STEAM GENERATOR USER GUIDE

S6 SERIES AND S6A SERIES
CONTROL PANEL: GS08N1

3KW
4.5KW
6KW
7.5KW
9KW
10.5KW
12KW
13.5KW
15KW
18KW
22.5KW



Please read this user manual carefully before installation and retain it for future reference.
Technical updates and product improvements may be made without prior notice.

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READ ME FIRST!

IMPORTANT NOTE: As you follow these instructions, you will notice warning and caution symbols throughout this manual. This highlighted information is important for the safe and efficient installation, operation and maintenance of this steam generator. These warnings and cautions identify potential hazards that may occur during the installation, operation and maintenance of the steam generator.

WARNING Indicates a hazardous situation which could result in serious injury or death if instructions are not followed.

CAUTION Indicates a situation which may result in minor injury or product damage if instructions are not followed.

IMPORTANT NOTE: Highlights important information related to the safe installation, operation and maintenance of the steam generator.

IMPORTANT SAFETY INSTRUCTIONS

WARNING

1. Electrical grounding is required for all steam generators.
2. Disconnect all electrical supplies before servicing the steam generator.
3. To reduce the risk of explosion or damage, do not connect steam lines from multiple steam generators together.
4. To reduce the risk of injury, children should not use the steam room without continuous adult supervision.
5. This appliance is not intended for use by persons (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.
6. Children must be supervised to ensure they do not play with the appliance.
7. To reduce the risk of injury:

A. Wet surfaces inside the steam room may be slippery. Use caution when entering or leaving the steam room.

B. The steam head becomes hot during operation. Do not touch the steam head and avoid direct contact with steam near the steam outlet.

C. Prolonged use of the steam room may raise the body's internal temperature (hyperthermia). Limit steam sessions to 10–15 minutes until you are familiar with your body's reaction.

D. High temperatures may present a risk during pregnancy. Pregnant or possibly pregnant women should consult a physician before using a steam room.

E. Persons with heart disease, low or high blood pressure, circulatory system problems, diabetes or obesity should consult a physician before using a steam room.

F. Persons using medication should consult a physician before using a steam room, as some medications may cause drowsiness or affect heart rate, blood pressure and circulation.

CAUTION

1. All electrical wiring must be installed by a qualified electrician in accordance with applicable local and national electrical codes.
2. All plumbing work must be installed by a qualified plumber in accordance with applicable local and national plumbing
3. Steam generators are for indoor use only. Protect the unit from freezing conditions.
4. Steam generators are not designed for space heating purposes.
5. ELECTRIC SHOCK HAZARD — High voltage is present inside this equipment.

IMPORTANT SAFETY INSTRUCTIONS

6. Ensure that the steam room enclosure used with the FINNEX steam generator is fully sealed to prevent moisture damage caused by escaping steam. It is recommended to use 100% silicone sealant around all pipe penetrations, joints, and fittings. Steam must not be allowed to enter wall cavities, ceilings, or concealed spaces.

7. Never shut off the water supply to the FINNEX steam generator while the unit is operating.

8. Where multiple FINNEX steam generators are installed together, the units should have closely matched power ratings. The generator with the highest kW rating should be configured as the primary unit. Each generator should have its own automatic drain system.

9. FINNEX strongly recommends installing an extraction fan outside the steam room to help remove excess humidity from the surrounding bathroom or shower area.

10. For commercial installations, check local building, electrical, and plumbing regulations before installation. Additional approvals or commercial-rated equipment may be required depending on local requirements.

11. The steam outlet emits hot steam. Each steam outlet must have its own dedicated steam line. Do not install valves, restrictions, or shut-off devices in the steam line. Avoid low points or sags in the pipework where condensate may collect and restrict steam flow. Steam pipes must be insulated and protected against accidental user contact.

12. Do not install the steam outlet near seating areas or locations where steam or condensation may come into direct contact with the user, as this may create a scalding hazard.

13. Steam pipes must be positioned carefully in rooms constructed from acrylic, resin, fibreglass, plastic, or similar materials. Contact with surfaces not rated for temperatures above 115°C may result in material damage, deformation, or discolouration.

14. Connect all FINNEX control wiring exactly as specified in this manual. Do not connect additional wiring or external power supplies to the controller terminals or internal control circuits.

15. RETAIN THIS MANUAL FOR FUTURE REFERENCE.

HYPERTHERMIA

Hyperthermia occurs when the body's internal temperature rises several degrees above the normal body temperature of approximately 37°C.
Symptoms of hyperthermia may include:
(a) increased body temperature
(b) dizziness
(c) lethargy
(d) drowsiness
(e) fainting
The effects of hyperthermia may include:
a) Reduced awareness of excessive heat
b) Failure to recognise the need to leave the steam room or steam bath
c) Unawareness of potential danger
d) Risk of harm to an unborn child during pregnancy
e) Physical inability to leave the steam room or steam bath
f) Loss of consciousness

WARNING: The use of alcohol, recreational drugs, or certain medications may significantly increase the risk of hyperthermia.

INTRODUCTION

Thank you for choosing the FINNEX Steam Generator System. This product range consists of a steam generator and a digital controller designed for use in steam room environments. The controller allows the user to adjust the steam room temperature and operating time according to personal preference.
The system is equipped with multiple safety features, including overheat protection, low-water protection and a pressure relief safety valve to help ensure safe and reliable operation. The steam generator has been designed to provide reliable performance, straightforward installation and user comfort. Regular use of a steam room may help promote relaxation and support general wellbeing. This product series is available in multiple power ratings: 3 kW, 4.5 kW, 6 kW, 7.5 kW, 9 kW, 10.5 kW, 12 kW, 13.5 kW, 15 kW, 18 kW and 22.5 kW. Select the appropriate model according to the size and requirements of the steam room. For optimum performance and service life, the steam generator should be correctly sized, installed, operated and maintained in accordance with this manual.

USERS INSTRUCTION

CAUTION *Damage, malfunction, or unsafe operation caused by incorrect installation, improper use, or failure to follow this manual is not covered by the manufacturer's warranty.*

1. Before installation, ensure that the model, voltage, and supplied accessories are correct and suitable for the intended installation.
2. Ensure that the steam generator power rating is suitable for the size and construction of the steam room. Particular attention should be given to the room volume and wall materials. Refer to the sizing guide for model selection.
3. Read this manual carefully before installation and operation to ensure safe and correct use of the product.
4. Installation must be carried out in accordance with this manual and all applicable local electrical and plumbing regulations. Damage or malfunction caused by improper installation or operation is not covered by the warranty.
5. Steam generators are packaged to withstand normal transport conditions. Upon delivery, inspect the product and packaging carefully. If any transport damage is found, contact the carrier and supplier immediately.
6. This product is intended for indoor use only.

CHOOSING A SUITABLE INSTALLATION LOCATION

IMPORTANT: *FINNEX recommends installing an extraction fan outside the steam room to help remove excess steam and humidity from the surrounding bathroom or shower area.*
For safe and reliable operation, follow the installation recommendations below:

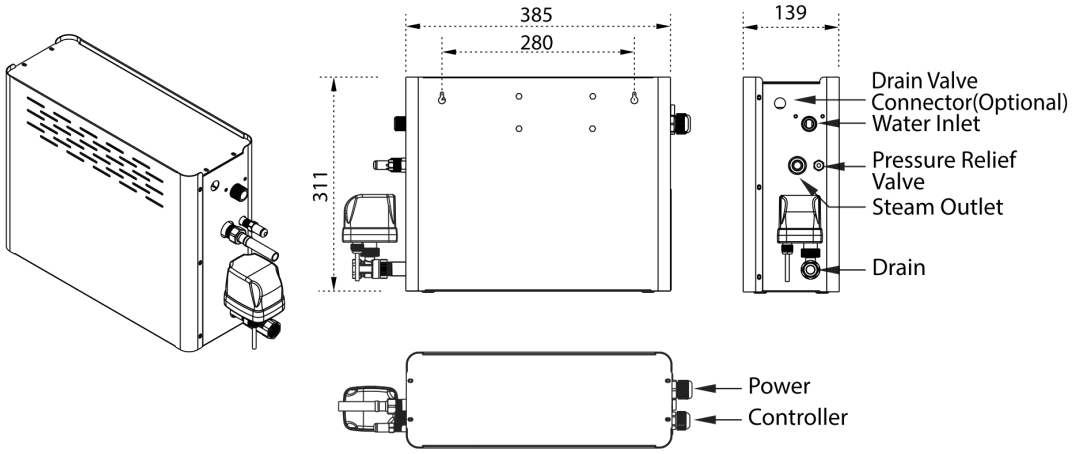
1. The distance between the FINNEX steam generator and the steam room should not exceed 6 metres. The standard controller cable length is approximately 6.5 metres.
2. The steam generator must not be installed inside the steam room.
3. Do not install the steam generator outdoors or in locations where environmental conditions may affect the safe operation of the unit.
4. Do not install the unit in unheated lofts or any location where water inside the system may freeze.
5. Do not install the steam generator near flammable materials, fuels, solvents, chemicals, or corrosive substances.
6. Install the unit in a dry, well-ventilated location.
7. The FINNEX steam generator must be mounted securely on a stable and level surface or wall.
8. Maintain a minimum clearance of at least 300 mm above and on both sides of the steam generator to allow proper ventilation and servicing access.
9. The installation location should allow convenient access for cleaning, inspection, servicing, and maintenance.

10. Install the FINNEX steam generator in a location that allows convenient access to drainage for the internal tank and drain system.
11. The steam pipe, safety valve, drain valve, water connections, and steam outlet may remain hot for some time after the FINNEX steam generator has stopped operating. Appropriate precautions must be taken to prevent burns or accidental contact with hot surfaces. Steam pipes should be insulated where necessary, and steam outlets should be positioned away from areas where users may come into direct contact with hot steam or pipework.
12. Install the FINNEX controller according to the installation instructions provided in this manual. Controller location requirements may vary depending on the controller model and its environmental protection rating.

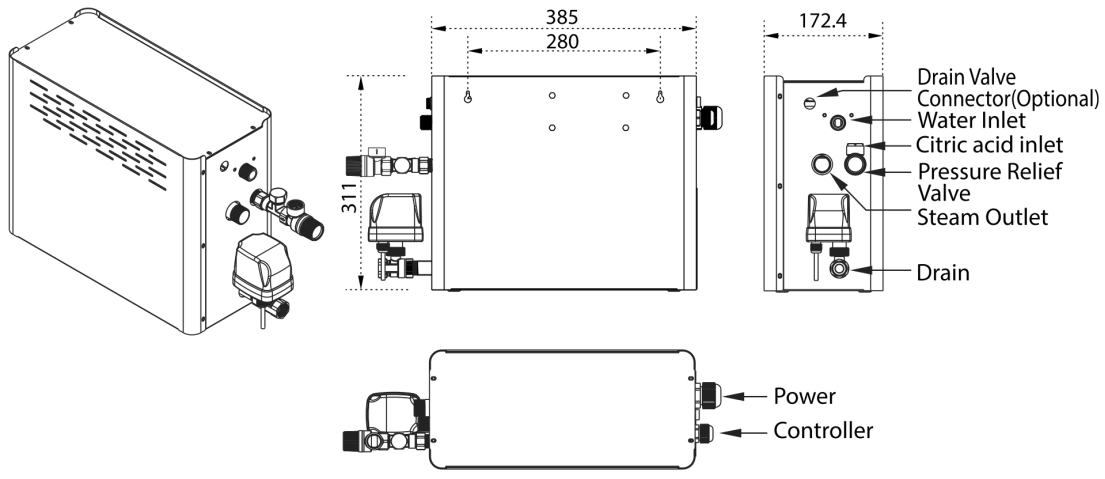
IMPORTANT: *FINNEX steam generators and compatible controllers are designed for use in humid environments when installed in accordance with this manual and all applicable installation requirements.*

STEAM GENERATOR SPECIFICATIONS

IMPORTANT: *To ensure reliable operation and simplify maintenance, keep the FINNEX steam generator clean and free from dust, debris, and excessive moisture buildup. Do not modify the plumbing, steam pipework, electrical wiring, or control systems unless specifically instructed in this manual. All installation dimensions, pipe routing, and electrical connections must be carried out in accordance with the diagrams and specifications provided.*



