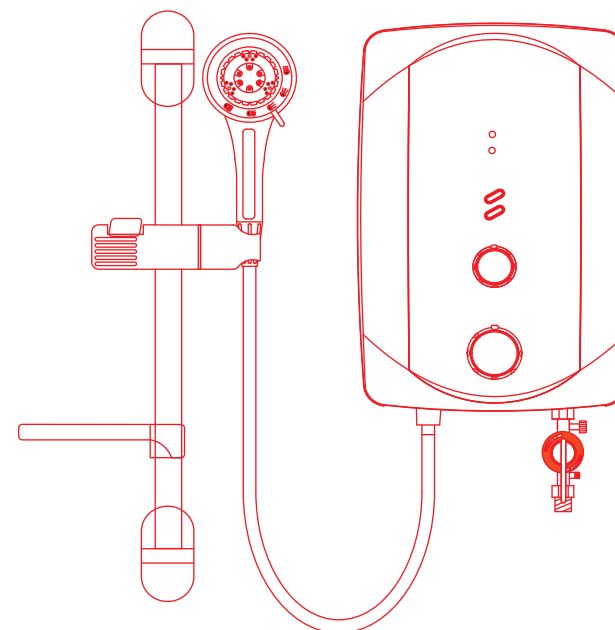




GB Electric instant water heater

VN Máy nước nóng trực tiếp

Thank you for purchasing our instant water heater. Please read the instruction carefully before use.

DESCRIPTION OF WATER HEATER

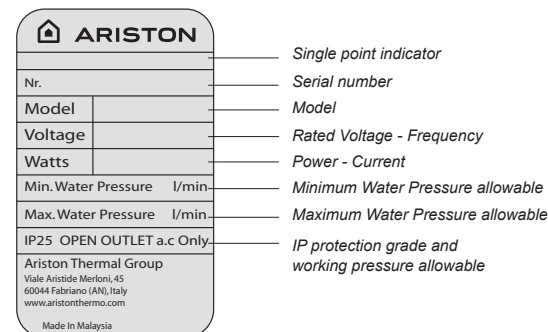
(See Fig. 1)

1. Front Cover
2. Face Panel
3. Indicator lamps
4. Test / Reset Button
5. Pump knob ⁽¹⁾
6. Temperature Control Knob ^{(1) & (2)}
7. Filter Valve
8. Stop Valve
9. Flow Regulator Valve
10. Rail Support
11. Hand Shower
12. Slider Rail
13. Adjustable Shower Holder
14. PVC Hose
15. Soap Tray
16. Back Base
17. Thermostat (Auto & Manual reset)
18. Side Cable Entry
19. Embedded Cable Entry.
20. Terminal Block.
21. Heater Tank
22. ELCB - 2 Pole assy ⁽³⁾
23. Main PCB Board
24. Water Outlet Connection
25. Switch Mode Power Supply Board ⁽⁴⁾
26. DC Silent Pump ⁽⁴⁾
27. TRIAC
28. Potentiometer VR
29. Reed Switch Assy.
30. Water Inlet Connection

-
- (1) For Pump model only
(2) For No pump model
(3) For 2P2T model only
(4) For Silent pump model

TECHNICAL DATA

For technical characteristics, please refer to the appliance data plate



MODEL	WITH PUMP	WITHOUT PUMP
WEIGHT	3.0Kg	2.9Kg
DIMENSIONS	340 (H) X 240 (W) X 68 (D) mm	

WARNING

1. Products manufactured by us are safe provided they are installed, used and maintained in good working order in accordance with our instructions and recommendations. Always refer to this manual if you have any doubt.
2. The appliance must be earthed.
3. If any of the following conditions occur, immediately switch off the mains and contact the sales agent for repair. Never attempt to repair the unit yourself.
 - If the Heater begins to make an odd noise, smell or smoke.
 - ELCB and Heater lamp does not light up.
 - Water temperature can not be controlled.
 - If the Heater shows signs of a distinct change in performance.
 - If found water leakage from inside.

INSTALLATION INSTRUCTION

Caution before installation !

