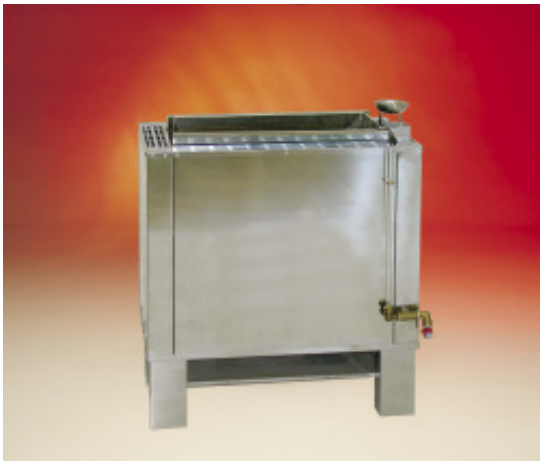
emotion of sauna.

EOS

Supplementary sheet for manual

Saunaheater 34.G

in Bi-O Star version



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MADE IN GERMANY

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Please consider all important installation instructions of this instruction manual. Additionally, this heating device has an evaporator element. Please note that it is necessary to use a control unit for the operation with wet hot air. Please choose the degree of humidity according to the information of the instruction manual of the control unit.

Installation Water Gauge

Remove protective film from outer casing. For protective reasons the glass tube will be shipped unmounted and separately in the packaging. Remove packing material around the glass tube.

Now, loosen glass mounting nut of the crimp connection (Fig 1) and remove disk and sealing.

Mount T-piece ½ „, cross connection, bow 90 degree and drain plug according to Fig 1.

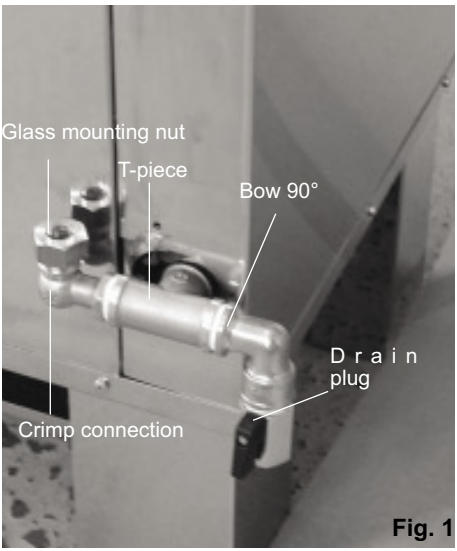


Fig. 1

Mount upper bracket with screwed-in tapping screw.

Now, insert glass tube top down and press it into upper bracket (Fig 2).

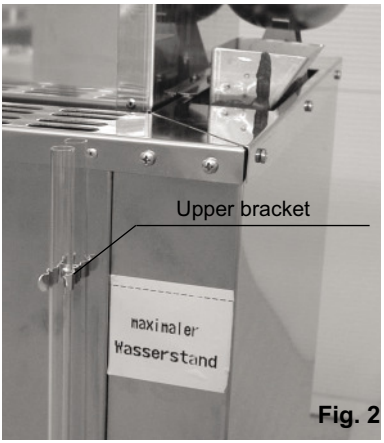


Fig. 2

Now attach nut, disk and sealing onto glass tube (Fig 3).

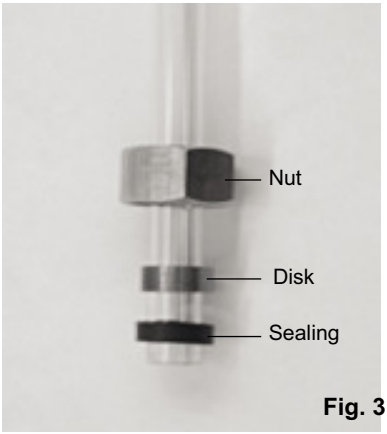
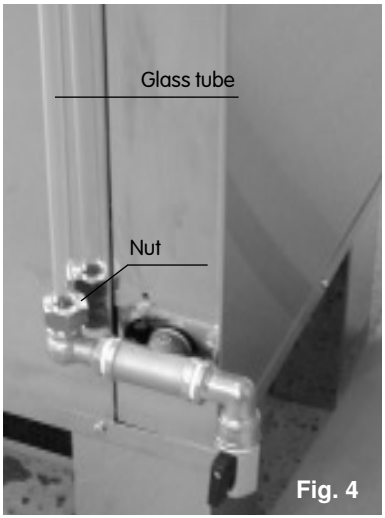


Fig. 3

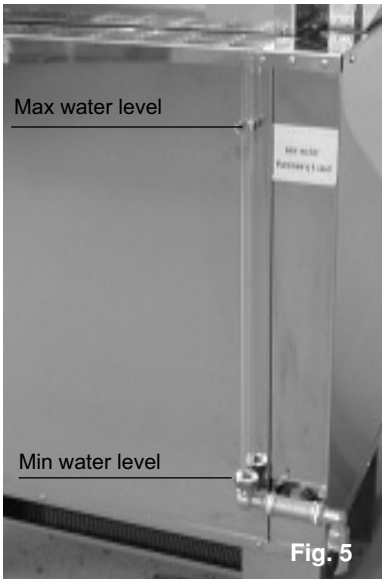
Insert glass tube into screw connections. Screw nut on crimp connection with moderate stress.

