

T80Z fast-fit electric shower



Installation and operating instructions

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





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**.

2180834G - November 2011

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.

- **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.
- **A DO NOT** restrict flow out of shower by placing showerhead in direct contact with your body.
- **A 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.

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.

PLEASE READ THE GENERAL GUIDANCE NOTES ON PAGE 24 & 25 BEFORE PROCEEDING.

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

PLEAS	E USE THE FOLLOWING CHECK LIST TO AID YOUR INSTALLATION
PINTERES	Tick off as you complete
	Check that the water supply will satisfy requirements (page 2 & 6) 1
2	Check that water & cable entry points of the unit meet requirements (page 3) 2
SECTION (Check that the electric supply will satisfy requirements (page 4 - 5)
4 SECTION S	siting of the shower <i>(page 6 - 7)</i>
5 FEETION	Plumbing installation (page 8)
6 E	Electrical installation (page 9)
7	rit to the wall & connect the shower supplies (page 9 - 13)
SECTION F	Fitting the cover (page 13 - 14)
9 O	ONLY Commission the shower in the way described (page 15) \square 9
10 F	familiarise yourself with the user operating instructions (page 16 - 18)

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To check the product suitability for commercial and multiple installations, please contact Triton's specification advisory service before installation.

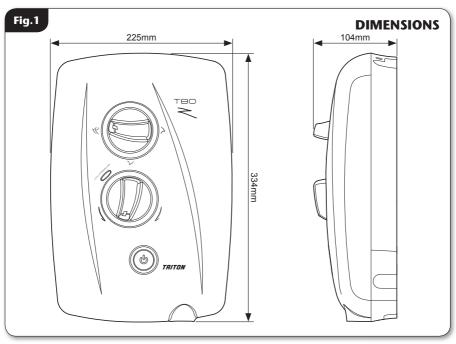
Telephone: 0844 980 0730 Facsimile: 0844 980 0744

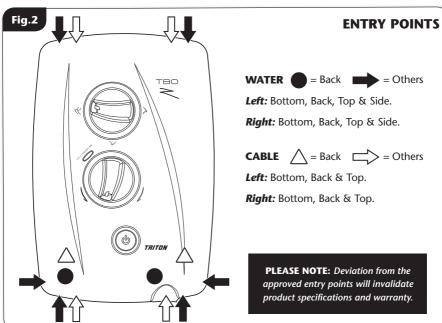
E mail: technical@tritonshowers.co.uk



SPECIFICATIONS

ELECTRICAL			
Nominal power - rating at 240V	Nominal power - rating at 230V		
7.5kW – (32A MCB rating)	6.9kW – (32A MCB rating)		
8.5kW – (40A MCB rating)	7.8kW – (40A MCB rating)		
9.5kW – (40A MCB rating)	8.7kW – (40A MCB rating)		
10.5kW – (45A MCB rating)	9.6kW – (45A MCB rating)		
PLUMBING (see page 6 & 7 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 (1.0 bar) at 8 litres per minute for 7.5kW , 8.5kW , 9.5kW & ECO		
	150kPa (1.5 bar) at 11 litres per minute for 10.5kW		
Maximum static pressure	1000 kPa (10 bar)		
Maximum inlet temperature	28°C		
Minimum inlet temperature	2°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 and 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)		





ELECTRICAL REQUIREMENTS

M WARNING

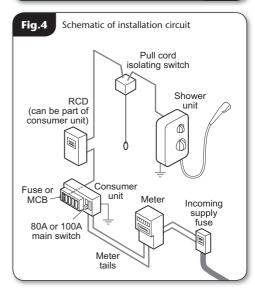
THIS APPLIANCE MUST BE EARTHED

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:

- 1 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.





- **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.

Table A

Circ	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		

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
6 mm²	6 mm²	6 mm²
35A	38A	47A
10 mm²	10 mm²	10 mm²
47A	52A	64A
16 mm²	16 mm²	16 mm²
63A	69A	85A

Note: Cable selection is dependent on derating factors

- 9.2 In the majority of installations, 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.

SITING OF THE SHOWER

The installation must be in accordance with Water Regulations/Bylaws - see page 2 for water specifications

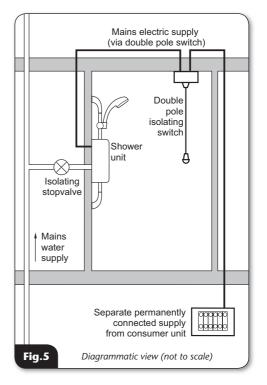
- If it is intended to operate the shower at pressures above the maximum or below the minimum stated, contact Customer Service for advice.
- If the stated flow rates are not available, it may not be possible to achieve optimum performance from the unit throughout the year.
- During periods of high ambient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

NOTE: The T80z Eco flow rate is limited to 6 litres per minute, during the warmer months it may be necessary to select the economy power setting.

