

AMORE electric shower



Installation and operating instructions

Installers please note these instructions are to be left with the user



A

1

The showerhead and hose supplied with this product are a safety critical part of your shower. Failure to use genuine Triton parts may cause injury and invalidate your guarantee.

PLEASE READ THIS IMPORTANT SAFETY INFORMATION

Products manufactured by Triton are safe and without risk provided they are installed, used and maintained in good working order in accordance with our instructions and recommendations.

- **A WARNING: DO NOT** operate shower if frozen, or suspected of being frozen. It must thaw out before using.
- **A Do NOT** operate the unit if the showerhead or spray hose becomes damaged.
- **Do NOT** restrict flow out of shower by placing showerhead in direct contact with your body.
- **Do NOT** operate the shower if water ceases to flow during use or if water has entered inside the unit because of an incorrectly fitted cover.
- ▲ **WARNING:** If restarting the shower immediately after stopping, be aware that a slug of hot water will be expelled for the first few seconds.
- ▲ The spray head must be descaled regularly.
- **A** Fit only shower heads recommended by the manufacturer and never fit any additional device to restrict the water outlet flow.
- ▲ The outlet must not be connected to any tap or fitting other than those specified.
- ▲ This appliance is intended to be permanently connected to the water mains and not connected by a hose set.
- A suitable double pole isolation switch for supply disconnections must be incorporated in the fixed wiring circuit in accordance with current wiring rules. See Electrical Installation section for further details.

Mains water pressure only.

Minimum inlet pressure 100kPa (1 bar) 150kPa (1.5 bar) for 10.5kW Maximum inlet pressure 1000kPa (10 bar)

This book contains all the necessary fitting and operating instructions for your electric shower.

Care taken during the installation will provide a long, trouble-free life from your shower.

A WARNING A

This appliance can be used by children aged from 3 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children may not play with the appliance. Cleaning and user maintenance shall not be made by children.



IMPORTANT - PLEASE READ THESE GENERAL GUIDANCE NOTES BEFORE PROCEEDING



GENERAL

- **1.1** Isolate the electrical and water supplies before removing the cover.
- **1.2** Read all of these instructions and retain them for later use.
- 1.3 DO NOT take risks with plumbing or electrical equipment.
- **1.4** Isolate electrical and water supplies before proceeding with the installation.
- 1..5 The unit must be mounted onto the finished wall surface (on top of the tiles). DO NOT tile up to or seal around ANY PART of the unit using silicone sealer after fixing to the wall. Special care must be taken NOT TO BLOCK OR SEAL ANY PRD VENTS ON THE UNIT.
- **1.6** Contact Customer Service (see back page), if any of the following occur:
- a) If it is intended to operate the shower at pressures above the maximum or below the minimum stated.
- **b)** If the unit shows a distinct change in performance.
- **c)** If the shower is frozen.
- 1.7 If it is intended to operate the shower in areas of hard water (above 200 ppm temporary hardness), a scale inhibitor may have to be fitted. For advice on the Scale Inhibitor, contact Customer Service.
- 1.8 The showerhead must be cleaned regularly with descalent to remove scale and debris, otherwise restrictions to the flow on the outlet of the unit will result in higher temperatures and could also cause the (PRD) Pressure Relief Device in the unit to operate.
- **1.9** This product is not suitable for mounting into steam rooms or steam cubicles.

2 PLUMBING

- 2.1 The plumbing installation must comply with Water Regulations, Building Regulations or any particular regulations as specified by Local Water Company or Water Undertakers and should be in accordance with BS EN 806.
- **2.2** The supply pipe must be flushed to clear debris before connecting to the shower unit.

- **2.3 DO NOT** solder pipes or fittings within 300mm of the shower unit, as heat can transfer along the pipework and damage components.
- **2.4 DO NOT** fit any form of outlet flow control as the outlet acts as a vent for the heater can.
- **2.5 DO NOT** use excessive force when making connections to the flexible hose or showerhead, finger tight is sufficient.
- **2.6** All plumbing connections must be completed before making the electrical connections.
- **2.7** This appliance **MUST NOT** be connected to the inlet supply by a hose-set.

ELECTRICAL

- 3.1 The installation must comply with BS 7671 'Requirements for electrical installations' (IEE wiring regulations), building regulations or any particular regulations as specified by the local Electrical Supply Company.
- **3.2** This appliance **MUST** be earthed.
- 3.3 In accordance with 'The Plugs and Sockets etc. (Safety) Regulations 1994', this appliance is intended to be permanently connected to the fixed wiring of the electrical mains system.
- **3.4** Make sure all electrical connections are tight to prevent overheating.
- 3.5 A 30mA residual current device (RCD) MUST be installed in all UK electric and pumped shower circuits. This may be part of the consumer unit or a separate unit.
- **3.6** Switch off immediately at isolating switch if water ceases to flow during use.
- 3.7 Other electrical equipment i.e. extractor fans, pumps must not be connected to the circuits within the unit.
- **3.8** Switch off at isolating switch when not in use. This is a safety procedure recommended with all electrical appliances.
- **3.9** As with all electrical appliances it is recommended to have the shower and installation checked at least every two years by a competent electrician to ensure there is no deterioration due to age and usage.

