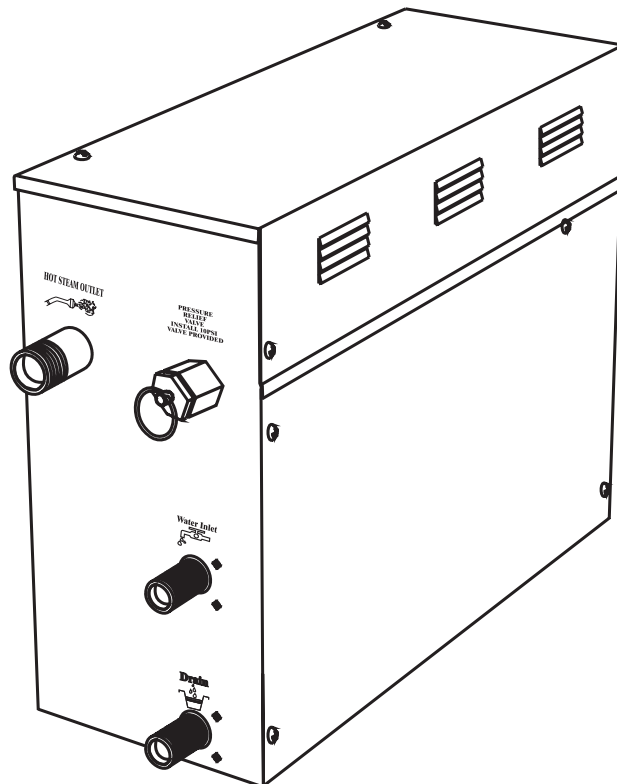


# INSTALLATION AND OPERATING MANUAL

# VIDALUX

## OPERATION & INSTRUCTION MANUAL

Steam Generators (3kW~18kW)



INSTALLERS PLEASE NOTE, THESE  
INSTRUCTIONS ARE TO BE LEFT WITH  
THE CUSTOMER

Technical Support: 01524 489939

Warranty Claims Or Delivery Damage: [www.Vidalux.co.uk](http://www.Vidalux.co.uk)

# VIDALUX CLEAR & BRIGHT WATER SOFTENER

Guaranteed to get rid of limescale

Live in a hard water area?? Limescale in the kettle and on bathroom fixtures?? Suffering from unknown adverse health effects from this polluted drinking water??

If you have a generator becomes blocked with limescale and stops working THIS IS NOT COVERED BY THE WARRANTY, as in reality it is not the products fault, it's the poor quality water it has been subjected to

GOOD NEWS - Designed in partnership with one of the UK's largest and most trusted water softener manufacturers, this sleek, easy fit model is GUARANTEED to work or your money back!! Remove all the limescale in a 1-4 bedroom home and benefit from the following

Better tasting drinking water - Easy to install - Guaranteed to work or your money back  
No plumbing or chemicals – Cost as little as £2.00 a year to run and the improved condition of the water pipes will reduce your heating bills - Made in the U.K - Trialled and tested Over 10 years | Used by professionals



# IMPORTANT NOTICE

Before you proceed with fitting your Vidalux Generator please read and understand the following:

By commencing testing and installation of the unit you are agreeing to the Terms and Conditions set out by us: copies of which are available by contacting us by email or by telephone (details on the cover of this manual).

You are required to ensure the purchased product is suitable to the dimensions of the steam room and its construction

Regarding the design and building materials of the room you should seek the advice of a professional builder - **Steam must be prevented from escaping into the wall cavity. Failure to do so will cause water damage**

1. It is important that you ensure that your purchase has been delivered undamaged. You are required to check the contents and report any damage that you feel needs repairing or replacing within 48hrs of receipt of goods. Items reported damaged after this time WILL be chargeable.
2. The product you have purchased is designed for professional fitting. You are required by law and by our Terms and Conditions to get it installed by a qualified Part electrician. Failure to provide evidence of this will void the relating product warranty and could cause a danger towards life
3. We are a supply only company. If you report to us any damage we will send replacements or solutions to remedy the problem described. We endeavor to fully understand the problem first by asking a series of questions and then propose the solution. We may even ask for digital images to be sent via email to assist the process. The warranty is parts only and does NOT include fitting/inconvenience or other related costs.
4. You are required to ensure that you correctly water test the item and that the fitter fully tests the unit upon completion and attends to any leaks and faults before he leaves.
5. **All hoses, such as the valve assembly, steam outputs and hoses are pre-fitted for transport purposes and need to be properly sealed and tightened before use.** During transportation some connections can become dislodged and therefore break any watertight seal, you are required to ensure that your fitter specifically tests for these possible occurrences and seal/fix accordingly.
6. **Do not book fitting until you have inspected the unit. We cannot be held responsible for delays and costs incurred by having to return to fit parts that need supplying.**
7. We cannot be held liable for inconvenience caused due to lack of bathing facilities caused by any delay in receiving your product or whilst awaiting parts.
8. Regarding our sales and technical support: We know our products and their requirements, but we are not qualified plumbers or electricians and accept no liability for claims suggesting the same. You are advised to check the suitability of the product with a professional body. It is the customer responsibility to ensure the product is fit for purpose.
9. A 'Completion Certificate' is included at the end of the manual where you should record the details of your installers - you will need this to record your warranty on our website. You MUST register the product warranty within 90 days following delivery

You MUST read all the safety advice within this booklet until you are sure to fully understand each point and the full aspect of the steam unit and sauna use.

## Prologue

Thankyou for choosing the Vidalux range of luxury steam generators. Taking safety first, our range contains a overheat/dry-burnout protection system and a security valve to prevent overheating and to assure the functioning of the steam generator at regular air pressure. Convenient installation, healthy and comfortable, our range is a top grade sauna system for the modern family home, a hotel, spa or gym. Sauna use is noted for its noticeable effects on pain relief, weight control, skin beautification and stress reduction due to increased blood circulation. We're sure that you'll love our sauna range and it will treat you well for year to come. The series includes 9 types of generators with various output powers

## Users instructions



The steam units are covered by the warranty for a period as advertised with the item, however we cannot be liable for malfunctioning or damage occuring from failure to follow these instructions herein

Before Install:

1. Please ensure the model, the Voltage and KW output is correct for the room, its cubic space and construction. Please refer to our chart within this manual
2. Make sure all accessories and items are present and counted

## CAUTION - WARNING



In accordance to law, all wiring **MUST** be completed by a licensed electrical " part P " certified contractor, not doing so will void the warranty and will present a danger to life

There are no serviceable parts within this steam unit series. Opening the unit **MUST** be avoided at all cost as the danger of electric shock and serious injury is high

Unit must be located as to allow access for service.



## ATTENTION - MUST READ!!!!

You **MUST** Electrically ground your Vidalux Steam Generator

All electrical supplies **MUST** be disconnected when servicing the generator

Hard water and calcium build up will cause damage to the steam generator. Water issues must be dealt with before the water reaches the generator. Water condition issues are not covered by the warranty

All generators are intended for indoor use only.

You **MUST** insolate any pipes to prevent from freezing and user contact.

Generator **MUST** be accessible for future servicing

The generator **MUST** be fitted completely level

You **MUST** avoid traps or bends in the steam outlet pipe where water could 'pool' and cause a blockage. Centering the steam pipe is critical in rooms made of plastic, acrylic, resin, fiberglass or similar materials. Allowing the steam pipes to touch materials not rated for 212 degrees Fahrenheit or higher will result in damage to these materials.

Do not install the steam outlet near bench(es) or seating, where steam may spray or where condensation will drip on the user as this will present a scald hazard.

The steam pipe entry and any other entry into the steam room must be caulked to avoid damage caused by steam leakage into the wall.

# IMPORTANT NOTICE

## COMMERCIAL INSTALLATION??

PLEASE NOTE: A "POST WARNING" usage notice MUST be displayed clearly on the door for all users to view to comply with health and safety legislation. Vidaluz pass all liability for commercial usage onto the purchasing party.

## READ ME FIRST!

All information in these instructions is based on the latest product information available at the time of publication. Sussman-Automatic Corporation reserves the right to make changes at any time without notice.

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

## IMPORTANT SAFETY INSTRUCTIONS

## SAVE THESE INSTRUCTIONS

## READ AND FOLLOW ALL INSTRUCTIONS

Do not permit children under the age of 16 to use the steam room.

The wet surfaces of steam enclosures may be slippery. Use care when entering or leaving

The steam head is hot. Do not touch the steam head and avoid the steam directly near the head

Prolonged use of the steam system can raise excessively the internal human body temperature and impair the body's ability to regulate its internal temperature (hyperthermia). Limit your use of steam to 10-15 minutes until you are certain of your body's reaction.

Excessive temperatures have a high potential for causing fetal damage during the early months of pregnancy. Pregnancy or possibly pregnant women should consult a physician regarding correct exposure.

Persons that might be considered obese or overweight and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a doctor before using a steam room.

Persons using medication should consult a physician before using a steam room since some medication may induce drowsiness while other medications may affect heart rate, blood pressure and circulation.

**⚠ WARNING**

**REDUCE THE RISK OF OVERHEATING AND SCALDING**

1. Exit immediately if uncomfortable, dizzy or sleepy. Staying too long in a heated area is capable of causing overheating.
2. Children under the age of 16 should not use the steam bath.
3. Check with a doctor before use if pregnant, diabetic, in poor health or under medical care.
4. Breathing heated air in conjunction with consumption of alcohol, drugs or medication is capable of causing unconsciousness.
5. Do not contact steam head or steam at the steam head.

**REDUCE THE RISK OF SLIPPING AND FALL INJURY**

Use care when entering or exiting the steam room. Floor may be slippery.  
Note: For additional safety considerations see owner's manual.

**HYPERTHERMIA** occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6° F. The symptoms of hyperthermia include dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include:

Failure to perceive heat - Failure to recognize the need to exit the steambath - Unawareness of impending risk - Fetal damage in pregnant women - Physical inability to exit the steambath - Unconsciousness.



The use of alcohol, drugs, or medication can greatly increase the risk of hyperthermia. You **MUST NOT** use a steam room if under heavy influence of either

an example warning card can be seen here. This placard is an essential part of providing a safe environment for steam room users. A placard like this **MUST** be mounted on the wall of the shower or steam enclosure, at a point visible to all users. Failure to mount this placard may result in serious injury or death.