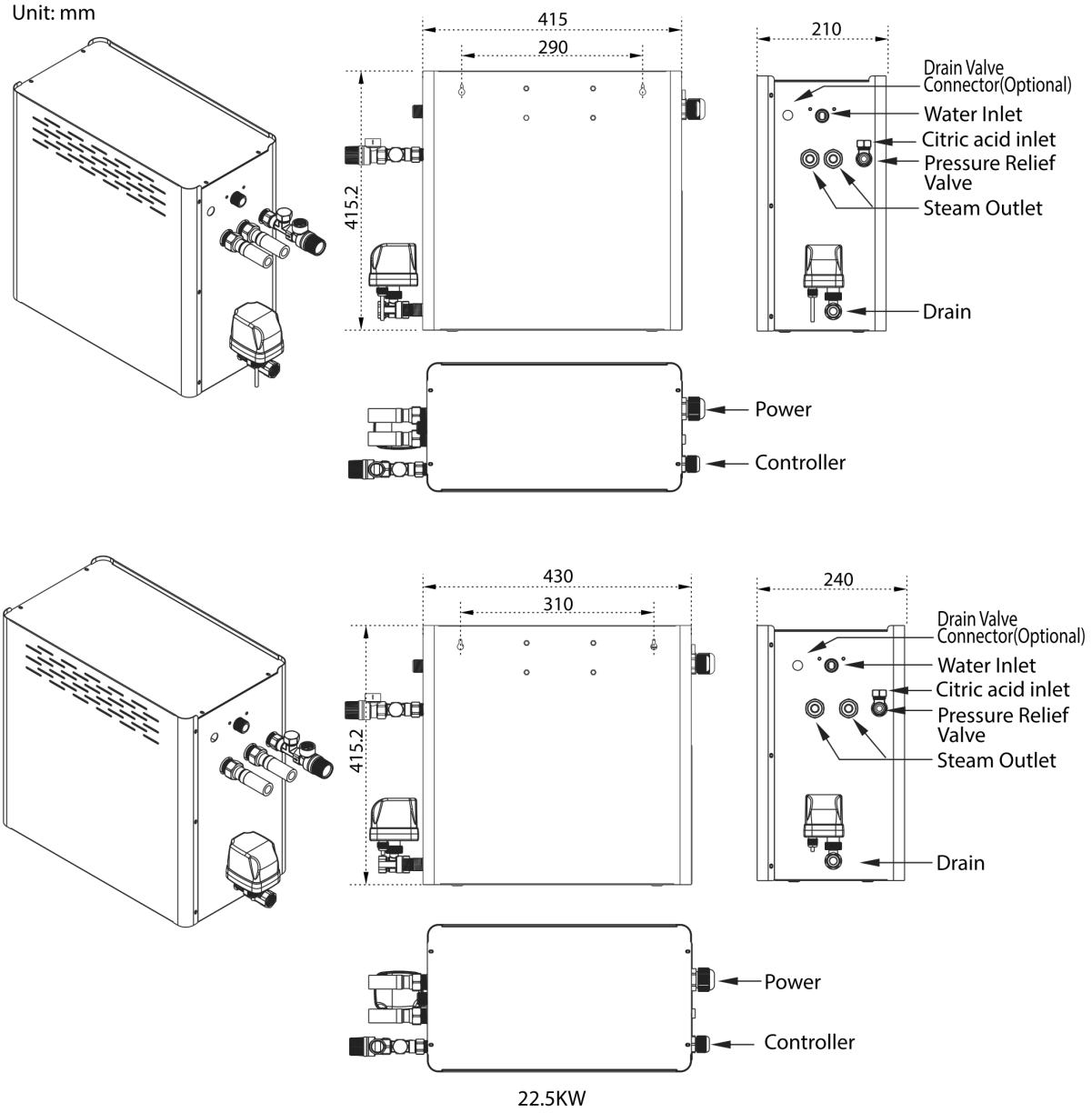
3 kW / 4.5 kW



Unit: mm

6KW / 7.5KW / 9KW

Steam Generator



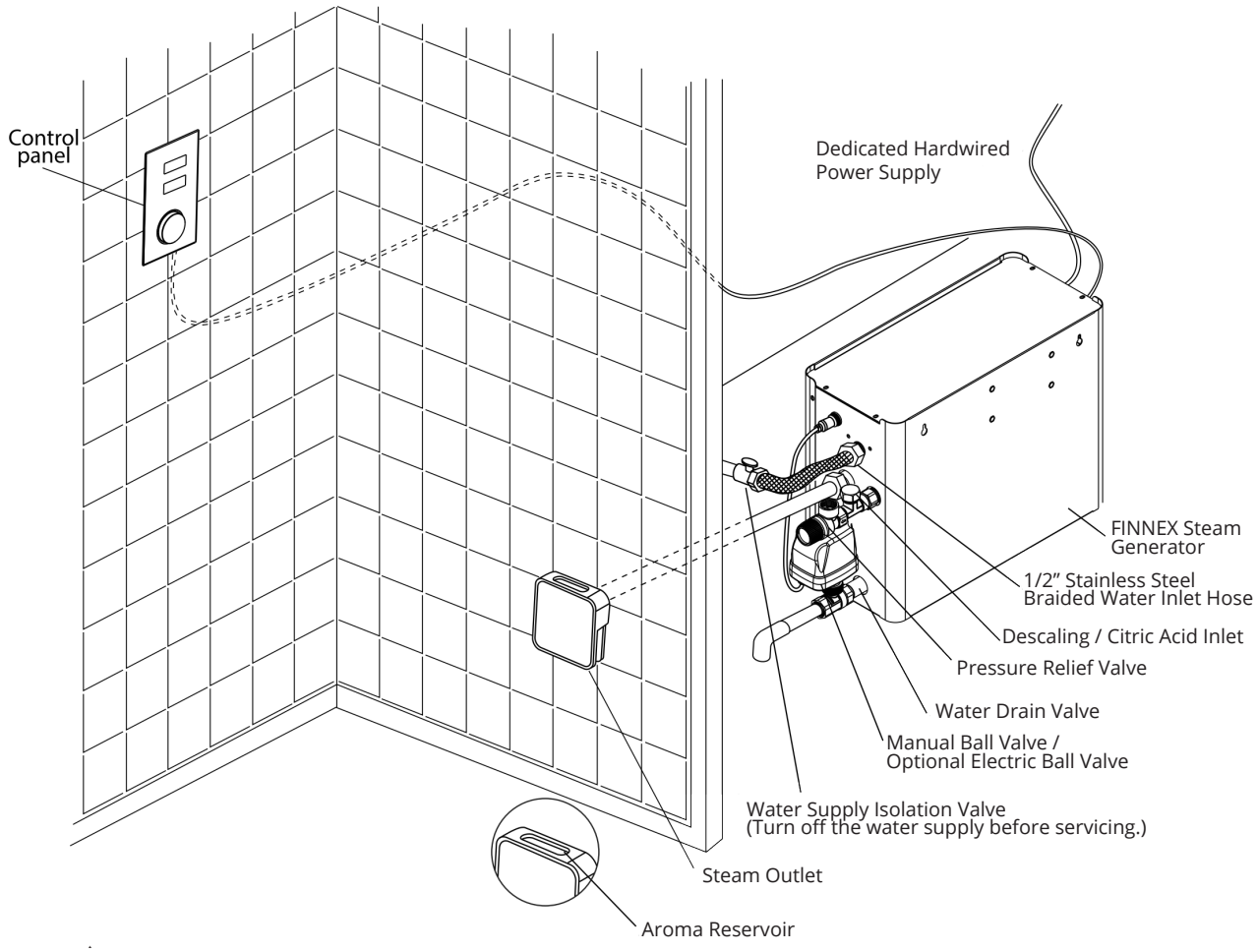
ELECTRICAL REQUIREMENTS

Power Supply and Electrical Installation

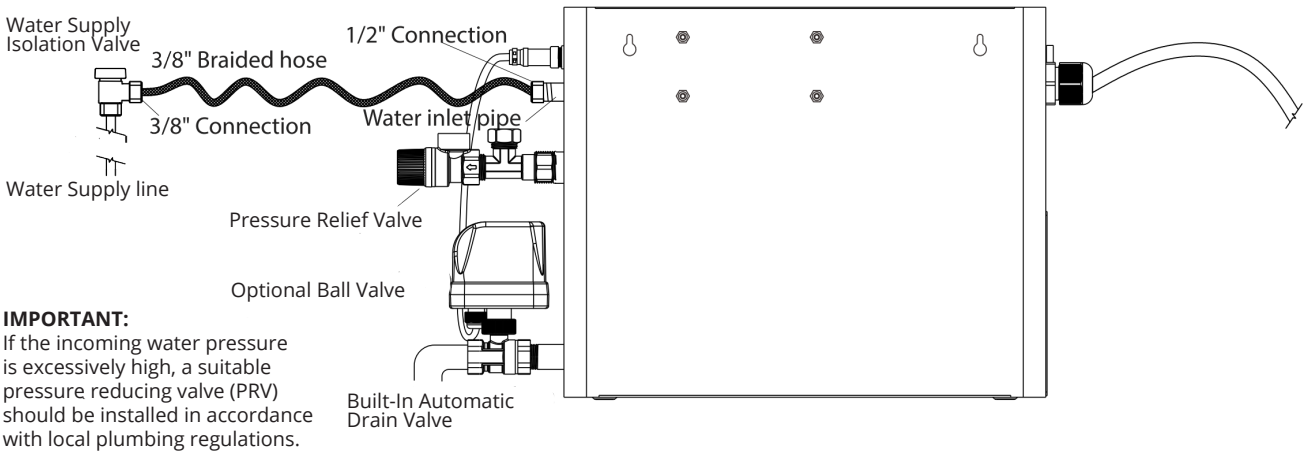
1. Before installation, verify that the electrical supply voltage matches the voltage requirements specified for the FINNEX steam generator.
2. Use suitably rated copper cable of the correct size and insulation rating in accordance with applicable local electrical regulations and installation standards.
3. The FINNEX steam generator must be permanently hardwired to a dedicated electrical circuit and properly connected to a protective earth (ground) connection.
4. Install suitable overcurrent and residual current protection devices in accordance with applicable local electrical regulations and installation standards.
5. Where required by local regulations, the appliance must be protected by a residual current device (RCD) with a rated residual operating current not exceeding 30 mA.
6. All electrical wiring, cable sizing and protective devices must comply with applicable local electrical regulations and installation standards.

IMPORTANT: *All electrical connections must be carried out by a qualified electrician and installed in accordance with applicable local electrical regulations and installation standards. The FINNEX steam generator is designed for permanent hardwired installation only and must not be connected using a plug and socket.*

STEAM GENERATOR INSTALLATION DRAWING

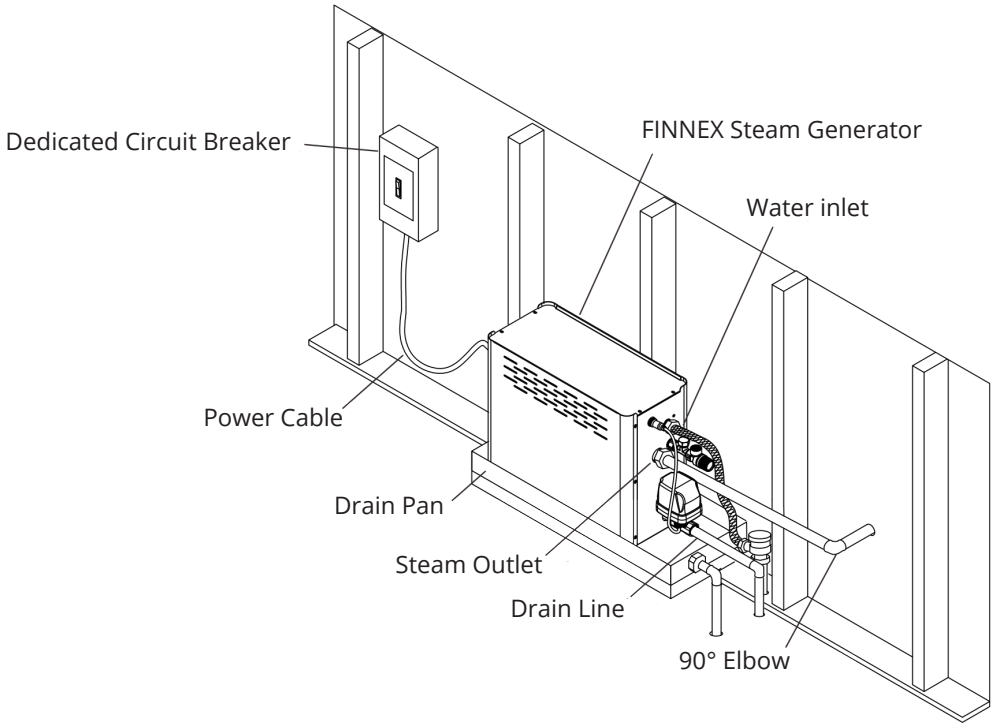


IMPORTANT: *This FINNEX installation diagram is provided for illustrative purposes only. For the design, construction, and waterproofing of the steam room, consult a qualified architect, designer, or contractor familiar with steam room installations.*

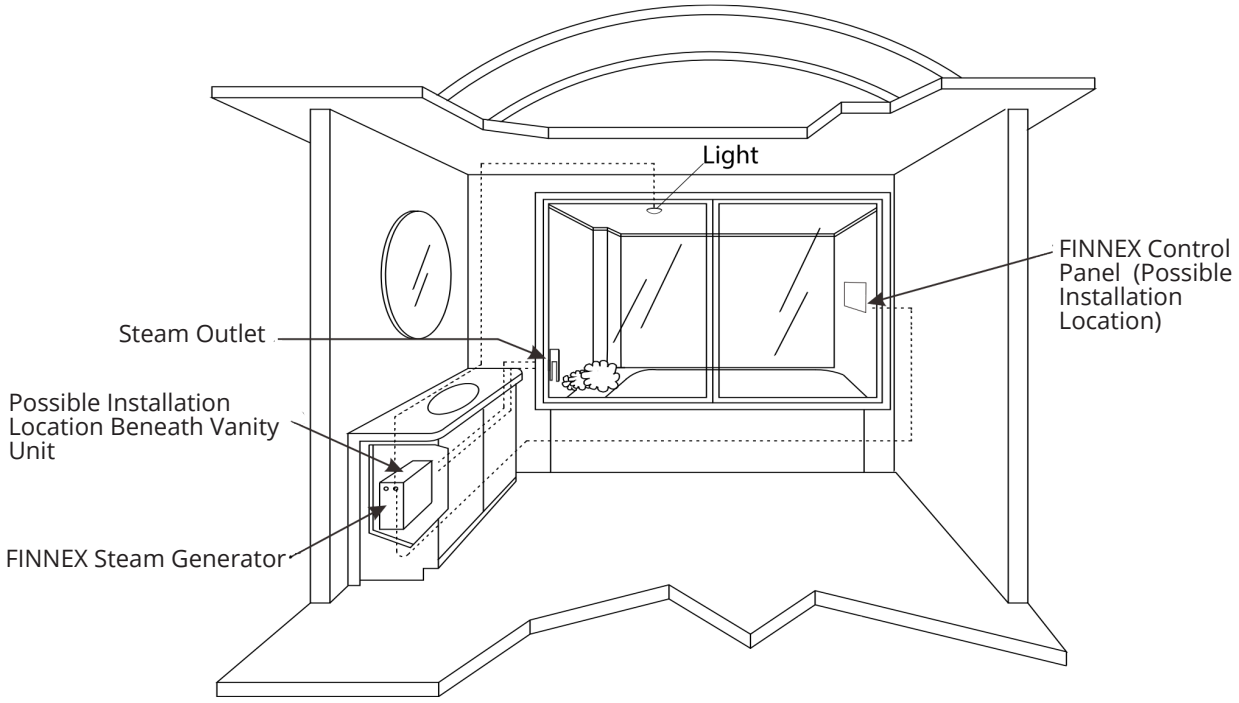


IMPORTANT:
If the incoming water pressure is excessively high, a suitable pressure reducing valve (PRV) should be installed in accordance with local plumbing regulations.

Steam Generator



IMPORTANT: *This FINNEX installation diagram is provided for illustrative purposes only. Installation must be carried out by qualified professionals in accordance with local electrical and plumbing regulations.*



IMPORTANT: *This FINNEX installation illustration is provided as an example only. All electrical and plumbing work must comply with local regulations and must be carried out by qualified professionals.*

Suitable installation locations for the FINNEX steam generator may include:

1. A service cupboard or utility space located behind or adjacent to the steam room
2. A dry and temperature-controlled plant room or service area
3. A basement or utility room protected from freezing temperatures

Do not install the FINNEX steam generator in areas exposed to freezing conditions or excessive moisture.

IMPORTANT: *If the FINNEX steam generator is installed a significant distance from the steam room, steam performance may be reduced due to heat loss within the steam pipework. Longer steam pipe runs may require increased generator capacity or insulated pipework. Refer to the sizing recommendations in this manual.*

PIPEWORK INSTALLATION

WARNING: *All plumbing and pipework installation for the FINNEX steam generator must be carried out by a qualified plumber in accordance with local plumbing regulations and applicable installation standards.*

1. Use suitable brass or copper fittings when connecting pipework.
2. Steam and water connections should be installed using copper pipework or appropriately rated stainless steel braided flexible hoses where permitted.
3. Do not use PVC pipework, galvanised steel pipe, black steel pipe, or any materials not rated for high-temperature steam applications.

IMPORTANT: *FINNEX recommends installing suitable isolation valves and service connections to allow safe maintenance, servicing, and future removal of the steam generator if required.*

Water supply pipe (1/2”)

1. The FINNEX steam generator should normally be connected to a cold water supply unless otherwise specified for the installation.
2. Install a suitable isolation valve on the water supply line. The valve should be positioned in an accessible location for emergency shut-off and servicing.
3. Flush and clean the water supply pipe thoroughly before connecting it to the FINNEX steam generator to remove debris, dirt, or installation residue.
4. FINNEX recommends installing a suitable water filter and, where required, a scale reduction or water treatment system to minimise limescale buildup.
5. As a general guideline, stable incoming water pressure between approximately 20–45 PSI (1.4–3.1 bar) is recommended for normal FINNEX steam generator operation. Where incoming water pressure is excessively high, FINNEX recommends installing a suitable pressure reducing valve (PRV) in accordance with local plumbing regulations.
6. Where necessary, install suitable plumbing components such as water hammer arrestors, flexible connections, or pressure control devices to minimise pipe noise, vibration, and hydraulic shock within the water supply system.

Steam Pipe Sizes

- FINNEX 3 kW and 4.5 kW models: 1/2” steam pipe and steam outlet connection
- FINNEX 6 kW models and above: 3/4” steam pipe and steam outlet connection

1. Do not install shut-off valves, restrictions, or other devices that may obstruct steam flow within the steam pipework.
2. Use copper pipework or suitably rated brass fittings between the FINNEX steam generator and the steam outlet. Always use the correct pipe size for the specific generator model.
3. Where insulation is required, use heat-resistant insulation materials rated for temperatures of at least 120°C.
4. Keep the steam pipe run as short and direct as possible. Use swept bends or long-radius elbows where necessary to maintain smooth steam flow.
5. Steam pipework must be installed with a continuous slope to allow condensate to drain correctly back toward the steam generator or steam outlet.
6. Do not allow dips, traps, or low points in the steam pipework. Condensation may collect in these areas and cause reduced steam performance, water hammer, or hot water discharge from the steam outlet.

IMPORTANT: *Steam pipework should be routed as directly as possible. Excessive vertical rises, drops, or unnecessary bends may reduce steam performance and increase condensation within the pipe system.*

Steam Pipe and Steam Head Sizes

- FINNEX 3 kW and 4.5 kW models: 1/2” steam pipe and steam head connection
- FINNEX 6 kW models and above: 3/4” steam pipe and steam head connection

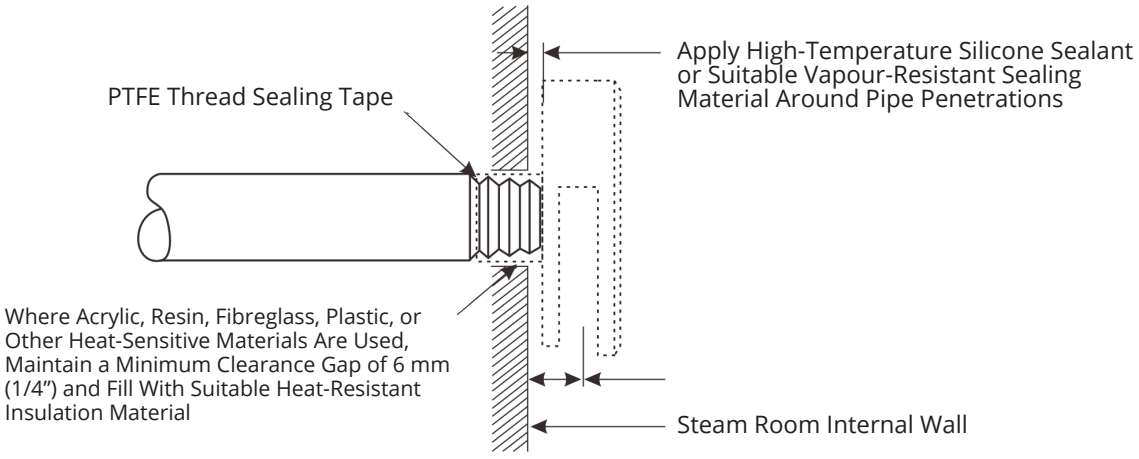
IMPORTANT: *The FINNEX steam head and surrounding pipework become extremely hot during operation and may cause burns or scalding injuries. Do not install the steam head in locations where users may come into direct contact with hot steam, hot surfaces, or condensate discharge.*

1. Install the FINNEX steam head approximately 150–300 mm above finished floor level. Where the steam room includes a bath, bench, or seating area, position the steam head away from direct user contact and away from locations where steam or condensate may discharge directly onto occupants. Where acrylic, resin, fibreglass, plastic, or other heat-sensitive materials are used, additional thermal protection or insulation may be required.
2. The steam head outlet should be angled downward during installation. Use suitable PTFE thread sealing tape on threaded pipe connections where required. Tighten the steam head carefully without excessive force.