GENERAL ADVICE TO USERS

The following points will help you understand how the shower operates:

- a. The electric heating elements operate at a constant rate at your chosen power setting. It is the rate of the water passing through the heater can which determines the water temperature. The slower the flow, the hotter the water becomes; the faster the flow, the cooler the water.
- b. During winter, the mains water supply will be cooler than in the summer. The flow rate will vary between seasons at any one temperature setting. At different times of the year you may have to adjust the position of the temperature control to maintain your desired temperature setting.
- c. The stabiliser valve minimises variations in shower temperature during mains water pressure changes. If changes in shower temperature are experienced during normal use, it will most likely be caused by the water pressure falling near to or below the minimum level. The drop in pressure may be due to water being drawn off at other points in the house whilst the shower is in use. If pressure drops appreciably below the minimum, the heating elements will automatically cut out.

NOTE: If ever the water becomes too hot and you cannot obtain cooler water, first check that the sprayplate in the showerhead has not become blocked.

DO NOT place items such as soap or shampoo bottles on top of the unit. Liquid could seep through the joint between the cover and backplate.

IMPORTANT ADVICE TO USERS



COMMISSIONING ADVICE

When first installed the unit will be empty. It is essential the unit should contain water before the elements are switched on. It is vital that the commissioning procedure is followed. Failure to carry out this operation will result in damage to the unit and will invalidate the guarantee.

ADVISORY - CLEANING

It is recommended that all products are cleaned using warm, soapy water.

DO NOT use abrasive or aggressive chemical cleaning products as this may affect the product surface finish and invalidate your guarantee.



Please read this book thoroughly and familiarise yourself with all instructions before commencing installation and keep it for future reference.

The shower installation **MUST** be carried out by a suitably qualified person, **in the sequence of this instruction book**.

Triton recommend watching the short online *videos that cover electric shower basics before your installation - *(videos may not show the exact model purchased).

- What is an electric shower?
- Electrical requirements for electric showers
- Plumbing requirements for electric showers
- Kilowatt ratings explained

To view these videos visit: www.tritonshowers.co.uk/triton-products/product-videos.aspx

PLEA:	SE USE THE FOLLOWING CHECK LIST TO AID YOUR INSTALLATION
	Tick off as you complete
1 SECTION	Check that the water supply will satisfy requirements
	Check that water & cable entry points of the unit meet requirements
SECTION 3	Check that the electric supply will satisfy requirements
4	Siting of the shower
SECTION 5	Plumbing installations
6 SECTION	Electrical installation
SECTION 7	Fit to the wall & connect the shower supplies
8 SECTION	Fitting the cover
9 SECTION	ONLY Commission the shower in the way described 9
10	Familiarise yourself with the user operating instructions

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PRODUCT CARE INFORMATION - IMPORTANT

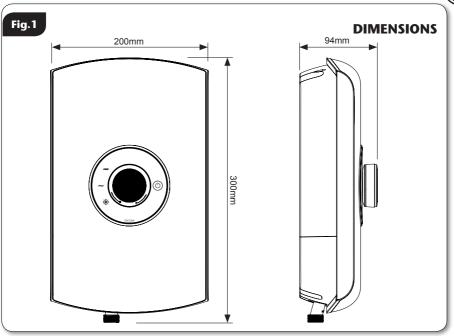
- Clean using a microfibre cleaning cloth (eg: E-cloth) or sponge ONLY.
- **DO NOT** use a general purpose cleaning cloth (eg: J-cloth) dish cloth or scourer.
- DO NOT use abrasive or aggressive chemical cleaning products as this may affect the product surface finish and invalidate your guarantee.

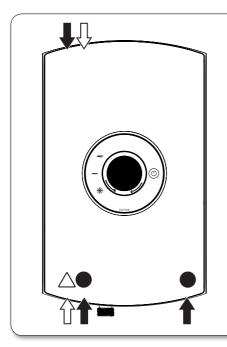
To check the product suitability for commercial and multiple installations, please contact Triton's specification advisory service before installation. Please see back of book for contact information.



SPECIFICATIONS

ELECTRICAL					
Nominal power - rating at 240V	Nominal power - rating at 230V				
8.5kW – (40A MCB rating)	7.8kW – (40A MCB rating)				
9.5kW – (40A MCB rating)	8.7kW – (40A MCB rating)				
PLUMBING (see page 11	& 12 for water regulations)				
Supply Source	Mains pressure cold water only				
Minimum running pressure and flow to the inlet of the shower for full performance	100kPa (1 bar) at 8 litres per minute				
Maximum static pressure	1000 kPa (10 bar)				
Maximum inlet temperature	28°C				
Minimum inlet temperature	5°C				
Inlet connection	15mm diameter				
Outlet connection	1/2" BSP male thread				
MATI	ERIALS				
ABS	Backplate, cover, controls, showerhead				
Acetal	Sprayplate				
Minerally insulated corrosion resistant metal sheathing	Elements				
STANDARDS a	nd APPROVALS				
Splashproof rating	IPX4				
Safety	Complies with the requirements of current British and European safety standards for household and similar electrical appliances				
BEAB	Complies with requirements of the British Electrotechnical Approvals Board (BEAB)				
CE	Meets with Compliance with European Community Directives (CE)				





ENTRY POINTS

WATER = Back = Others

Left: Top, Bottom & Back.

