SAM-B10

SAM-B12

SAM-B15

SAM-B18

SAM-B21

SAM-B25

SN3/20100711

Welcome to select SAM-B SAUNS HEATER series with rational design , reliable performance， steady effort and convenient installation. Sauna-bathing equipment is composed of SAUNS HEATER and SAUNA ROOM. After SAUNA-bathing, the people feel the flow of spirits, excrete virus in body, release the muscle and also good for keeping healthy.

SAM-B SAUNS HEATER series is designed for the big SAUNA ROOM, the model as following: SAM-B10、SAM-B12、SAM-B15、SAM-B18、SAM-B21、SAM-B25. which is equipped with suitable controller to control the temperature in SAUNA ROMM. (refer to table 1)

⚠Warning: The Heater is forbidden to use the heat of any other purposes.

ATTENION: This appliance is not intended for use by person (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

ATTENION: Children should be supervised to ensure that they do not play with the appliance.

□□□□□□ ∩.·˙□□□·····□□∩˙·..·˙

Prior to installing heater, please refer to Installation handbook and check it as following points:

- Is the output power and type of the heater suitable for the SAUNA ROOM? See parameter table 1. (Technical data).
- Is the supply voltage suitable for the rated voltage of heater. An Residual Current Device (RCD) must be installed in the power supply circuit for safety purpose.
- The location of the heater fulfils the minimum requirements concerning the distances given in chart 1 and allow for safety and convenience.
- Is the controller suitable for the heater power and control requirements?
- Do not install the heater to the floor or wall recess.
- Choose the cable wire according to table 1 and the cable wire can bear high temperature 170 ºC (it is recommended to use rubber cable wire).
- Do not install more than one heater in a sauna room unless twin-heater installations. (Warning: there must be 400 mm between two heaters when install two).

The heater gets very hot when working. To avoid the risk of accidental contact with the heater, it is recommended that a heater guard be provided. The guard is made into many kinds of patterns in accordance with the location places, but some size must be made as the chart 1.

An electrical supply must do the installation of the heater to ensure safety and reliability. Improper electrical connection can cause fire or electric shock. Refer to chart 2 (Electrical connection chart).

□□∪.·˙□ □□˙·..·˙□□

Do not use the heater without stones, otherwise it may cause a fire. Only use the original SAUNA stone or the stone for use in heater. Do not use ordinary stones, which may emit harmful substances, easily break and do not possess good heating capacity. Wash the stones to clear the dust before putting them into the heater. Stones of unspecified sizes should not be used.

Put the larger stones at the bottom of stove compartment and the smaller ones on top. Do not pile them tightly so that air can flow freely. NOTE: Too tightly placed stones decrease working time of the heater element, the stones should plainly cover the heater element (refer to chart 3). The diameter of stone is about 3-8cm.

Rearrange the stones in the heater at least once a year or twice if it is in frequent use (maximum 500 hrs). To decide the correct volume of stones in heater, refer to Technical Data (table 1) provided.

∩.·˙□∪···□□∩˙·..·˙

The door, ceiling and walls of sauna room must be insulated. When one square meter (m^2) of uninsulated surface choose the heater input (refer to table 1), take following as example: 1 cubic volume increases to

approximately 1.2m3.

Make sure that moisture-proof is appropriate in SAUNA ROOM. Purpose of this B to prevent spreading moisture to the other rooms or wall structure. Moisture-proof must be placed between panel and heating insulation.

Moisture and thermal proofing should be installed from outside to inside, such as:

1、Recommend that the MIN thickness of the thermal insulation in the walls in 50mm and in the ceiling 100mm.

2、Aluminum foil laminate is affixed over the heating insulation as a moisture-proof.

3、Leave at least 20mm air slot between moisture-proof Aluminum foil and inside panel.

4、Leave a slot between wall panel and ceiling to prevent gathering vapor.

□∩□ □□.·˙□∩···□□∩˙·..·˙ ˙·.□ □□∪.·˙□ □˙·.˙·.⋮

- Mix the cold air with hot air to relieve mugginess when bathing.
- Draw the fresh air around the heater to ventilate the sauna room.
- Move the heater air to the farthest part of sauna room considering air ventilation of sauna room, the inlet and outlet vent should be installed.