1. Installation must be carried out by a qualified personnel and in compliance to the local authority regulations.
2. This heater must be permanently connected to the direct main current supply. The use of a plug and socket is not recommended.
3. For the correct size of wire conductor corresponding to different electrical loading. Please refer to Table 1.
4. This heater operates at a minimum water flow rate of **2.0 ltr/min**. For direct connection to the water tank, the heater must have a minimum of 1.0m below the water tank.
5. This heater will not function if there insufficient water flow (**min. 2.0ltr/min**) to trigger the flow switch.
6. In time of thunder, turn off the electric current breaker in advance to protect the heater.
7. The built-in ELCB will automatic cut off the power supply in case there is a current leakage as low as 15mA.
8. The thermostat will automatic cut off the power supply if it has sensed an abnormal rise in showering water temperature. Only qualified technicians are allowed to reset the thermal cut-out built inside the appliances.

Install the appliance

1. Select a suitable position in the bathroom.
2. Remove the screw A -(fig.2d) at the bottom of the unit and lift up the Front Cover first at the bottom and then unhook the two parts. Be careful not to break the Two hook which locate at the top of the Front cover .
3. Mark the screws points of the Heater Base on the wall. The Heater position should be 1.5 meter from the bathroom floor.
4. If Shower accessory is available (refer fig.2b & 2c), mark 2 screws points for positioning the Slider Rail set beside the Heater. It is recommended the top of the portion is in level with the top of the Heater.
5. Use 6mm diameter drill and make the wall plug holes for Heater and Shower accessory to 34mm depth.
6. Insert the wall plugs and mount the Heater firmly in position with the screws provided.
7. To mount Shower accessory, remove the Terminal cover from the Mounting terminal and screw the Mounting to position. Close the cover. Insert the Shower Holder and Soap Tray into the Slider Rail. Mount the Slider Rail to the Mounting terminals and screw the second Mounting to position. Close the cover

Water connection

(For model Single-Point)

1. Connect the Stop Valve to the Water Inlet with rubber washer. Use correct tools to tighten and be careful not to break the plastic nut.
2. Insert Mesh Filter washer then connect the incoming water piping end to the Stop Valve (1/2" BSP).
3. Connect the PVC Hose and Hand Shower to the outlet of the Heater, be sure to put in the rubber washer.
4. Hook the Handshower to the Slider Rail Shower Holder and adjust to your ideal position.

Important: The 'Water Outlet' can only be fitted to the PVC Hose and Handshower set provided. NO CONTROL VALVE OR FITTING CAN BE FITTED TO THE WATER OUTLET.

Testing connection

* THE WATER INLET AND OUTLET MUST BE INSTALLED CORRECTLY, OTHERWISE THE HEATER CAN NOT FUNCTION.

* DO NOT USE PLUMBING CEMENT ON CONNECTION. IF NECESSARY, USE ONLY THREAD OR SEALING TAPE..

Turn on the water mains to drain out all plumbing dirt and to fill up the heater tank. Check for any water leakage. (**Important: This step will prevent damage to the heating element**).

Electrical connection

IMPORTANT WARNING:

- This appliance must be **EARTHED**.

- Remember to **SWITCH OFF** at mains before carrying out any electrical work.

- Refer to the **TABLE 1** for the correct cable size.

This product is equipped with a SINGLE POLE ELCB, which in case of mishap will protect the user from leakage current ONLY if the Line and Neutral cable have been connected correctly (i.e. NOT INVERTED)

1. Use double coated flexible cable having nominal cross-sectional area between 4 and 6 mm² [≥ 26.6 , IEC/EN 60335-1].
2. Lead the power cable from the circuit breaker to a "ON/OFF" double bipolar switch (which having a contact opening at least 3mm in all poles) outside the bathroom, then lead a cable connected to terminal block inside the unit (fig.3a)
3. Insert the cable through core hitch 'A' for side entry or hole 'B' below the Back base for wall embedded cable (fig.3b).
4. Connect the cable to Terminal Block and fully tighten them as follow:

BROWN or RED for LIVE (L)

BLUE or BLACK for NEUTRAL (N)

GREEN or Green/Yellow for EARTH ($\oplus$)

5. Check the Wiring connection is tighten and correct then close the Front Cover. When close back the Front Cover, please take note the below procedure:

- To ensure the correct position, turn the Temperature VR Knob Insert to OFF position as shown in fig.4a. (At the Heater Base)
- To install the Front Cover, turn the Temperature Control Knob to OFF position to align with the VR Knob Insert as shown in fig.4b. (At the Front Cover)

** For With Pump models, the same align procedure is apply to both Pump Speed VR Insert and Pump Knob.

6. Fix back the screw A.

Starting and testing

IMPORTANT :

THE HEATER TANK MUST BE FILLED UP WITH WATER BEFORE TURN ON THE ELECTRICITY SUPPLY. THIS IS TO PREVENT ANY DRY BURNT DAMAGE TO THE HEATING ELEMENT.

