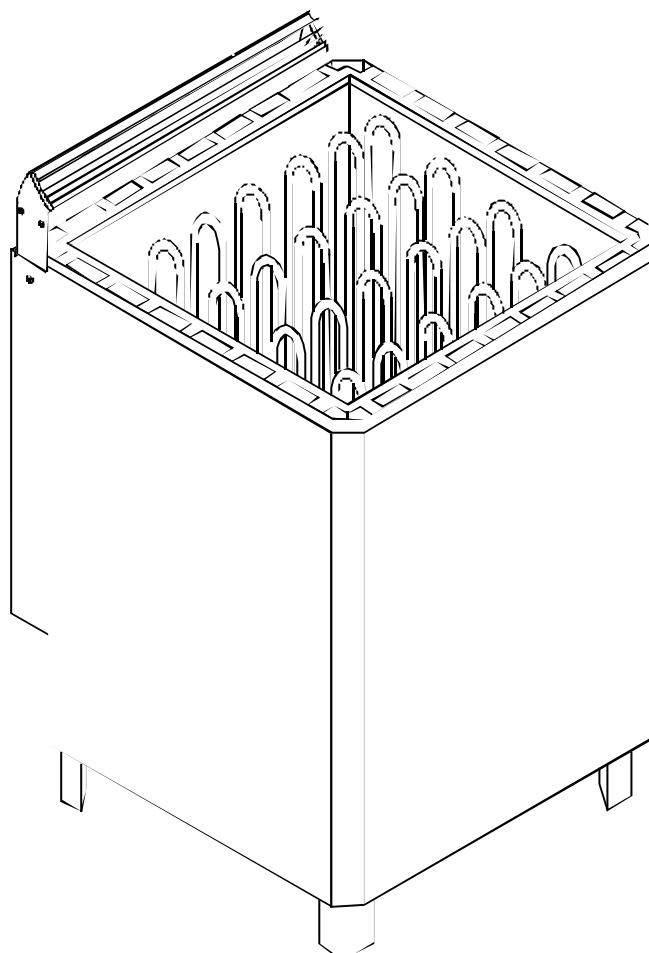


STEAMY SAUNA HEATER: 1105- 901-0104
1105-1051-0104
1105-1201-0104
1105-1501-0104

CONTROL PANEL: 0518-2-151704



USING.

Before you start to install and use the sauna heater check the following:

- that you have got all the parts needed.
- check that the voltage of the heater and the control box is the right one and that the control box suits your heater.
- check that the effect of the heater suits your sauna. You must not exceed or go below the volumes mentioned in table 1.
- look at the installation distances in table 1. You have to follow these, otherwise it can cause a burn.
- study these installation- and using instructions carefully.

HOW TO CHOOSE THE EFFECT OF THE HEATER.

Noticing the volume of the sauna you choose the effect of the heater according to table 1.

HEATER		SAUNA			MINIMUM DISTANCES			CABLES TO			FUSES	CONTROL PANEL
Type	Effect	Volume		Height	From heater to			Control panel	Sensor unit	Steamy unit	Main fuse	0518-2-151704
		Min	Max	Min	side- and backwall	ceiling	quard rail and upper bench					
	kW	m ³	m ³	Hmin mm	A min mm	B min mm	C min mm	mm ²	mm ²	mm ²	A	
1105-..	9,0	8	12	1900	80	1200	80	6 x 1,5	4 x 0,5	5 x 2,5	16	X
1105-..	10,5	9	15	1900	80	1200	80	6 x 1,5	4 x 0,5	5 x 2,5	16	X
1105-..	12,0	10	18	2100	120	1400	120	6 x 1,5	4 x 0,5	5 x 4	20	X
1105-..	15,0	14	24	2100	120	1400	120	6 x 1,5	4 x 0,5	5 x 6	25	X

The volumes mentioned in table 1 are valid under the assumption that the sauna is well insulated. If there are walls of bricks or concrete in the sauna you have to add to the volume about 1,2m³ for every brick- or concrete wall m² and then you choose the effect of the heater according to the composed volumes.

