ATMOR

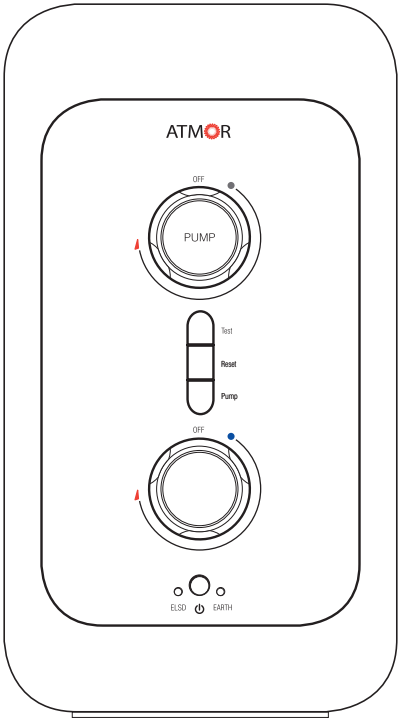
Hot Water on Demand

Installation and Operation Guide

ATMOR 100 Series

Models: 100, 100V, 101, 101V, 101P, 101PV, 102, 102V, 102P, 102PV

Instant hot water heater provides endless supply of hot water
while significantly conserving energy and water



www.atmor.net

P.N. 000000

Dear Customer,

Thank you for purchasing Atmor instantaneous water heater:

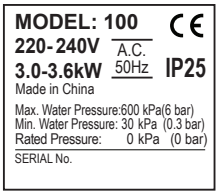
- High energy efficiency
- Slim design
- Flow controlled

1. Carefully read the instructions below.
2. Check the data on data sticker and compare it with your mains voltage.
3. The heater must be installed and put into operation by a licensed specialized.

- Do not switch ON the heater when it obviously frozen in.
- The heater operates at a minimum water flow rate of 1.6L/Min. For direct connection to the water tank, the heater must have a minimum of 1.0m below the water tank.
- Separate electric circuits must be provided for the heater via a double pole linked switch with a minimum contact gap of 3mm in both poles and must be permanently connected to the direct main current supply. The switch must be readily accessible and clearly identifiable and out of reach of person using a fixed bath or shower.
- The use of a plug and socket is not recommended.
- The 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
- Using Double Pole ELSD For Phase and neutral ,Optional Single Pole ELSD

Technical data

For technical characterizes, please refer to the appliance Data sticker:



Sample Data Sticker

Model	With pump	Without pump
Weight	2.3 kg	1.9 kg
Dimensions	381 (H) * 215 (W) * 77(D) mm	

WARNING!

"Earth" Led (Blue), indicate the product properly grounded to protect from electrocution. In case the EARTH led is OFF switch OFF the incoming power supply and call proffesional electrician.

1. **The appliance must be earthed.**
2. If any of the following conditions occur, immediately switch off the mains and contact Service. Never attempt to repair the unit yourself.
   - If the heater begins to make an odd noise, smell or smoke.
   - ELSD 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.

Note: The control knobs are integral parts of the cover – do not attempt to remove them.

- Unscrew the bottom & top A& B (fig.1) retained screws and lift the cover from the back plate.
- Use the back plate as a template and mark the fixing holes.
- The heater position should be 1.5 meter from the bathroom floor. (fig.2)
- Drill the holes: 2 Options: (Fig 3 Or Fig. 4) and insert the wall plugs.
- Insert the cables through the cable entry of the heater.
- Fit the heater to the wall. (Fig 3 Or Fig 4)
- To mount the shower accessory, mark 2 screws points for positioning the slider rail set beside the heater. It is recommended the top of the portion with the top of the heater.

  Remove the terminal cover from the mounting terminal and screw the mounting to position. Close the cover.

  Insert the shower holder and soap Tray.

  Close the cover.