1. Turn on the water supply and Stop Valve, then wait until the water flow through the Hand Shower.
2. Switch on the electrical supply and the Green LED (ELCB) lamp will turn on.
3. Turn the Temperature Control Knob to 'ON', the Red LED (HEATER) lamp will turn on, the hot water will come out in a few seconds. The higher the temperature indicator position, the hotter is the shower.
4. The shower might not be hot enough even at the 'MAX' position if the incoming water supply from the mains is too cold or the flow too high. In this case, you can adjust the water inflow in order to get the desired showering temperature.
5. Check the Built-in ELCB as follow :
 - Press the " TEST " Button, the unit should trip and cut off the power supply, all LED lamps should light off.
 - Press the " RESET " Button, the unit should resume normal function, Green LED lamp should light on.
 If the above mentioned procedure prevail, the ELCB is functioning in normal condition.
6. If Shower accessory is available, the height and the direction of the Shower Holder is adjustable. By pressing the release button and slide the Shower Holder to the desired position. Move the Handshower to the desired angle. A ratchet mechanism in the Shower Holder will holds the Handshower in the selected position (fig.5).
7. It is not necessary to turn the Temperature Control Knob to 'OFF' position when the Heater is not in use.
8. SWITCH OFF the electrical power supply after shower.

FOR PUMP MODEL :

9. Turn on the Pump Speed Control Knob to test run the pump. If the shower is not hot enough, you can adjust the Knob to reduce the pump speed until you get the desired shower temperature.

MAINTENANCE

Read the section 'WARNING' first.

Test the “ELCB” regularly

(For ELCB models only) (fig.6) (This procedure is highly recommended.)
 Turn on the electricity and water supply, the Green ELCB lamp will light up. If the Temperature Control Knob is in 'ON' position, the Red HEATER lamp will light up also. Press the ELCB Test Knob, the ELCB and HEATER lamp should go off. Press the Reset Knob to resume the electricity supply.
If the ELCB or HEATER lamp does not go off when you press the ELCB Test Knob, SWITCH OFF the mains supply and contact your sales agent for repair. Special skill is required for repair. NEVER try to repair the unit by yourself.

Cleaning precaution

Do not use thinner, alcohol, petrol or any other organic solutions to clean the set, use only a damp cloth with mild detergent.

Clean the filter regularly

There are two filters located at the stop valve, one is Mesh Filter (installed at the incoming water supply), another one is the built-in Filter as shown in fig.7a.

Clean the Mesh Filter regularly to prevent blockage. Remove the built-in Filter by turn it anti clockwise as shown in fig.7a. Take out the Filter and flush it with water to remove any trapped sediments. (as shown in fig.7b)