IMPORTANT: *To avoid damaging the FINNEX steam head finish, do not overtighten or use excessive force during installation. Clean only with mild soap solution and a soft cloth or sponge. Do not use abrasive cleaners, aggressive chemicals, wire brushes, or harsh cleaning tools.*

IMPORTANT:

1. *Where acrylic, fibreglass, resin, plastic, or other heat-sensitive materials are used within the steam room, consult the material manufacturer or installer regarding suitable steam head positioning and thermal protection requirements. Additional heat shielding or thermal insulation may be required around the FINNEX steam head and surrounding surfaces.*
2. *The steam room enclosure must be properly sealed to minimise steam leakage and prevent moisture from entering wall cavities or surrounding structures. Pipe penetrations, fittings, cable entries, and wall openings should be sealed using a suitable high-temperature silicone sealant or vapour-resistant sealing material.*



IMPORTANT: *All wall penetrations and steam pipe openings must be properly sealed to prevent moisture and steam from entering wall cavities or surrounding structures. Use only heat-resistant sealing and insulation materials suitable for steam room applications.*

Drain Pipe (1/2”)

The FINNEX steam generator drain connection must be installed in accordance with local plumbing regulations and applicable drainage requirements. The FINNEX steam generator uses a gravity drain system. The drain pipework must therefore be installed to allow unrestricted drainage of water from the generator. Check all local plumbing and discharge regulations before installation. Do not connect the steam pipe directly into any drain system. Pressure relief valve discharge connections, where applicable, must comply with local plumbing regulations and installation requirements.

IMPORTANT: *The drain pipework must maintain a continuous downward fall to allow proper drainage. Do not install upward bends, traps, or raised sections in the drain line that may restrict water flow or cause water retention.*

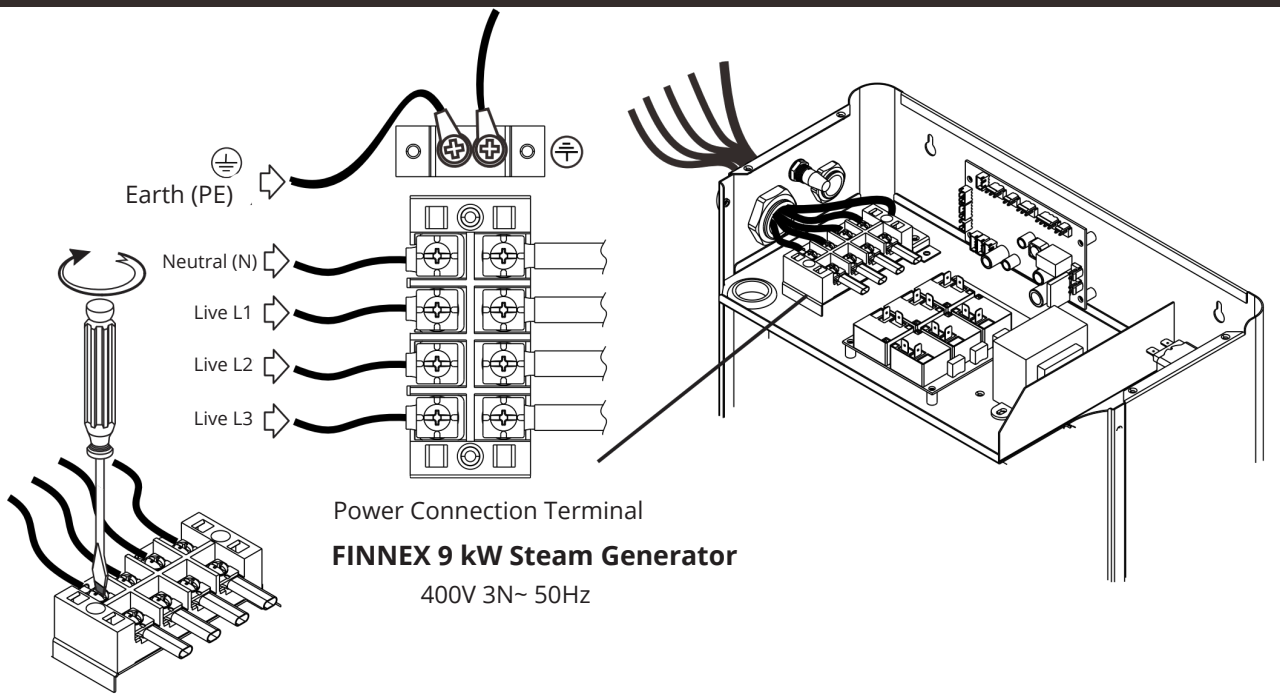
Safety Valve

1. The FINNEX safety relief valve is an important safety device designed to prevent excessive internal pressure within the steam generator.
2. The FINNEX safety relief valve is factory set to operate at its rated pressure. If internal pressure exceeds this level, the valve will automatically release pressure.
3. On 6 kW and higher power models, the safety valve discharge may be connected to a suitable drain line where permitted by local plumbing regulations.
4. On 3 kW and 4.5 kW models, the safety relief valve is not designed for connection to a drain line.

WARNING:

1. *The safety relief valve must remain installed and operational at all times except during approved maintenance procedures described in this manual.*
2. *To ensure correct and safe operation of the safety relief valve, any discharge pipework must remain unrestricted and free from obstructions.*
3. *Safety valve discharge water and steam may be hot. Ensure discharge outlets are positioned safely away from users and sensitive materials.*

POWER SUPPLY WIRING DIAGRAM



IMPORTANT: *All FINNEX steam generators must be permanently hardwired to a dedicated electrical circuit. Installation and electrical connection must be carried out by a qualified electrician in accordance with local electrical regulations and applicable wiring standards. Ensure all power supplies are isolated before opening the electrical enclosure or carrying out installation, inspection, or maintenance work.*

Connect the Neutral conductor to terminal N. Connect Live conductors L1, L2, and L3 to their corresponding terminals. Connect the Earth conductor (PE) to the earth terminal. After installation, tighten all terminal screws securely to ensure safe electrical connections.

NOTICE: After tightening the terminal screws, gently pull each conductor to confirm that all wiring connections are fully secured.

IMPORTANT: To prevent damage to the FINNEX steam generator, do not bypass internal control systems, contactors, or safety devices by connecting power directly to the heating elements.

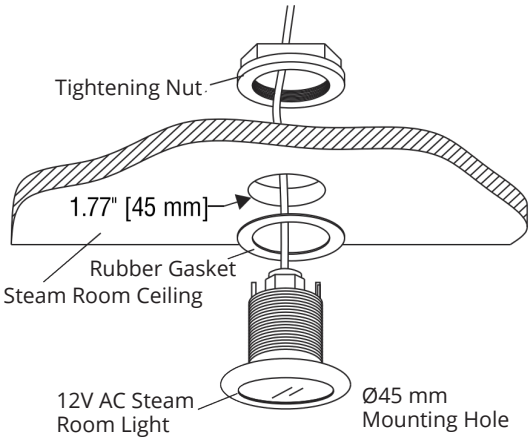
WARNING! This wiring diagram is provided for reference purposes only.

All electrical installation work must be carried out by a qualified electrician in accordance with local electrical regulations, national wiring standards, and applicable safety requirements.

STEAM ROOM LIGHT INSTALLATION

CAUTION

1. The FINNEX steam generator is equipped with a dedicated 12V AC light connection cable for steam room lighting.
2. A suitable 12V AC steam room light may be connected to the supplied light connection cable. The light fitting must be suitable for steam room environments and compatible with the generator's 12V AC lighting output.
3. Compatible FINNEX white LED lights and chromotherapy lights are available separately.
4. The connected light fitting must not exceed the rated output of the lighting circuit.
5. The steam room light should be installed in the ceiling area or in a location where users cannot accidentally come into contact with the fitting.



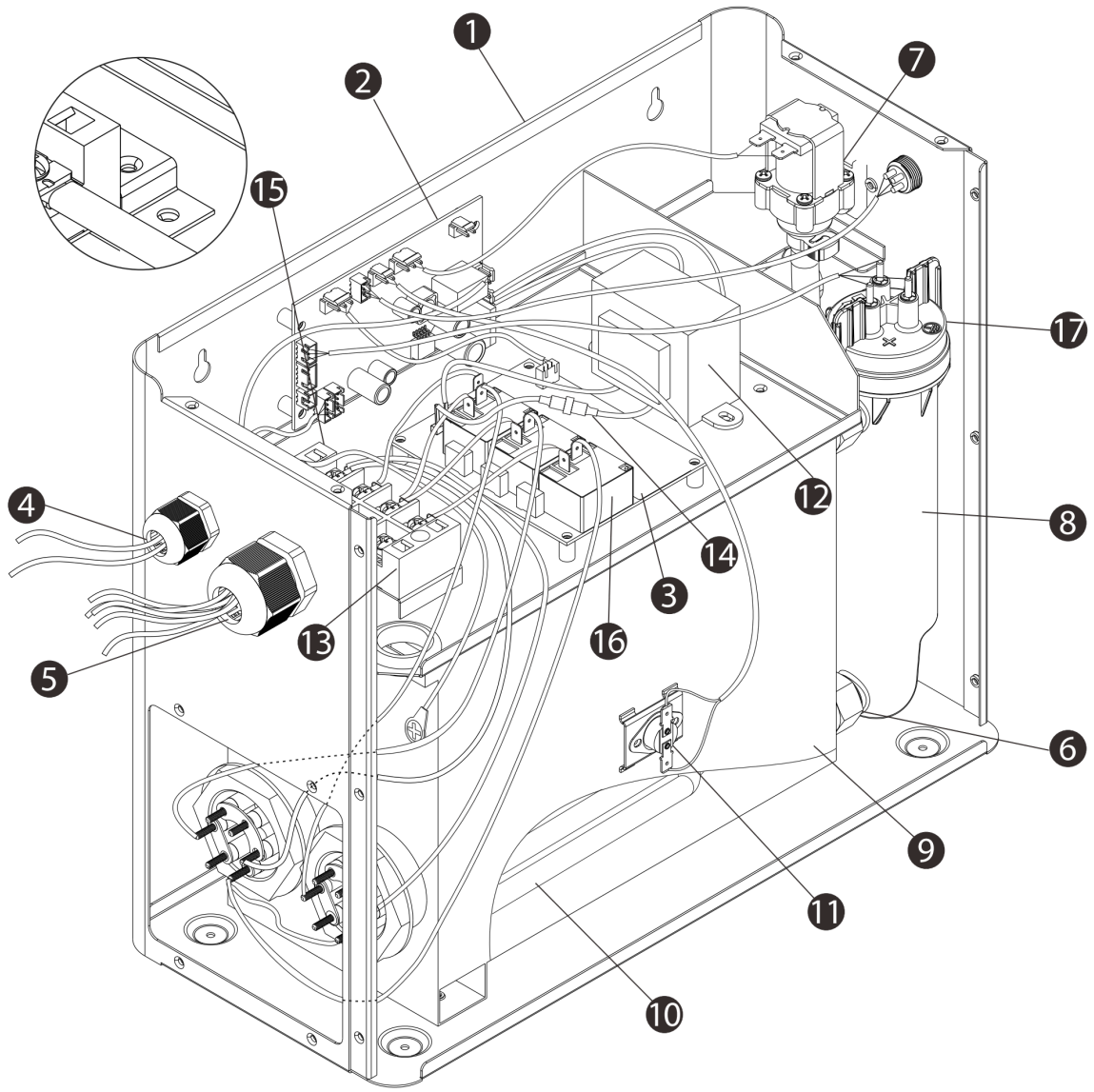
6. All electrical connections and components must be adequately protected against moisture ingress. Do not

allow electrical components, terminals or wiring connections to be exposed to moisture or condensation, as this may result in electrical failure, short circuit or electric shock.

7. Only IP-rated light fittings suitable for steam room environments should be installed.
8. All electrical connections must be carried out by a qualified electrician and installed in accordance with applicable local electrical regulations.

FINNEX STEAM GENERATOR INTERNAL COMPONENT DIAGRAM

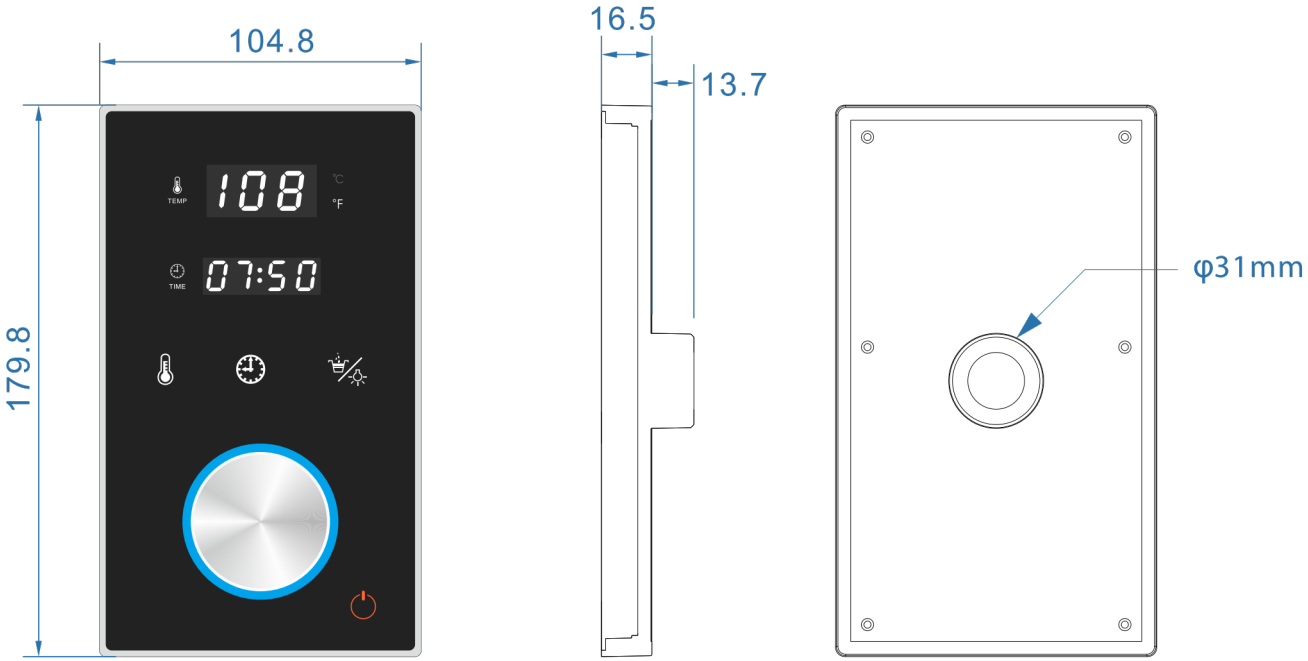
FINNEX 9 kW Single-Phase Model



1. Enclosure
2. Main Control Board
3. Circuit Board
4. Controller Connection Cable
5. Power Supply Cable
6. Water Drain Connection
7. Water Fill Valve
8. Secondary Water Tank
9. Main Water Tank
10. Heating Element
11. Overheat Protection Sensor
12. Transformer
13. Terminal Block
14. Fuse
15. Earth Terminal
16. Relay
17. Water Level Sensor

IMPORTANT: *This diagram is provided for identification and servicing reference purposes only. All inspection, servicing, maintenance, and replacement work must be carried out by qualified personnel with the power supply isolated.*

CONTROLLER SPECIFICATIONS



CONTROL PANEL INSTALLATION INSTRUCTIONS

Select a suitable installation location for the FINNEX control panel. The FINNEX control panel may be installed either inside or outside the steam room, depending on the installation requirements and controller model. For safety and convenient operation, installation inside the steam room is generally recommended, allowing the user to quickly switch off the steam generator if required. Where the control panel is installed outside the steam room, the temperature sensor must be installed inside the steam room in an appropriate sensing location. If the control panel is installed inside the steam room, it must be positioned away from direct steam exposure, excessive condensation, and areas of high heat concentration.

1. Install the control panel approximately 1.2–1.5 metres above finished floor level.
2. Keep the control panel away from the steam head and do not install it directly above areas exposed to direct steam discharge or excessive condensation.
3. Install the control panel on a flat vertical wall surface.
4. The installation location should allow safe operation, convenient access, and suitable cable routing.