Right: Bottom & Back.

CABLE \bigwedge = Back \Longrightarrow = Others

Left: Top, Bottom & back.

Right: None.

PLEASE NOTE: Deviation from the approved entry points will invalidate product specifications and warranty.

Fig.2

ELECTRICAL REQUIREMENTS

▲ WARNING! **▲**THIS APPLIANCE MUST BE EARTHED

The installation, supply cable and circuit protection must conform with BS 7671 (IEE wiring regulations) and be sufficient for the amperage required.

The following notes are for guidance only:

- The shower must only be connected to a 230-240V ac supply. If you are installing a shower with a kilowatt rating above 9kW, it is advisable to contact the local electricity supply company.
- **1.1** The electrical rating of the shower is shown on the rating label **(Fig.3)** within the unit.
- 2 Before making any sort of electrical connection within the installation make sure that no terminal is live. If in any doubt, switch off the whole installation at the mains supply and remove the correct fuse.
- 3 The shower must be connected to its own independent electrical circuit. IT MUST NOT be connected to a ring main, spur, socket outlet, lighting circuit or cooker circuit.
- **3.1** The electrical supply must be adequate for the loading of the unit and existing circuits.
- 4 Check your consumer unit (main fuse box) has a main switch rating of 80A or above and that it has a spare fuse way which will take the fuse or Miniature Circuit Breaker (MCB) necessary for the shower (Fig.4).
- **4.1** If your consumer unit has a rating below 80A or if there is no spare fuse way, then the installation will not be straightforward and may require a new consumer unit serving the house or just the shower.
- **4.2** You will need to contact the local electricity company. They will check the supply and carry out what is necessary.
- 5 For close circuit protection **DO NOT** use a rewireable fuse. Instead use a suitably rated Miniature Circuit Breaker (MCB) or cartridge fuse (see Table A).
- **5.1** A 30mA residual current device (RCD) **MUST** be installed in all UK electric and pumped shower circuits. This may be part of the consumer unit or a separate unit.

Fig.3



Fig.4 Schematic of installation circuit

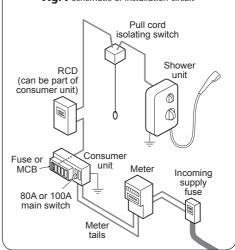


Table A

CIRCUIT PROTECTION				
unit rating	МСВ	cartridge fuse		
7.0kW	30/32A	30A		
7.5kW	32A	35A		
8.0kW	40A	35A		
8.5kW	40A	45A		
9.0kW	40A	45A		
9.5kW	40/45A	45A		
10.5kW	45A	45A		

ELECTRICAL REQUIREMENTS

- 6 A 45 amp double pole isolating switch with a minimum contact gap of 3 mm in both poles must be incorporated in the circuit.
- **6.1** It must have a mechanical indicator showing when the switch is in the OFF position, and the wiring must be connected to the switch without the use of a plug or socket outlet.
- 6.2 The switch must be accessible and clearly identifiable, but out of reach of a person using a fixed bath or shower, except for the cord of a cord operated switch, and should be placed so that it is not possible to touch the switch body while standing in a bath or shower cubicle. It should be readily accessible to switch off after using the shower.
- 7 Where shower cubicles are located in any rooms other than bathrooms, all socket outlets in those rooms must be protected by a 30mA RCD.
- **8** The current carrying capacity of the cable must be at least that of the shower circuit protection (**see Table B**).
- **8.1** To obtain full advantage of the power provided by the shower, use the shortest cable route possible from the consumer unit to the shower.
- **8.2** It is also necessary to satisfy the disconnection time and thermal constraints which means that for any given combination of current demand, voltage drop and cable size, there is a maximum permissible circuit length.
- 9 The shower circuit should be separated from other circuits by at least twice the diameter of the cable or conduit.
- **9.1** The current rating will be reduced if the cabling is bunched with others, surrounded by thermal loft or wall insulation or placed in areas where the ambient temperature is above 30°C. Under these conditions, derating factors apply and it is necessary to select a larger cable size.
- **9.2** In the majority of installations (see **Table B**), the cable will unavoidably be placed in one or more of the above conditions. This being so, it is strongly recommended to use a minimum of 10mm cabling throughout the shower installation.

9.3 In any event, it is essential that individual site conditions are assessed by a competent electrician in order to determine the correct cable size and permissible circuit length.