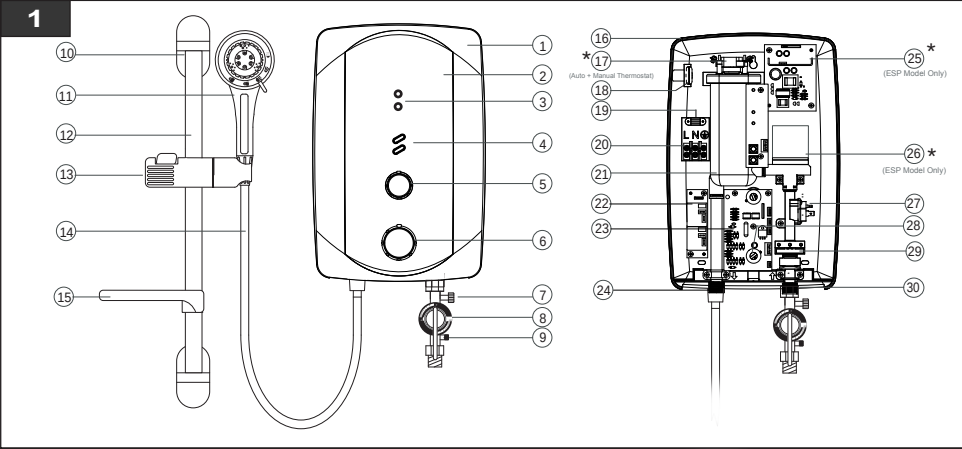
Shower head cleaning

Turn and remove the Mist Column Ring with plier and then remove screw and take out the Spray Ring for Cleaning purpose. Be careful when fixing back, it must be tight fit, otherwise water will leak (fig.8a)

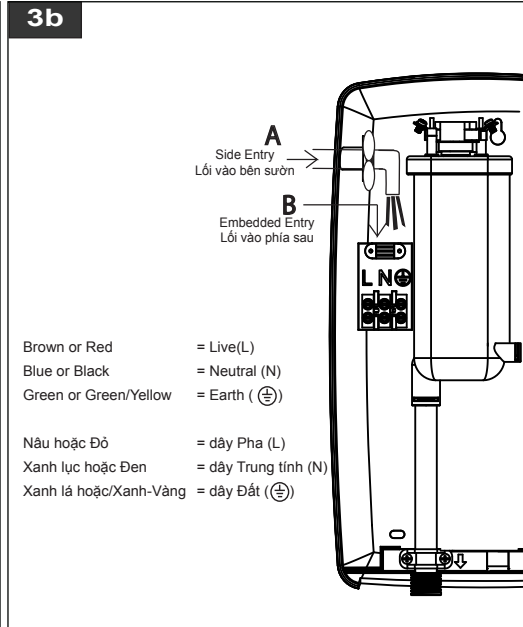