IMPORTANT: *All control panel wiring, sensor installation, and electrical work must be carried out in accordance with local electrical regulations and manufacturer instructions.*

IMPORTANT: *Do not install the FINNEX control panel directly beneath water pipes or in locations exposed to dripping water, condensation, or excessive moisture.*

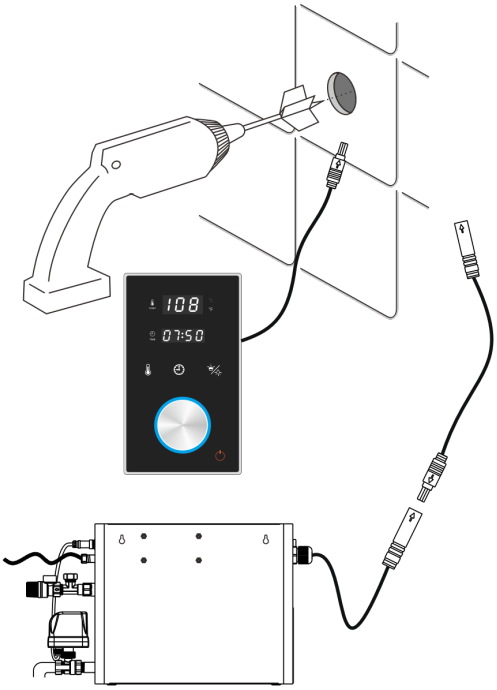
Step 1

Drill a round mounting hole with a diameter of 35 mm in the selected installation location.

Step 2

Carefully route the controller cable through the mounting hole. Connect the controller cable to the extension cable and then connect it to the corresponding connection port on the FINNEX steam generator.

When connecting the plugs, align the connectors correctly and insert them straight without twisting or forcing the connection, as damage to the connector pins may occur.
Apply the same care when disconnecting the plugs.

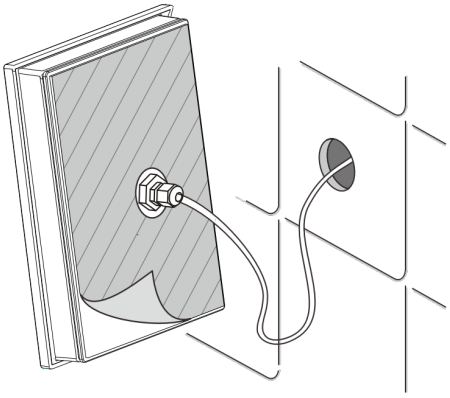


IMPORTANT: *Do not overtighten, sharply bend, crush, clip, or place excessive tension on the controller cable, as this may damage the wiring or internal connections. Avoid routing the controller cable alongside mains voltage cables where possible.*

Step 4

Switch on the electrical power supply to the steam generator. Verify that the controller powers on and that all controller functions operate correctly.

IMPORTANT: *Before securing the FINNEX control panel, ensure the steam generator power supply is switched off to prevent possible controller malfunction or damage.*



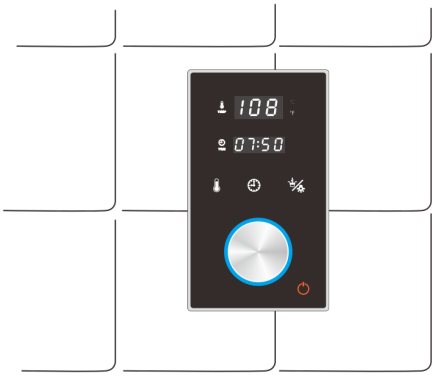
Step 5

Remove the protective adhesive backing from the rear of the controller. To ensure proper adhesion, make sure the mounting surface is clean, dry, and free from dust or grease.

Step 6

Position the display upright and press the controller firmly onto the wall surface.

IMPORTANT: *To ensure the controller is installed level and horizontally aligned, use a spirit level if necessary.*

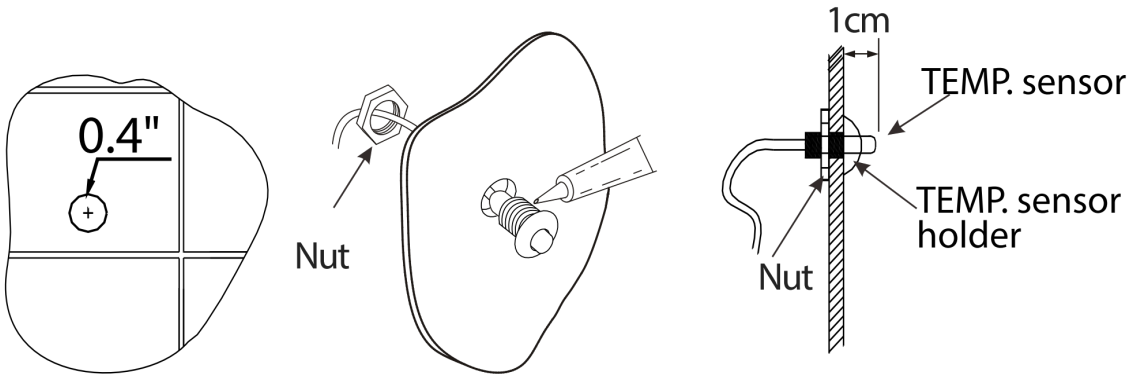


Step 7

NOTICE: Install the FINNEX temperature sensor inside the steam room according to the following diagrams and installation instructions. Avoid installing the temperature sensor near the steam outlet or close to the steam room door opening, as this may result in inaccurate temperature readings and unstable operation.

Temperature Sensor Installation

a. Drill a 10 mm hole in the wall at the selected temperature sensor installation location.
b. Remove the retaining nut from the FINNEX temperature sensor holder and insert the holder through the front side of the wall.
c. Apply waterproof silicone sealant around the rear edge of the sensor holder to help prevent moisture penetration. Secure the holder by tightening the retaining nut from the rear side of the wall.
d. Carefully pass the sensor cable through the temperature sensor holder and insert it fully until securely seated.
e. Connect the FINNEX temperature sensor cable to the control panel according to the wiring instructions.



CARE AND USE OF THE CONTROL PANEL

1. Clean the FINNEX control panel using a soft cloth and mild soapy water only.
2. Do not use abrasive cleaning pads, solvents, aggressive chemicals, or harsh cleaning tools.
3. If the front panel or decorative surface becomes damaged, contact a qualified electrician or authorised service technician for replacement.

IMPORTANT SAFETY INFORMATION

Do not install or operate the FINNEX control system without fully reading and understanding the steam generator installation and operating instructions.
Failure to follow these instructions may result in:

- controller malfunction,
- unstable temperature control,
- overheating,
- insufficient steam production,
- equipment damage,
- or unsafe operation.

Do not route control cables inside or close to:

- mains power cables,
- electrical conduit,
- hot water pipes,
- steam pipes,
- or other high-temperature surfaces.

Failure to follow these instructions may result in cable damage or electrical interference. Only use FINNEX control panels with compatible FINNEX steam generators and approved control systems. Use with incompatible equipment may result in controller malfunction, improper operation, or equipment damage.

Where a combined control panel and temperature sensor is used, install the control panel approximately 1.5 metres above finished floor level on a vertical wall surface inside the steam room seating area.
Do not install the control panel:

- directly above the steam head,
- beneath a shower head,
- or in areas exposed to direct steam discharge or excessive condensation.

Incorrect installation may result in inaccurate temperature readings or unstable operation.
Disconnect power to the FINNEX steam generator before connecting or servicing the control panel.
Failure to isolate the electrical supply may result in controller damage or electrical hazards.
Discontinue use of the steam generator and control panel immediately if any signs of damage, overheating, water ingress, or abnormal operation are observed.
Contact a qualified electrician or authorised service technician before further use.

SYSTEM TESTING AND INITIAL OPERATION

1. Open the water supply shut-off valve and switch on the circuit breaker supplying power to the FINNEX steam generator system. Press the control panel Power button to switch on the control panel and steam generator.
2. The FINNEX steam generator will begin filling with water automatically. Heating and steam generation will normally begin within approximately 2–4 minutes.
3. Press the Power button again to switch off the steam generator. The lighting function will switch off automatically if connected through the control system.
4. The temperature displayed on the control panel will increase as steam enters the steam room. When the room temperature reaches the preset temperature value, steam generation will stop automatically until additional heat is required.
5. When the programmed steam session time has ended, the FINNEX system will automatically stop steam generation and switch off connected lighting functions. The automatic water inlet system will also stop operating.
6. Approximately 10 minutes after the steam generator is switched off, the automatic drain system will activate and drain the tank for approximately 7 minutes. After successful testing and verification of correct operation, the FINNEX steam generator may be placed into normal use.

⚠ WARNING:

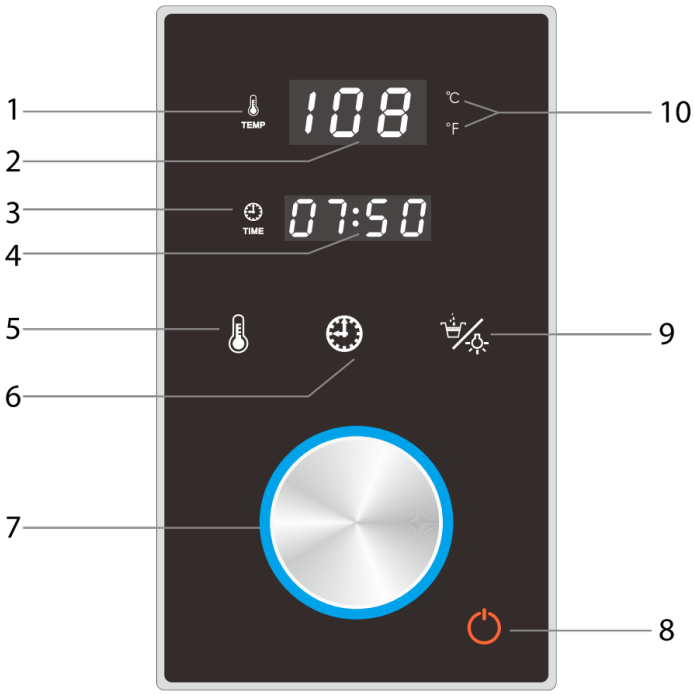
1. *Do not tamper with, modify, block, bypass, or improperly adjust the pressure relief valve while the FINNEX steam generator is operating, hot, pressurised, or connected to the electrical supply.*
2. *Servicing or removal of the pressure relief valve must only be carried out when the steam generator is switched off, fully cooled, depressurised, and disconnected from power.*
3. *Failure to follow these instructions may result in serious injury, steam burns, hot water discharge, equipment damage, or unsafe operation.*

⚠ IMPORTANT: *Do not close, disconnect, or shut off the water supply valve while the FINNEX steam generator is operating.*

CONTROL PANEL DESCRIPTION

GS08N1

1. Steam Operation Indicator Light
2. Steam Temperature Display
3. Steam Session Time Indicator Light
4. Steam Session Time Display
5. Temperature Setting Function
6. Time Setting Function
7. Multifunction Control Dial
8. Power On/Off Button
9. Light Control / Manual Drain Function
10. Temperature Unit Indicator (°C / °F)



OPERATION

ATTENTION: *Water mist or moisture on the control panel screen may affect touch sensitivity and operation. Normal operation will resume once the screen surface is dry.*

Preset Delay Start Function

The preset delay start function allows the steam generator to start automatically after a selected countdown time. The maximum preset delay time is 8 hours and 59 minutes. To set the delay start time, ensure the controller is in standby mode (screen off), then press the Time button . The time display will begin flashing. Within 5 seconds, press the Multifunction Control Dial to enter the delay start setting menu.
Press the Time button again to adjust the hours. The hour display will flash. Rotate the Multifunction Control Dial to select the desired hour, then press the control dial to confirm.
The minute display will then begin flashing. Rotate the Multifunction Control Dial to adjust the minutes and press the control dial again to confirm. The delay-start countdown is now activated.
To save the selected delay time for future use, press and hold the Time button for 3 seconds while the minute display is flashing instead of pressing the control dial. The controller will store the delay time in memory. Once saved, future delay starts can be activated quickly by pressing the Time button while the controller is in standby mode, then pressing the control dial to start the countdown.
If the steam generator is started manually during the countdown process, the delay-start function will be cancelled automatically. When the countdown finishes, the steam generator will start automatically using the last saved temperature and operating time settings.

Power On

Press and hold the Power button on the FINNEX control panel for approximately 0.5–3 seconds to switch on the steam generator system.
The temperature display will show the current room temperature, while the session timer display will show the programmed automatic shutdown time.
The factory default session time is 8 hours unless adjusted manually.
When the steam generation system and heating elements are operating correctly, the steam operation indicator light will illuminate.
When the room temperature rises above the preset temperature value, the heating system will stop automatically.

Once the room temperature falls approximately 1°C below the preset value, the heating system will restart automatically to maintain the selected temperature.
The lighting function may also be operated from the control panel where applicable.

Power Off

A. Automatic or Manual Shutdown
While the FINNEX system is operating, the steam generator may be switched off automatically when the programmed session time expires or manually by pressing the Power button on the control panel.

B. AUTOMATIC DRAIN FUNCTION
Approximately 10 minutes after the FINNEX steam session ends or the steam generator system is switched off, the automatic drain function will activate and operate for approximately 7 minutes.
The manual drain function may also be activated by pressing the manual drain button on the control panel.
When manually activated, the drain cycle will also operate for approximately 7 minutes.
Before the drain cycle is completed, the automatic drain valve may open and close several times. This is a normal operating function of the FINNEX automatic drain system.

Session Time Setting

A. Adjustments
While the FINNEX system is operating, press the timer button to enter the session time adjustment mode.
The hour value will begin flashing.
Rotate the multifunction control dial to adjust the hour setting.
Press the multifunction control dial again to confirm the hour setting and enter the minute adjustment mode.
The minute value will begin flashing.
Rotate the multifunction control dial to adjust the minute setting.

B. Activation and Memory Function
After adjusting the session time, press the multifunction control dial to confirm and save the setting.
Press and hold the timer button for approximately 1.5 seconds to store the programmed session time into memory for future use.
If the setting is not manually saved, the FINNEX system will return to the factory default session time setting.
The factory default session time is 8 hours.

Steam Temperature Setting

Press the temperature button while the FINNEX system is operating to enter the steam temperature adjustment mode.
Rotate the multifunction control dial to adjust the desired steam room temperature.
The temperature display window will show the selected temperature setting.
The adjustable steam temperature range is:

- 25°C to 68°C or
- 78°F to 155°F

When the room temperature rises approximately 1°C above the selected temperature setting, the heating system will stop automatically.
The heating elements will automatically restart once the room temperature falls below the selected temperature setting.
After adjusting the steam temperature, press and hold the temperature button for approximately 1.5 seconds to save the selected temperature setting into memory for future use.
The factory default steam temperature setting is 45°C.

Light Function

When the FINNEX system is operating, press the Light button on the control panel to switch the lighting function on.
Press the button again to switch the lighting function off.

Temperature Unit Selection (°C / °F)

While the controller is in standby mode (screen off), press and hold the Temperature button for approximately 2 seconds to switch between Celsius (°C) and Fahrenheit (°F).
The temperature display will show: “C” for Celsius, “F” for Fahrenheit
The selected temperature unit will automatically be saved for future use.

Multifunction Control Dial Backlight

When the FINNEX system is switched on, the blue backlight of the Multifunction Control Dial will illuminate automatically.

Self-Cleaning / Descaling Function

IMPORTANT: *Before starting the descaling process:*

1. *Switch off the FINNEX steam generator at the control panel.*
2. *Isolate the electrical supply at the circuit breaker.*
3. *Ensure the steam generator is fully cooled.*
4. *Ensure the system is fully depressurised.*

Model Differences

3 kW and 4.5 kW Models

FINNEX 3 kW and 4.5 kW steam generators do not include an integrated descaling inlet.
To introduce citric acid cleaning solution:

1. Carefully remove the pressure relief valve.
2. Introduce the cleaning solution using a large syringe, funnel or suitable servicing tool.
3. The pressure relief valve must only be removed when the steam generator is fully cooled and depressurised.
4. The pressure relief valve must only be removed for approved maintenance procedures described in this manual.
5. Inspect the pressure relief valve and threads for damage before reinstallation.
6. Replace the pressure relief valve if damaged, worn or corroded.
7. Reinstall the pressure relief valve before restoring power or starting the cleaning cycle.
8. Ensure the pressure relief valve is properly seated and securely tightened. Do not overtighten.
9. Do not operate the steam generator with the pressure relief valve removed.

6 kW and Larger Models

FINNEX steam generators rated 6 kW and above include an integrated descaling/service inlet on the pressure relief valve assembly.
This allows citric acid cleaning solution to be added without removing the pressure relief valve.