1. For the correct size of wire conductor corresponding to different electrical loading, please refer to table 1.
2. The built – in ELSD will automatic cut off the power supply in case there is a current leakage as low as 15mA. To ensure correct operation of the ELSD, DO NOT installs this product if the line voltage is lower than 175V.
3. The thermostat will automatic cut off the power if it has sensed an abnormal rise in showing water temperature. Only qualified technicians are allowed to reset the thermal cut- out built inside the appliances.

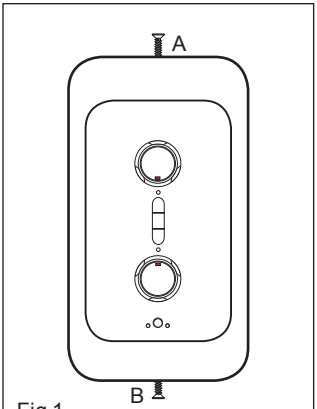


Fig.1

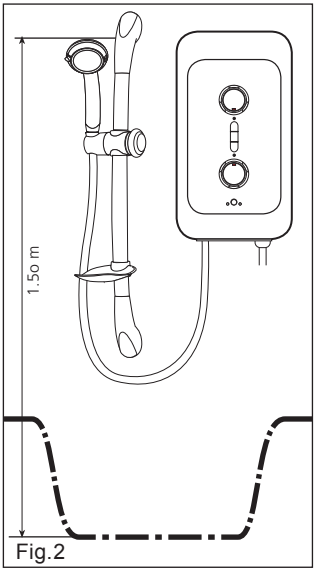


Fig.2

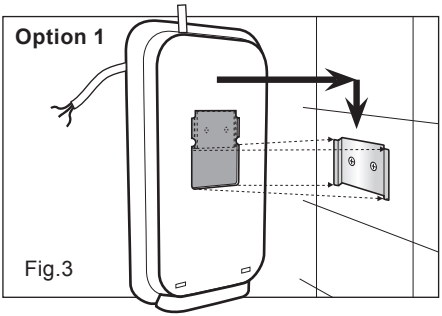


Fig.3

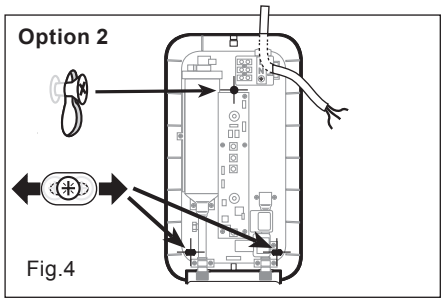


Fig.4

Warning: The outlet of the heater acts as a vent and MUST NOT be connected to any TAP, CONTROL VALVE OR FITTING TO THE WATER OUTLET.

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 hand shower to the slider Rail Holder and adjust to your ideal position.

- 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).**

INCORRECT INSTALLATION

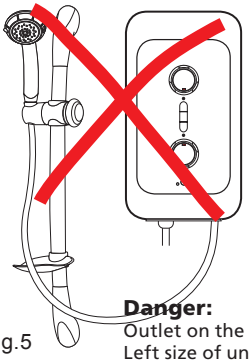


Fig.5

CORRECT INSTALLATION

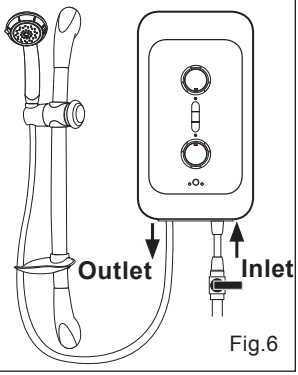


Fig.6

This appliance must be EARTHED.

The EARTH continuity conductor of the electrical installation must be effectively connected electrically to all exposed metal parts of other appliances in the room in Which the heater installed.

SWITCH OFF at mains before carrying out any electrical work.

Refer to the Electrical Loading Table (Table 1) for the correct cable size.

DO NOT install this product if the line voltage is lower than 175V.