MOUNTING OF THE SAUNA HEATER

The sauna heaters are freestanding models and these heaters must be firmly fastened to the floor by screwbolts through two of the feet. When fastening the heater to the floor please follow the requirements about the minimum distances to combustible material indicated on the name plate of the heater and in table 1 and fig. 1. The sauna heater can be placed on a wooden floor. Do not protect the wall behind the heater with for instance asbest- or eternite plates, as these may cause a too high temperature increase in the wall.

Do not place the sauna heater in a nisch, and you must not have a compact quard rail around the heater. Draught from door, vents etc. should be avoided as this effects the thermostat.

QUARD RAIL

If you put a quard rail around the heater you have to note the minimum distances mentioned in table 1.

MOUNTING OF THE CONTROL BOX

The control box must be installed in a dry place outside the sauna room. The sensor unit should be fastened to the wall in the sauna according to fig 1. please follow the measurements mentioned in fig 1. otherwise it may cause a burn.

SENSOR UNIT

The sensor unit should be placed in accordance with the measures stipulated in fig. 1. The sensor unit is provided with long heat resisting (T170 C) 4x0,5mm cables. These cables can be extended by a normal weak current cables. For connection of the sensor unit control panel, please see fig. 4.

CONNECTION

The electrical installation of the sauna heater and the control panel must be made by a qualified electrician according to the requirements. The principal connection will be made in accordance with fig. 1. The required wiring diagrams are inside the heater and the control panel. The heater can be connected by using a rupper wire HO7BB-F5G, table 1. the connection box must be a splash water proof construction and its height from the floor must not be higher than 500mm. If the connection- and installationwires come inside the sauna or inside the walls of the sauna higher than 1000mm from the floor they must loaded take at least 170 °C (for instance HO7SS-K4G)

All electrical appliances that are installed higher than 1000mm from the sauna floor must be accepted for use in 125 °C surrounding temperatures (marking T 125).

SAUNA STONES

Since the sauna stones may be dusty, we recommend that they are rinsed before being placed in the rock compartement. Put the largest stones at the bottom. Do not pack the stones tight but place them to allow good air circulation. To prevent damage to the sauna unit, the stones must be replaced if they begin to flake.

THE VENTILATION OF THE SAUNA

The ventilation of the sauna must be sufficient. In a private sauna the air should be changed 6 times an hour. This can be achieved by a vent under the heater from an adjacent area. The diameter of the vent should be at least 6cm (fig.2). The exhaust must be situated lower than the upper benches as far as possible from the heater and about 500-600mm higher than the fresh air vent. The exhaust must be twice the size of the fresh air vent. From the exhaust the consumed air will be lead upwards to the ventilation opening, which must be at the level of the ceiling. In order to facilitate the ventilation of the sauna after the bathing there must be a ventilator at the ventilation opening. This ventilator must be shut during the heating of the sauna and during the bathing. The exhaust pipe can also in order to save place be placed in a corner under the wood framing.

LIMIT CONTROL

Inside the thermostat there is a thermal cut-off that switches off the whole current if the temperature for some reason rises too high in the sauna. After reaching a normal temperature in the sauna the thermal cut-off can be renewed.

Before that you have to find the reason for the temperature increase.

The control panel

Features:

Timer with 6 hour bath time and 12 hour preset time.

Four heating modes, Normal Sauna 65 - 110 Cels
 Soft Sauna 25 - 65 Cels
 Soft Bath 25 - 65 Cels + Steam
 Soft Steam No heat Steam only

One selector for the Sauna light and Ventilator fan

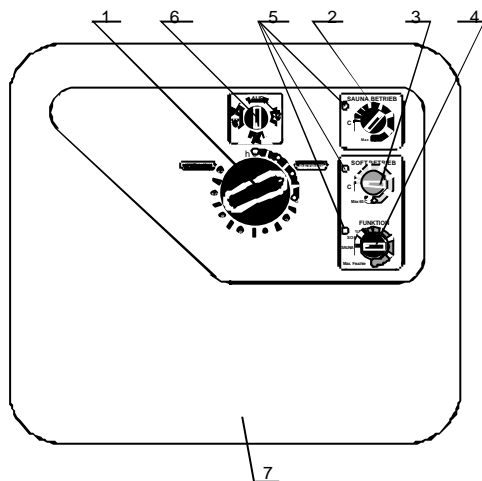
Two separate temperature selection dials, one the Soft range 25 - 65 Cels and the other for the Sauna range 65 - 110 Cels.
Your favourite temperature in both ranges can be left at a desired level.

