



HELO STEAM GENERATOR

FITTING INSTRUCTIONS

READ INSTRUCTIONS CAREFULLY BEFORE FITTING

LOCATING THE GENERATOR

Choose a suitable location for the generator, in any dry space above or below the level of steam outlet i.e.. in a vanity unit, airing cupboard, adjoining room, loft or cellar, where it is possible to provide suitable water and electrical supplies (See below). The steam feed pipe must be maximin run 5 metres (16ft).

DO NOT FIT THE GENERATOR WITHIN THE STEAM SHOWER.

- NOTE:**
- 1) It is important that there unrestricted access to the generator to facilitate electrical plumbing connection and maintenance.
 - 2) The generator must be fitted in the upright position as indicated on the case.

FIXING THE GENERATOR AND STEAM SUPPLY PIPE

The generator may be floor standing or secured to the wall using suitable screws locating into the key hole slots on the back panel. In hard water areas, where descaling is necessary the generator MUST be wall mounted to provide access to the drain plug in the base (see separate instructions for descaling). The steam feed pipe should be 15mm copper tube. There must be no dips in the steam feed pipe on its route to the steam outlet head as these will collect condensation which may block the pipe. Condensation should be able to run on a downhill gradient from the steam generator to the steam outlet head in the shower/bath enclosure if the generator is mounted above the level of the steam head, or run back to the steam generator on a downhill gradient from the steam head to the generator if the generator is mounted below the level of the steam head.

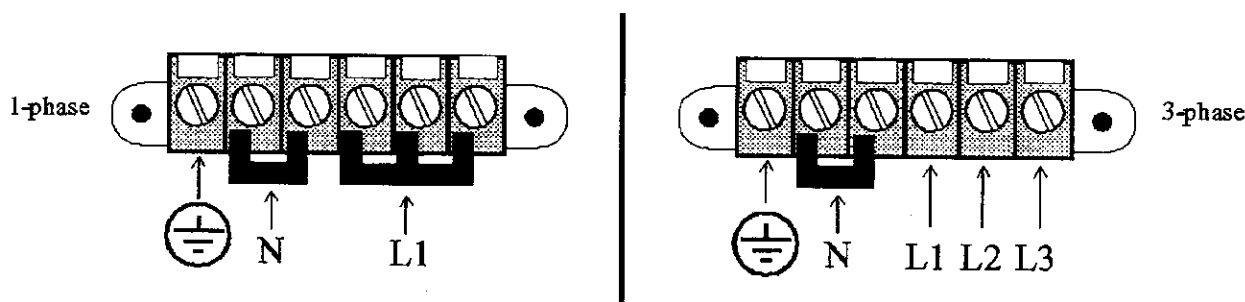
The steam feed pipe should be lagged for safety and to avoid heat loss/condensation.

Electrical Supply

A fused mains electricity supply should be terminated with an isolator adjacent to the steam generator. The supply should be rated according to the generator to be fitted and not less than the following:

Power	230V 1ph	240V 3ph	400V 3ph	415V 3ph
3 kW	13 Amp	13 Amp	5 Amp	5 Amp
4,7kW	21 Amp	20 Amp	7 Amp	7 Amp
6 kW	26 Amp	25 Amp	9 Amp	9 Amp
7,7kW	34 Amp	32 Amp	12 Amp	11 Amp
9.5kW	---	---	15 Amp	15 Amp
12kW	---	---	19 Amp	19 Amp
14kW	---	---	23 Amp	22 Amp

An isolation switch should be fitted in a convenient location outside the bathroom area so that the generator can be switched off when not in use. Remove the vented top plate of the generator and connect into the terminal block as follows:-



Water Supply

Mains to water or a cistern fed supply should be used with a minimum 2m. head.

The supply should be terminated within 1.5 meters of the generator with an isolating valve with threaded connector to take the flexible water feed tube supplied (3/4" BSP). Connect the flexible connector to the nylon water inlet on the end plate of the generator, ensuring that the removable filter is in place in the water inlet.

Note: Use of the flexible hose connector is essential to enable water filter inspection and cleaning.

STEAM OUTLET HEAD

Choose a suitable position for the steam outlet head, where it is least likely to touch the bathers feet or legs. If a folding seat is used the outlet may be placed behind this.