1. Use double coated flexible cable having nominal cross-sectional area between 4 and 6 mm^2. (IEC/EN 60335-1).
2. Lead the power cable from the circuit breaker to a “ON/OFF” double bipolar switch outside the bathroom, then lead a cable connected to terminal block inside the unit (fig.5).

   Note: Conduit entry can only from rear.
3. Connect the cable to terminal block and fully **tighten** them (insure no cable insulation is trapped under the screws) as follow: (fig.5)
   BROWN or RED FOR LIVE (L)
   BLUE or BLACK for NEUTRAL (N)
   GREEN or Green/ Yellow for EARTH (⏚).
   The cable clamp must be used to secure the cable. (fig.6)
4. Check the wiring connection is tightens 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 knob insert to OFF position as shown in fig.8. (At the heater base).
   - To install the front cover, turn the temperature control knob to OFF position to align with the knob insert as shown in fig.8 (At the front cover).

   For pump models, the same align procedure is apply to both pump speed VR insert And pump knob.
5. Fix back the screws A & B. (fig. 7)

   Do not switch on the electricity supply until the cover has been fitted.

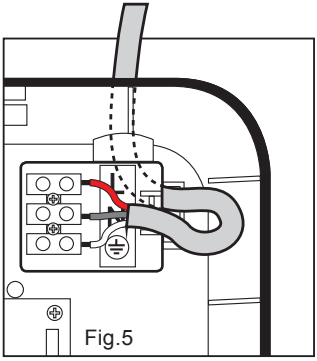


Fig.5

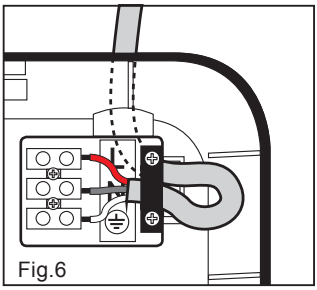


Fig.6

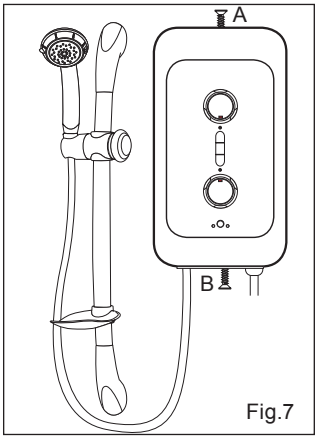


Fig.7

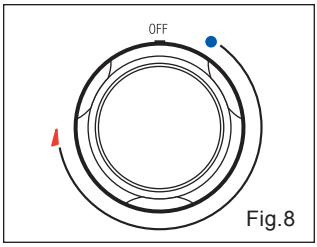


Fig.8

Testing

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 (**J**) then wait until the water flow through the Hand shower.
2. Switch on the electrical supply and the Green Led (ELSD) lamp will turn on (**F**).
3. Turn on the temperature control knob (**E**) 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 enough even at the maximum 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 ELSD as follow:
   - Press the "TEST" button (**B**), the unit should trip and cut off the power supply,
   - All leds lamps should light off.
6. Press the "RESET" button (**C**), the unit should resume normal function, Green LED lamp should light on. If the above mentioned procedures prevail, the ELSD is functioning in normal condition.
7. If shower accessory is available, the height and the direction of the shower holder is adjustable.

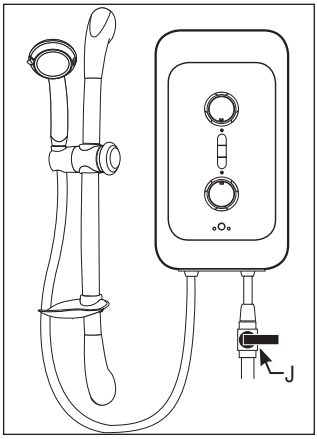
For pump model:

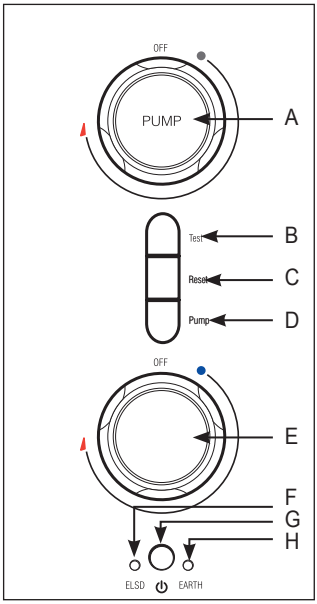
8. Turn on the pump control knob (**D**) to test run the pump.