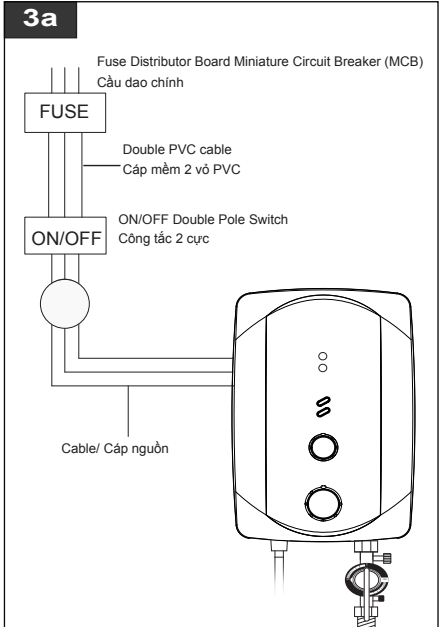
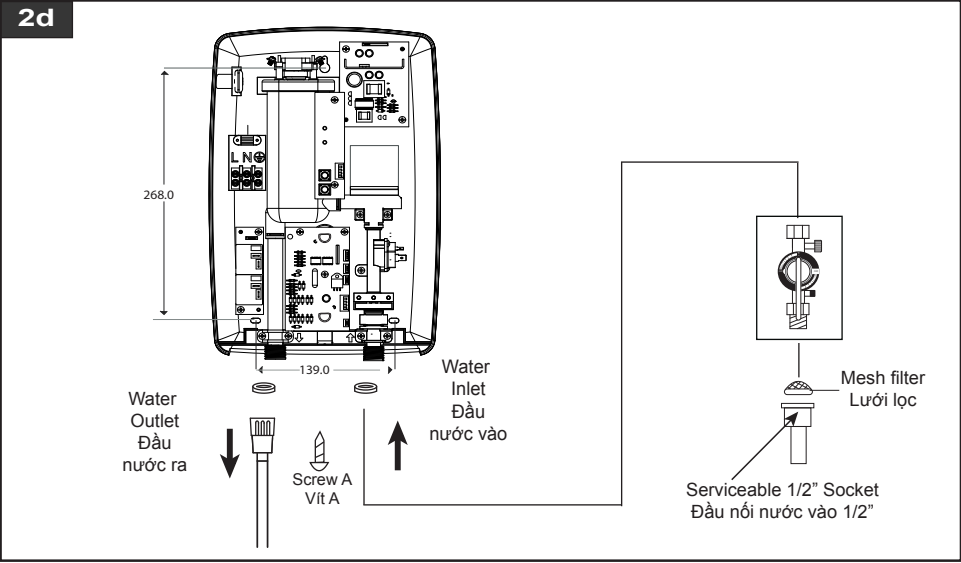
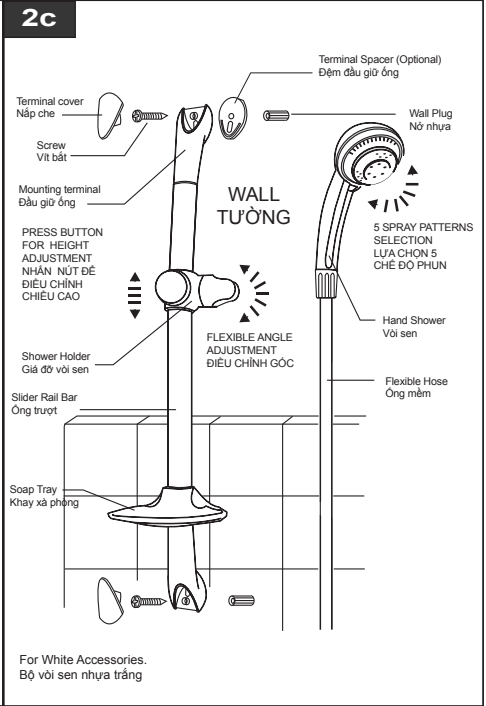
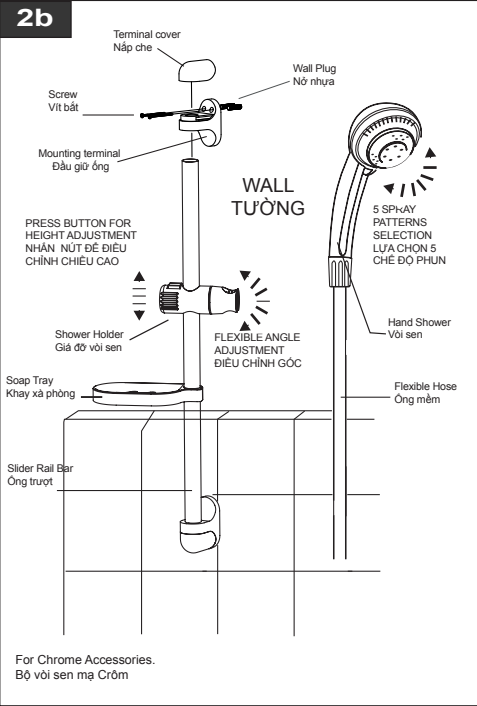
This innovative adjustable Handshower has 5 different spray actions (STANDARD, JUMBO , SOOTHE , MIX and MASSAGE). The actions are described as fig.8b.