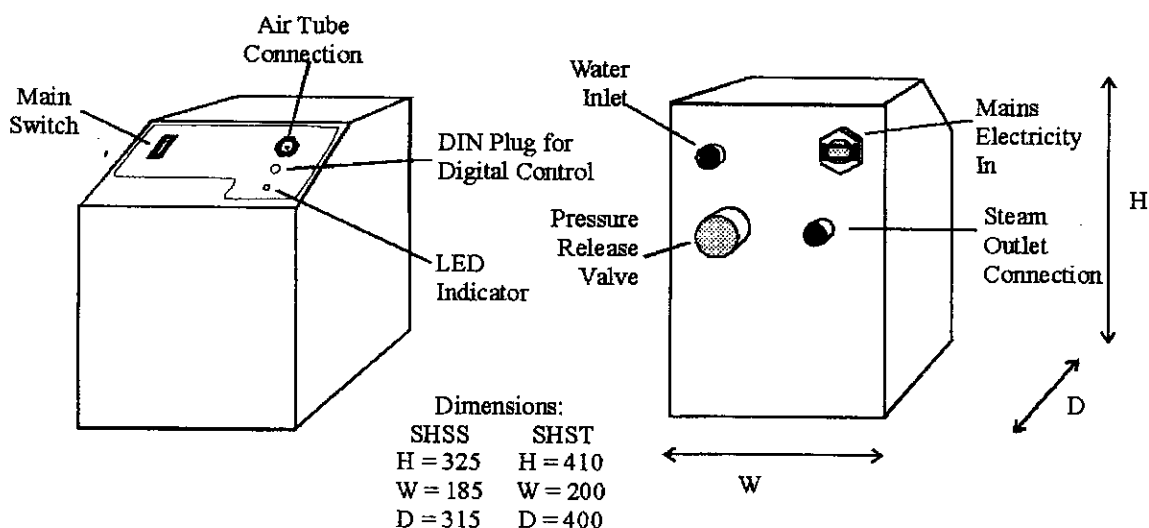
Drill a 25mm diameter hole 300mm above the shower tray or bath top edge, and away from any plastic fittings may be damaged by excessive steam heat. Fit the steam head escutcheon plate onto the smaller diameter of the steam head and fit a 1/2" BSP male-to-compression coupling to the steam head. Secure the steam outlet head in place against the wall with clear silicone rubber, this acts as an adhesive seal. The steam feed pipe can now be connected to the compression fitting on the steam head. Make sure that the dish-shaped essence reservoir in the steam head is level and facing upwards - this will ensure that the steam outlet is pointing downwards and the angle of the outlet will fan the steam back against the wall.

ON/OFF BUTTON AND LED INDICATOR

To fit the on/off button, choose a suitable place on a wall in the steam enclosure such that it may be operated by the bather when seated. Carefully cut a 40mm diameter hole to allow the button to be pushed back into place. Push fit the 1/4" black air tube on to the button steam and then feed the air tube through the hole making sure that there are no kinks in the tube. Push the on/off button fully home in to the 40mm hole and seal with a bead of silicone on the underside of the flange. Route the air tube back to the steam generator ensuring that there are no kinks or blockages, cut off any excess and push fit the end onto the air tube connection on the service panel of the steam generator.

To fit the LED indicator drill a 12mm hole near the on/off button, apply a small amount of silicone to the rear flange of the LED, feed the wire through the hole back to the generator and plug into the socket on the service panel. Push home the black LED holder into the hole and wipe away any excess silicone.

NOTE: It is recommended that the air tube and LED wire are ducted both to protect against damage or heat and facilitate replacement of components if necessary.





NEPTUNE STEAM GENERATOR

USER INSTRUCTIONS

First switch on the mains electricity to the steam generator at the isolator outside the bathroom.

To start the 25 minute cycle push once the on/off button inside the shower enclosure. If you have a thermostatic control with digital readout refer to the separate instruction sheet for its operation.

If you are using essences to add a pleasant aroma to the steam, place a few drops in the groove on the top of the steam outlet - the heat of the steam will evaporate the essence.

Steam will be produced within a few minutes. The time taken to reach a comfortable bathing temperature, depending on the power of the generator and room size, will vary from 15 minutes upwards.

The built in steam cycle is approximately 25 minutes after which time the steam will turn off. If you wish to stop the steam before the cycle is finished press the on/off button to turn off the generator.

To continue producing steam after the 25 minute cycle has finished you should press the on/off button twice to reset the generator - once to turn the generator off and the second time to start a further 25 minute cycle.

When you have finished steam bathing ensure that you press the on/off button once to turn off the generator. You should also turn off the mains isolator outside the bathroom.

The LED indicator will light up while the 25 minutes steam cycle is running.

When you have finished steam bathing take a shower to refresh you - this will condense away any remaining steam.

NEPTUNE COMMERCIAL STEAM GENERATOR DE-SCALING INSTRUCTIONS

We recommend the use of "Teq De-Scale" limescale remover. If using a proprietary brand of de-scalant follow the manufacturers instructions on use – note that the HELO commercial steam generator holds 4.9 litres of water.

HELO commercial steam generators are supplied with a plugged drain outlet in the bottom of the generator which can be fitted with a suitable drain valve to help periodic draining. This valve may be connected to a suitable waste but it may be preferred to drain into an open container so that the evidence of scale build-up can be monitored.