   If the shower is not hot enough, you can adjust the knob (**A**) to reduce the pump speed until you get the desired shower temperature.

For power ON/OFF ⏻ model:

9. After turn ON supply (**J**) and press power ON/OFF button (**G**) then wait until the water flow through the hand shower.





Read the section 'WARNING 'first.

Test the "ELSD" regularly

Turn on the electricity (**G**) and water supply (**J**), the green ELSD lamp (**F**) will light up. If the temperature control knob (**E**) is in 'ON' position; the red heater lamp will light up also.

Press The ELSD test knob (**B**), the ELSD and heater lamp should go off. Press the reset knob (**C**) to resume the electricity supply.

If the ELSD or heater lamp does not go off when you press the ELSD test knob, SWITCH OFF the main supply and contact service. NEVER try to repair the unit by yourself.

The users shall test the built in ELSD at least once a month to ensure the heater is safe to use.

Clean the filter

Remove the filter by turn it anti clockwise and flush it with water to remove any trapped Sediments.

Fitting and cleaning the Shower head

Warning: Metallic / chromed hose and conductive control valve shall not be used. (Apply for products installed in Malaysia only)

- Fit the two end brackets to the Rod.
- Place the brackets with rod onto the wall and mark the position on the two screw holes.
- Fit the end brackets, holder and rod onto the wall with the wall plugs and screw provided.
- Fit the flexible hose to the shower head.
- Connect the flexible hose with shower head to the heater using the rubber sealing washer.
- Place the shower head in the holder.
- The heater is now ready to be fitted to the electrical supply.

Note: The shower head must be periodically clean to ensure no blockage occurred.

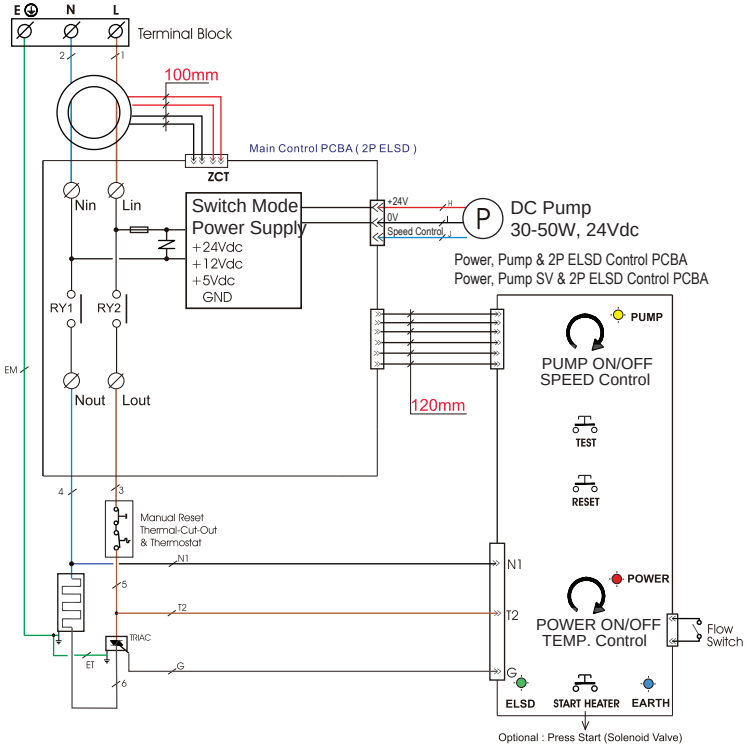
Do not use thinner, alcohol, petrol or any other organic solutions to clean the set.