One selector dial for the functions Sauna, Soft bath and the Humidity level.

All functions are indicated by bi-colour LED:s

The Soft-bath range is limited to 65 Cels and the system will not allow steam generation if the temperature is higher.

The function dial can be left in the Soft position during the Pre-set time and the Heating up time, this enables pre heating without steam.



1. Timer 6h / 12h preset
2. Thermostat NORMAL SAUNA
3. Thermostat SOFT SAUNA
4. Function selector
5. Signallight
6. Switch for light and fan
7. Terminal

OPERATING INSTRUCTIONS:

NORMAL SAUNA, Can be obtained by setting the timer dial to the first range from 1 to 6 hours, and the Function dial is set to the Sauna position. The chosen function is indicated by the LED-lamp next to the Sauna temperature dial.

PRESET TIMING, can be obtained by setting the timer dial, to the preset range 1 to 12 hours, the Function dial must be set to the desired function and the temperature must be set to a desired level

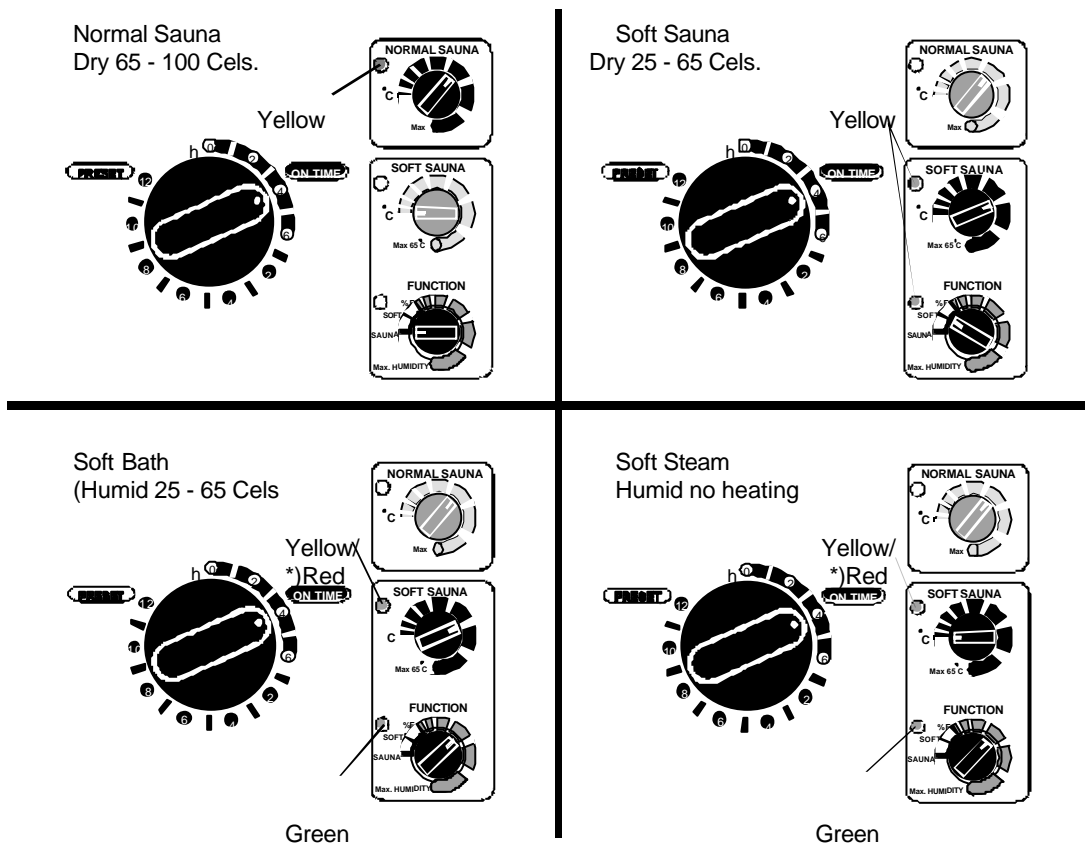
SOFT SAUNA, can be obtained by setting the Function dial to the Soft range, the led next to the dial shall be lit and YELLOW. The led next to the Soft range temperature dial will turn yellow. If the sauna has been used in the normal sauna range and the rtemperature is higher than 65 Cels. then the le next to the Soft temperature dila will turn RED. In this position no steam output is possible. The mentioned LED can turn red when the Soft range temperature is used at maximum, this does not interfere with the heating only with steam output. This setting can be used during pre heating and before you enter the sauna you can change the setting to the %F range to start steam generation.

