event that installation, operation and maintenance have been carried out in accordance with the manufacturer's specifications contained 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 principle, to 24 months.
- Warranty services shall be performed only if the proof of purchase relating to 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 indicated together with the 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, among other things, light sources, starters, gas or oil pressure dampers as well as acrylic glass panes, tubular heating elements and sauna heater stones.
- Only original replacement parts may be used within the warranty.
- Service visits by outside companies shall require a written order to be issued by our service department.
- The equipment in question shall be sent to our service department by the Ordering Party and at its expense.
- Electrical assembly and installation work, including in the event of service or replacement, shall be carried out at the Customer's expense and shall not be borne by the manufacturer.

Complaints in respect of our products shall be reported to the specialist trader responsible and shall be exclusively handled via the latter.

The manufacturers General Terms and Conditions of Business, as amended, shall apply in addition to the foregoing terms and conditions of service.