Descaling Time

The automatic descaling cycle takes approximately 59 minutes to complete.
Including draining and rinsing cycles, the total cleaning process typically takes approximately 60–65 minutes.

Descaling Procedure

1. Before starting the cleaning process, ensure the water tank has been fully drained.

Under normal operation, the FINNEX steam generator automatically drains the tank after each steam session. Therefore, the tank will usually already be empty before descaling begins.

2. With the electrical supply isolated at the circuit breaker, add the required amount of citric acid cleaning solution into the water tank.

A FINNEX 9 kW steam generator typically requires approximately 220 g of citric acid mixed with 500–800 mL of warm water.
The required quantity may vary depending on water hardness and mineral scale build-up.
Ensure the descaling inlet valve is closed before starting the cleaning cycle.

3. Restore power to the steam generator at the circuit breaker.

With the controller in standby mode (screen off), press and hold the Multifunction Control Dial for approximately 2–3 seconds to start the cleaning cycle.
The control panel will display “HOT” during the heating and descaling process and “OPL” once the cleaning cycle has finished.
These are normal operating indications during the cleaning cycle.
Do not start a normal steam session before activating the cleaning cycle.

4. During the descaling process, the FINNEX steam generator will perform automatic heating cycles to help dissolve mineral scale deposits. The cleaning countdown timer will operate automatically throughout the cleaning cycle.

5. Once the cleaning cycle is completed and the controller displays “OPL”, switch the controller off using the Power button and then press the Manual Drain button while the controller remains switched off.

The steam generator will begin draining the cleaning solution from the tank. The draining process typically takes approximately 1 minute.

6. Once the tank has fully drained, switch the controller on using the Power button .

The steam generator will automatically refill the tank with clean water in approximately 30 seconds.
After refilling, switch the controller off again using the Power button and press the Manual Drain button once more to rinse the tank.

7. Once the rinsing water has fully drained, the cleaning process is complete.

Leave the controller switched off.
The automatic drain valve will close automatically after approximately 10 minutes.
The next time the FINNEX steam generator is used, operate the system normally.

Cleaning Interval

In hard water areas, FINNEX recommends descaling every 2 months.
For normal water conditions, descaling every 3 months is recommended.
Regular descaling helps extend the lifespan of heating elements, internal valves and the steam generator tank.

Steam Generator

1.
Make sure:
• Power supply is switched OFF at circuit breaker
• Water tank is fully drained
• Steam generator is cooled down
• System is no longer under pressure

→

2.
Dissolve citric acid in warm water

→

3.
Add citric acid solution through descaling inlet (3 kW / 4.5 kW models require pressure relief valve removal)

4.
Restore power supply at circuit breaker

→

5.
With controller screen OFF, press and hold multifunction dial for 2–3 seconds to start cleaning mode

→

6.
"HOT" will display during cleaning cycle

Approximate cleaning time: **59 minutes**

7.
When "OPL" appears:

Switch controller OFF
Press drain button to drain cleaning solution

→

8.
Turn controller ON to refill tank with clean water

Approximate refill time: **30 seconds**

→

9.
Turn controller OFF and press drain button again to rinse the tank

→

10.
CLEANING PROCESS FINISHED

Automatic drain valve will close automatically after approximately **10 minutes**

TECHNICAL PARAMETERS

Working conditions and characteristics				
Rated voltage	AC220-240V	Rated frequency	50/60Hz	
Component Parameters				
Parts	Rated voltage	Frequency	Rated power	Other
Steam machine	AC220-240V 1Phase	50/60Hz	4.5-18KW	-
	AC380-415V 3Phase	50/60Hz	6-22.5KW	-
Light	AC12V	50/60Hz	3W*1(default)	Optional
	AC220-240V	50/60Hz	200W*1	
Water inlet valve	DC12V	-	5W*1	-
Drain valve	DC12V	-	5W*1	-

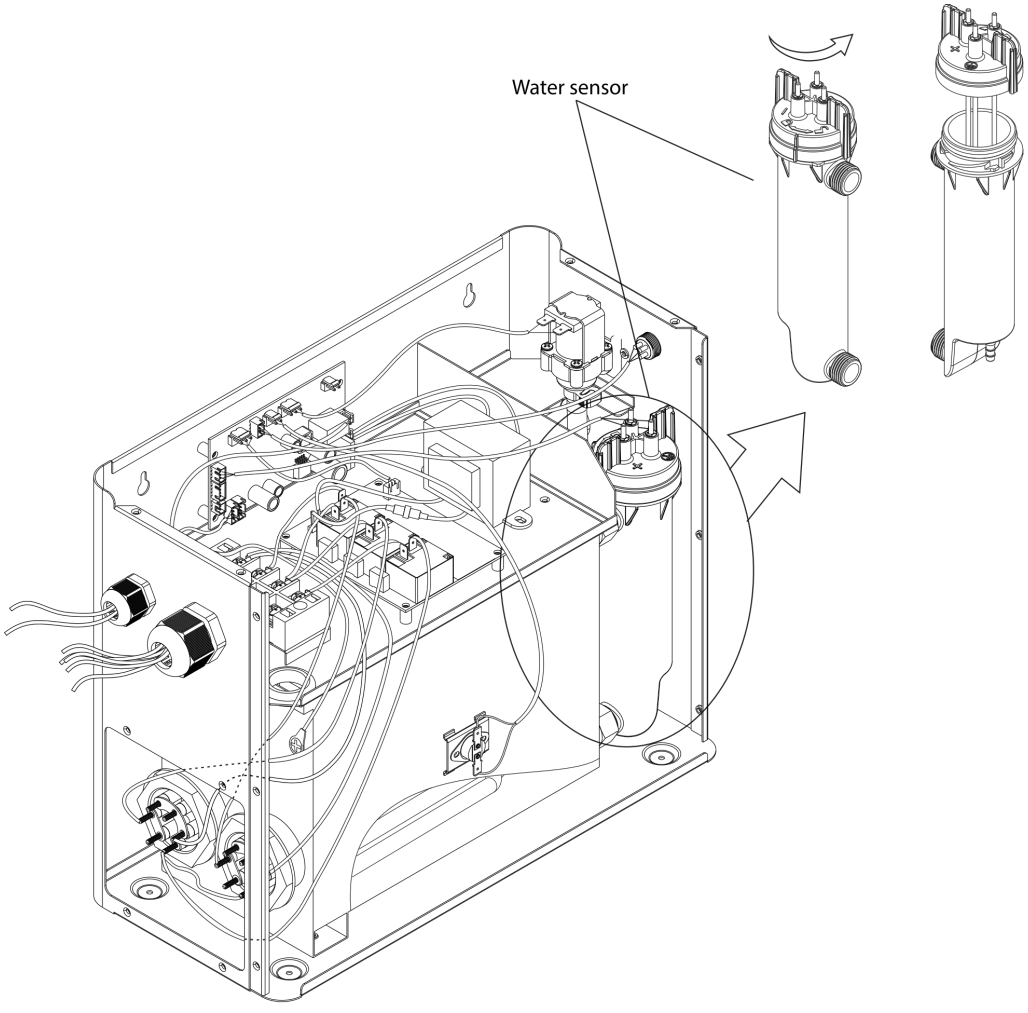
STEAM GENERATOR MAINTENANCE

IMPORTANT: *The FINNEX steam generator automatically performs an automatic drain cycle approximately 10 minutes after each steam session has ended.*

1. Do not isolate the electrical supply at the circuit breaker before the automatic drain cycle has fully completed. This ensures the water tank is completely drained.
2. Regularly inspect the steam generator, steam outlet, pipework and fittings for leaks, corrosion or damage. Components should be inspected and serviced annually if required.
3. Clean the water supply pipework of the steam generator at least once per year.
4. Check all pipe connections regularly to ensure they remain watertight and secure.
5. FINNEX recommends cleaning the water level sensor every six months, especially in hard water areas.

a. Switch OFF the steam generator and isolate the electrical supply at the circuit breaker.
b. Remove the outer cover of the steam generator.
c. Locate the water level sensor.
d. Label all electrical connections before carefully disconnecting them.
e. Carefully rotate the water level sensor approximately 90° anticlockwise by hand and remove it. Do not use a wrench or socket tool.
f. Thoroughly remove all mineral deposits and limescale buildup from the sensor probe.
g. Reinstall the sensor and reconnect all electrical connections securely.

IMPORTANT: *Maintenance and servicing should only be carried out by a qualified electrician or competent service technician.*



STEAM GENERATOR TROUBLESHOOTING

IMPORTANT:

- *Steam generator maintenance and servicing must only be carried out by a qualified plumber or licensed electrician.*
- *Switch OFF the electrical supply at the circuit breaker before carrying out any servicing, maintenance or electrical work on the steam generator.*
- *Shut OFF the water supply where required.*

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Steam generator does not start	1. Circuit breaker tripped 2. Loose electrical connection 3. Loose controller cable connection	1. Reset circuit breaker 2. Check and reconnect wiring 3. Reconnect controller cable and restart system
Circuit breaker trips	1. Incorrect cable size 2. Incorrect or faulty circuit breaker 3. Faulty heating element 4. Moisture or damaged wiring	1. Install correct cable size 2. Check breaker rating and type 3. Replace heating element 4. Inspect and repair wiring
Hot water comes from steam outlet with little or no steam	1. Inlet valve stuck open 2. Inlet valve blocked with debris or limescale	1. Clean inlet valve filter 2. Reconnect inlet valve wiring 3. Replace inlet valve if required
Control panel display does not turn on	1. Loose controller connection 2. Bent or damaged connector pins 3. Faulty controller extension cable 4. Faulty PCB/control board 5. No power supply	1. Check controller cable connections 2. Inspect plugs and connector pins carefully 3. Replace damaged extension cable 4. Replace PCB if faulty 5. Check electrical supply
Water leakage	1. Loose pipe connection 2. Damaged pipe or fitting 3. Faulty inlet or drain valve	1. Tighten connections 2. Replace damaged parts 3. Replace faulty valve
No steam output	1. Overheat protection activated 2. Faulty heating element 3. Drain valve stuck open 4. Water level sensor fault	1. Allow the steam generator to cool down completely. The overheat protection will reset automatically once the unit has cooled. There is no manual reset button. In some cases, overheat protection may activate without displaying the appropriate error code on the controller. WARNING: If overheating occurs repeatedly, the cause must be identified and corrected before further operation. 2. Replace heating element 3. Inspect drain valve 4. Clean or replace water level sensor
Low steam output	1. Partial heating element failure 2. Steam pipe restriction 3. Water level too low 4. Limescale buildup	1. Test heating elements 2. Check steam pipe installation 3. Inspect water level sensor 4. Descale steam generator

Steam does not discharge but boiling water sounds are heard	1. Blocked steam pipe 2. Steam pipe excessively long or bent	1. Inspect and clear blockage 2. Re-route steam pipe correctly
Light does not turn on	1. Failed LED light 2. Loose or damaged light cable	1. Replace LED light 2. Tighten or replace cable
Cold water comes from steam head	1. Faulty water level sensor 2. Loose sensor cable 3. Drain valve stuck open	1. Clean or replace sensor 2. Check sensor wiring 3. Inspect drain valve
E4 error on controller	1. Controller communication failure 2. Damaged extension cable 3. Bent or damaged connector pins	1. Check controller cables 2. Inspect plug alignment 3. Replace damaged cable
Control panel operates normally but no steam is produced	1. Overheat protection activated 2. Faulty heating element 3. Faulty PCB/control board	1. Allow the steam generator to cool down completely. The overheat protection will reset automatically once the unit has cooled. There is no manual reset button. In some cases, overheat protection may activate without displaying the appropriate error code on the controller. WARNING: If overheating occurs repeatedly, the cause must be identified and corrected before further operation. 2. Replace heating element 3. Inspect or replace PCB

IMPORTANT:

- *Disconnect electrical power at the circuit breaker before inspecting or servicing the steam generator.*
- *Maintenance and repairs must only be carried out by a qualified electrician or competent service technician.*

TROUBLE SHOOTING-CONTROL PANEL

ERROR CODE	POSSIBLE CAUSES	SOLUTION
E04	Communication failure between controller and steam generator	Check controller cable connections between the control panel and steam generator. Inspect connector pins for damage or bending and ensure plugs are aligned correctly. Replace damaged cable if required.
E01	Temperature sensor open circuit	Check temperature sensor cable and connections. Replace temperature sensor if faulty.
E02	Temperature sensor short circuit	Inspect temperature sensor wiring for damage or moisture. Replace temperature sensor if required.
E13 / E23	No water detected in the system	Check water supply connections and ensure the water shut-off valve is fully open. Inspect water level sensor and inlet valve.
E15 / E25	Overheat protection activated	E15 / E25 indicates that overheat protection has been activated. This may be caused by operation without water, blocked water supply, water level sensor malfunction, restricted steam flow or overheating of internal components. Allow the steam generator to cool down completely.

		The overheat protection will reset automatically once the unit has cooled. There is no manual reset button. WARNING: If E15 / E25 occurs, the cause of overheating must be identified and corrected before further operation of the steam generator.
E12 / E22	Water filling time exceeded 2 minutes	Check water supply flow rate and ensure the water shut-off valve is fully open. Inspect inlet valve and water filter for blockage or limescale buildup.

IMPORTANT:

- *Disconnect electrical power at the circuit breaker before inspecting or servicing the steam generator.*
- *Maintenance and repairs must only be carried out by a qualified electrician or competent service technician.*

AMPERE METER

Type	Applicable space of the room (m3)	Electricity supply	Max.Electric current (A)	Specifications for power wire
3KW	2~5	220-240V~ (1PH)	13A	14# or 2.5mm^2
4.5KW	4~7	220-240V~ (1PH/2PH)	20.5A	12# or 4.0mm^2
6KW	5~8	220-240V~ (1PH/2PH)	27.3A	10# or 6.0mm^2
		380-415V~ (3PH)	9A	12# or 2.0mm^2
7.5KW	7~9	220-240V~ (1PH/2PH)	34A	8# or 6.0mm^2
		380-415V~ (3PH)	11.4A	12# or 2.0mm^2
9KW	10~12	220-240V~ (1PH/2PH)	41A	8# or 8.0mm^2
		380-415V~ (3PH)	13.7A	12# or 2.0mm^2
10.5KW	12~14	220-240V~ (1PH/2PH)	48A	8# or 8.0mm^2
		380-415V~ (3PH)	16A	12# or 4.0mm^2
12KW	14~16	220-240V~ (1PH/2PH)	55A	6# or 10.0mm^2
		380-415V~ (3PH)	18.2A	12# or 4.0mm^2
13.5KW	16~18	220-240V~ (1PH/2PH)	61A	6# or 10.0mm^2
		380-415V~ (3PH)	20.5A	12# or 4.0mm^2
15KW	18~20	220-240V~ (1PH/2PH)	68.2A	6# or 10.0mm^2
		380-415V~ (3PH)	22.8A	12# or 4.0mm^2
18KW	20~24	220-240V~ (1PH/2PH)	82A	6# or 12.0mm^2
		380-415V~ (3PH)	27.3A	10# or 6.0mm^2
22.5KW	24~26	380-415V~ (3PH)	34A	6# or 8.0mm^2

The specifications above apply to 220–240V~ (1PH/2PH) and 380–415V~ (3PH) power supplies.

The steam generator must be connected to a dedicated hardwired electrical circuit with suitable overcurrent and earth leakage protection.
Install a local electrical isolator within visible reach of the steam generator.
All electrical work must be carried out by a qualified electrician in accordance with local electrical regulations.