SOFT BATH, is the combination of steam and hot air in the range from 25 - 65 Cels.
 The Function dial is set to the %F range and the LED next to the dial shall turn GREEN to indicate that the steam generation is activated. Steam will be produced within some minutes.
 By turning the function dial right most you will get maximum steam output. The temperature is set by the Soft bath dial
 If the led next to the Soft temp. dial is RED then this is a sign of that the steam output is inhibited due to a too high temperature in the sauna room (higher than 65 Cels.) The temperature is limited for safety reasons. Steam generation will start as soon as the temperature goes lower than 65 Cels.

STEAM BATH, can be obtained by leaving the SOFT-temperature dial in Minimum position, and by turning the Function dial to the %F range, the LED shall be green to indicate that Steam generation is activated.

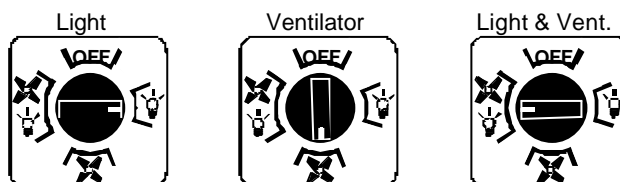
Remark! Steam Bath in normal sence can not be achived since the output from the generator alone is not big enough to rise the temperature to steam bath level.

Try four Sauna modes and their settings.



*) The Soft Betrieb indicator LED will turn RED if the temperature is higher than 65 Cels. The steam output will be inhibited until the LED turns yellow again.

The selector switch:



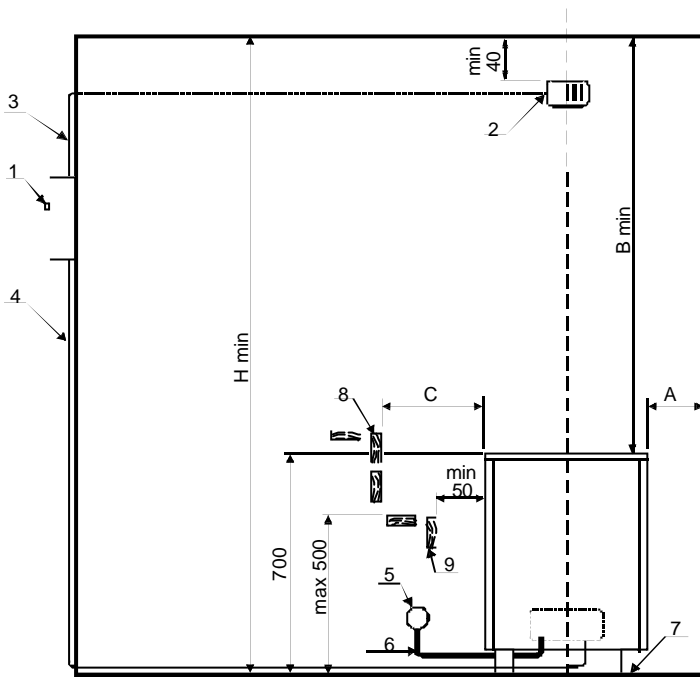


Fig 1

1. Timer knob in control panel
2. Sensor unit
3. Heat resisting cable
4. Cable to control panel
5. Junction box
6. Connection cable to steamy unit
7. Fastening hole \varnothing 7mm
8. Upper bench or guard rail in front or on the side of the heater.
9. Lower bench in front or on the side of the heater

Measure A min, B min, C min and H min: table 1.