## CHOOSING YOUR MODEL

The guidelines for selecting the steam generator is a recommendation only. Because of variables in construction, these sizing instructions and specifications should be considered as a guidelines only. We are not liable of responsible for claims relating to responsibility for the sizing of a model selected.

Materials of construction, room size and special design features such as large glass areas, all affect the steam generator model selection.	
1. Measure length, width & height in feet of the steam/shower or tub/shower	
Multiply the Length ____ x Width ____ x Height ____ = ROOM VOLUME	
2. Construction Materials:	
For natural stones: natural marble, stone, shale, glass block or concrete	Add 110%
For ceramic or porcelain tile on cement board or mortar bed	Add 40%
For steam rooms constructed of acrylic or synthetic materials	Add 10%
3. Ceiling Height: For each foot above 8 feet Add 15%	
4. Add all figures above to obtain the Total Room Volume required - M2	TOTAL ADJUSTED ROOM VOLUME



When considering purchasing a steam bath system, please note that if users are pregnant, have a coronary condition, are in poor health, are being treated for any other medical condition, or are using medication or drugs, Vidalux recommends that you obtain the approval of their doctor before use. For information about this product and safety issues, please call us at 0871 526 5926 or log onto [www.Vidalux.co.uk](http://www.Vidalux.co.uk)

### IMPORTANT NOTES:

The total adjusted room volume allows for up to 6 meters of insulated steam line from the generator to the steam room. When locating the steam generator consideration of the control and temperature probe must be taken into account. The maximum length for a control panel cable is 2 meters (extension available). The maximum length of the temperature probe cable is 2 meters.

Compare your TOTAL ADJUSTED ROOM VOLUME to the Specification Chart below and select the appropriate model.

## Technical parameter

Power Output	3kW	4.5kW	6kW	7.5kW	9kW	10.5kW	12kW	15kW	18kW
Potency Error	±10%	±10%	±10%	±10%	±10%	±10%	±10%	±10%	±10%
Duration	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V
Resistance	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ
Steam Pressure	0.12MPa	0.12MPa	0.14MPa	0.14MPa	0.14MPa	0.16MPa	0.16MPa	0.16MPa	0.16MPa
Steam Volume (ml/min)	140	160	180	220	260	300	360	450	500
Steam Production Time (S)	100-150	90-120	100-160	90-140	80-130	180-240	150-160	120-150	90-150
Water Tank Volume	2.5L	2.5L	5.7L	5.7L	5.7L	12L	12L	12L	12L
Applicable space of the room (m2)	2 - 4.5	4~7	5~8	7~9	10~12	12~14	14~16	18~20	20~24



### Important:

The parameters listed in the table above and below will vary from different place due to construction and ambient temperature. Please consultate a qualificatory designer and architect for the more detailed specification of your needs.

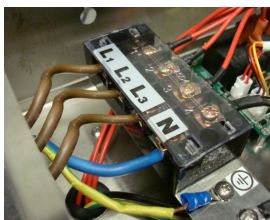
## Room Specification

Type	Steamroom Area M2	Electricity	Max. Electric	Specifications for power wire
3kW	2 - 4.5	220-240V~(1PH)	13.7A	12# or 2.0mm <sup>2</sup>
4.5kW	4 - 7	220-240V~(1PH)	20.5A	12# or 4.0mm <sup>2</sup>
6kW	5 - 8	220-240V~(1PH/2PH)	27.3A	10# or 6.0mm <sup>2</sup>
		208V~ (3PH)	16.7A	12# or 4.0mm <sup>2</sup>
				12# or 2.0mm <sup>2</sup>
7.5kW	7~9	220-240V~(1PH/2PH)	34A	8# or 6.0mm <sup>2</sup>
		208V~ (3PH)	21A	10# or 4.0mm <sup>2</sup>
		380-415V~ (3PH)	11.4A	12# or 2.0mm <sup>2</sup>
9kW	10~12	220-240V~(1PH/2PH)	41A	8# or 8.0mm <sup>2</sup>
		208V~ (3PH)	25A	12# or 4.0mm <sup>2</sup>
				12# or 2.0mm <sup>2</sup>
10.5kW	12~14	220-240V~(1PH/2PH)	48A	8# or 8.0mm <sup>2</sup>
		208V~ (3PH)	29A	8# or 6.0mm <sup>2</sup>
		380-415V~ (3PH)	16A	12# or 4.0mm <sup>2</sup>
12kW	14~16	220-240V~(1PH/2PH)	55A	6# or 10.0mm <sup>2</sup>
		208V~ (3PH)	33.3A	8# or 6.0mm <sup>2</sup>
		380-415V~ (3PH)	18.2A	12# or 4.0mm <sup>2</sup>
15kW	18~20	208V~ (3PH)	42A	6# or 8.0mm <sup>2</sup>
		380-415V~ (3PH)	22.8A	12# or 4.0mm <sup>2</sup>
18kW	20~24	208V~ (3PH)	50A	6# or 10.0mm <sup>2</sup>
		380-415V~ (3PH)	27.3A	10# or 6.0mm <sup>2</sup>

The data provided is are for 220-240V(1P H/2PH) , 208V(3PH) and 380-415V

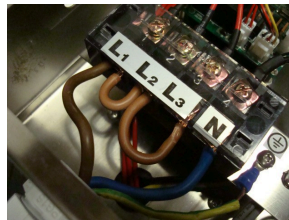
**Note the 15 and 18KW only function on 3 Phase supply**

### 3 Phase 380v



Connect 3 x live wires in to (L1) then (L2) and (L3). Connect the 1 neutral Cable in to position (N) & finally 1 x Earth Cable to the earth screw on the plate.

### Single Phase 220/240v



Connect 1 x live wire in to (L1) then bridge (L1+L2) and (L2 + L3) as show in the picture above. Connect the 1 neutral Cable in to position (N) & finally 1 x Earth Cable to the earth screw on the plate.

Within eyeshot of the steam room,you should install an independent circuit breaker - You MUST consult aan electrician before fitting or purchasing


**Important:** The calculation formula for selecting the size of steam engine is for reference only. Due to the variability of the building, the specifications and size illustrations here are to be used as guidelines only. Vidalux cannot be responsible for claims raised from a failure to pay due diligence and seek professional guidance to the correct size steam system.

## Steam Room Design Basics (For Reference Only)


1. Steam room must be completely enclosed, with full, complete walls, door, floor and ceiling.
2. It is recommended that a gasketed door that is vapor proof and is used for steam containment.
3. If tile-type or other smooth surfaced flooring is used provide suitable anti-skid strips or equivalent, to prevent a slipping hazard.
4. Check the suitability of any materials with the manufacturer. Walls and ceilings must be constructed of water-resistant, non-corrosive surface, such as tile, marble, molded acrylic, or other non-porous material.  
**Tip:** Ask your local supplier for proper vapor barrier to install before tiling over walls, ceiling and floor. It is recommended to use a single, large sheet that will cover ceiling and walls with 1 piece (less seams is better).
5. The ceiling should be sloped to prevent dripping of condensate. The ideal ceiling height is 7' as this will help prevent temperature variations in the room. We recommend going no higher than 8'. If the ceiling has to be higher than 8' you may not get a good 'temperature spread' for a single steam generator or a much higher rated generator would need to be purchased
6. Provide a floor drain in the center of the room.
7. No heating, venting or air conditioning devices should be installed inside the steam room.
8. Windows that are part of the steam room should be double paned and tempered safety glass.
9. Do not install the steam outlet near bench(es) or seating, where steam may spray or where condensation will drip on the user as this will present a scald hazard.
10. The steam pipe entry and any other entry into the steam room must be caulked to avoid damage caused by steam leakage into the wall.
11. Length for control panel cable is 2 meters (extensions available). Length of the temperature probe cable is 1.7 meters.
12. You may wish to install an extractor fan inside the steam room to rid any excess(ive) steam

### STEAM GENERATOR BASICS:

- 1 You **MUST** insulate any pipes to prevent from freezing and user contact.
2. Generator **MUST** be accessible for future servicing. and **MUST NOT** be installed inside the steam room itself. Common locations include, a bespoke cabinet outside the room, a nearby closet, basement or attic. 3.. The generator **MUST** be fitted completely level
4. You **MUST** avoid traps or bends in the steam outlet pipe where water could 'pool' and cause a blockage.
5. Centering the steam pipe is critical in rooms made of plastic, acrylic, resin, fiberglass or similar materials.
6. Allowing the steam pipes to touch materials not rated for 212 degrees Fahrenheit or higher will result in damage to these materials.
7. Steam generator system will need to easily be accessible for occasional maintenance and should not be exposed to freezing temperatures.
8. You **MUST** allow at least 20cm space, minimum on both sides and the top of the steam generator

 **WARNING** Never use damaged equipment, doing so may result in an inoperative or hazardous installation. Discontinue use of the steam generator and control if the steam generator or control are damaged or otherwise not functioning properly. Doing so may result in an inoperative or hazardous installation

**ELECTRICAL SHOCK HAZARD.** Vidalux steam generators are connected to 240V line voltage and contain live electrical components. All installation and service to be performed only by qualified and licensed electricians and plumbers. Installation or service by unqualified persons or failure to use Vidalux parts may result in property damage or in a hazardous condition. Do Not alter or modify any Vidalux product. Doing so may result in an inoperable or hazardous installation and will void the warranty

 **CAUTION** If acrylic, fiberglass or other non-heat resistant materials are used as part of the steam room enclosure. Consult with the material manufacture and see pg. 6, "Installing the Steamhead" for additional details.

The following general information should be used in conjunction with consultations with an architect, designer and contractor in determining factors necessary in providing a suitable and safe steam room.