Table 1: Electrical Loading Table

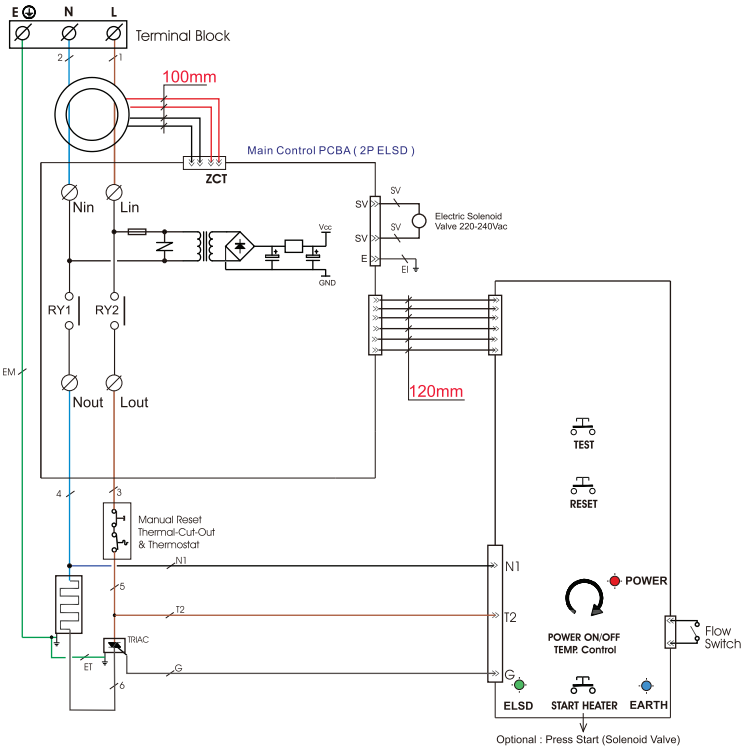
Wattage	Amperage (AMPs)			Cable Size (mm^2)
	1Ø 220V	1Ø 230V	1Ø 240V	
2kW	9.1	8.7	8.3	$2.5mm^2$
3.3kW	13.6	13.0	12.5	$2.5mm^2$
3.5kW	15.0	14.3	13.7	$2.5mm^2$
4.5kW	20.5	19.5	18.8	$2.5\text{-}4.0mm^2$
5.5kW	25	23.9	22.9	$4\text{-}6mm^2$
6.5kW	29.5	28.2	27.0	$4.0\text{-}6.0mm^2$

Wattage	Amperage (AMPs)			Cable Size (mm^2)
	1Ø 220V	1Ø 230V	1Ø 240V	
7.5kW	34.1	32.6	31.3	$4.0\text{-}6.0mm^2$
8.5kW	38.6	37.0	35.4	$6.0\text{-}10.0mm^2$
9.5kW	43.2	41.3	39.6	$6.0\text{-}10.0mm^2$
	3Ø 220V	3Ø 230V	3Ø 240V	
8.5kW	12.9	12.3	11.8	2.5^2
9.5kW	14.4	13.7	13.2	2.5^2