Fig 2

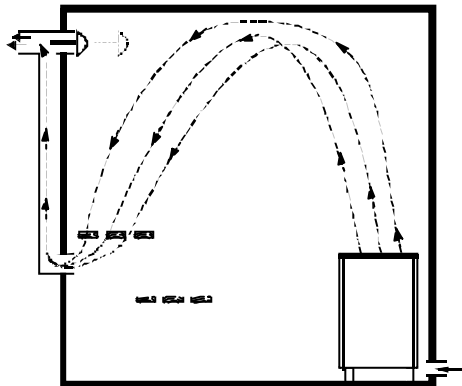
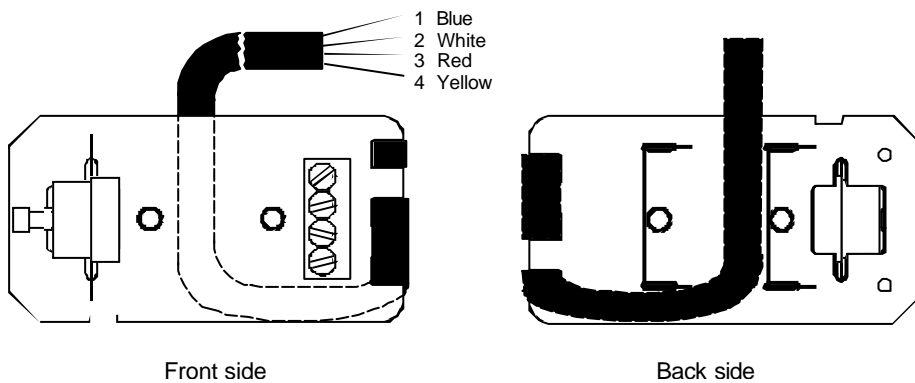
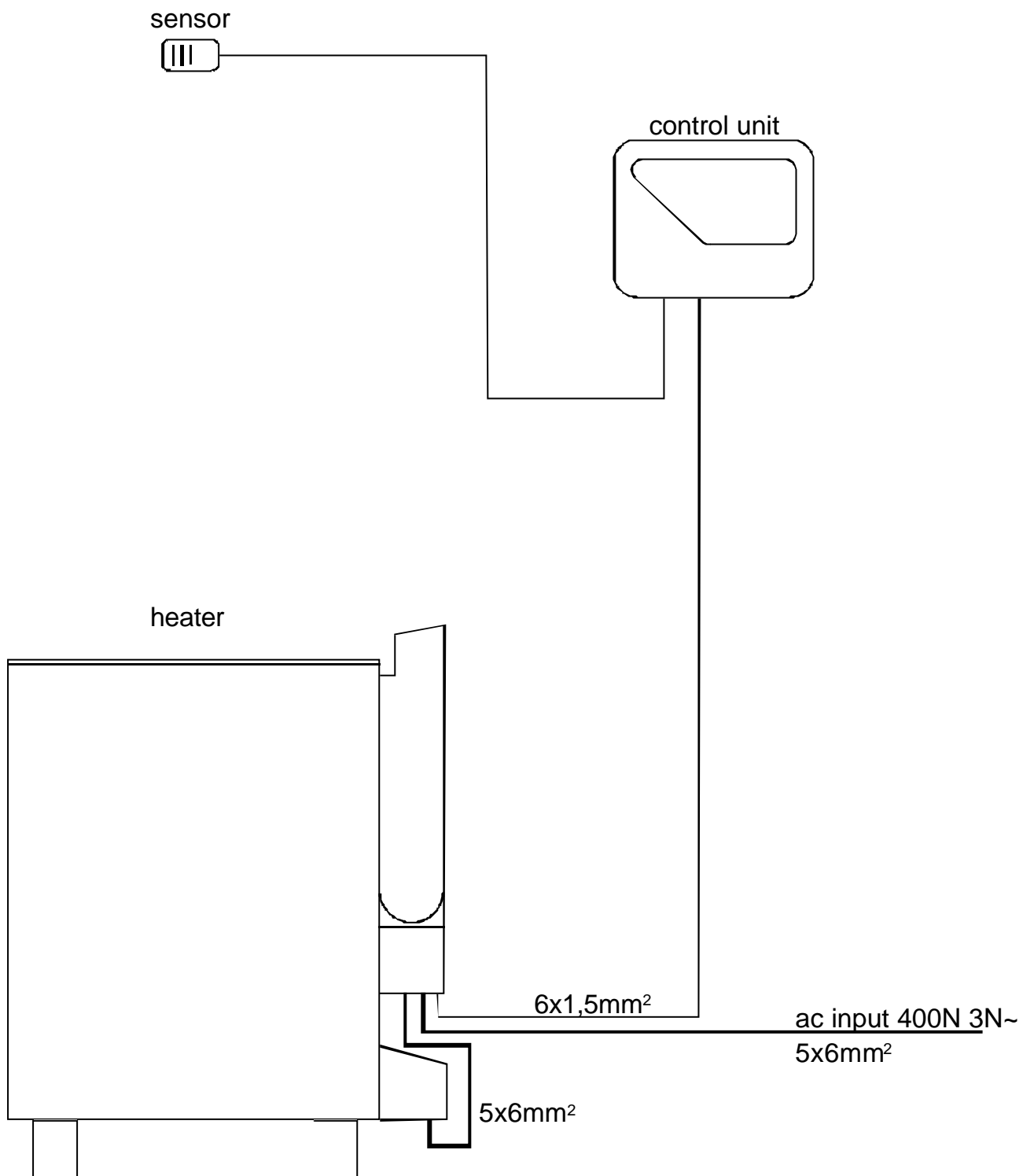