In accordance to law, all wiring **MUST** be completed by a licensed electrical "part P" certified contractor, not doing so will void the warranty and will present a danger to life. There are no serviceable parts within this steam unit series. Opening the unit **MUST** be avoided at all cost as the danger of electric shock and serious injury is high

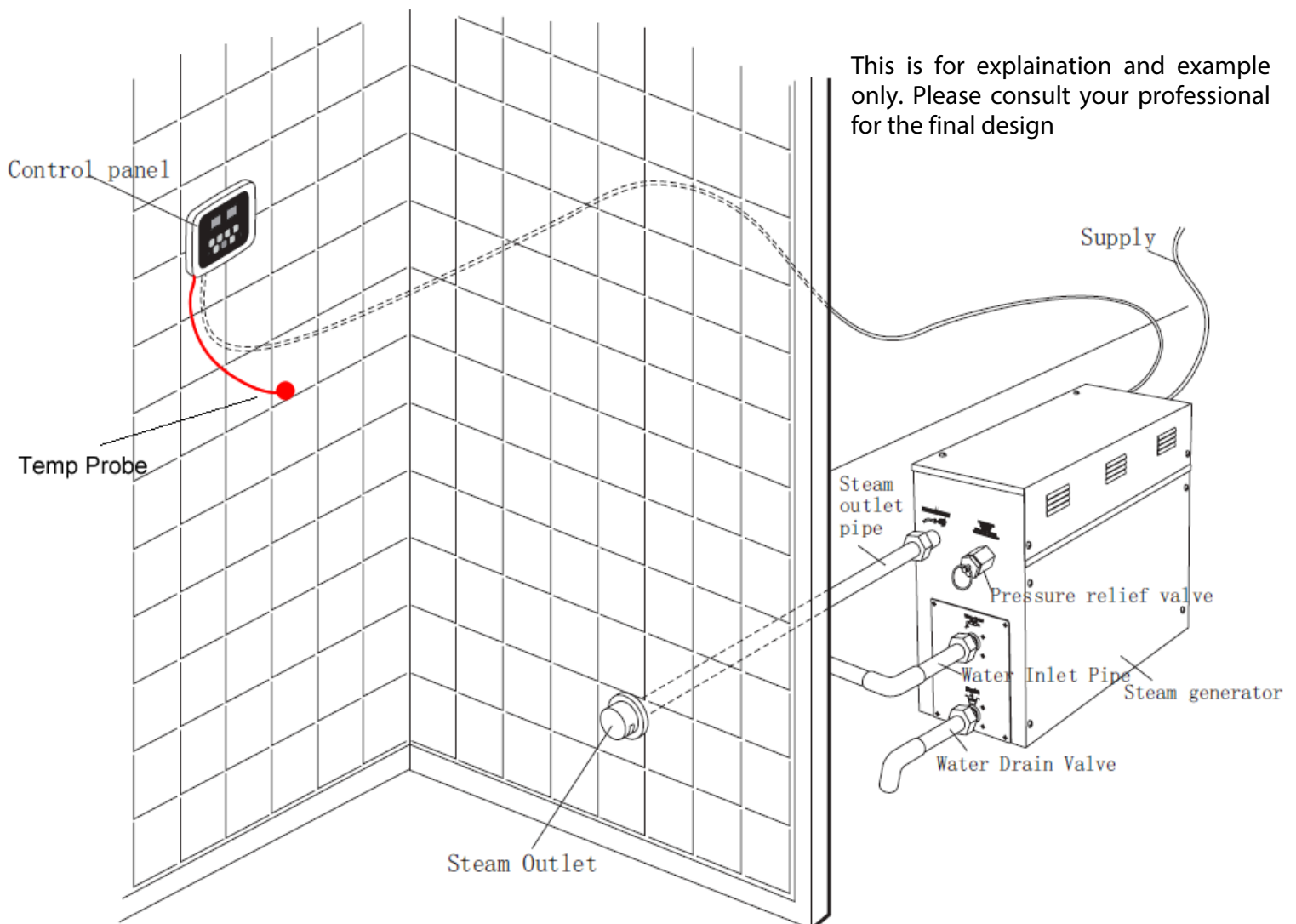


## Choosing A Location

**IMPORTANT NOTE:** The control cables should be run in dedicated 1" conduit to facilitate installation and service. Select a location as near as practical to the steam room. Typical locations include: closet, vanity cabinet, heated attic or basement.

1. The distance to the steam room needs to be less than 6m. The steam line should slope away from the generator to allow condensation to drain or a drain valve should be fitted. Slope steam line 1/4" per foot towards steam head
2. The steam generator should not be installed directly inside the steam room
3. Not installed outdoor or in any places that will influence the running of the machine by the environment, for example environments that could be considered cold or hot
4. Do not install it the generator near a burnable and caustic object or chemicals.
- 5 The generator MUST be set stable and horizontal. The steam generator has a hanging groove to allow it to be wall mounted. The generator can also sit on a solid base.
6. You MUST allow at least 20cm space, minimum on both sides and the top of the steam generator
7. The steam pipe, safty valve, drain valve, water pipe, steam outlet and otherwise will be extremely hot for some time after the steam generator has been in use. You must take some measures and precautions against this, for example, using a heat insulation tube on the steam outlet pipe, user warning signs and installing in an 'out of eyesight' location

## Typical Steam Room Installation



## Installation Of The Generator

Vidalux steam generators can be wall hung or sit on a secure, flat base. The best locations will satisfy all or most of the following:

1. The steam line should slope away from the generator to allow condensation to drain or a drain valve should be fitted. Slope steam line 1/4" per foot towards steam head
2. The steam line should be less than twenty feet long. Ten feet is preferred. Steam lines should be insulated.
- 3 The mounting location should minimize the number of bends and elbows in the steam pipe. You should have no 'U's that will pocket water
4. The generator should be installed in a dry, well ventilated area. Suggested locations are under a vanity, in a closet, attic, crawl space or basement.
5. The location should provide clearance for service and drainage
6. The generator must be mounted in a minimum 7 cubic foot space.
7. The generator should not be mounted in an area subject to freezing. The mounting location should allow for a drainage connection

### Wall Mounting:

1. Note the location of the mounting holes on the back of the generator. The screws must set directly into studs or equivalent supports.
2. Tighten the screws. Replace the front cover. Secure the front cover with six screws.

### Very important!

The steam generator MUST be installed to allow air circulation on all 4 sides with a minimum gap of 20cm's on the two main sides and top.

### Floor Mounting:

In general the width of the unit allows it to sit on a shelf, across the ceiling joists or on a floor. The generator must be restrained from moving. Normally the piping will provide adequate support. If not, additional support must be provided.

All floor installed generators must have provision for routine draining of the tank. This pipe to the waste and to the steam output should be all on 'fall' to allow the water to run towards the drain

**IMPORTANT!** Regular maintenance will help your steamer work properly for a long time. Check for leaks, loose or damaged wires, signs of corrosion and calcium build up in the tank. This is particularly important in areas with high calcium levels and other water quality problems. Calcium build can cause poor steamer performance and damage the heating elements!

### WARNING

You MUST Electrically ground your Vidalux Steam Generator

All electrical supplies MUST be disconnected when servicing the generator

Hard water and calcium build up will cause damage to the steam generator. Water issues must be dealt with before the water reaches the generator. Water condition issues are not covered by the warranty

All generators are intended for indoor use only.

You MUST insulate any pipes to prevent from freezing and user contact

Generator MUST be accessible for future servicing  
The generator MUST be fitted completely level

You MUST avoid traps or bends in the steam outlet pipe where water could 'pool' and cause a blockage.

Centering the steam pipe is critical in rooms made of plastic, acrylic, resin, fiberglass or similar materials.

Allowing the steam pipes to touch materials not rated for 212 degrees Fahrenheit or higher will result in damage to these materials.

Do not install the steam outlet near bench(es) or seating, where steam may spray or where condensation will drip on the user as this will present a scald hazard. The steam pipe entry and any other entry into the steam room must be caulked to avoid damage caused by steam leakage into the wall.

## Installation Of The Generator

**WARNING** In accordance to law, all wiring **MUST** be completed by a licensed electrical "part P" certified contractor, not doing so will void the warranty and will present a danger to life. All plumbing works should be carried out by a professional and conform with local & national codes.

### Plumbing

Use unions on all pipe connections.  
Use only brass piping or rigid copper tubing as permitted **Do not** use black, galvanized, PVC, or PEX pipe.

#### Water Supply (15mm pipe)

1. Connect to cold water line.
2. Provide a shut off valve in the water supply line upstream of the generator. **IMPORTANT** The shut off should ideally be located near the generator, however if location is difficult for a user to access, the shut-off should be located where it can be quickly accessed in an emergency.
3. Flush inlet water line thoroughly before making connection to unit

#### IMPORTANT

For best performance water pressure should be 15 to 20 psi. Reduce pressure as required. Maximum **MUST NOT** exceed 60 psi

### Materials Required:

- 15mm copper pipe for the water supply to the generator.
- 15mm water supply shut-off valve.
- 22mm x 3/4 or 1/2" (depending on model) male connector
- 22mm x 3/4 or 1/2" (depending on model) female connector
- 15mm or 22mm copper pipe (depending on model) for the feed from the steam generator outlet and the steam room.
- Pipe compound.
- MISC. 90 or 45 degree copper bend(s), couplings. dependants on the exact requirements of the room setup and feeds to and from the generator.

#### **WARNING** **HARD WATER AREA??**

If you live in a hard water area and are subjected to calcium build up, imagine the damage that is going to do to the steam generator! If the product fails due to calcium build up, that's not the product's fault and is not covered by warranty, GET A WATER SOFTENER

### Steam Pipe 3kW/4.5kW pipe size 15mm 6kw & above 22mm

1. Do not install any valve in steam line. Flow of steam must be unobstructed.
2. At the generator: Install the Male connector directly on to the steam tank.
3. Slope steam line 1/4" per foot towards steam head or steam generator on a constant to avoid water pooling
4. Insulate steam line with fiberglass pipe insulation or similar insulation rated 212° F or higher.

#### IMPORTANT NOTES:

Running the steam line down and then up will create a steam trap blocking the flow of steam.

### Safety Valve

The safety valve is a piece of safety equipment in order to prevent too much steam pressure in the interior of the unit. The pressure limit range of the safety valve is 15PSI. Where permitted by local codes, provide an outlet plumbing connection for safety valve in the case it ever discharges.

### Steam Outlet 3kW/4.5kW pipe size 15mm 6kw & above 22mm

1. Install the steam nozzle in the position which will not easily splash or scald the user.
2. Locate steam outlet, 6-12 inches above floor, except for: Tub/shower enclosures, install 6 inches above tub top edge. Consult with supplier of acrylic, fiberglass and other non-heat resistant enclosures for recommended steamhead location. If the steam room adopts materials like acrylic or non-heat-resistant sheet, install additional heat insulator.
3. Apply silicone to the finished wall side of the steam head insulator and screw on hand tight until it is flush with the wall with the opening pointing down. If a hand tight fit does not align with the opening pointing down, use PTFE tape on the steam line threads to adjust the fit.

