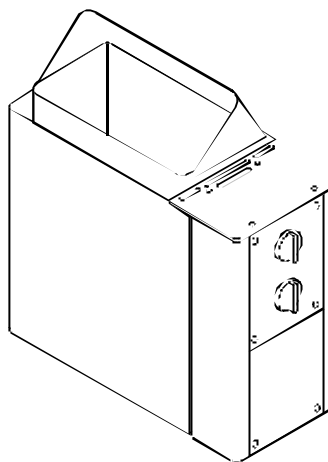


USERS MANUAL SAUNA HEATERS

MODEL : 1202-21-1718 2.1 kW
1202-30-1718 3.0 kW

220 V 1N – 240 V 1 N



MOUNTING THE SAUNA HEATER

Remove two screws in the lower frontpart of the heater, this operation makes it possible to remove the console from the heater. (see fig. 4)

Drill holes for fastening of the heater console. Use the console as guide for the drilling. Fasten the supplied screws through the sauna room soft-wood lining into a 2 x 4 in. backing board to hold the heater weight.

See fig. 1 and fig. 2 for the right distance to combustible materials.

LEFT- AND RIGHT- HAND MOUNTING

Depending on how your sauna is constructed you can have a need to operate your heater either from the left or the right side. To make this easy the heater is symmetrical meaning that during the installation you can choose on which side you like to have the controls for easiest operation.

Place the heater on the console, find the fixing holes in the lower part of the heater body. Push the heater gently in direction of the wall so that the lugs of the console fit into the fixing holes of the heater. Check that all four lugs are in the right position, fasten the two locking screws in the front of the heater (see fig. 4)

- Only one sauna heater may be mounted in each room.
- The wall behind the heater must not be covered with asbestos or eternite disks. This may cause too high temperature rises in the wall material.
- For wall and roof material, please use wood panelling.

PROTECTION GUARD

If you wish to build a protection guard around your heater the instructions in fig. 2 are to be followed.

CONNECTION

The electrical connection has to be made by a qualified electrician in accordance with the instructions.

For connection use rubber cable. At the bottom of the heater you will find the control panel, which is also used as a junction box. In the junction box of the heater there are besides the connection blocks even terminal blocks, which enable the following functions:

- a) A pilot light outside the sauna room (terminal block 2 and 5, see wiring diagram fig. 3. For this connection please use wire of the same dimension as the connection wire for the heater, see tab. 1)
- b) Remote locking of other heating equipment. (terminal block 2 and 6, see wiring diagram 3).

The junction box which is to be placed in the sauna room, has to be of splash-proof material and have condensing water holes. The middle of the junction box has to be placed max. 500mm over the floor.

SAUNA ROCKS

The rocks are cleaned at the factory, but we recommend you to hose them down once more before placing them in the heater. The biggest rocks should be placed at the bottom and the smallest at the top. You must not put the rocks too close as the air must circulate through the heater. The rocks must, however, fully cover the heating elements. Please replace the rocks after 2- 4 years.

If you do not follow the instructions above there is a risk of fire.

REGULATION

Turn the thermostat knob (fig. 4) to the temperature desired. The desired temperature will be reached within 30- 60 minutes depending on the size, construction and isolation of the sauna.

THERMAL CUT-OFF

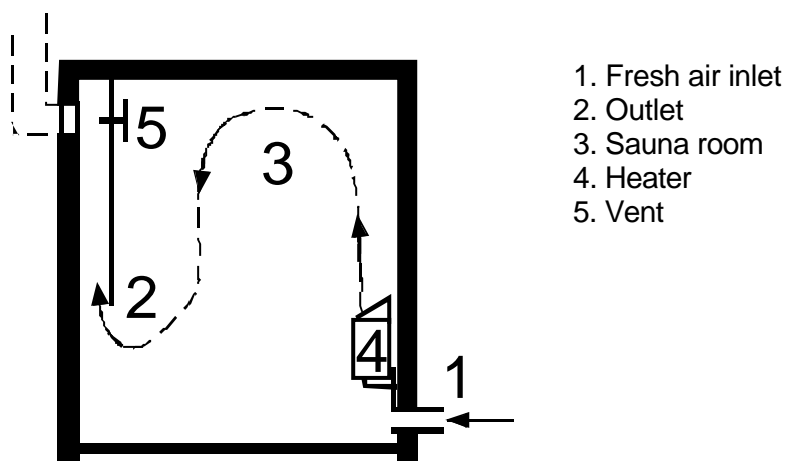
If the temperature in the sauna for some reason gets too high, the thermal cut-off switches off the heater completely. After cooling down the sauna to the normal temperature you can reset the heater by pushing the reset button (see fig. 4) on the thermal cut-off. Try, however, first to find the reason for the sudden increase in temperature.