IMPORTANT – Do not allow any water or de-scalant onto the electrical connections or the printed circuit board in the top of the generator. Remove any spillage with a dry cloth immediately. If a cover is placed over the electrics while de-scaling is in operation ensure that this is removed before switching on the isolator to the generator.

- 1) Dilute 5% to 10% "Teq De-Scale" in clean warm/hot water dependant upon the degree of scaling.
- 2) Isolate the power supply from the generator.
- 3) Remove the top plate from the generator.
- 4) Disconnect the spade connectors from the water level sensing probe (this is a round nylon block with three stainless steel rods passing through it into the tank) noting their positions to ensure correct re-connection.
- 5) Unscrew the complete water level sensing probe assembly by turning the nylon block anti-clockwise, and withdraw the probes from the tank. The exposed stainless steel probes may then be manually de-scaled taking care not to damage the insulation.
- 6) Pour the de-scaling solution into the tank through the opening for the probe, using a funnel.
- 7) Allow to stand for 30 to 60 minutes. Do not allow to stand in boiler for more than 1 hour.
- 8) Open the drain valve or remove the plug in the bottom of the generator and flush out with warm water – repeat complete process if necessary.
- 9) Close the drain valve (replace plug) and screw the water level probe back into place. Re-connect the spade connectors.
- 10) Re-connect the power to the generator.

The generator should now be ready for use.

NEPTUNE COMMERCIAL STEAM GENERATOR **USER INSTRUCTIONS**

First switch on the mains electricity to the steam generator at the isolator.

To start the generator push the air button once, the temperature read-out on the thermostatic control should light up and display the temperature inside the steam room.

If this is the first time the generator has been turned on, it will take on water for a short time before starting to heat up, otherwise steam will be produced within a few minutes and the steam bath will reach a comfortable temperature in 10 to 15 minutes depending on the size of the steam room and the generator being used.

When the automatic water feed tops up the water level in the generator there may be a momentary interruption in the delivery of steam, however this does not effect the overall performance of the generator.

To turn off the generator press the air button a second time.

It is recommended that the power supply to the generator be turned off if the generator is not to be used for an extended period or if the premises are left unattended.

Operation of the thermostatic control

To check the temperature which the control has been set at press either of the two buttons. The set temperature will display and may be altered by pressing the up or down button. The display will return to show the temperature in the steam room 5 seconds after releasing the button.

The new set temperature will now be stored in the controller's memory.

Note: The set temperature must be higher than the ambient temperature in the steam room for the generator to operate.

Maintenance of the generator

If the generator is being used in a hard water area it will require periodic de-scaling in accordance with the separate instructions.

Initially it is advisable to check the generator every 6 months to monitor scale build-up and de-scale if necessary.

The water inlet is fitted with an in-line filter which should be checked every 6 months to ensure that the water supply is not restricted.

It is important that no moisture be allowed into the top of the generator where the electrical connections are made and that the printed circuit board is not subject to moisture or stress.

If any unauthorised electrical equipment is connected into the steam generator or changes made to the internal wiring the guarantee will be invalidated.

**ACHTUNG ! NUR DAMPFGENERATOREN MIT
THERMOSICHERUNG.
ATTENTION ! ONLY VALID FOR GENERATORS
WITH THERMO FUSE.**

Teho Power Leistung	Vastus/Element/ Heizstäbe 230V/240V		
kW	1	2	3
3,4	1150W / SEPD 97	1150W / SEPD111	1150W / SEPD 97
4,7	1567W / SEPD 98	1567W / SEPD112	1567W / SEPD 98
6	2000W / SEPD 99	2000W / SEPD113	2000W / SEPD 99
7,7	2567W / SEPD 100	2567W / SEPD114	2567W / SEPD 100
9,5	5250W / SEPD116	3500W / SEPD115	5250W / SEPD 116
12	4250W / SEPD119	3500W / SEPD115	4250W / SEPD 119
14	5250W / SEPD116	3500W / SEPD115	5250W / SEPD 116

1. Termostaatti liitäntä / Ext. thermostat / Thermostatanschl.
2. Merkkivalo 12V DC (led) / Signal light / Signalleuchte
3. Pneum. kaukoohjaus / Pneum.remote control / Pneum. Fernsteuerung.