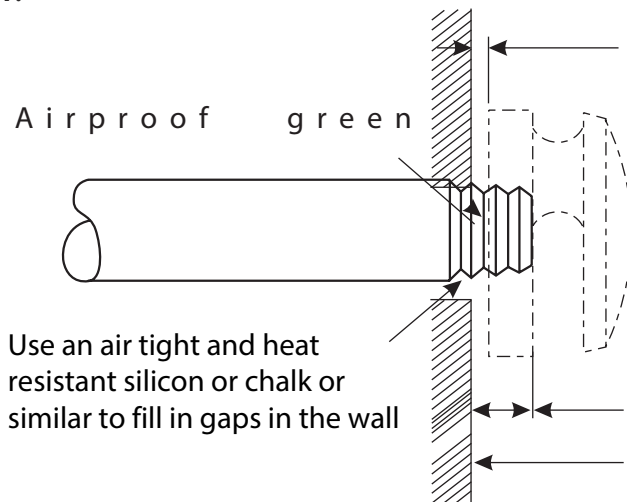
#### IMPORTANT NOTES:

A 40mm hole in the steam room is required to mount the steam outlet inside the steam room. Centre the copper steam pipe in the 40mm hole. Terminate the steam line with a suitable x 3/4" female connector.

## IMPORTANT NOTES:

Check all of the standard fixtures in the steam room. All fixture penetrations must be sealed with 100% silicon caulk to avoid moisture damage within walls.

## STEAM OUTLET:



If a non heat-resistant material like acrylic is used for the wall, you should reserve a gap and/or use a heat resistance 'plate' between the outlet and wall

Use an air tight and heat resistant silicon or chalk or similar to fill in gaps in the wall

Inside wall in the

## Drain

Provide a drain line connection from steambath generator drain valve according to National and local Codes. Check local plumbing code for receptor, trap and vent requirements. Do not connect Drain line and Safety Valve line together. Unit drains by gravity. Do NOT connect the drain valve to the steam line.

### IMPORTANT NOTES:

As the unit drains via gravity. The drain pie must decline away from the generator into the waste

## Temperature Probe Cable length is 1.7m

It is recommended that the sensor be mounted 3/4 the way up in the middle of the room and no further than the length of cable supplied (1.7 meters), Never cut the cable to increase the length as this will damage the operation of the unit and is not covered under your terms of warranty. Never install it directly over the steam dispersion head. String the sensor cable from the sensor location through 10mm holes in the wall studs or ceiling joists to the generator location. Leave 3- 4" of slack at the sensor location. Note: Do not staple through.

## Control Panel Installation Cable length 2m- Extension available

The low voltage control panel can be mounted directly to a finished wall either inside or outside the steam room. locate your desired position, mark and cut out the area ensuring you have a nice smooth finish to house control panel. Finally run a bead of silicone around the perimeter on the back to secure. Once the silicone is cured apply some to the front of the control housing around where it meets the wall and in any areas behind where the cable housing goes through the cavity wall.

### IMPORTANT NOTES:

When you connect the male lead from the control panel to the female lead from the electric box , you MUST ensure you align the arrows on the connectors. Failure to do this will result in bending the connector pins and the unit will be non-operational and a new panel will be required. These are not replaced under warranty.

## Water Quality Information

For optimum results, the water supply should be tested prior to installation. If the mineral content exceeds the following recommended limits, various external treatment processes are recommended to correct the problem.

**NOTE:** An analysis of the on-site water must be made by a recognized and reliable water treatment company to ascertain the existing condition and treatment required.

Poor water quality can affect efficiency or result in steam generator damage. Water contains impurities in solution and suspension. These impurities concentrate in the generator. The concentration of these impurities increases as more feedwater is introduced into the generator and steam is produced. If the suspended solids are allowed to concentrate beyond certain limits, a deposit or "scale" will form on the generator internal

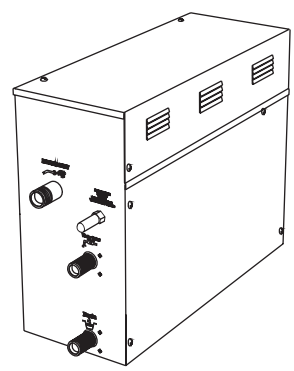
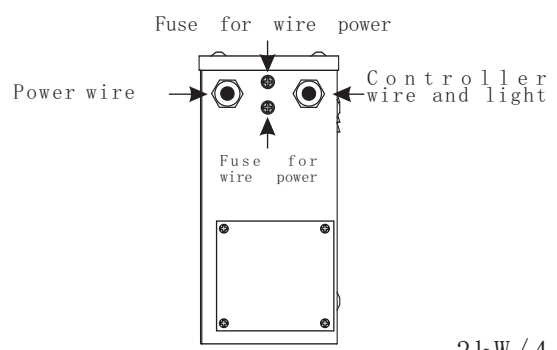
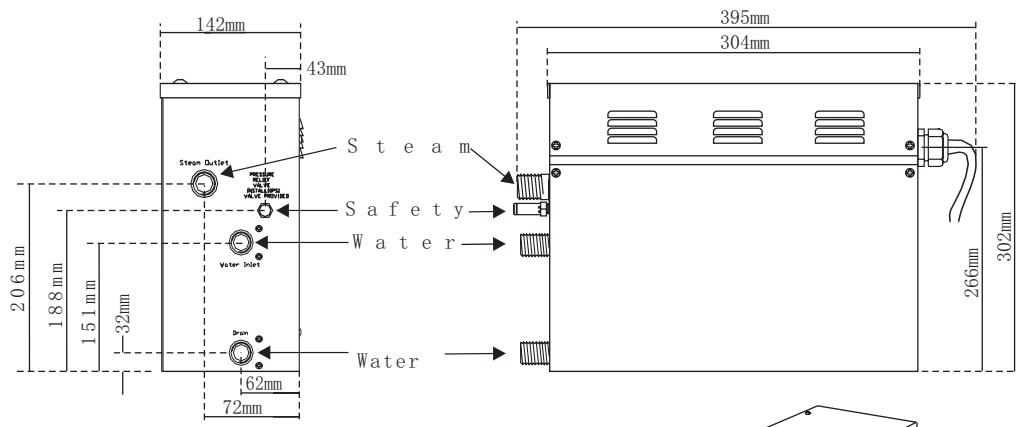
surfaces. This damage to the generator is not covered by the product warranty

### RECOMMENDED FEEDWATER QUALITY

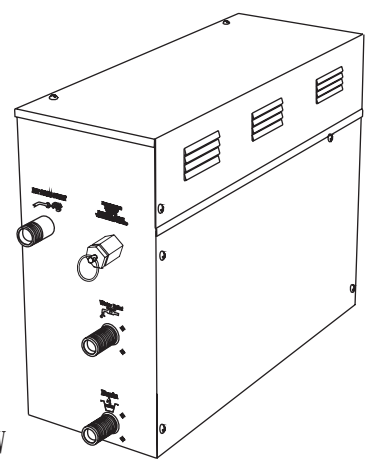
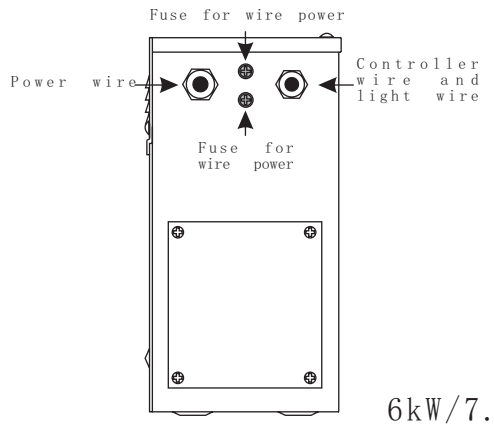
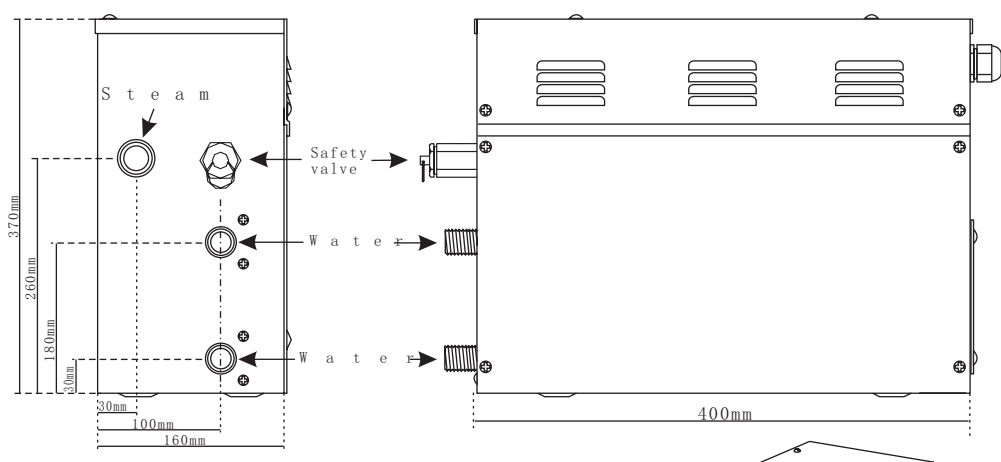
Hardness, ppm 8 – 85 (~0.5 – 5 gpg)  
P-Alkalinity, ppm 85 – 410 (~5 – 24 gpg)  
T. Alkalinity, ppm 200 – 500 (~7 – 0 gpg)  
pH (strength of alkalinity) 8.0 – 11.4

The System automatically drains the generator following each use. A time delay allows the water to cool down before it drains