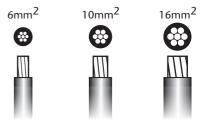
Table B

Twin and earth PVC insulated cable Current carrying capacity

Installed in an insulated wall	In conduit trunking	Clipped direct or buried in a non-insulated wall
6mm²	6mm²	6mm²
32A	38A	46A
10mm²	10mm²	10mm²
43A	52A	63A
16mm²	16mm²	16mm²
57A	69A	85A

Note: Cable selection is dependent on derating factors

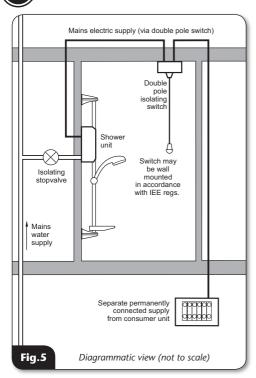
*The method below may be used by installers to determine the approximate size of the incoming cable.



- Measure the width of an individual strand, and half that measurment to find (r),
 e.g: 1.34mm ÷ 2 = (r) 0.67mm
- **2.** Multiply (r) x (r) x 3.14, e.g. (r) 0.67 x (r) 0.67 x 3.14 = 1.41mm²
- **3.** Multiply this by the number of wire strands (usually 7), e.g. $1.41 \text{mm}^2 \times 7 = 9.87 \text{mm}^2$.
- **4.** The number obtained would suggest 10mm² wiring.

*PLEASE NOTE: If unsure, consult a qualified Electrician.

Installation - SITING OF THE SHOWER



SITING OF THE SHOWER

The installation must be in accordance with Water Regulations/Bylaws - see page 7 for water specifications

- If it is intended to operate the shower at pressures above the maximum or below the minimum stated, contact Customer Service for advice
- If the stated flow rates are not available, it may not be possible to achieve optimum performance from the unit throughout the year.
- During periods of high ambient temperatures it may be necessary to select the economy power setting to achieve your preferred shower temperature.

Fig.5 shows a typical system layout.

- Refer to fig.6 for the correct siting of the shower. Position the unit where it will NOT be in direct contact with water from the showerhead. Position the shower unit vertically.
- Allow enough room between the ceiling and the shower to access the cover top screws.
- Mark out entry points and routing of the water and electric supplies into the shower.

Installation - SITING OF THE SHOWER



IMPORTANT: Water regulations (fig.6)

- It is required that the showerhead be 'constrained by a fixed or sliding attachment so that it can only discharge water at a point not less than 25mm above the spill-over level of the relevant bath, shower tray or other fixed appliance'.
- If the riser kit is supplied with a 'soap dish hose retainer' or bespoke 'hose retainer', it will in most cases meet this requirement. If the showerhead can still be placed within a bath, basin or shower tray within the 25mm limit, then a double check valve or similar,
 MUST be fitted in the supply pipework to prevent back-flow.

Pressure relief safety device

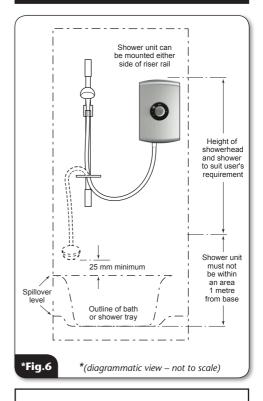
 A pressure relief device (PRD) is designed into the shower unit which complies with European standards. The PRD provides a level of appliance protection should an excessive build up of pressure occur within the shower.

DO NOT operate the shower with a damaged or kinked shower hose, or a blocked showerhead. This may cause the PRD to operate.

- When commissioning, the showerhead must be removed from the flexible hose.
 Failure to follow this procedure may cause the PRD to operate.
- Make sure the shower is positioned over a bath or shower tray. If the PRD operates, then water will eject from the bottom of the unit. Should this happen, turn off the electricity and water supplies to the shower at the isolating switch and stop valve.
 Contact Customer Service for advice on replacing the PRD.

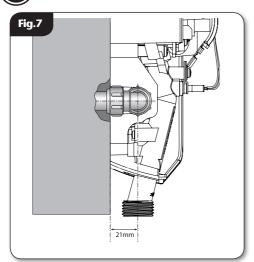
WARNING

The shower **MUST NOT** be positioned where it will be subjected to freezing conditions.



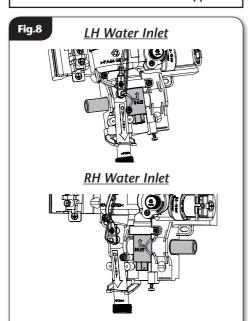
IMPORTANT: If installing onto a tiled wall, **ALWAYS** mount the unit on the surface of the tiles. **NEVER** tile up to the unit.

IMPORTANT: The unit must be mounted on a flat surface which covers the full width and length of the backplate. It is important that the wall surface is flat otherwise difficulty may be encountered when fitting the cover and subsequent operation of the unit may be impaired.



IMPORTANT INFORMATION

The outlet of the shower acts as a vent and must not be connected to anything other than the hose and showerhead supplied.



PIUMRING INSTALLATION

Plumbing to be carried out before wiring

- **DO NOT** use jointing compounds on any pipe fittings for the installation.
- DO NOT solder fittings near the shower unit as heat can transfer along the pipework and damage components.
- Compression fittings MUST be used to connect to the inlet of the shower (fig.7). (Push-on fittings must NOT be used as full engagement cannot be guaranteed).
- If installing a feed pipe from the back or bottom, the centre of the inlet valve to the wall surface is 21mm (fig.7).
- LH or RH water Inlet is achieved by swivel elbow as shown fig 8.