TIMER

The timer, which also works as a main switch, automatically switches off the heater after the desired time. You can choose any time between 1- 6 hours. When turning the timer knob clockwise to position 3 the heater starts to warm the sauna room and after 3 hours the heater is automatically switched off. The timer can be turned to 0-position from all positions. If the bathing time is shorter than expected the heater can be manually switched off by turning the knob to the 0-position. If your sauna heater has an 8 +4 hour timer, then you have 4 h of heating time and 8 hours of pre-setting time. This means that during the pre-set time only the timer will work and when the pre-set time has finished the 4 h heating time starts. You can also use the only the 4 h heating time to heat the sauna up right away.

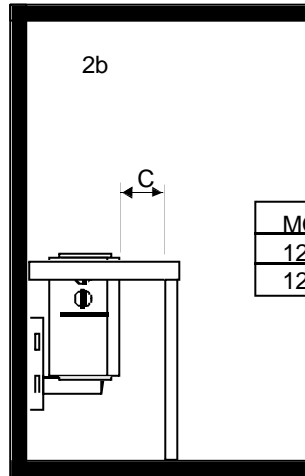
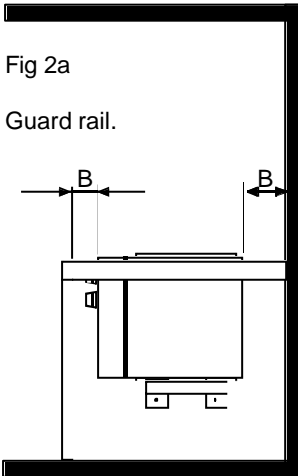
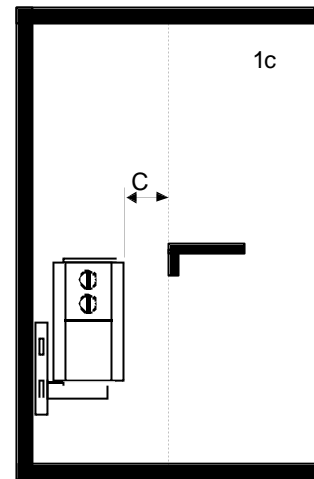
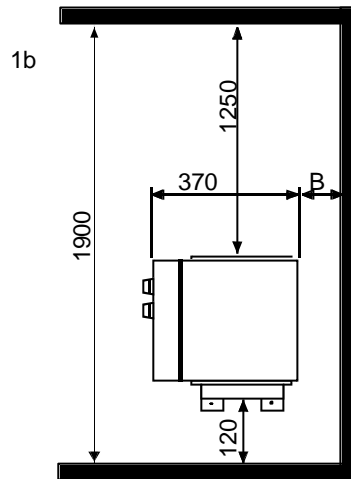
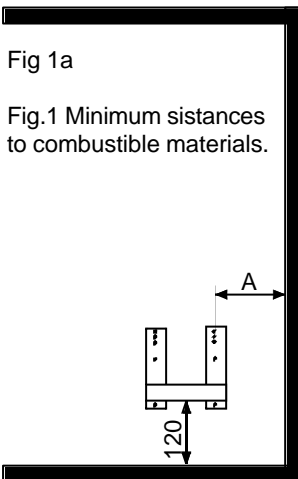
VENTILATION

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 50-60cm 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.



Tab.1

Model	Power kW	Sauna room			Min. distances				Supply cord	
		Volume		Height min cm	From side to wall cm	From front to combust.mater. cm	From heater top to ceiling cm	From heater bottom to floor. cm	Mains fuse A	Supply cord mm ²
		min m ³	max m ³							
1202-21-1718	2,1	1,3	2,5	190	3	3	125	12	10	3 x 1,5 S
1202-30-1718	3,0	2	4	190	3	6	125	12	16	3 x 2,5 S



MODEL	KW	A	B	C
1202-21-1718	2,1	90	30	30
1202-30-1718	3,0	90	30	60

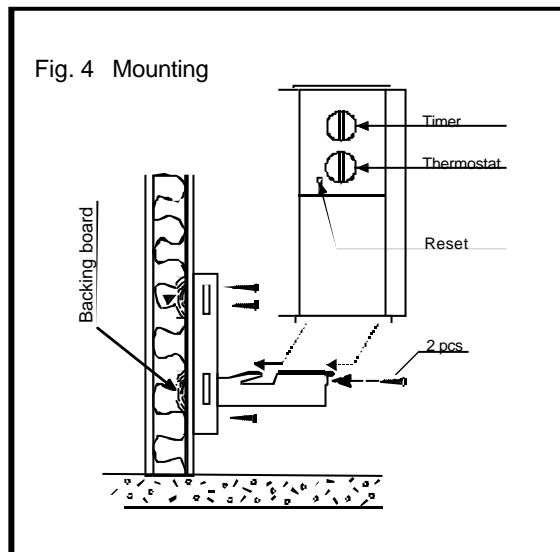


Fig. 3
Wiringdiagram.