The inlet vent may be installed on the wall below the heater. (Chart 4A).when using mechanical ventilation ,inlet vent is placed 50cm above the heater (chart 4B) or on the ceiling above the heater (chart 4C).the heavy cold air that blown into sauna room is mixed with the light not air from the heater ,bringing fresh air for bathers. The recommended inlet should have a diameter of 5—10cm.

The outlet vent should be placed diagonally opposite to the inlet. It is advised the outlet vent is placed under the platform in sauna room as far as possible from the inlet vent. It can be installed near the floor, or lead outside through a pipe from the floor going to a vent to the sauna ceiling, or under the door (to the wash room). In this case, the sill slot must be at least 5cm and it is recommended there is mechanical ventilation in washroom the size of the outlet should be twice of the inlet.

⚠**Warning:** 1、Do not power on when connecting electric current and mending .2,Do not hang clothes to dry in the heater, for this may cause a risk of fire.3, Do not bake food in heater. 4, keep away from the heater. When it is hot, the outer surface of the heater may burn your skin.

□□□□∩˙·..·˙□ ˙·.□ □□□ □□□□□□

ATTENTION：Check sauna room before restart the timer.

Ensure there is nothing near the heater before switching it on the heater and the stones may emit smells when you use the heater for the first time. Make sure that the sauna room has been efficiently ventilated. It will take about an bour to raach suitable temperature in SAUNA ROOM. If the output of heater is proper (chart 4)

The temperature in sauna Room is usually 60～90°C.The input of heater should be equipped with suitable sauna Room (too powerful heater will heat sauna room too quickly and the temperature of stones may remain insufficient. Consequently, the water that thrown on the stones will run through. On the other hand, if the heater is underpowered the heating time will be much longer)

⋮□··· □∪.·˙⨋□∩˙·..·˙□

If the heater does not work, check the following: (warning: switch off the heater before checking).

1,front frame. 2, the heater side frame. 3, Iteaing element. 4, Terminal Block (big). 5,Heating element holder with O-rings. 6,Cable holder. 7,Name plate. 8,Leveling governing Bolt. 9,Supply wire set.

⚠ **Warning:** Never put cover on the heater
Do not use the heater without stones
Do not put wood on the heater
Do not use chlorinated water

Chart 1 The location of heater

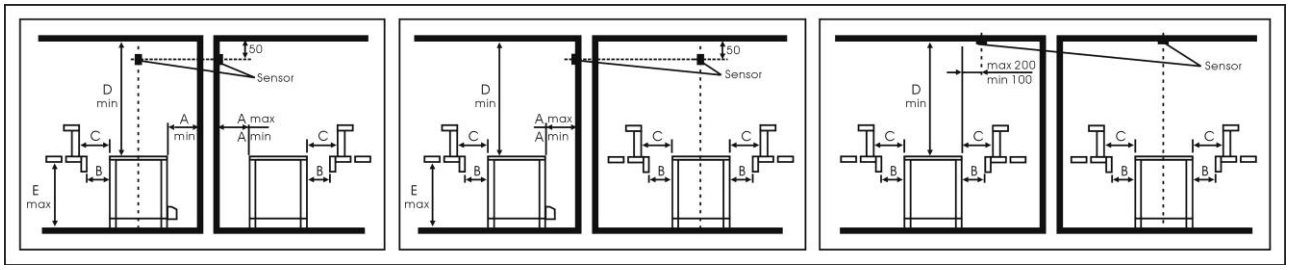


Table 1 Technical parameter

Heater model	Input KW	Heating element N*KW	Sauna room volume min max m^3	Voltage V	Current A	Phase P	Connecting cable N*mm^2	Arrangement stones kg
SAM-B10	10.5	3*1.5 +3*2.0	9 15	380-415	16	3N	5*2.5	40～50
SAM-B12	12.0	6*2.0	10 18	380-415	18	3N	5*4.0	40～50
SAM-B15	15.0	6*2.5	13 23	380-415	23	3N	5*4.0	60～75
SAM-B18	18.0	9*2.0	17 29	380-415	27	3N	5*6.0	85～100
SAM-B21	21.0	6*2.5 3*2.0	20 33	380-415	32	3N	5*6.0	85～100
SAM-B25	25.0	7*3.0 2*2.0	36 45	380-415	41	3N	5*10.0	85～100