NOTE: Due to variations in manufacturers specifications, it is beyond the scope of this book to recommend a specific elbow brand.

NOTE: If entry is from the back, the nut of the compression fitting will be partially behind the surface of the wall. This area MUST be left clear when plastering and tiling around the pipework in order to make the nut accessible for future adjustments.

NOTE: An additional stop valve (complying with Water Regulations) must be fitted in the mains water supply to the shower as an independent means of isolating the water supply should maintenance or servicing be necessary.

IMPORTANT: Before completing the connection of the water supply to the inlet of the shower, flush out the pipework to remove all swarf and system debris. This can be achieved by connecting a hose to the pipework and turning on the mains water supply long enough to clear the debris to waste.

IMPORTANT!

The water inlet MUST ONLY be used in the 'Left' or 'Right' entry position.
Under NO CIRCUMSTANCES should the water inlet fitting be used at 90° to the backplate to emulate a 'Rear Entry' installation.

ELECTRICAL INSTALLATION

IMPORTANT: Switch off the electricity supply at the mains before proceeding.

 The supply cable MUST be secured either by routing through conduit, in trunking, or by embedding in the wall, in accordance with IEE regulations.

NOTE: Conduit entry can only be from rear.

NOTE: Deviations from the designated entry points will invalidate product approvals. The cable entry points are listed on **page 8**.

 Seal around rear entry cable to prevent water ingress into the wall.

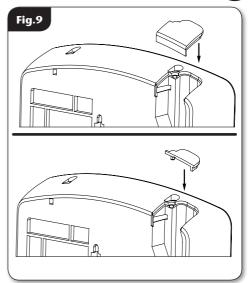
Installation - FIT TO THE WALL & CONNECT THE SHOWER SUPPLIES check list

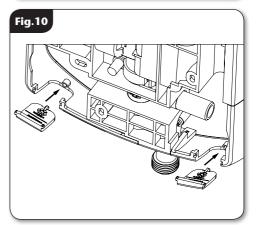


FIT TO THE WALL & CONNECT THE SHOWER SUPPLIES

Pipe/Electrical access points

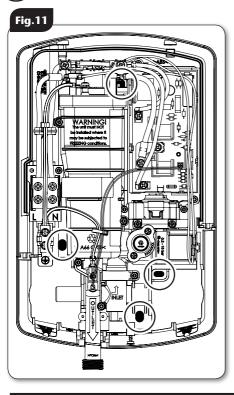
- The water inlet has been designed to allow left or right fitting - decide the inlet direction and then turn the inlet either left or right.
- If top entry has not been chosen, the trim can be fitted complete. Should either top cable or top pipe entry have been chosen individually, the trim has been designed to be separated and the appropriate trim section can be inserted (fig.9).
- If bottom entry has not been chosen, the bottom trims should be fitted into the entry points (fig.10).
- Use the backplate as a template making sure it is level and mark the fixing holes, top and one bottom fixing is adequate. (fig.11).
- Remove the unit from the wall. Drill and plug the wall. An appropriate drill bit should be used. If the wall is plasterboard or a soft building block, appropriate wall plugs should be fitted.
- Offer the unit to the wall and secure the fixing screws into position. **DO NOT** fully tighten the screws at this stage, as the fixing holes are elongated to allow for out of square adjustment after the plumbing connections have been completed.
- Connect the mains water supply to the inlet DO NOT use excessive force when making the connection.





SECTION 7

Installation - FIT TO THE WALL & CONNECT THE SHOWER SUPPLIES



- Make sure the backplate is square on the wall and tighten the retaining screws which hold it to the wall.
- Turn on the mains water supply and check for leaks in the pipework connection to the shower.

NOTE: At this stage no water can flow through the unit.

IMPORTANT: A suitable sealant should always be used to seal around the incoming pipework to prevent water entering the wall.

 Route the cable into the shower unit for connection to the terminal block (fig.12) as follows:

Earth cable to terminal marked



Neutral cable to terminal marked

Live cable to terminal marked **L**

MARNING

Check there are no hidden cables or pipes before drilling holes for wall plugs.
Use great care when using power tools near water. The use of a residual current device (RCD) is recommended when using power tools.

Installation - FIT TO THE WALL & CONNECT THE SHOWER SUPPLIES



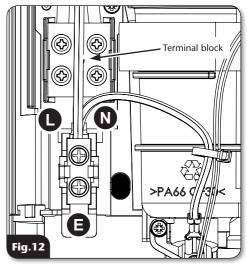
- Once the cables have been installed the two trimplates will need to be fitted.
- **Fig.13** shows a schematic wiring diagram.

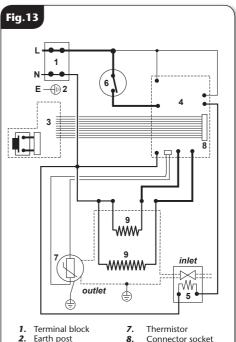
IMPORTANT: When connecting the cable, fully tighten the terminal block screws and make sure that no cable insulation is trapped under the screws. Loose connections can result in cable overheating.