Fig 4



Front side

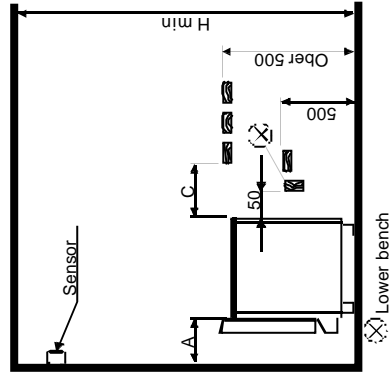
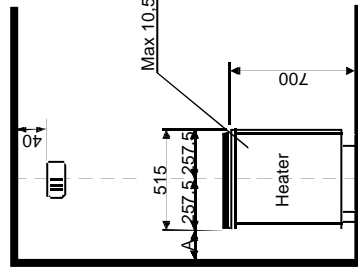
Back side



CONTROL PANEL SKLE-STEAMY

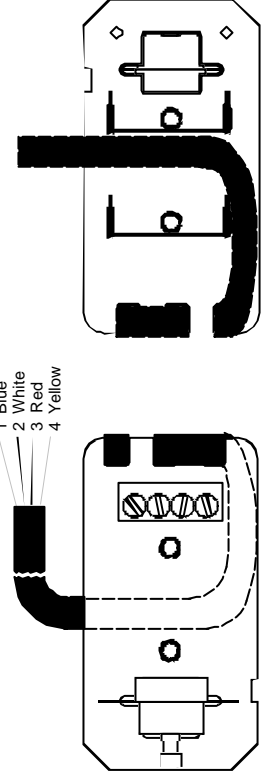
INSTALLATION

The control panel should be mounted in a dry area outside the sauna room.