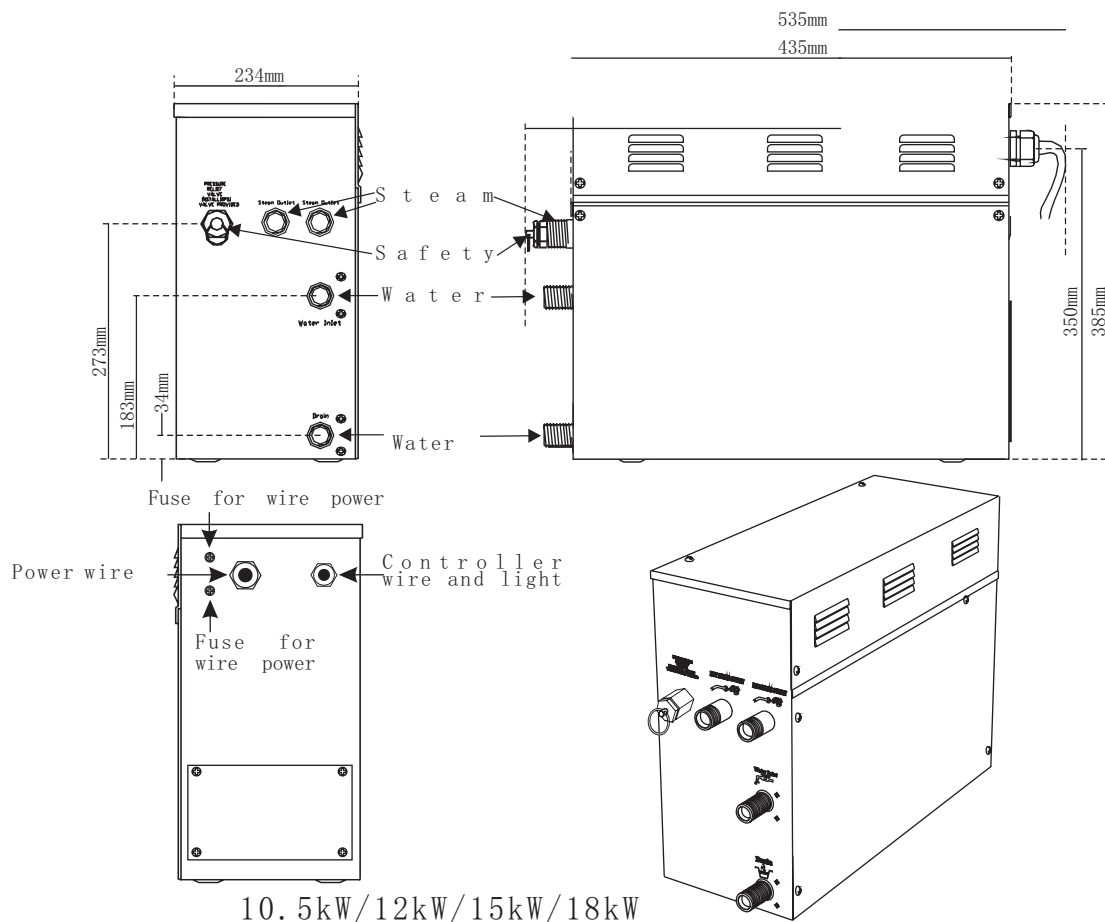
# Blueprint for the steam engine



3kW/4.5kW



6kW/7.5kW/9kW



**Attention:**

All connections **MUST** be carried out by an approved part P electrician and a minor works certificate **MUST** be issued upon completion. This product is **NOT** designed for a DIY install and improper installation could be fatal. Safety to your health is paramount - Do not risk it

**ELECTRICAL INSTALLATION**

Please use correct size and type to meet electrical codes. Connect the generator to a dedicated circuit breaker. Insulated copper wire should be used. All electrics and the generator **MUST** be grounded **ELECTRICAL FINISH**

- A. Route the supply wire through the hole marked POWER.
- B. Connect the supply wires to relevant terminals marked L1, L2 & L3 and N. Please see the following diagrams
- C. Connect the ground to the ground screw marked accordingly.

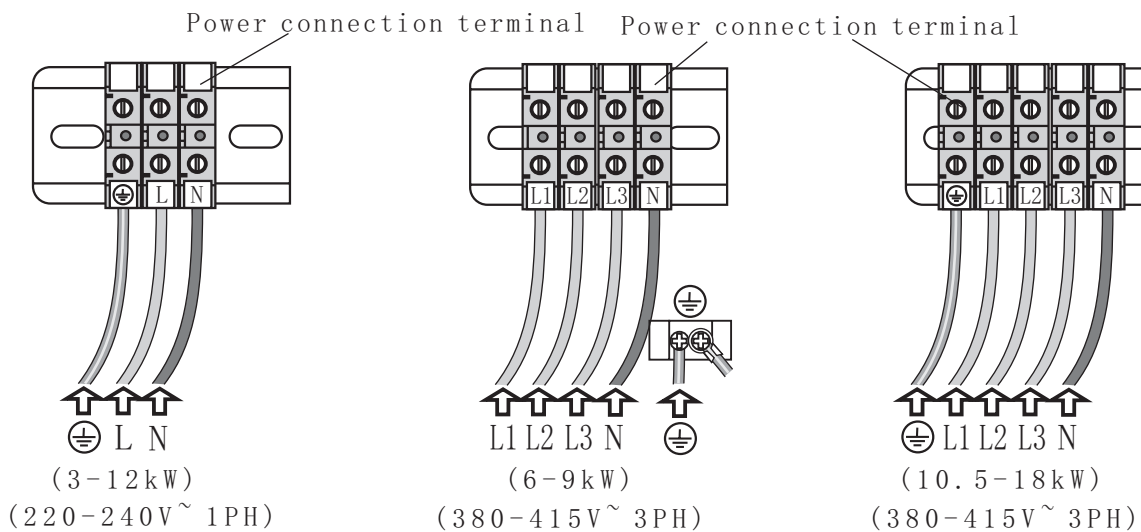
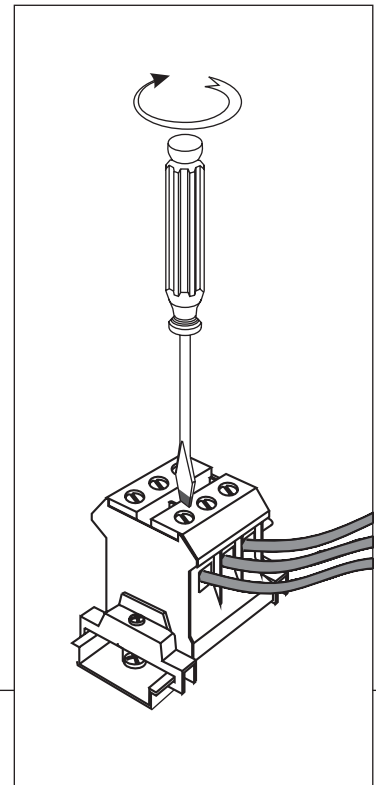
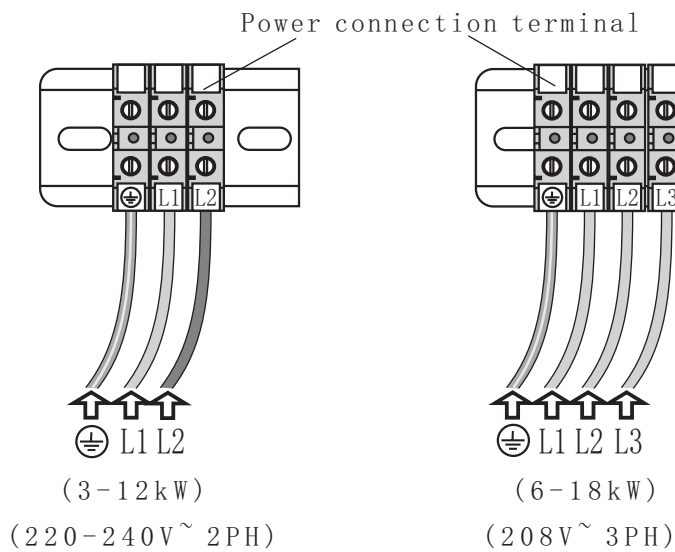
Use minimum 90° C/500V rated insulated copper conductors only, sized in accordance with National Electrical Code and local electrical code for the current in Ampere Chart. If allowed by codes, NM cable may require a larger wire size than as listed on the chart.

**WARNING**

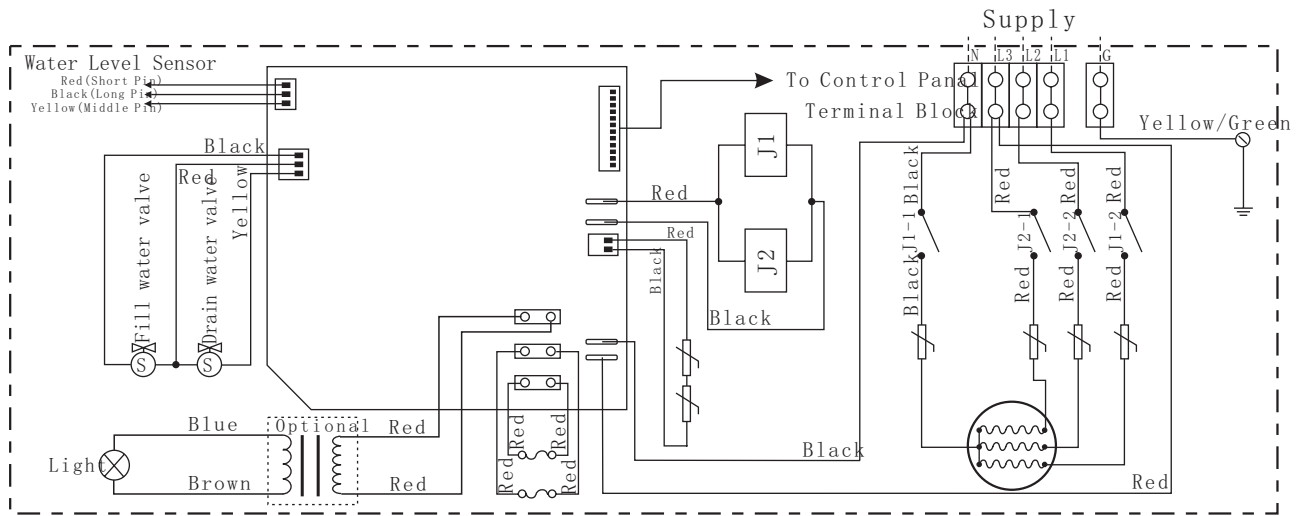
**Provide a power supply disconnect within sight of the steam generator or one that is capable of being locked in the open position as permitted by code.**