TECHNICAL PARAMETER

IMPORTANT:

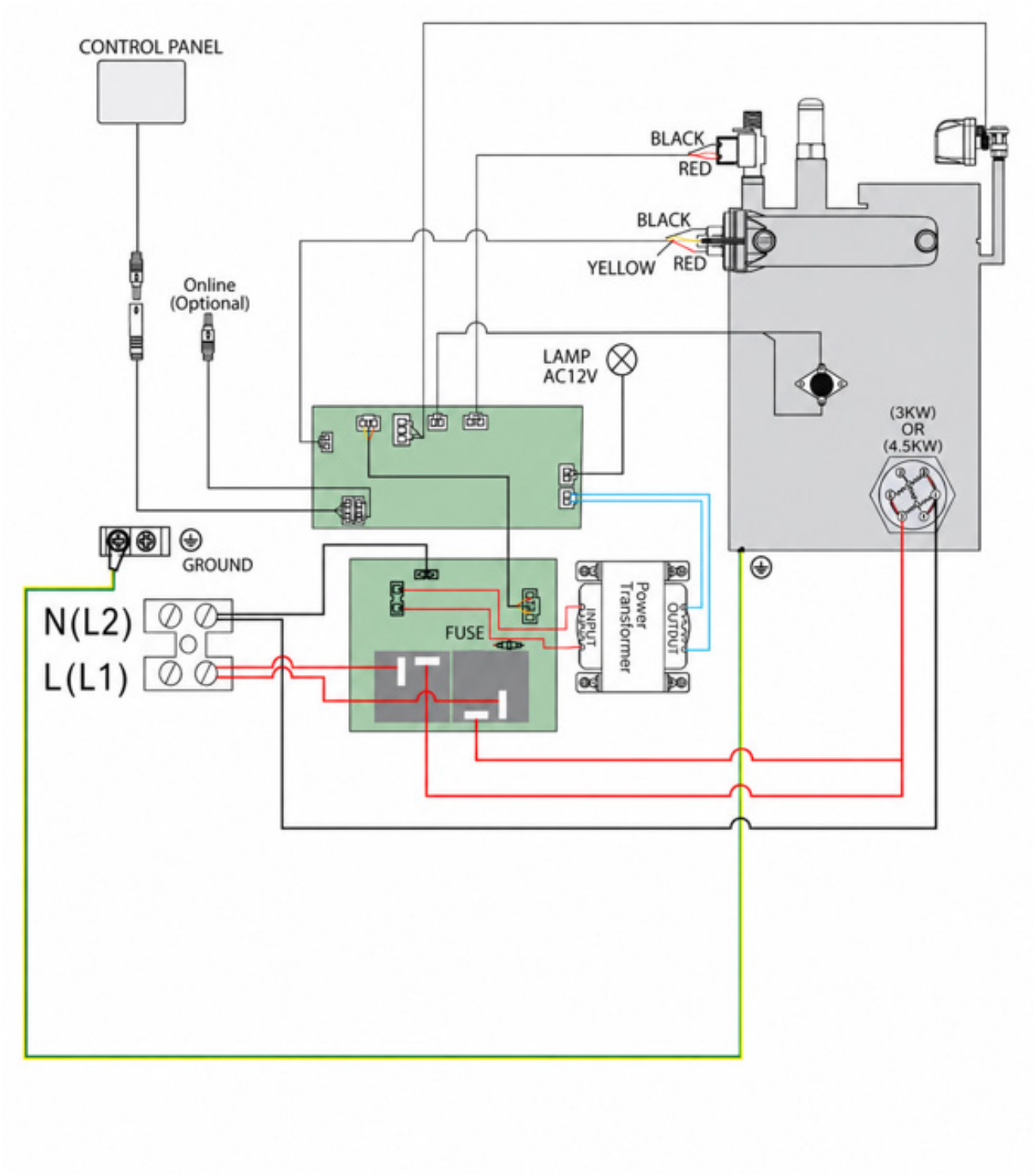
- *The technical information provided above is for reference only.*
- *Installation, inspection, servicing and repairs must be carried out in accordance with local and national regulations.*
- *All servicing and repair work must only be performed by a qualified electrician or competent service technician.*

Type	3KW	4.5KW	6KW	7.5KW	9KW	10.5KW	12KW	13.5KW	15KW	18KW	22.5KW
Power (KW)	3	4.5	6	7.5	9	10.5	12	13.5	15	18	22.5
Errors Range	+5%~10%	+5%~10%	+5%~10%	+5%~10%	+5%~10%	+5%~10%	+5%~10%	+5%~10%	+5%~10%	+5%~10%	+5%~10%
Anti-Static Constant	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V	>1500V
Insulation Resistance	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ	>20MΩ
Steam Pressure (PSI)	15	15	15	15	15	15	15	15	15	15	15
Steam Volume (ml/min)	120	160	180	220	260	300	360	410	450	500	550
Steam Spray Time (sec)	220-300	180-240	150-220	140-200	130-190	200-260	180-240	200-260	150-220	130-190	150-190
Water Vol. (cu. in.)	2.1L	2.1L	3L	3L	3L	6.6L	6.6L	6.6L	6.6L	6.6L	8.2L

IMPORTANT:

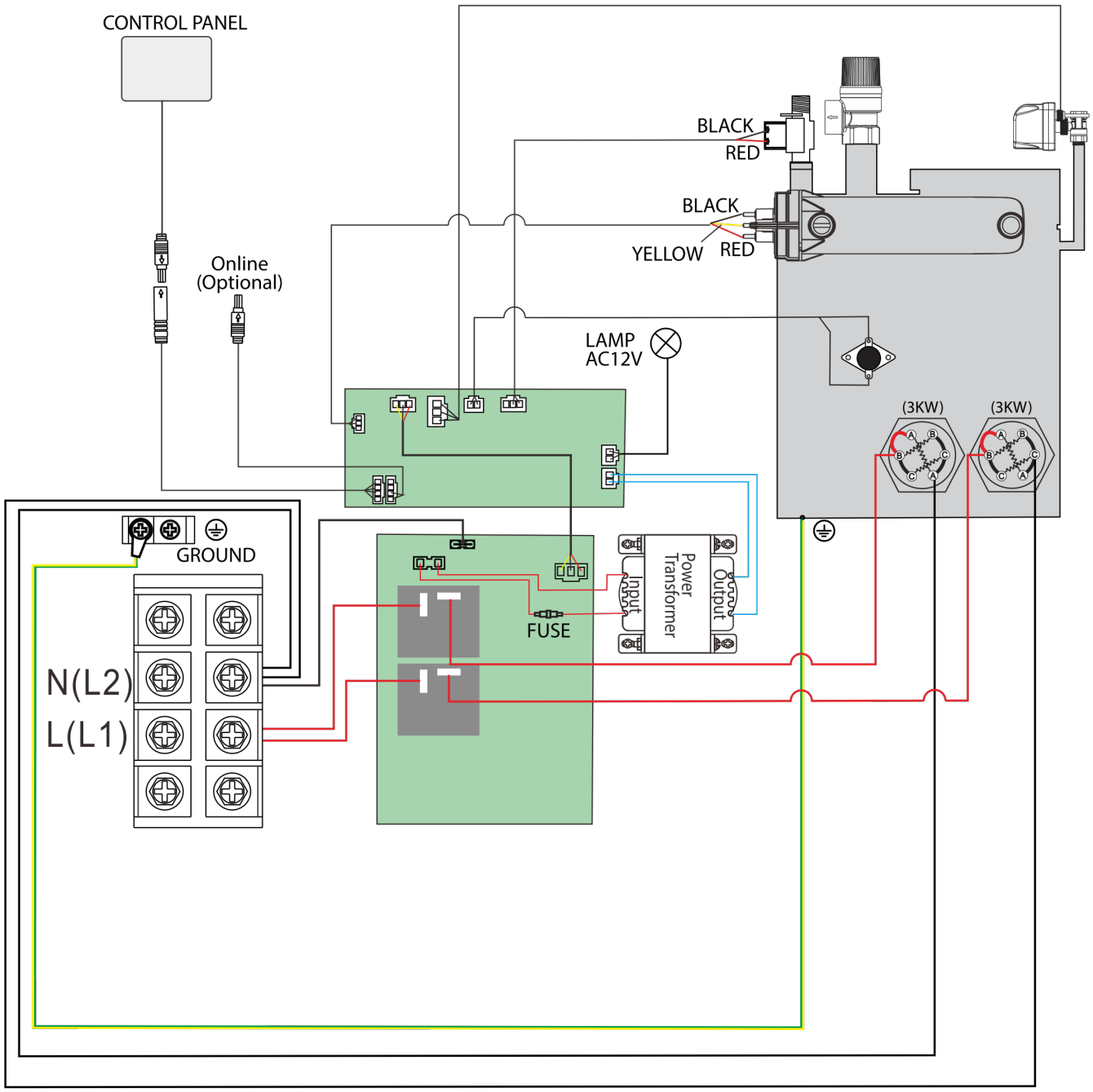
- *The specifications and recommended room sizes provided in this manual are for reference only.*
- *Actual steam room performance may vary depending on room insulation, construction materials, ventilation, ambient temperature and installation conditions.*
- *Final system sizing and installation requirements should be confirmed by a qualified designer, contractor or installation professional.*

WIRING CONNECTION



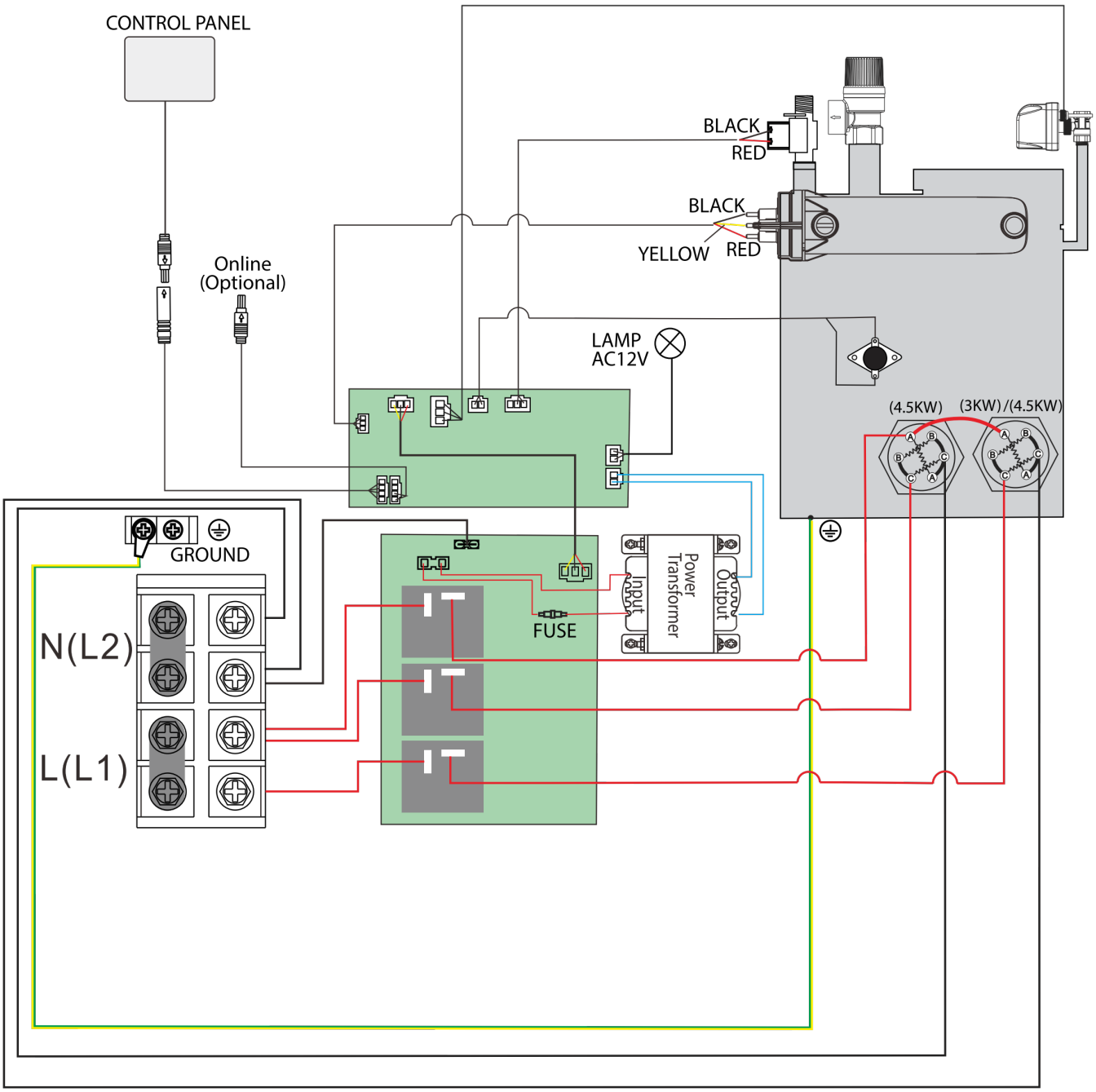
3 kW / 4.5 kW (220–240V / 1 phase)

WIRING CONNECTION



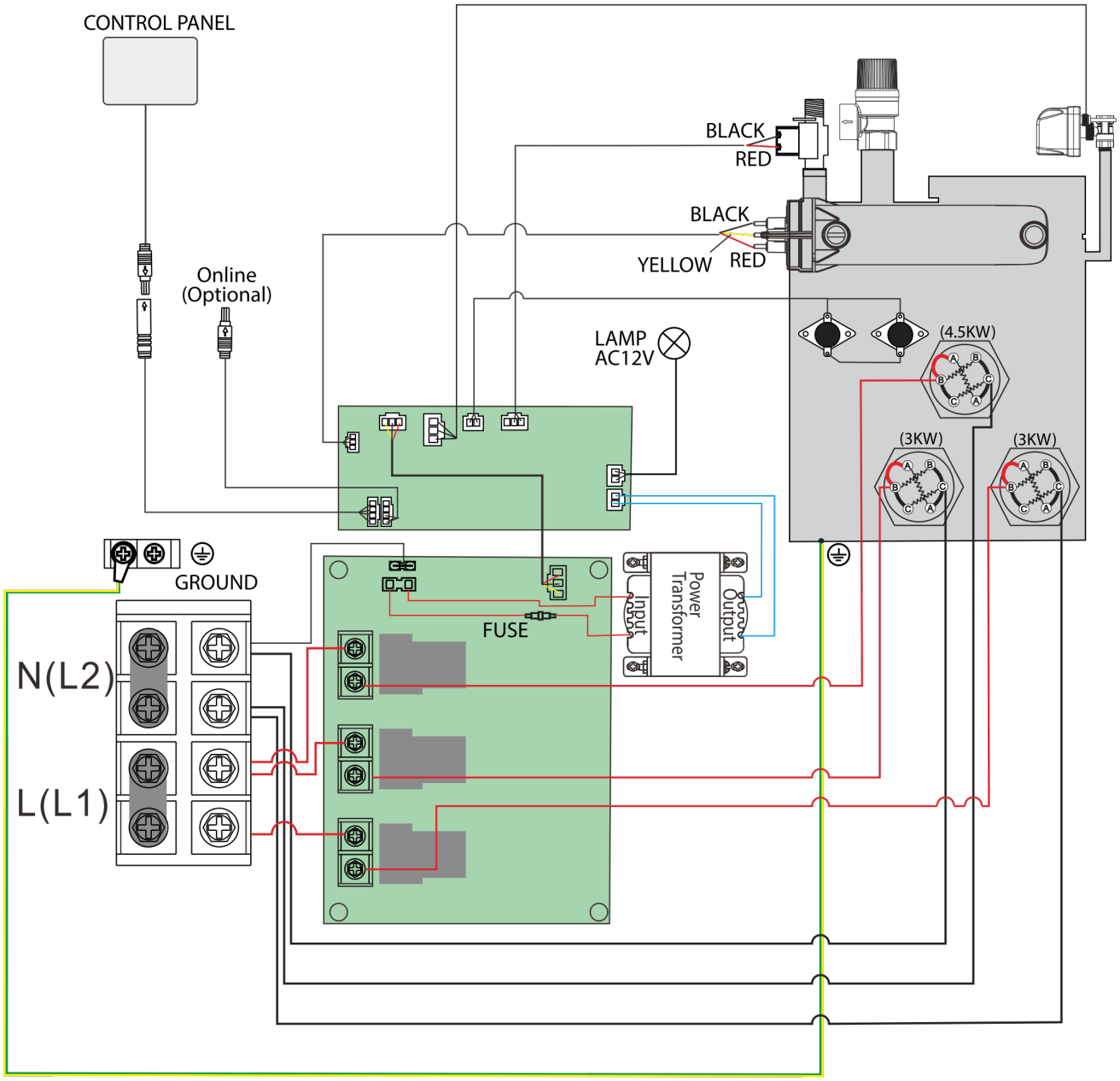
6KW (220V~240V/ 1 phase)