400V 3N~ / 415V 3N~

230V 1N~ / 240V 1N~

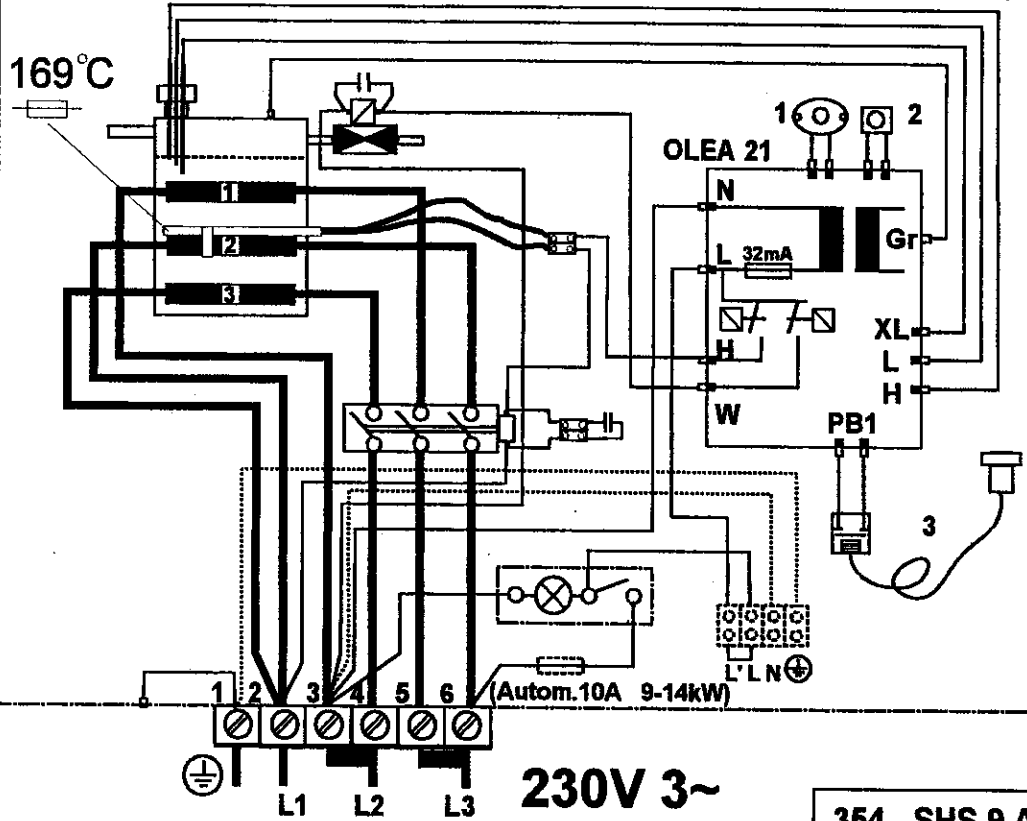
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Teho
Power
Leistung

Vastus/Element/ Heizstäbe 230V/240V

kW	1	2	3
3,4	1160W / SEPD 97	1160W / SEPD111	1160W / SEPD 97
4,7	1667W / SEPD 98	1667W / SEPD112	1667W / SEPD 98
6	2000W / SEPD 99	2000W / SEPD113	2000W / SEPD 99
7,7	2567W / SEPD 100	2567W / SEPD114	2567W / SEPD 100
9,5	5250W / SEPD116	3500W / SEPD115	5250W / SEPD 116
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14	5250W / SEPD116	3500W / SEPD115	5250W / SEPD 116

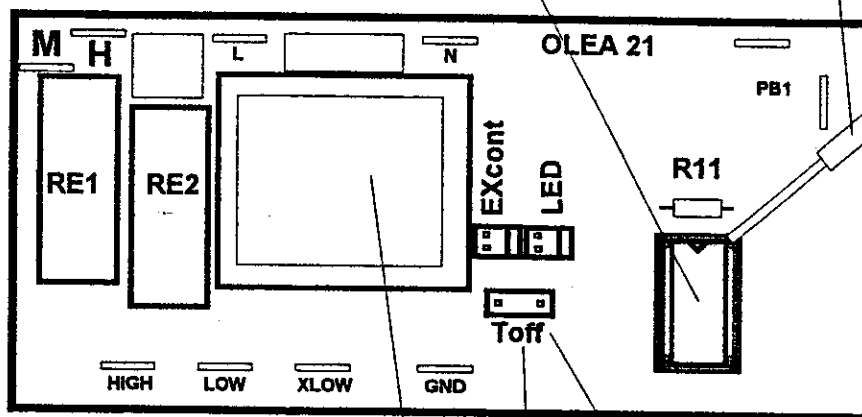
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Instructions on how to disable the 30 min timer in the ..SS and ..ST steam generators.

- Disconnect the mains electricity (remove fuses or switch them to off)
- Open the top cover of the steam generator.
- Lift up the white jumper and place it back so that both pins are covered.
- Remove the timer IC from its socket, otherwise the external signal light will not work properly.
- Replace the top cover.
- Activate fuses.

Lift out this IC from its socket, use pliers or a small screw driver and bend it out.



Timer Jumper