## Assembly graph for power

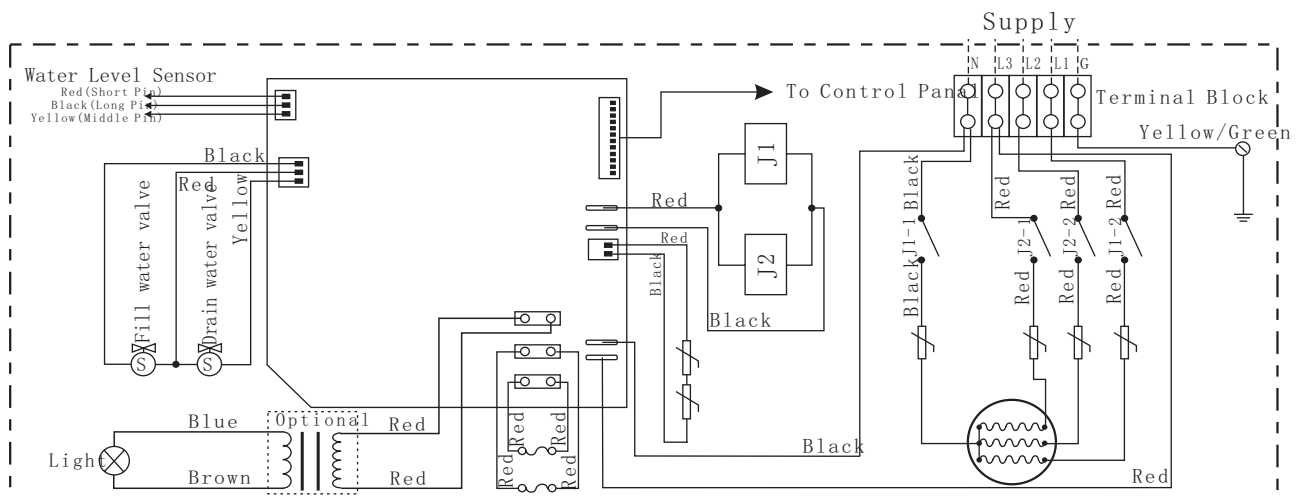
**Warning:** These diagrams are for illustration only - The advise and expertise of a professional electrical contractor will overriding these guidelines on all maters.



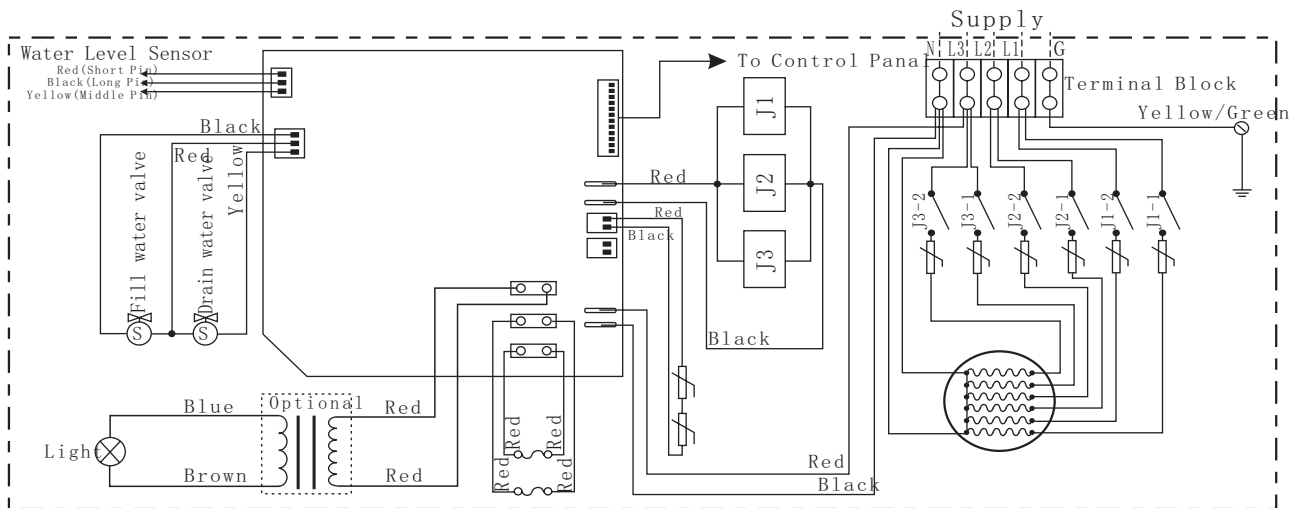
# Wiring Diagram 380-415V (3PH)



6kW/7.5kW/9kW (380-415V ~ 3PH)



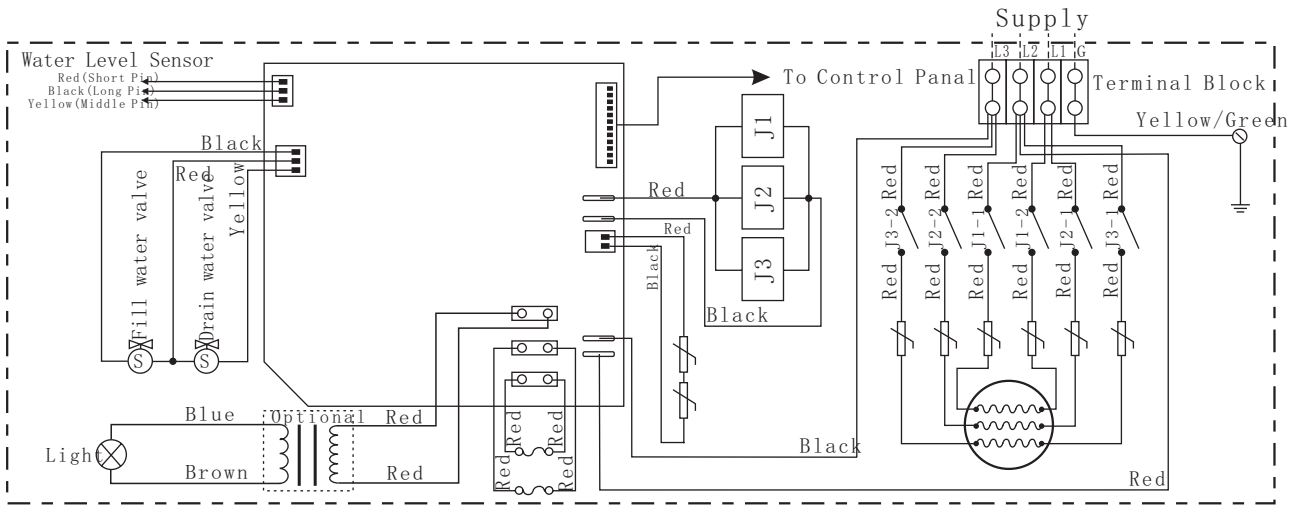
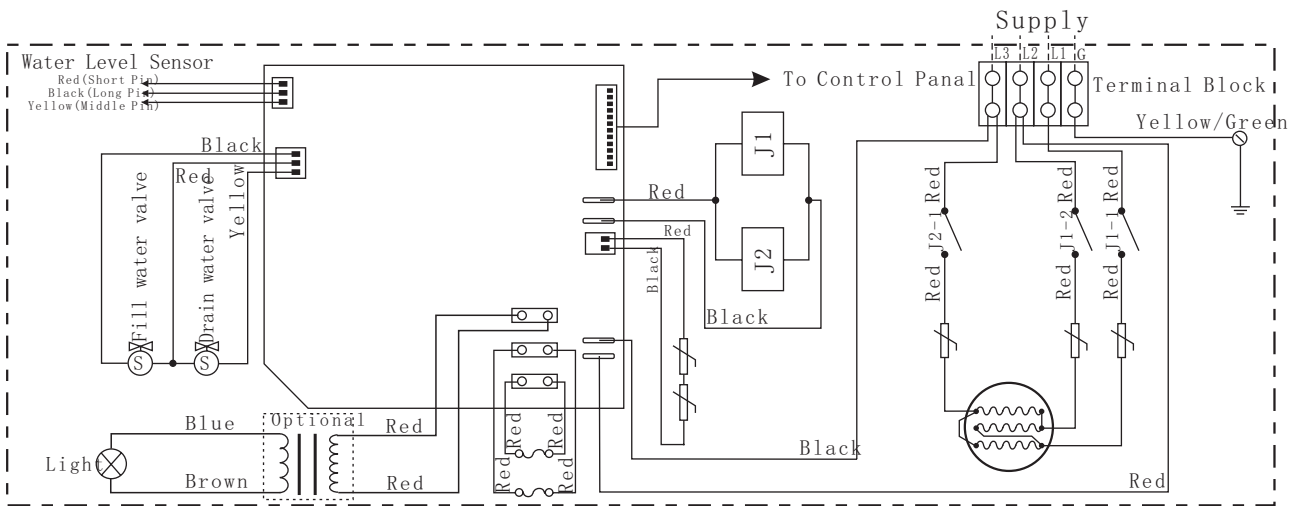
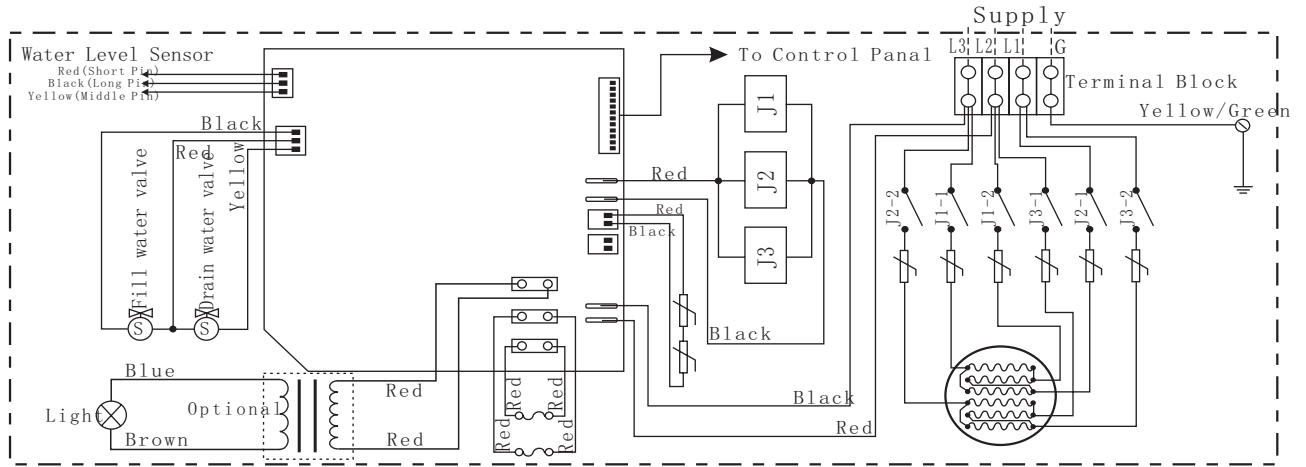
10.5kW/12kW/13.5kW (380-415V ~ 3PH)