WIRING CONNECTION



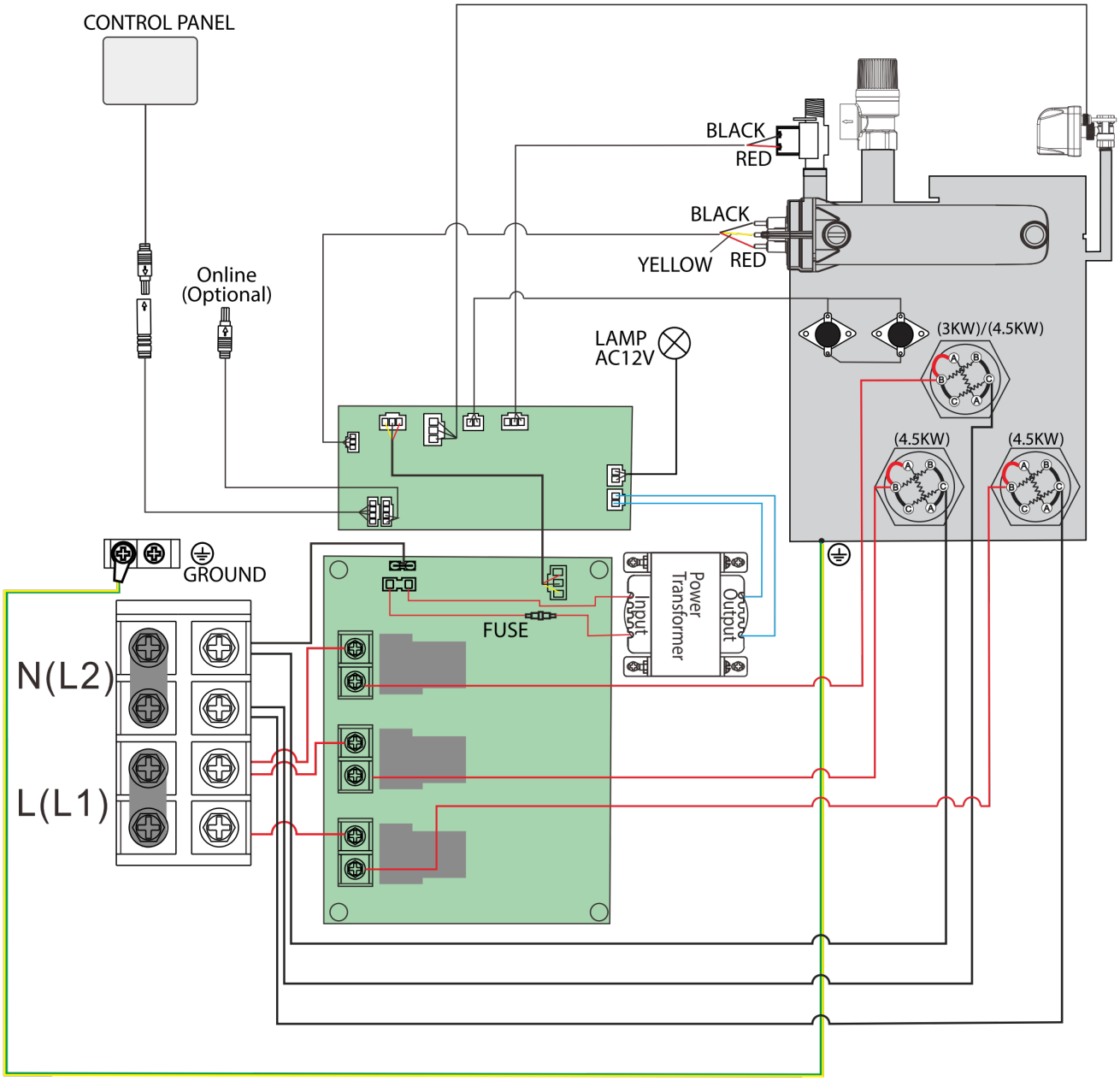
7.5KW/9KW (220V~240V/ 1 phase)

WIRING CONNECTION



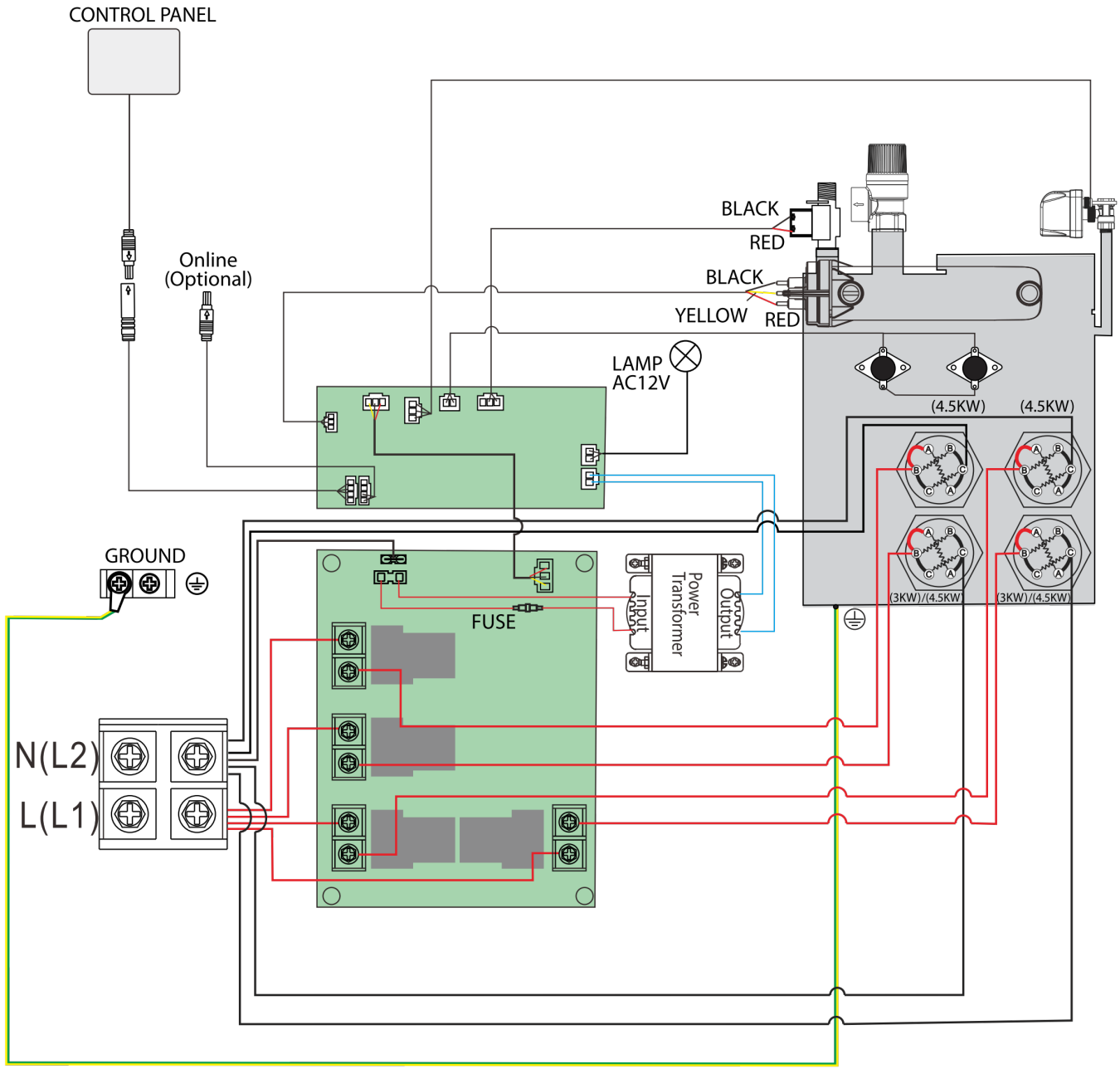
10.5KW (220V~240V/ 1 phase)

WIRING CONNECTION



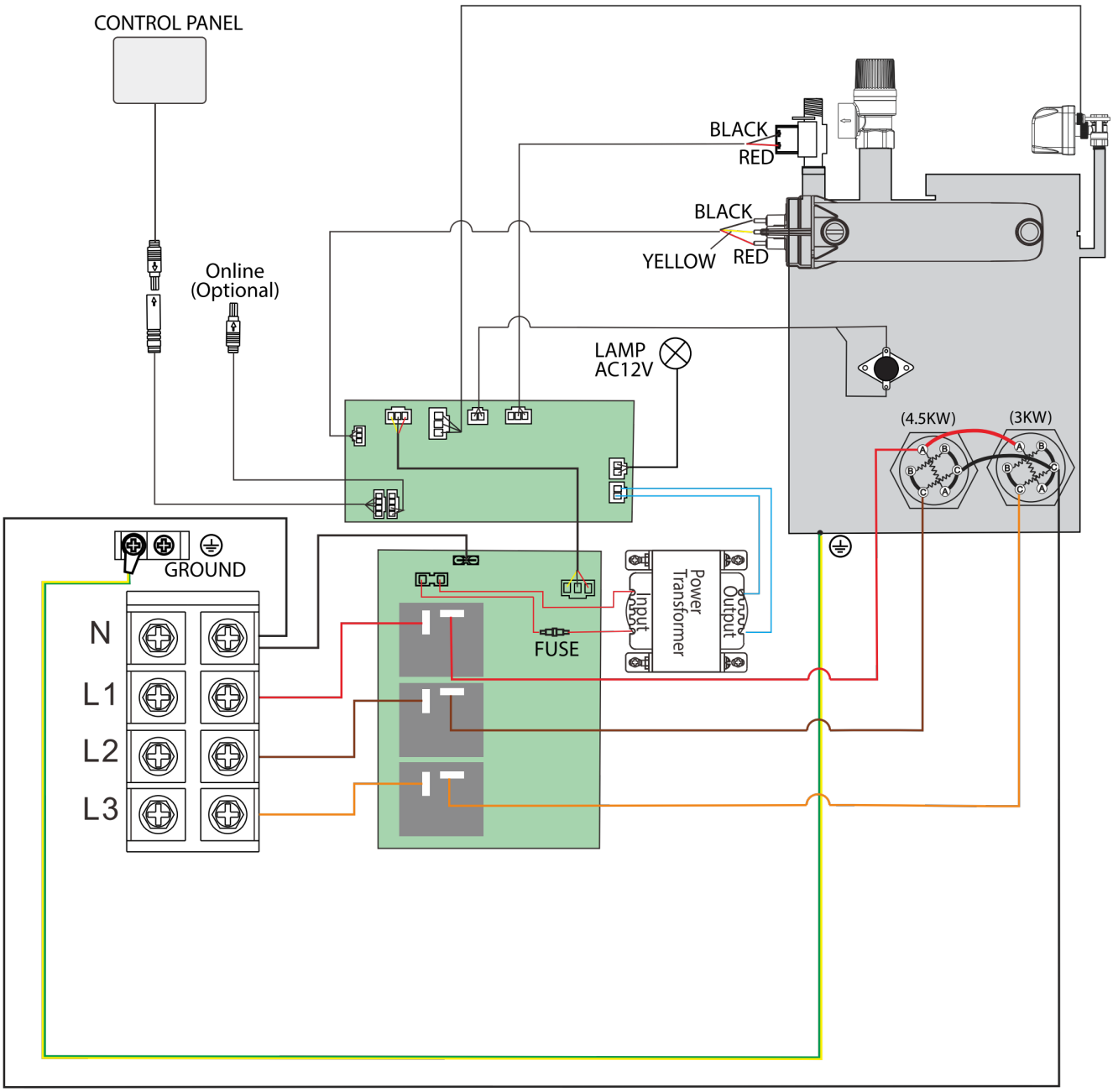
12KW/13.5KW (220V~240V/ 1 phase)

WIRING CONNECTION



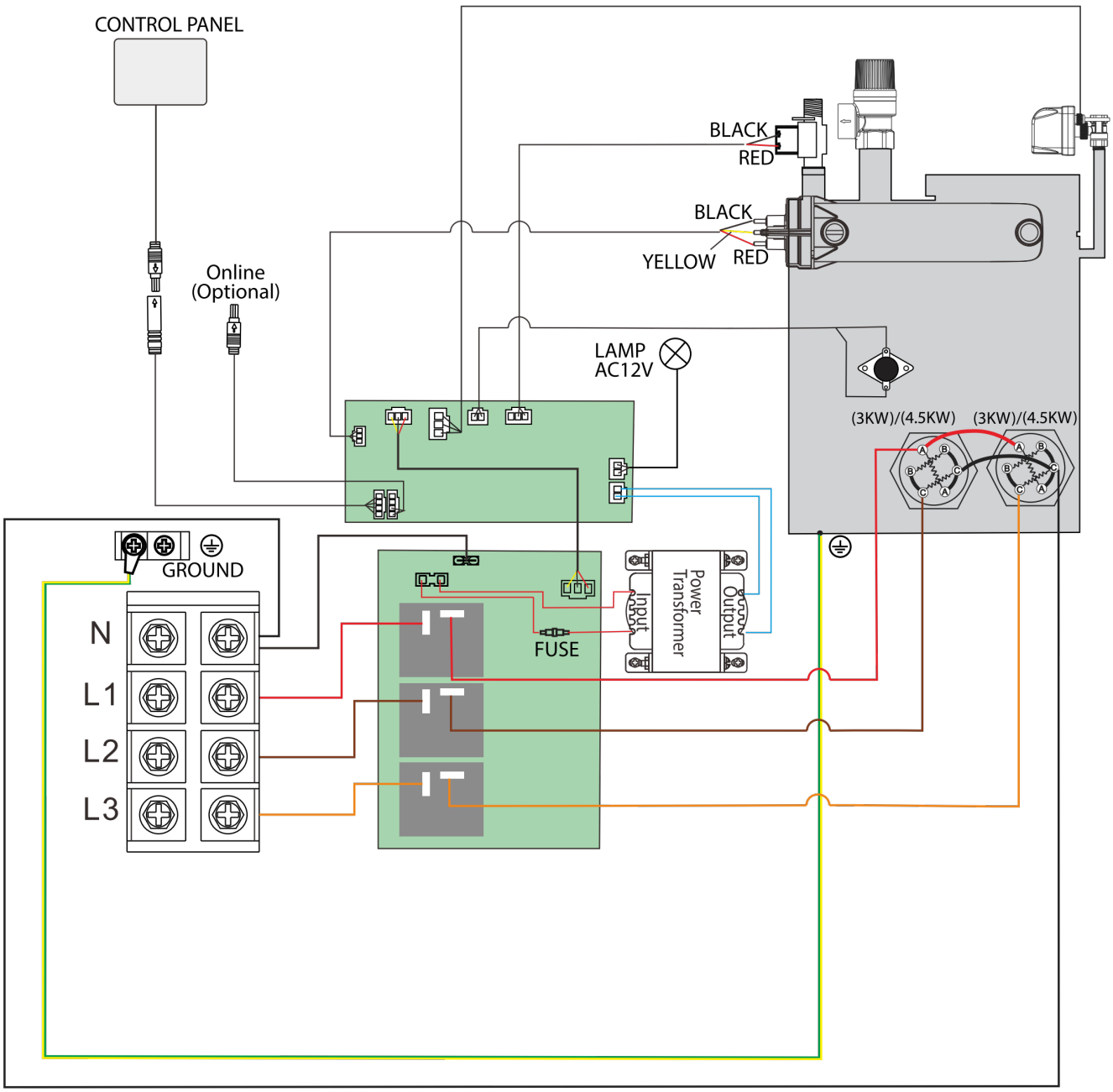
15KW/18KW (220V~240V/ 1 phase)

WIRING CONNECTION



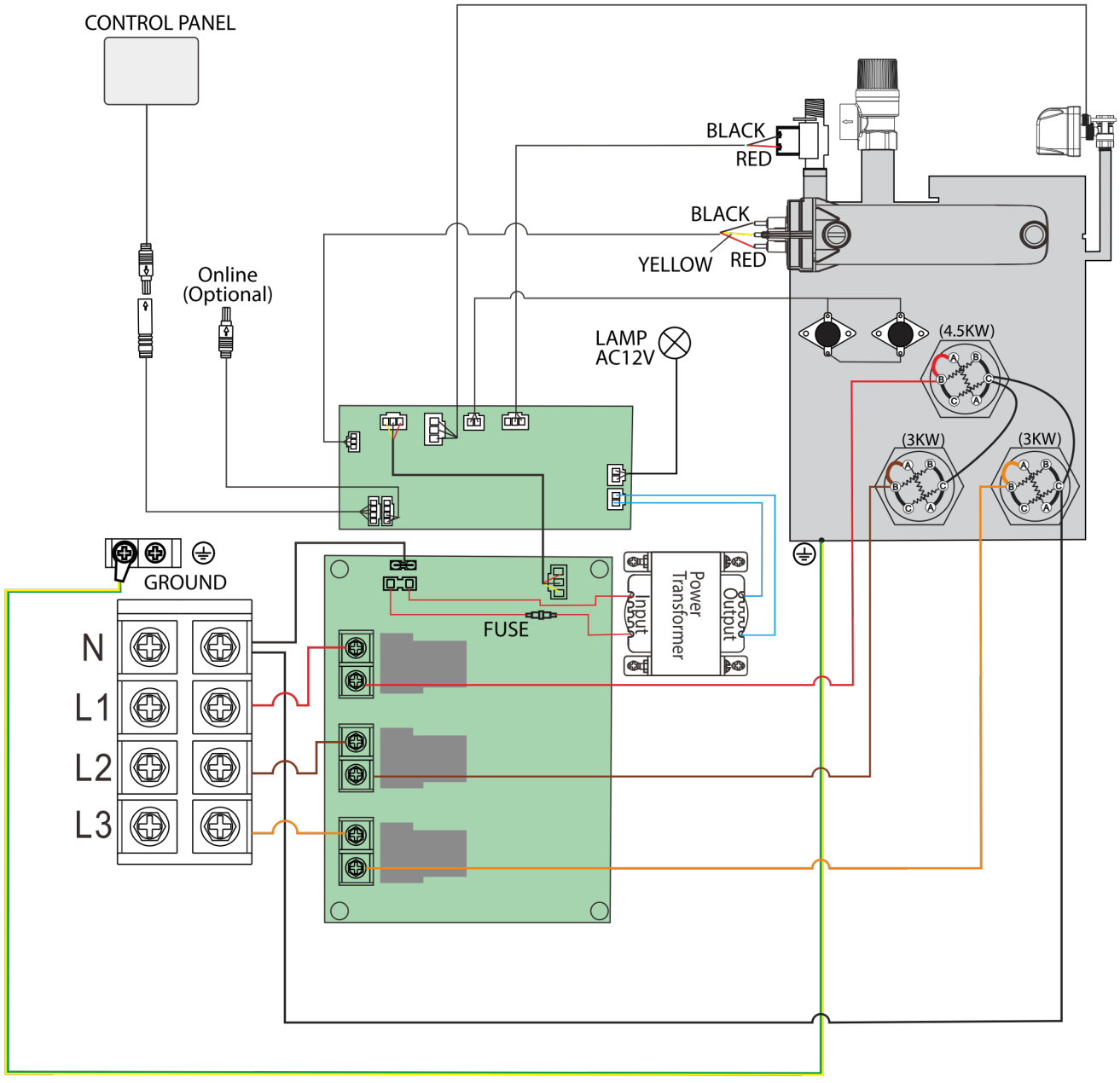
7.5KW (380V~415V/ 3phase)