Table 2 Safety distance

Model	Safety distance					
	A min	A max	B min	C min	D min	E max
	mm	mm	mm	mm	mm	mm
SAM-B10	120	220	150	200	1400	680
SAM-B12	120	220	150	200	1400	680
SAM-B15	160	260	150	200	1400	680
SAM-B18	160	260	150	200	1400	680
SAM-B21	160	260	150	200	1400	680
SAM-B25	160	260	150	200	1400	680

Chart 2 Electrical connection

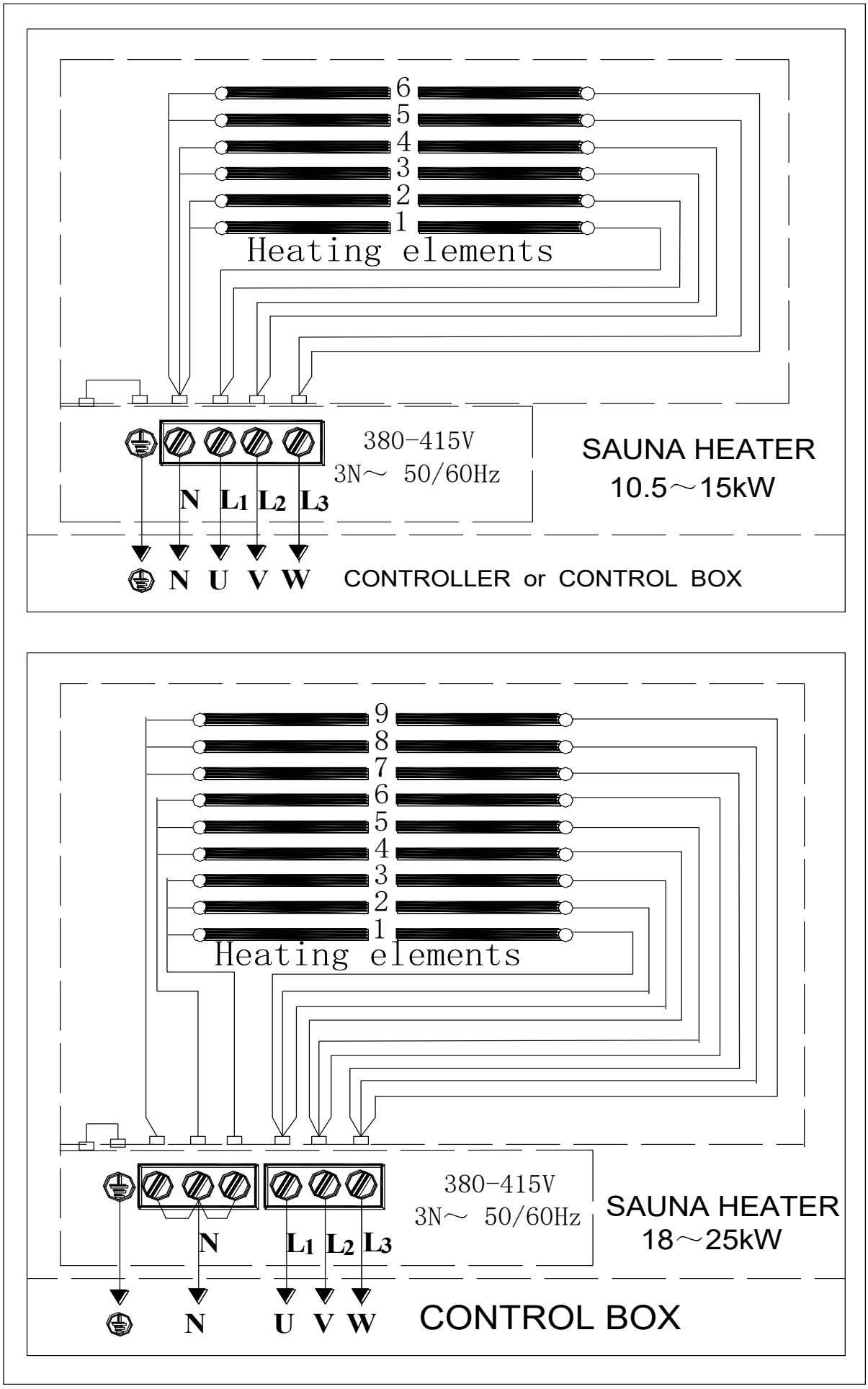


Chart 3 Pile stones

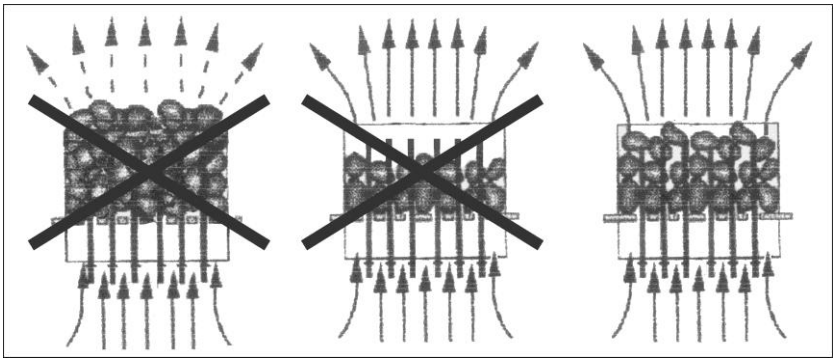
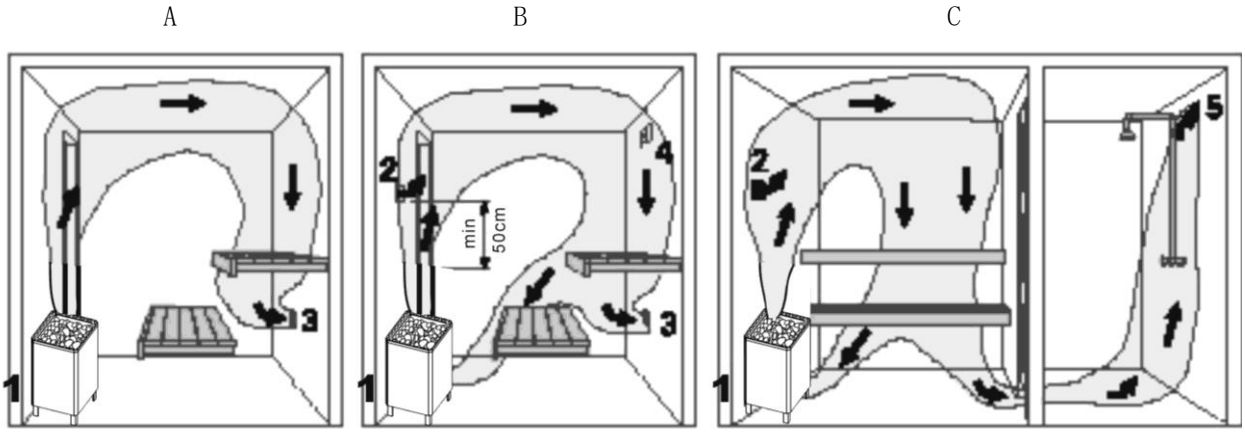


Chart 4 The location of inlet vent and outlet vent



1、 Air supply vent;

2、 optional air supply vent if mechanical exhaust ventilation is used, the opening is located 50cm above the heater;

3、 exhanst air vent;

4、Drying vent, which is closed during heating and bathing, the sauna room can also be dried by leaving the door open after bathing;

5、 If there is only an exhanst vent in washing room, leave an opening (MIN 5cm). Under the sauna door (Mechanical ventilation is recommended)

Chart 5 Dimension of sauna heater