Attention! Do not overtighten nut – Glass Might Break.



In some cases, it might be necessary to re-tighten nuts afterwards.

The upper clamp (Fig 5) is used as upper water gauge (with manual filling), the lower clamp marks the minimal water level (except for fixed water connection).

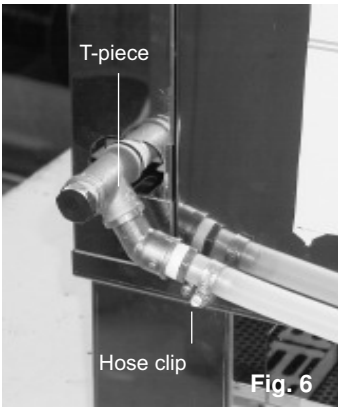


Bi-O-Star 21 - 30 kW with 2 Vaporisers at 2 kW

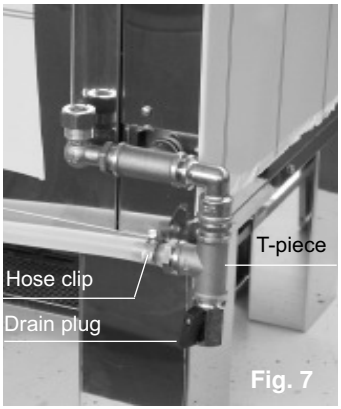
vaporiser power 4 kW

In the case that 2 vaporisers are being operated at the same time, it is necessary to note that both vaporisers are laterally shifted, in order to guarantee that no vaporiser bag runs dry.

Thus, the installation will be carried out on the left side with a T-piece 1/2“, in this case the square plug shows forwards whereas the hose clip shows to the middle of the oven. See Fig 6



Mount the second T-piece on the right side. Then, mount drain plug below at the T-piece. The hose clip shows to the middle of the oven. See Fig 7



Put silicone hose onto both spouts of the T-pieces and safeguard it with hose-band.

Fig 8.

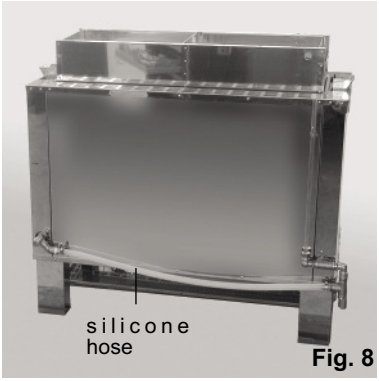


Fig. 8

Operation with Vaporiser

Fill water up to the upper marking line with appropriate jar via funnel tube.

Fill in water until the water level at the glass tube reaches the upper bracket (Fig 9). Do not overfill.

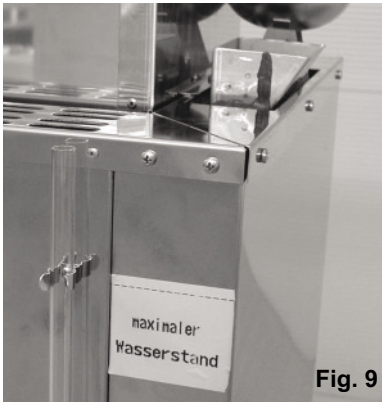


Fig. 9

Attention: At damp outlet risk of scalding. Put herbs and essences only into herb bowl.

The vaporiser will be regulated via the control unit. You get a humidity value that will either be regulated via a nominal/actual value comparison at the sensor, or which will be determined via a clock pulse.

Please note that the relative humidity values will significantly vary due to different temperature distributions in the cabin. Thus, the indication at the hygrometer and the indication at the control unit may significantly differ.

Please check if the water tank is empty prior to having a sauna. Remaining water must be emptied out. Now, fill water into the filling funnel up to the upper water gauge (Fig 10).

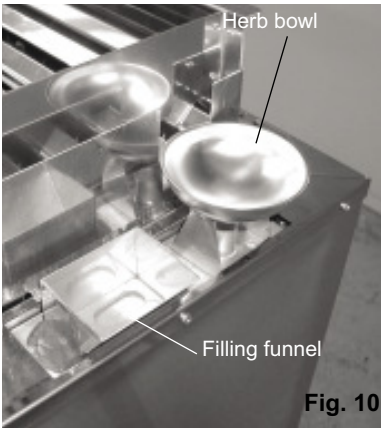


Fig. 10

This amount is sufficient for sauna baths of two or three hours.

Please regulate the humidity degree at the control unit. Never add essences, essential oils or herbs to the water, but put them into the herb bowl on the cover of the vaporiser

The hot, ascending vapour releases essential oils which will be distributed in the cabin automatically.

In case the store of water has been used up, a ring tone sounds and indicates water scarcity. However, if you want to continue

your sauna bath, you can add water into the storage tank after the control unit had been put to „Stop“ 5 minutes before or has been operated for 5 minutes in the mode „Finnish Sauna“. The heating rod in the vaporiser must cool down for 5 minutes before cold water can be filled in.