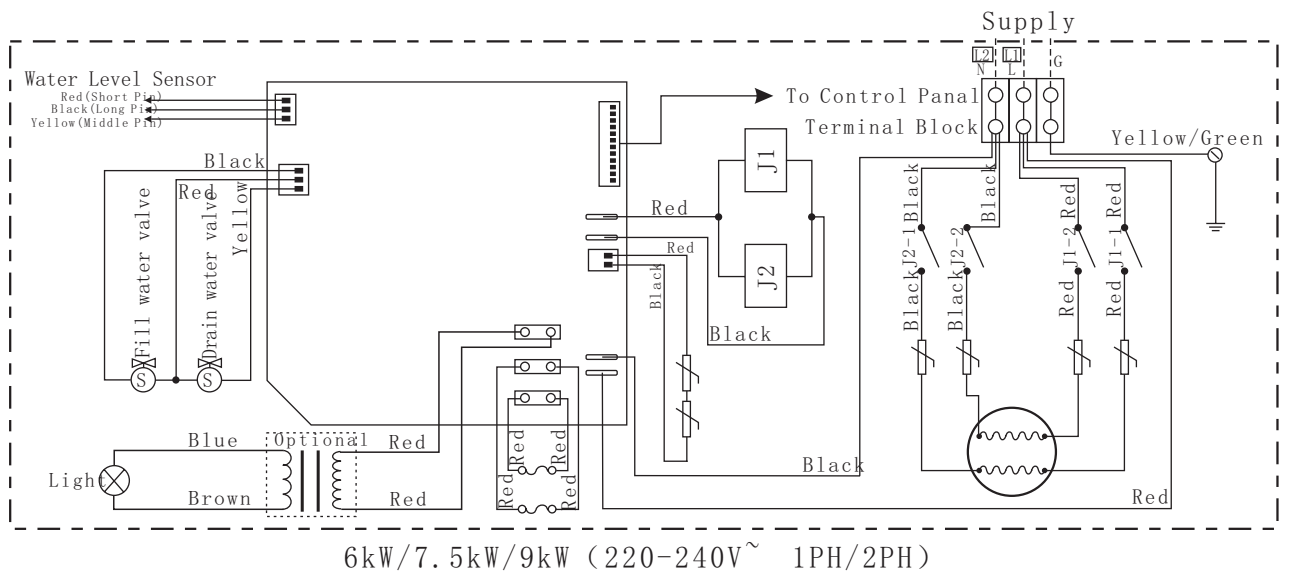
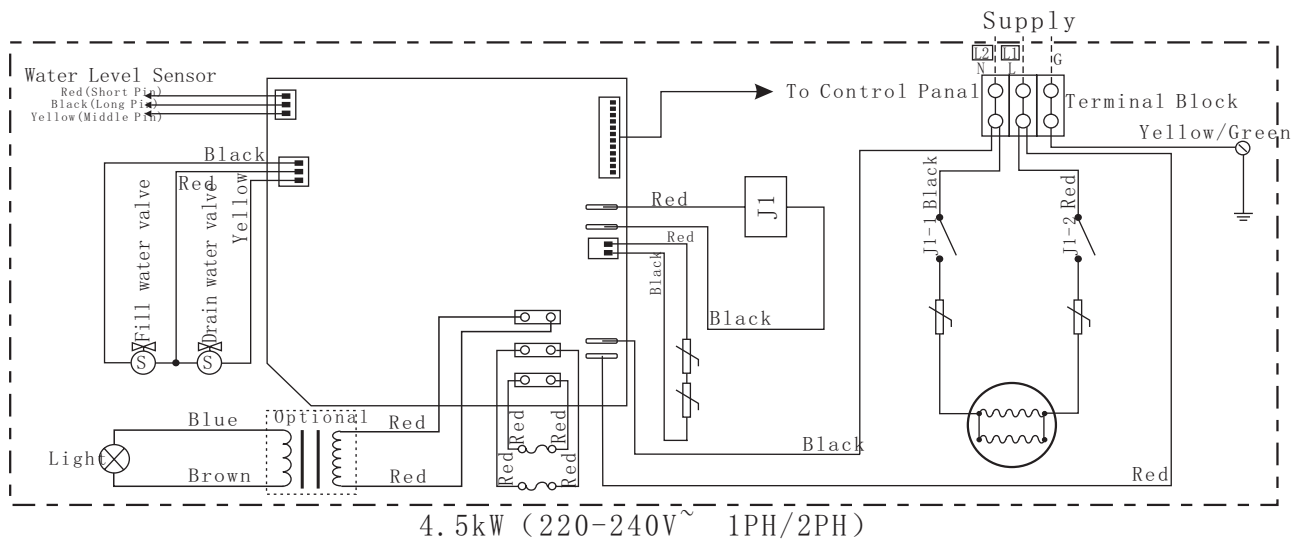
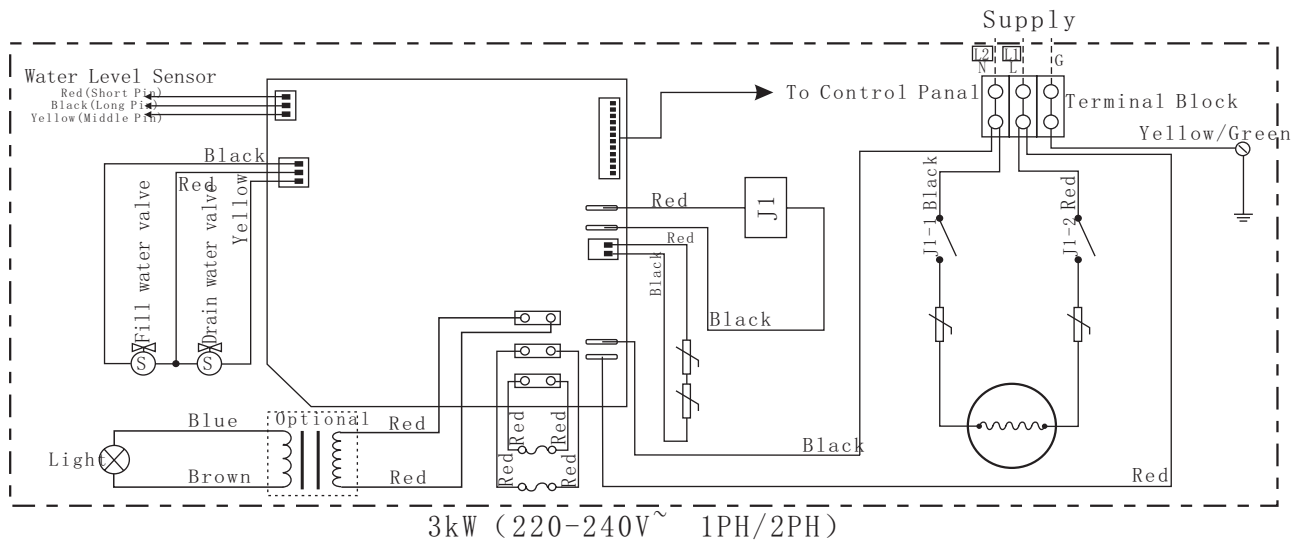
15kW/18kW (380-415V ~ 3PH)

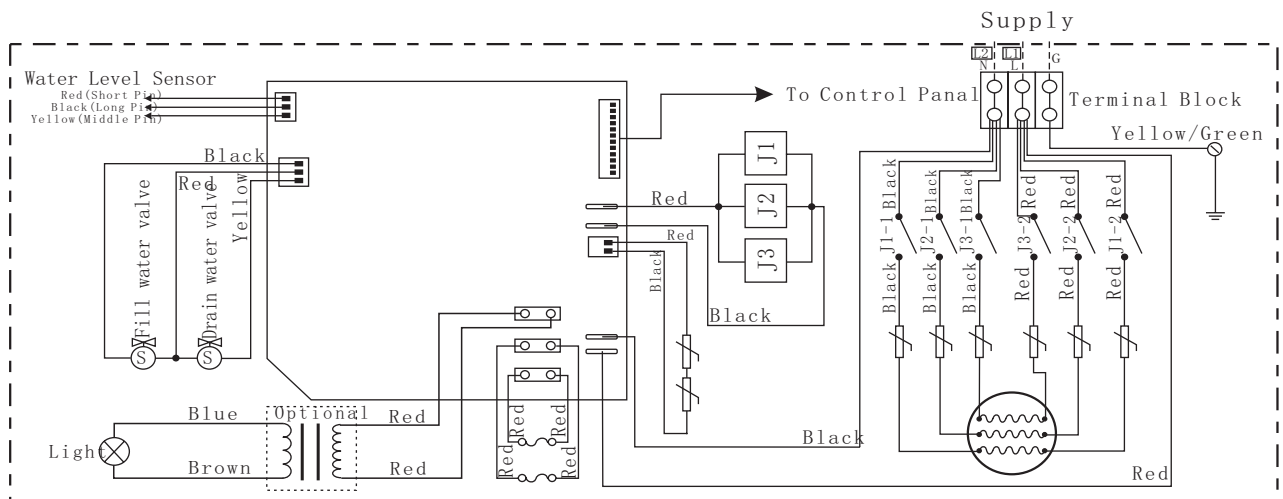


# Wiring Diagram 208V (3PH)



# Wiring Diagram 220-240V (1PH/2PH)





10. 5kW/12kW (220-240V<sup>~</sup> 1PH/2PH)