WIRING CONNECTION



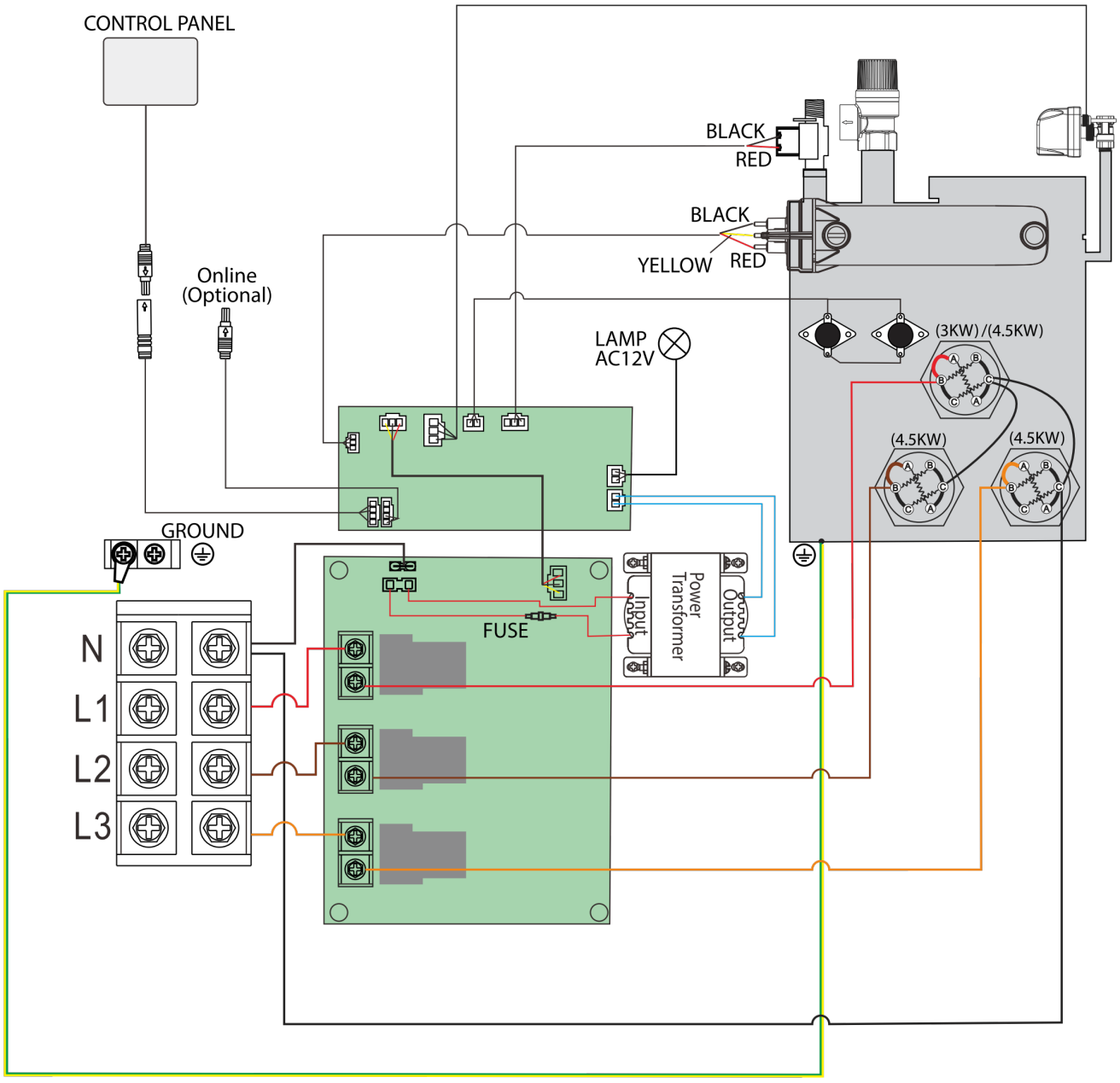
6KW / 9 KW (380V~415V/ 3phase)

WIRING CONNECTION



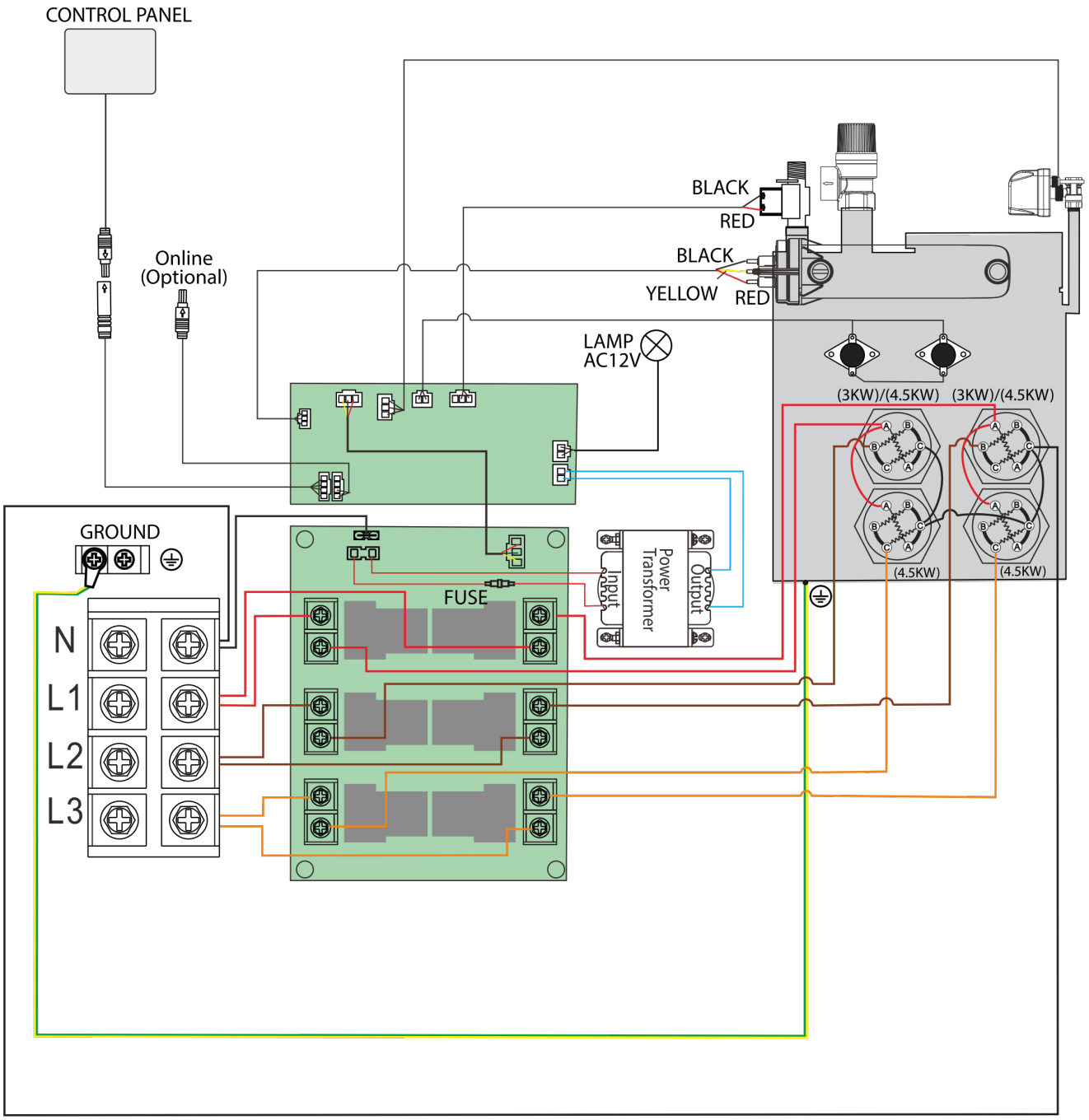
10.5KW (380V~415V/ 3phase)

WIRING CONNECTION



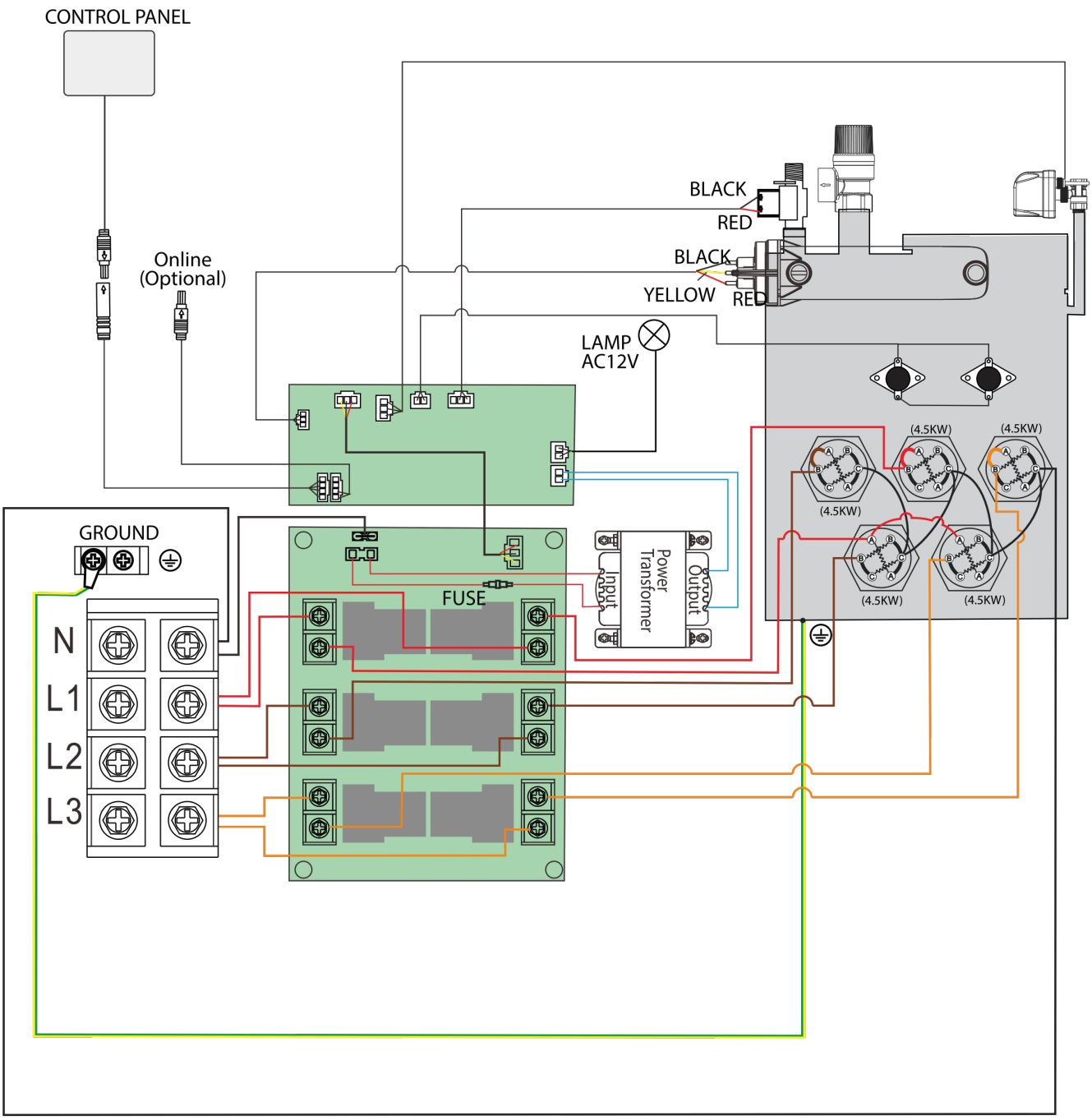
12KW/13.5KW (380V~415V/ 3phase)

WIRING CONNECTION



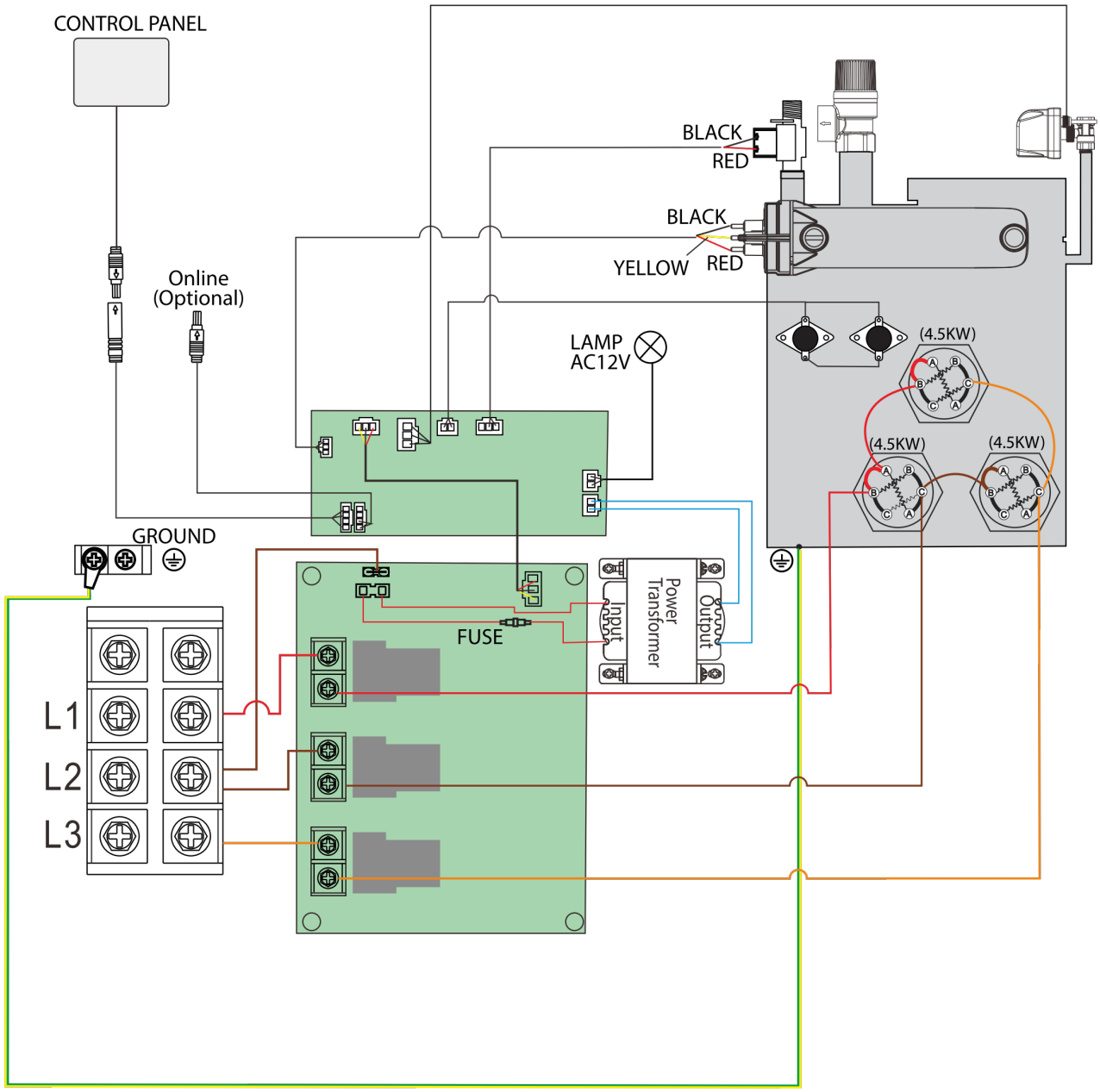
15KW/18KW (380V~415V/ 3phase)

WIRING CONNECTION



22.5KW (380V~415V/ 3phase)

WIRING CONNECTION



12KW (208V/ 3phase)

WIRING CONNECTION