SENSOR INSTALLATION

- 1 Blue
- 2 White
- 3 Red
- 4 Yellow

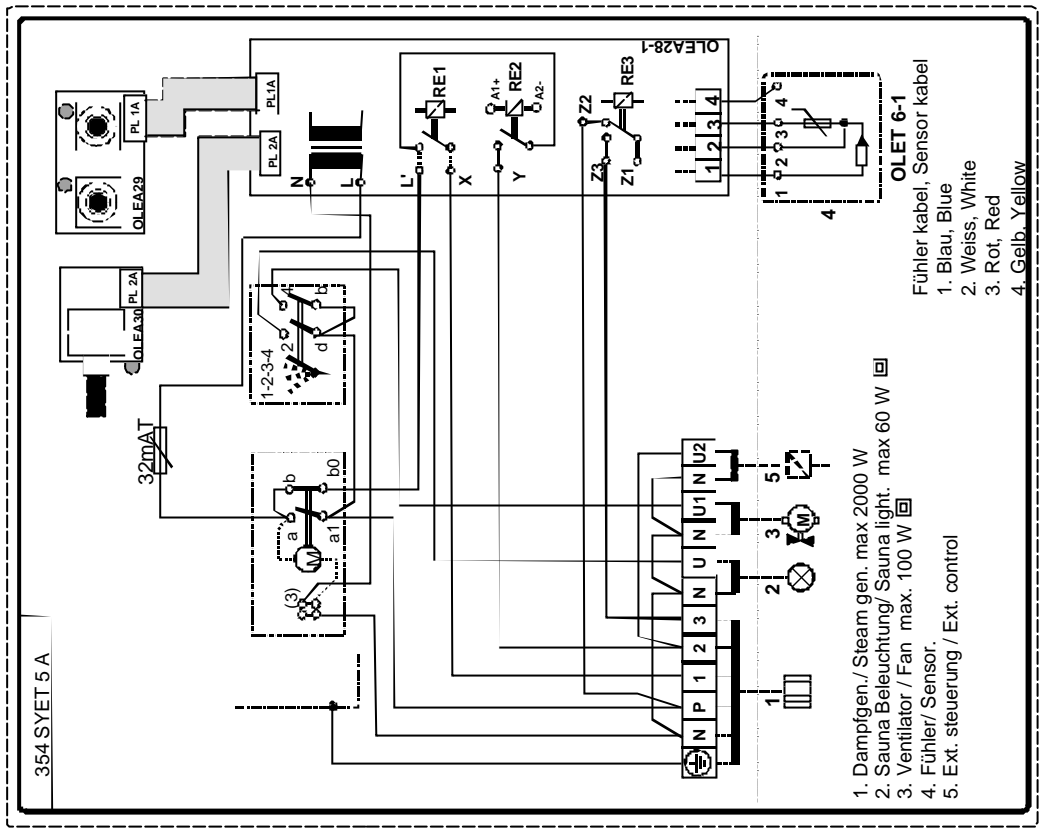


Front side

Back side

CONNECTION

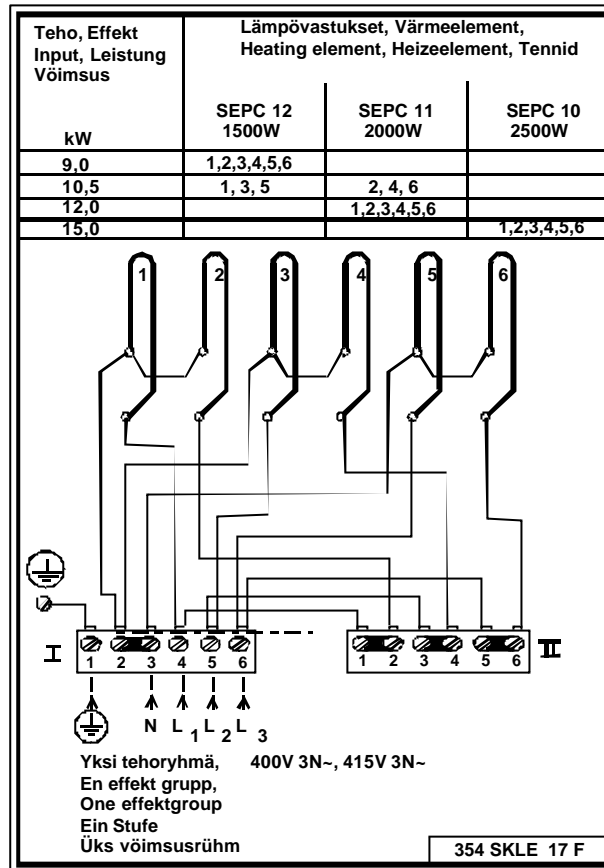
The installation and connection of the sauna heater and other electrical devices may only be carried out by a qualified electrician in accordance with VDE 0100, section 703. The sauna is to be solidly connected to the net.



- 1. Dampfgenerator / Steam gen. max 2000 W
- 2. Sauna Beleuchtung / Sauna light. max 60 W
- 3. Ventilator / Fan max. 100 W
- 4. Fühler / Sensor.
- 5. Ext. steuerung / Ext. control

- Fühler kabel, Sensor kabel
- 1. Blau, Blue
- 2. Weiss, White
- 3. Rot, Red
- 4. Gelb, Yellow

Ofen



Steamy unit