NOTE: The supply cable earth conductor must be sleeved. The outer sheath of the supply cable must be stripped back to the minimum.

- The use of connections within the unit or other points in the shower circuit to supply power to other equipment i.e. extractor fans, pumps etc., will invalidate the guarantee.
- DO NOT switch on the electricity supply until the shower cover has been fitted.

NOTE: The elements on UK models are to 240V specification and will give a lower kW rating if the voltage supply is below 240V.

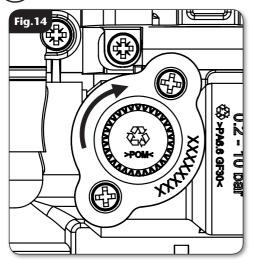




Element

3. Control PCB

Power PCB
 Solenoid Valve
 Thermal cut-out





PLEASE NOTE

Before normal operation of the shower, it is essential the following commissioning procedure is completed correctly.

▲ IMPORTANT

DO NOT connect the 10-way ribbon cable before the commissioning procedure has been completed.

FITTING THE COVER

Fitting The Cover - valve & knob positions

- Turn the valve spindle clockwise until it stops (fig.14).
- Turn the temperature control on the cover fully clockwise until it stops (**fig.15**).
- · Offer the cover to the unit.
- Carefully locate the cover tags into the guide pockets on the backplate and make sure the wires are not trapped.
- Guide the cover into position so that the control spindle locates correctly (minor adjustment may be necessary to align the control and spindle).
- Should any difficulty arise, recheck the points above.
- While applying slight pressure to the front cover, secure in position with the three retaining screws.
- Fit the flexible hose to the shower outlet making sure the outlet of the hose is directed to waste. Check the supplied sealing washer is in place.
- DO NOT attach the showerhead at this stage.

A WARNING

Before normal operation of the shower, it is essential the following commissioning procedure is completed correctly.

COMMISSIONING PROCEDURE

The first operation of the shower is intended to flush out any remaining unit debris and to make sure the heater unit contains water before the elements are switched on.

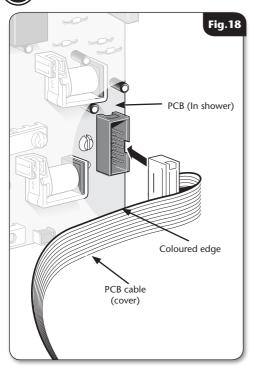
This operation **MUST** be carried out **WITH** the flexible hose screwed to the outlet but **WITHOUT THE SHOWERHEAD ATTACHED**. Make sure the outlet of the flexible hose is directed to waste.

IMPORTANT: The temperature control MUST be turned fully clockwise as shown in fig.16 - Failure to do this could make the PRD operate.

- Turn on the water supply to the shower at the isolating stop valve.
- Switch on the electricity supply to the shower at the isolating switch.
- Wait until water starts to flow from the flexible hose.
- Slowly rotate the temperature control fully anti-clockwise as in **fig.17**.
- It will take about thirty seconds for a smooth flow of water to be obtained while air and any debris is being flushed from the shower.
- When a smooth flow of water is obtained, turn the temperature control fully clockwise and anti-clockwise and back again several times to release any trapped air from within the unit.
- Once the flushing out has been completed, switch off the electricity to the shower at the isolating switch. The water will cease to flow.
- Unscrew the top and bottom retaining screws again and lift the cover from the backplate.







▲ WARNING **▲** COVER RETAINING SCREWS

ONLY the **SUPPLIED SCREWS** should be used. The use of none supplied screws **WILL** invalidate product specifications & warranty.

CONNECTING THE PCB CABLE & REFITTING THE COVER

IMPORTANT: After connecting the PCB cable, please check the following before refitting the cover:

- 1. All plumbing connections are watertight.
- 2. Terminal block screws are fully tightened.
- Make sure the pipe and cable entering the unit do not prevent the cover locating correctly onto the backplate.
- Check that the top rubber seal is in place on the inside of the cover.
- See figs.14 & 15 on page 17 for the correct positions of the temperature spindle and temperature knob.
- Attached to the display PCB, inside the cover, is a 10-way ribbon cable.
 The ribbon cable connector must be plugged into the socket located at the right of the power PCB situated inside the unit (fig.18).
- The ribbon cable has a coloured edge which is uppermost when correctly fitted to the socket. There is also a key way for ensuring correct location into the socket.
- Guide the cover into position so that the knob spindle locates correctly (minor adjustment may be necessary to align the knob and spindle). Should any difficulty arise, re-check the points above.
- While applying slight pressure to the cover, secure in position with the retaining screws.
- Turn the electric supply back on at the isolating switch. The 'Power' indicator will light.
- Water will NOT flow until Start/Stop button is pressed.
- It is recommended that the water and electric supplies to the shower are turned off while the riser rail kit is being installed.
- The flexible hose can be left attached to the shower outlet. Make sure the supplied sealing washer is fitted.