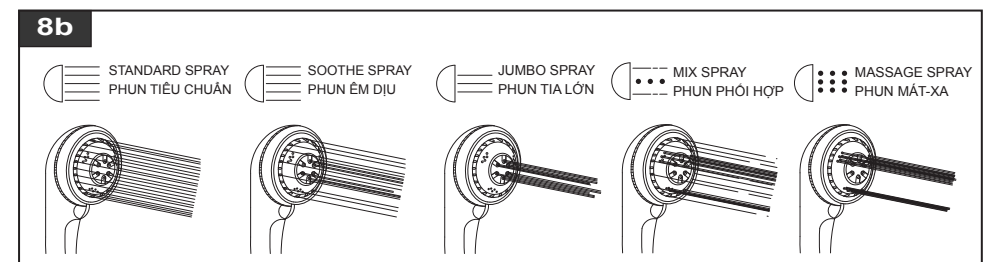
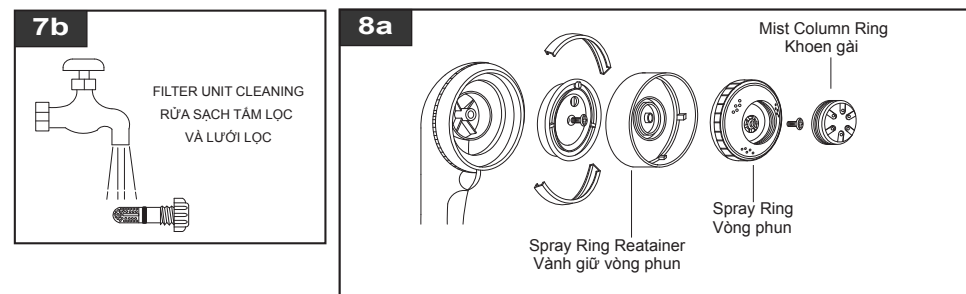
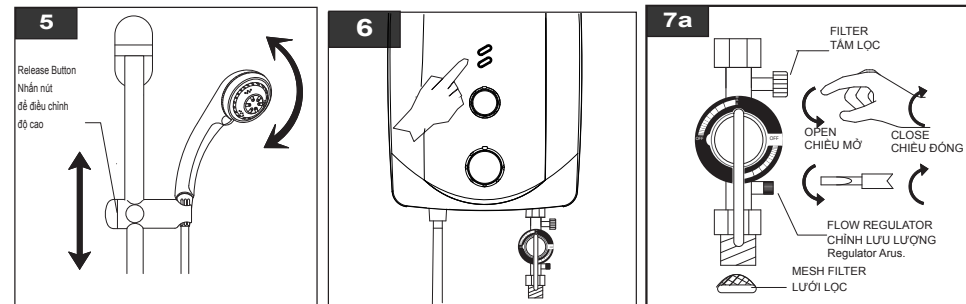
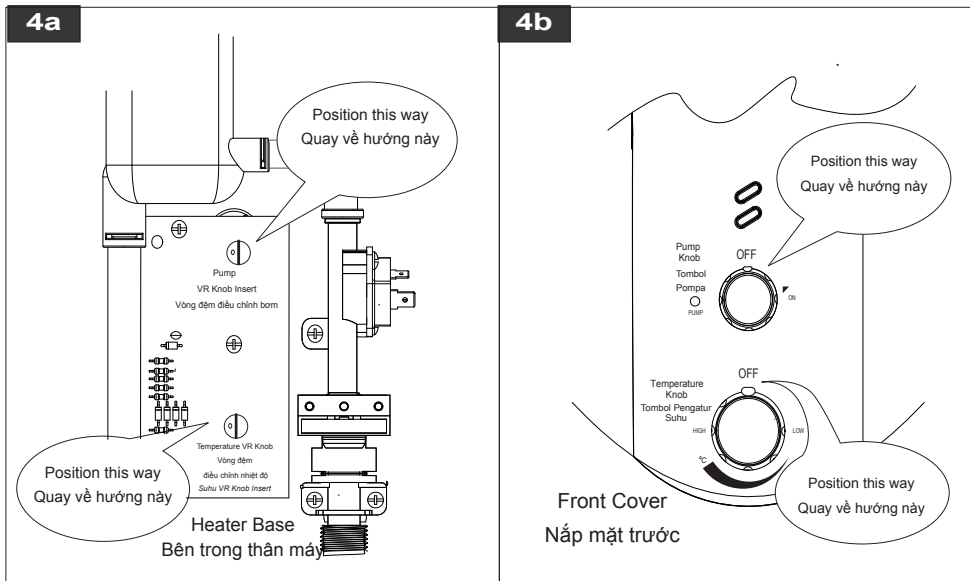
Note : The specification, actual product's cosmetic design and accessories parts shown are correct at the time of printing and may be subjected to change without prior notice. Shower Accessories parts are optional for Multi-Point Models.