Never fill water onto the red hot heating rod. Besides the risk of scalding, the heating rod could be damaged.

If any additives have once been added to the water, normally this can result in overboiling foamily water. In this case, the water must be discharged and the cold container must be washed out with a cloth that has been drenched in alcohol or spirit. Even the smallest residues of essences on the wall of the vaporiser change the natural structure of the water.

Take care with control units that have follow up heating times.

After the wet bath, never leave herb bags in the herb bowl during the follow up heating times. They would immediately dry out and could cause fire hazard!

Connection to Fixed Water Net

We recommend the usage of a fixed water connection, in order to prevent the vaporiser from running dry.

Technical Specifications

Open container 0 bar

Heating output vaporise

2000 W at Bi-O-Star 15 / 18 kW

4000 W at Bi-O-Star 21 / 24 / 30 kW

Decalcifying the Vaporiser

Please ask your local supply company for the hardness of your water. Within the hardness degree I (1-7 German Degrees of Hardness) the device works normally trouble-free and must only be decalcified on demand.

If your water is within the degrees of hardness II - IV, it is necessary to have the vaporiser decalcified from time to time (depending on the degree of hardness).

For this, add decalcifying agents for domestic appliances to the water in the vaporiser according to manufacturer information. Bring the mixture of water and decalcifying agents to a boil for ten minutes and have it cooled down subsequently.

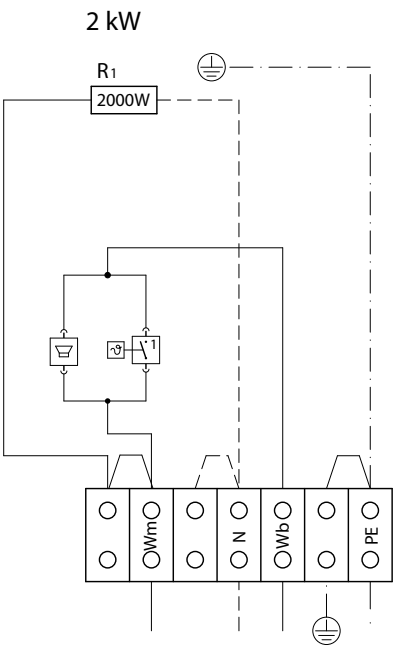
After it has been cooled down discharge the mixture from the vaporiser and rinse out with cold water at least twice. Please consider the instructions of the manufacturer of the calcifying agents.

Attention!

The device must be separated from the power supply system in the case of any cleaning or maintenance jobs, in case accessory or plates are changed, or in the case of any repair works in operation mode.

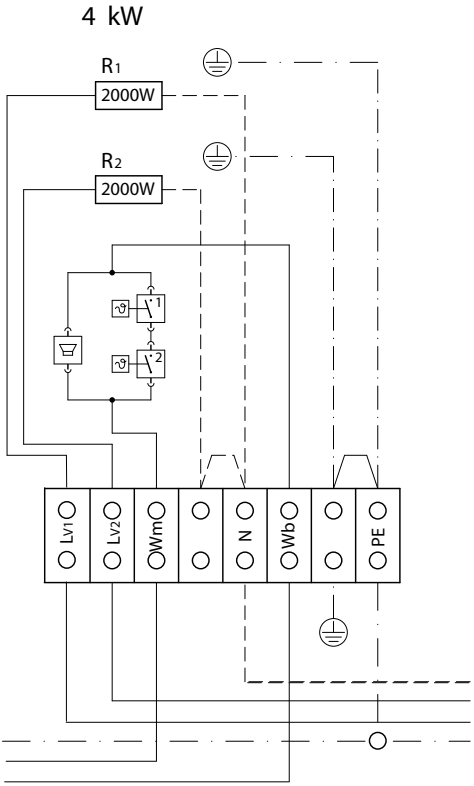
Connection diagram

15 - 18 kW



Connection control panel

21 - 30 kW



Connection control panel

Connection circuitbraeker device

Capacity acc. DIN	Vaporicer	Electrical. Connection	Fuse control unit in A	Fuse LSG in A	Connecting cable main - control unit in mm²	Connecting cable main - LSG in mm²	Connecting cable control unit - heater in mm²	Connecting cable LSG - heater in mm²	Connecting cable control unit - LSG in mm²
15 kW	2 kW	3N AC 50 Hz 400 V	3 x 16	3 x 16	5 x 2,5	5 x 2,5	5 x 1,5 4 x 1,5	5 x 1,5	5 x 1,5
18 kW									
21 kW	4 kW			3 x 35			5 x 1,5 3 x 1,5	5 x 2,5 4 x 1,5	
24 kW						5 x 6		5 x 4 4 x 1,5	
30 kW			1 x 16	3 x 63	3 x 1,5	5 x 16	3 x 1,5	2 St. 5 x 4 1 St.4 x 1,5	6 x 1,5

All cross sections of a line are minimum diameters in mm² (Copper line)