OPERATING THE SHOWER

To start the shower (fig.19)

- Switch the power on at the isolating switch.
 'TRITON' will show on the screen (1) for a
 few seconds and the Start/Stop icon (2) will
 illuminate.
- Press the **Start/Stop** button (2) the Screen will display 'Hello' then the showering temperature.
 - The shower will always default to **Max** setting. The **Max** (3) icon will illuminate.
- During showering, the Eco (4), Cold (5) or Max (3) icon's may be touched to change the power setting.
- After a new power selection is made, the appropriate icon is illuminated and the screen will display 'Cold', 'Eco' or 'Max' to confirm the selection before reverting to displaying the showering temperature.

To stop the shower

- Stop the shower by pressing the Start/Stop button (2). 'BYE' will flash on the screen (1) and water will cease to flow after a few seconds. (see phased shutdown process, P17). The screen will turn itself off.
- After shutdown the unit MUST be isolated via the 45amp-isolating switch.

Cold setting (5)

• No heater elements are operated.

Eco setting (4)

• Only one heater element is operated.

Max setting (3)

• All heater elements are operated.



USER OPERATING INSTRUCTIONS





NOTE: In normal use, it is in order to leave the water supply permanently on to the shower unit, but as with most electrical appliances, **the unit MUST** be switched off at the isolating switch when not in use.

IMPORTANT

After any adjustment has been made, it will take a few seconds for the temperature to stabilise and reach the showerhead

To adjust the shower temperature - Eco and Max settings only (fig.20)

- The water temperature is changed by increasing or decreasing the flow rate of the water through the shower via the temperature control knob.
- After obtaining your showering temperature, the knob can be left as the normal setting and should only need altering to compensate for seasonal changes in ambient water temperature.

NOTE: The preferred knob position on ECO will give a different temperature to the same position on MAX.

To decrease the shower temperature

 Turning the temperature control knob anti-clockwise will increase the flow of water through the shower and make the water colder. The screen will display the temperature.

To increase the shower temperature

 Turning the temperature control clockwise will decrease the flow of water through the shower and make the water hotter. The screen will display the temperature.

NOTE: It is advisable that the showering temperature is tested with your hand before stepping under the showerhead.



OPERATING FUNCTIONS

Power 'on' indicator ring (fig.21)

 When the electricity supply to the shower is switched on at the isolating switch, 'TRITON' will show on the screen for a few seconds and the Start/Stop icon will illuminate.

Low pressure indication (fig.22)

If the water pressure has fallen below the minimum required for correct operation of the shower, the following will happen:

- All heating elements will be switched off, preventing any undue temperature rises.
- The screen will flash 'LOW PRESSURE'.
- When there is adequate water pressure, the shower will automatically return to the original settings selected. The screen will revert to the water temperature again.

Phased shutdown (fig.23)

 When the **Start/Stop** button is pressed to end showering, all heating elements are switched off, but water will continue to flow for a few seconds, flushing out any remaining hot water.

The screen will flash 'Bye' while the phased shutdown operation is in progress, and will turn itself off when the operation is complete.

Phased shutdown makes sure the next user will not receive a slug of hot water if standing under the showerhead when the shower is started

Safety cut-out

 The unit is fitted with an over-temperature safety device. In the event of abnormal operation which could cause unsafe temperatures within the shower, the device will disconnect all the heating elements.

Out of temperature range

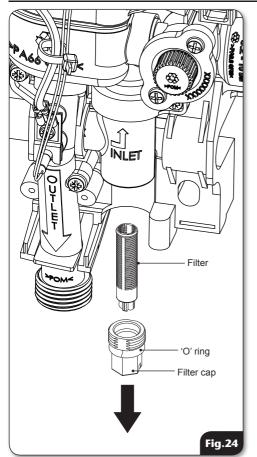
 If the display shows the words 'Lo' or 'Hi' at any time, it means that the shower is outside recommended showering temperatures.
 Wait until the screen shows the appropriate temperature before continuing to shower.







Instructions for installers and service engineers only



CLEANING THE FILTER

It is recommended that the filter is periodically cleaned in order to maintain the performance of the shower. It is essential that this operation is carried out by a competent person.

- **SWITCH OFF** the electricity and water supply at the mains.
- The inlet filter is situated inside the water inlet fitting (fig.24).
- To gain access to the filter, remove the cover and bottom trimplate.
- Unscrew the filter cap from the bottom of the inlet pipe.
- Inspect the 'O' ring for damage when the filter cap is removed.
- When cleaning the filter, **DO NOT** use a sharp object as it will cause damage. It is preferable to use an old toothbrush or similar.
- To reassemble, follow the procedure in reverse.
- Make sure that the sealing 'O' ring is in place.
- DO NOT over tighten the filter cap on reassembly.

FAULT FINDING/TROUBLESHOOTING

Important: Switch off the electricity at the mains supply and remove the circuit fuse before attempting any fault finding inside the unit.