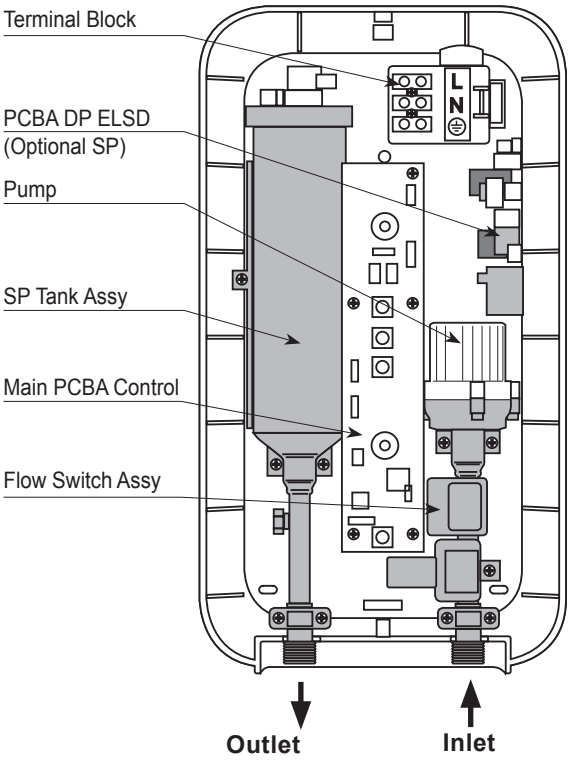
Wiring Diagram - With Pump

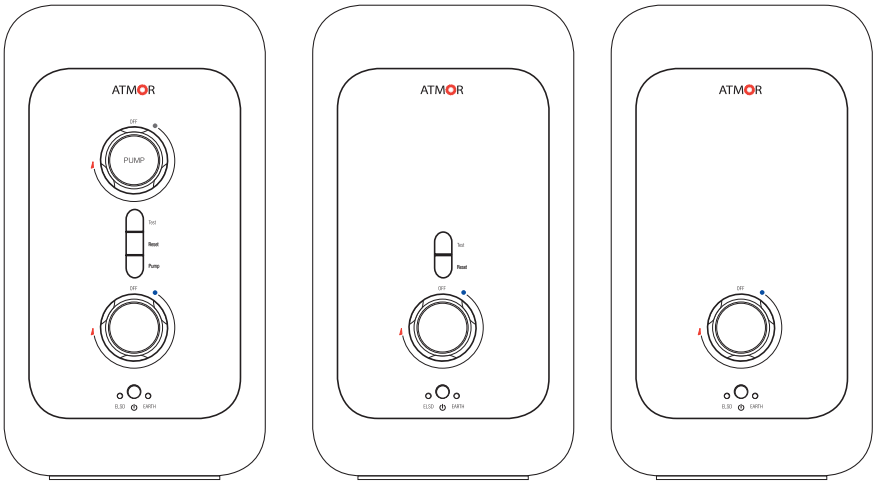


Wiring Diagram - Without Pump



Part List





ELSD+PUMP Model Cover | ELSD Cover | Cover

Trouble shooting

ATMOR
Hot Water on Demand

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Water no! hot enough	Too much waler flowing through the heater	Reduce the flow rate of the waler via the outlet tap.
	Reduction In tha ambient temperature	Switch to higher temperature setting.
	Water Pressure below of 1.0bar	Check if the mains stop valve is fully open and that the there are no other restriction in the supply line.
	Electrical Mallunction	Have the Heater unit check by a qualified electrician or contact your local authorised distributor.
Water too hot	Not enough Water flowing through the heater	Increase the flow rate via the outlet tap
	Increase in the ambient temperature	Switch to lower temperature setting
Heater switch Off during use	Interruption of mains electrical supply	Check incoming power supply, MCB, switches and supply cabling. Check earth leakage and reset ELSD
	ELSD trip, possible earth leakage	If problem persists, call your local authorised distributor for assistance.
Water ceases to flow	Blockage of spray head, twisted or blocked flexible shower hose.	Clean or replace sprayheed, check for free passage of water through hose. Replace as necessary.
	No water supply.	Check water supply, stop valve Open? and no blockage.
Water temperature varies from hot to cold during use	Water pressure has dropped below min. level.	Increase hot water supply,
No hot water despite fully open hot water faucet	No electrical power	Check the circuit breaker and check voltage at the wiring block.
	The activation flow rate needed to turn on the heating element has not been reached.	Clean filter screen • Turn circuit breaker off • Open hot valve to release pressure from the unit. • Turn circuit breaker on.