DESCRIPTION OF WATER HEATER
MÔ TẢ MÁY NƯỚC NÓNG TRỰC TIẾP

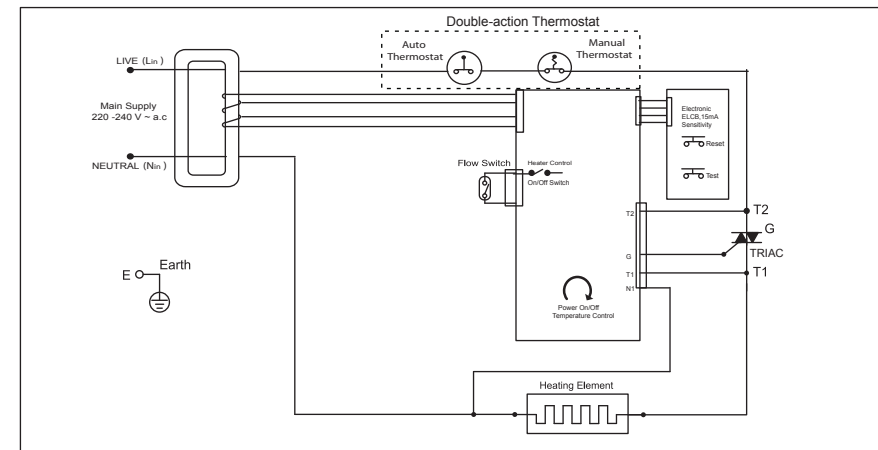


INSTALLATION DIAGRAM
SƠ ĐỒ LẮP ĐẶT MÁY NƯỚC NÓNG





WIRING DIAGRAM - NO PUMP FOR SINGLE POINT MODEL



WIRING DIAGRAM - SILENT PUMP FOR SINGLE POINT MODEL

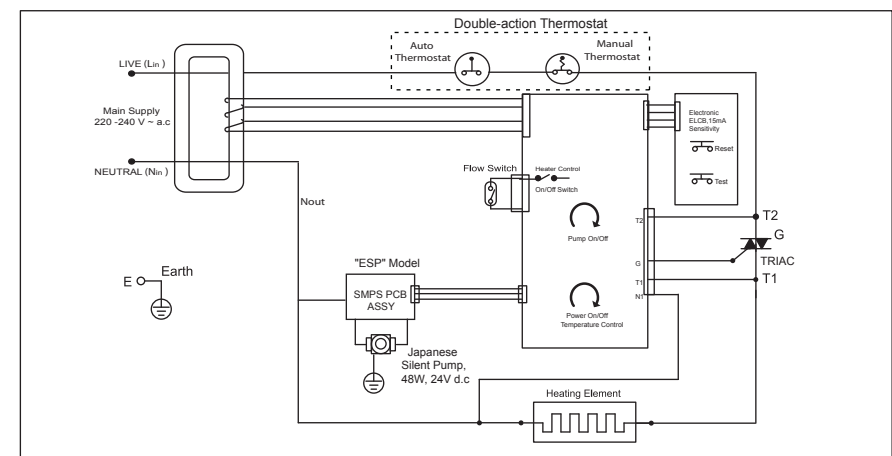


TABLE 1 - ELECTRICAL LOADING TABLE
BẢNG 1 - BẢNG LỰA CHỌN KÍCH THƯỚC DÂY

Voltage (AC)	Power (kW)	Current (A)	Conductor Size (csa)			On/Off Switch (A)	Fuse / MCB (A)
			mm ²	Conduit Cable	Flexible Cable		
240V~ 50/60 Hz	3.3	13.8	2.5	7 / 0.67 mm	50 / 0.25 mm	20	16
	3.6	15.0	2.5	7 / 0.67 mm	50 / 0.25 mm	20	20
	4.0	16.7	2.5	7 / 0.67 mm	50 / 0.25 mm	32	20
	5.0	20.8	4.0	7 / 0.85 mm	56 / 0.30 mm	32	32
230V~ 50/60 Hz	3.0	13.0	2.5	7 / 0.67 mm	50 / 0.25 mm	20	16
	3.3	14.3	2.5	7 / 0.67 mm	50 / 0.25 mm	20	16
	4.0	17.4	2.5	7 / 0.67 mm	50 / 0.25 mm	32	20
	5.0	21.8	4.0	7 / 0.85 mm	56 / 0.30 mm	32	32
220V~ 50/60 Hz	2.4	10.9	2.5	7 / 0.67 mm	50 / 0.25 mm	20	16
	3.5	15.9	2.5	7 / 0.67 mm	50 / 0.25 mm	20	20
	4.5	20.5	2.5	7 / 0.67 mm	50 / 0.25 mm	32	32
	5.5	25.0	4.0	7 / 0.67 mm	56 / 0.30 mm	32	32
	6.0	27.3	4.0	7 / 0.85 mm	56 / 0.30 mm	32	32