Problem/Symptom		Cause	Actio	Action/Cure			
1	Shower inoperable, no water flow.	1.1 Interrupted power supply.	1.1.1	Blown fuse or circuit breaker. Check supply. Renew or reset fuse or circuit breaker. If it fails again, consult a qualified electrician.			
		1.2 Unit malfunction.	1.2.1	Power cut? Check other appliances and if necessary, contact local Electricity Supply Company.			
			1.2.2	Have unit checked. Ring Customer Service.			
		1.3 Thermal cut-out operated.	1.3.1	The thermal cut-out safety device has operated. Have the unit checked by a suitably qualified service engineer or contact Customer Service.			
2	Water too hot.	2.1 Not enough water flowing through the shower.	2.1.1	Increase flow rate via temperature control.			
			2.1.2	Blocked showerhead — clean or replace blocked sprayplate in showerhead.			
		2.2 Blockage in supply.	2.2.1	Check if stop valves are fully open. Check if a blockage in the inlet filter.			
		2.3 Increase in ambient water temperature.	2.3.1	Readjust flow rate to give increased flow.			
			2.3.2	Select 'economy' power.			
3	Water too cool or cold.	3.1 Too much flow.	3.1.1	Reduce flow rate via temperature control.			
	or cold.	3.2 Water pressure belo minimum required (see rating label).	w 3.2.1	Is water supply mains or tank fed?			
			3.2.2	If tank fed, replumb to mains water supply or see 3.2.4.			
			3.2.3	If mains fed, make sure that mains stop valve is fully open and that there are no other restrictions in the supply while shower is in use, or see 3.2.4.			
			3.2.4	Fit pump to give minimum pressure (see rating label). Contact Customer Service for advice.			

FAULT FINDING/TROUBLESHOOTING

Important: Switch off the electricity at the mains supply and remove the circuit fuse before attempting any fault finding inside the unit.

Problem/Symptom		Cause		Action/Cure		
3	Water too cool or cold - continued	3.3	Reduction in ambient water temperature.	3.3.1	Readjust flow rate to give reduced flow.	
				3.3.2	Select 'high' power.	
		3.4	Electrical malfunction.	3.4.1	Have unit checked by suitably qualified electrician or contact Customer Service.	
		3.5	Safety cut-out operated.	3.5.1	Thermal safety cut-out device has operated. Have the unit checked by a suitably qualified engineer or contact Customer Service.	
4	4 Pressure relief device has operated (water ejected from PRD tube). 4.1 Blocked showerhead.		Blocked showerhead.	4.1.1	Clean sprayplate and then fit a new PRD.	
		4.2	Twisted/blocked flexible shower hose.	4.2.1	Check for free passage through hose. Replace hose if necessary and then fit new PRD.	
		4.3	Showerhead not removed while commissioning.	4.3.1	Fit new PRD. Commission unit with showerhead removed.	
5	Low Pressure SCREEN FLASHING.	5.1	Low pressure condition.	5.1.1	Insufficient water flow available. 1. Check filter is not blocked. 2. Check water supply to shower is adequate.	

NOTE: Identify cause of operation before fitting new PRD unit. When fitting a new PRD, follow the commissioning procedure.

It is advised all electrical maintenance/repairs to the shower should be carried out by a suitably qualified person.

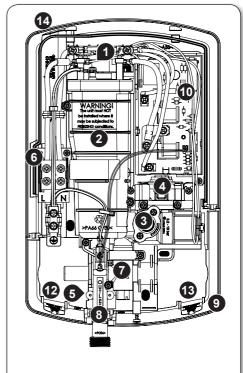
In the unlikely event of a fault occurring please contact Triton Customer Service.

DO NOT remove the shower from the installation.

SPARE PARTS

SPARE PARTS

1.	Thermal cut-out (TCO)	220	12750
2.	Heater can assembly 8.5kW9.5kW		
3.	Solenoid valvestabilizer valve assembly	P2741	10800
4.	Pressure switch assembly	P2741	11001
5 .	Pressure relief device (PRD)	8280	00450
6.	Terminal block & wires	S8220	01390
7.	Water inlet	S2741	11001
8.	Water Outlet & Thermistor assy	\$8500	00340
9.	Main Trimplates White LH White RH Black LH Black RH	705	54848 54847
10.	Power PCB	833	16100
11.	Cover assembly (including cover F Gloss Black	\$8000 \$8000	00046
12.	Bottom pipe trim (left) White		
13.	Bottom pipe trim (right) White		
14.	Top pipe trim WhiteBlack		

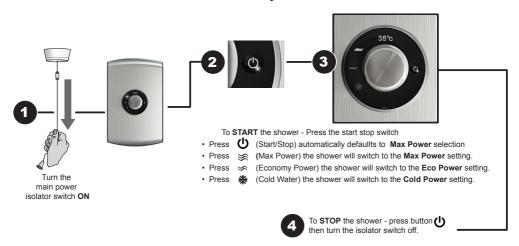




NOTE: Not all wiring has been shown for reasons of clarity.

SHOWER CONTROLS - QUICK USER GUIDE

To START or STOP your shower.



To alter the FLOW and Temperature of your shower.