## Installation of the top light

### CAUTION

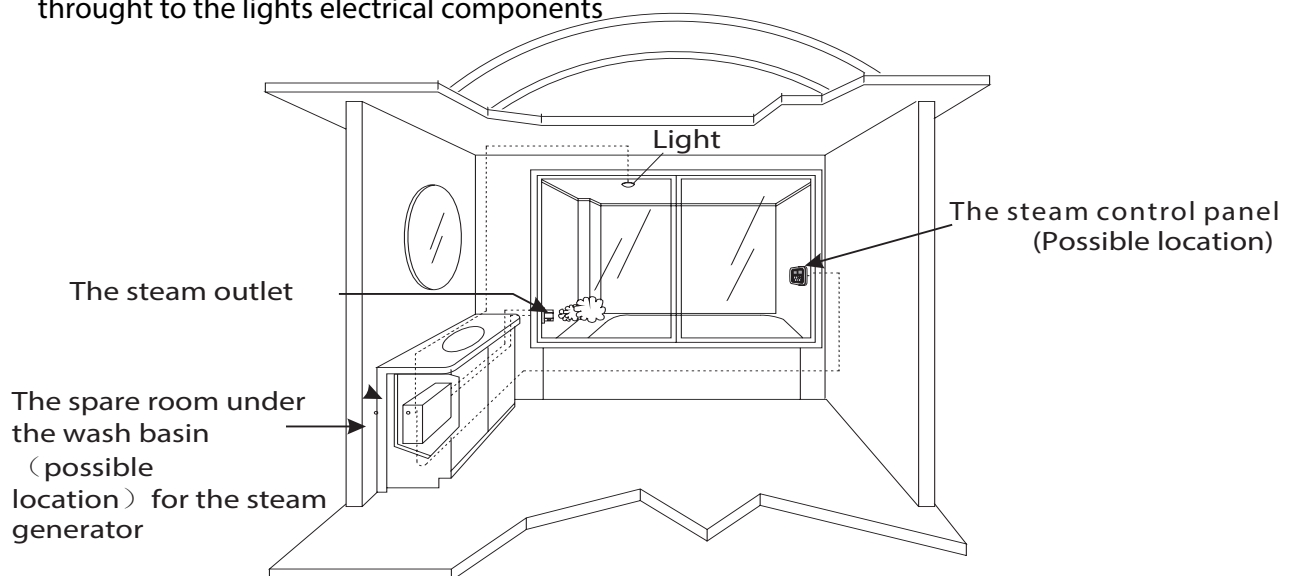
Lighting connection is available in 12V/220V/230V outputs. Before connection to the light is made, please consult with the manufacturer to know what voltage the light is, so as to avoid generator damage or dangerous installation.

If the light output is 12V, the power of the light should not be more than 35W, otherwise, the transformer will be burned out and will cause danger. If light input is 220v~240V, the light power should not more than 100W.

The light should be installed on the top of the steam room or the places where are not access to the children.

### CAUTION

Take the necessary moisture proof measures in the process of the light installation. You need to fully ensure the light area and install will not let any steam/moisture throught to the lights electrical components



### CAUTION:

The illustration is just for explanation, the practical installation must comply with all relevant governing national and local laws and codes - Please consult a professional

## Maintenance of the steam engine

### Important

1. Regular checks should be made to ensure the generator and all connections and pipes are fully watertight and are not allowing any unwanted escapes of water or steam
2. The unit should be ran at least once a month for 20 mins if not in regular use.
3. If the unit is not in use for a long period, you should close off the water valve on the supply pipe to ensure there is no calcium build up during long periods which could cause the inlet valve on the steamer to malfunction.

### Initial Start-Up and Checkout

1. Ensure power and water supplies are turned on and all pipes and connections are fully tested for leaks
2. Turn on control and press the steam button
3. Steam will begin to appear in approximately 2-3 minutes at the steam head.
4. Once the steam starts let it run for five minutes to ensure it's working correctly and calling for water. Now press the steam button to power off the unit. The steam should stop; there shouldn't be any water flow.
5. Press the steam button again and almost immediately the unit should power up and produce steam. It should call for water once every two minutes or so depending on its power rating. It's normal for the flow of steam out the steam head to slow for up to 10 seconds each time the unit calls for water.
6. Now allow the steam generator to run for a time. The steam will shut off when desired temperature on the control panel is reached, as sensed by the temperature probe. The steam will automatically resume when room temperature drops below set point.
7. You should test the timer function. The steam will shut off automatically when control counts down to zero.

THE UNIT IS NOW READY FOR OPERATION.

### Important

If unit does not start and control does not turn ON at any time control display does not light up then turn breaker off for 20 seconds and try again.

The unit is designed to shut down automatically after 90 minutes. After this time the steam will stop and there should not be any water flow. The control should also not be lit. This unit is NOT designed to be run for more than 90 minutes without a hours 'rest' between use. These units are designed for heavy domestic light commercial use only and the unit not be continually run for long periods of time i.e (8 hours) as the unit **MUST** have time to cool down.

## Common troubles trouble shooting

### **The machine does not start when powered**

Check: 1.The fuse is burned. 2.The wire connection terminal is loose. 3. Not good contact in the controller panel into good contact controller and the steam engine.

Solution: 1.Change the fuse (on the shell 0.8A/250V) 2.Plug tight the wire connection termin 3.Make sure the steam engine and the control connection is sound

### **Electric breaker trips automatically**

Check: .The wire connector is not dampened or damaged. Check the correct size breaker is in use for the generator model

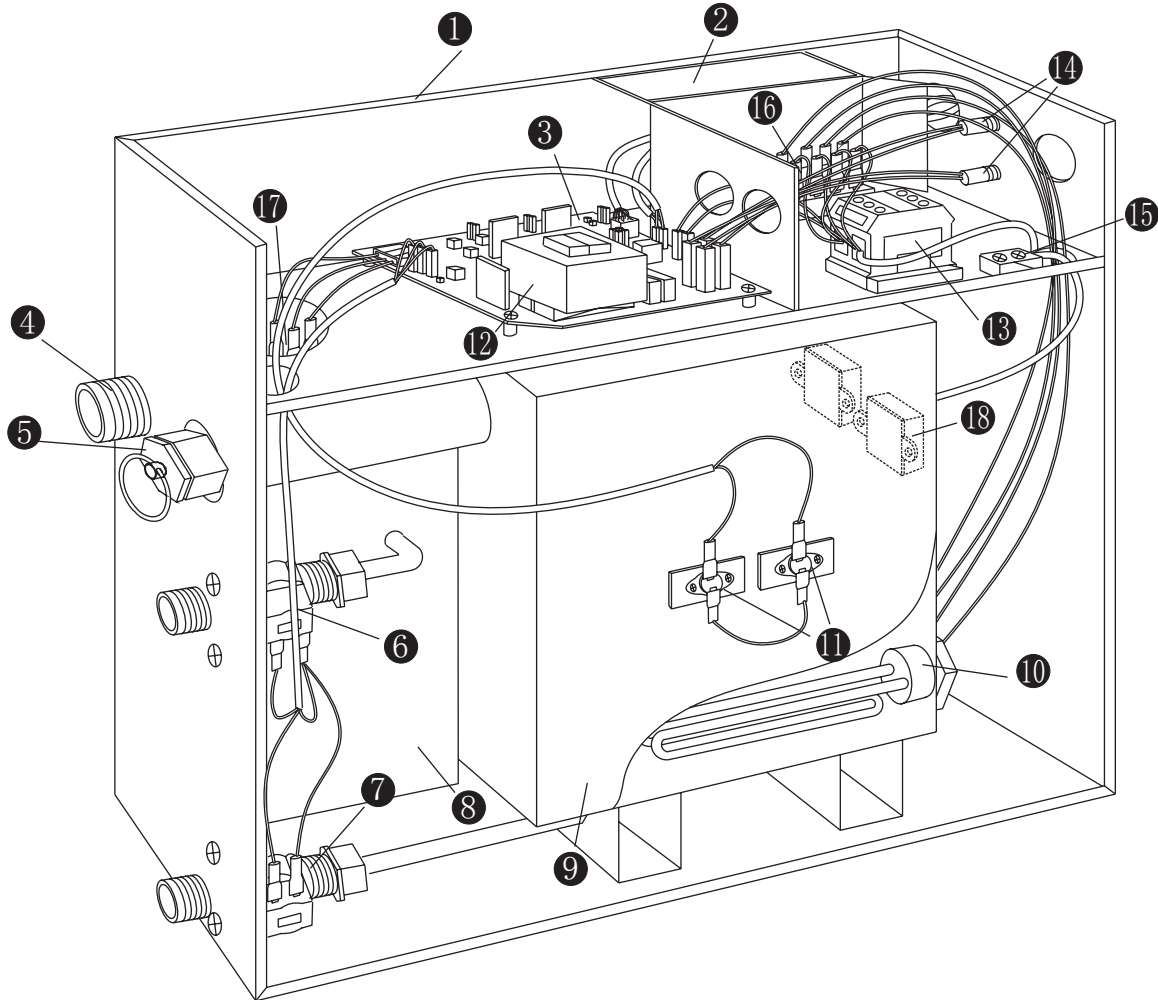
### **When the machine is started, water comes out the outlet with little or no steam**

The water inlet selonoid has malfunction and needs replacing

### **The steam does not come out, the water sounds in the pipe and all sounds normal**

Check if there is trapped water in the steam out pipe. Has it pooled? Power off everything and switch off the supply to the unit. Taking all nessessary procautions, disconnect the steam pipe at its lowest point and be prepared for water escape

## Configuration of steam generator



- |                         |                         |                        |
|-------------------------|-------------------------|------------------------|
| ① Enclosure             | ⑦ Water drain valve     | ⑬ Terminal block       |
| ② Insulation bracket    | ⑧ Subsidiary water tank | ⑭ Fuse                 |
| ③ Circuit board         | ⑨ Main water tank       | ⑮ Earth wire connector |
| ④ Steam Outlet          | ⑩ Heating Element       | ⑯ Relay                |
| ⑤ Pressure relief valve | ⑪ 105°C Hi-limit        | ⑰ Water level sensor   |
| ⑥ Water fill valve      | ⑫ Transformer           | ⑱ 105°C Hi-limit       |

**FOR TECHNICAL  
ASSISTANCE**

**PLEASE CALL**

**01524 489939**

# Completion Form

This form must be filled out by the plumber/installer and electrician (where applicable) in order to validate the warranty. You are required to register the warranty online at [www.vidalux.co.uk](http://www.vidalux.co.uk)

You MUST register the product warranty within 90 days following delivery

**PLEASE RETAIN THIS CERTIFICATE FOR FUTURE REFERENCE**

## Product Details

Model No.

Date Of Delivery

Invoice No.

Install Date

## Install Information

Water Supply Type  Combi

Mega Flow/Pressurised

Pumped

Gravity Fed

Cold Water Pressure (LPM or BAR)

Hot Water Pressure (LPM or BAR)

PEV or PRV fitted?  PEV

Details

PRV

Details of pressure testing/flow rate equipment used

## Plumbing Installation

Installer Name

Company

Address

Town/City

Post Code

Contact Tel

Credentials/  
Certificates held -  
Reg number

Signature

Date

## Electric Installation

Installer Name

Company

Address

Town/City

Post Code

Contact Tel

Part P Reg No.

Date

Signature