Fig.5 shows a typical system layout.

NOTE: The control knobs are an integral part of the cover. **Do not attempt to remove them.**

- Lift the cover from the backplate and remove the trimplate (page 21 item 3 & 4)
- 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.



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 'soapdish 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

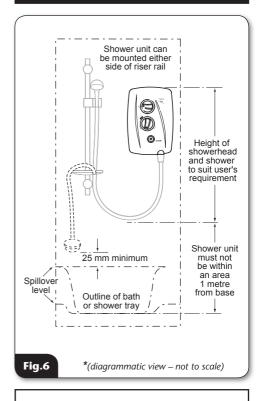
 A pressure relief device (PRD) is designed into the shower unit which complies with European standards. The PRD provides a level of appliance protection should an excessive build up of pressure occur within the shower.

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 stopvalve.
 Contact Customer Service for advice on replacing the PRD.

WARNING

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

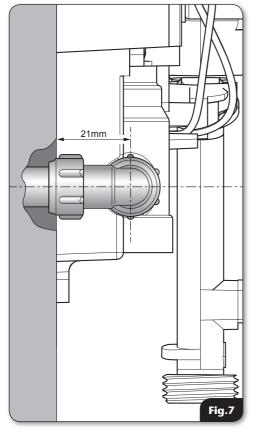


IMPORTANT: If installing onto a tiled wall, **ALWAYS** mount the unit on the surface of the tiles. **NEVER** tile up to the unit.

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.



PLUMBING 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).

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 stopvalve (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.

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 3**.

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

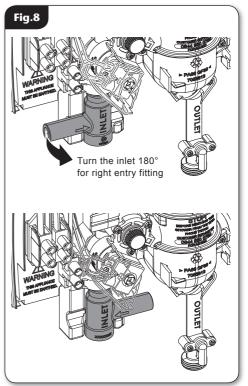
Installation - FIT TO THE WALL & CONNECT THE SHOWER SUPPLIES check list

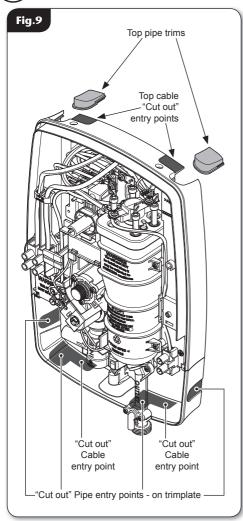


FIT TO THE WALL & CONNECT THE SHOWER SUPPLIES

 The water inlet has been designed to allow left or right fitting - (fig.8) decide the inlet direction and then turn the inlet either left or right.

IMPORTANT!
The water inlet MUST ONLY be used in
the 'Left' or 'Right' entry position.





The backplate has removable top trims (top left and top right) that may be used for pipe entry and two additional sections (top left and top right) that may **ONLY** be used as a 'cut out' for top electrical cable entry (**fig.9**).

The showers bottom trimplate has also been designed with four 'cut out' bottom/side water pipe access points and two 'cut out' electrical cable access points (fig.9).

- Decide which entry points are to be used for the water pipe entry and electrical cable entry.
- Once chosen, remove either the appropriate trim, or if 'cut outs' have been chosen, remove them using a junior hacksaw, file or appropriate knife.

PLEASE NOTE: NONE of the 'cut outs' are designed to 'snap out'. ONLY a junior hacksaw, file, or suitable knife should be used. Excessive damage to the backplate or lower trimplate outside the prescribed areas marked in (fig.9) may invalidate product specifications and warranty.

Fitting Procedure - using the template

NOTE: The fitting template should be used when existing pipework or electrical cable connections are not available - an example of which would be a 'new huild' house.

 After choosing the site for the shower, use the fitting template supplied to mark the two fixing holes and establish pipe and electric entry points.

Fitting Procedure - replacing an existing shower

- Turn off water supply either at the mains stopyalve or the isolating stopyalve.
- Temporarily connect the mains water supply to the inlet of the shower using a 15mm x 15mm compression fitting.
- Use the backplate as a template making sure it is level and mark the fixing holes (fig.10).
 The top and one of the bottom two fixing holes should be sufficient to hold the shower.

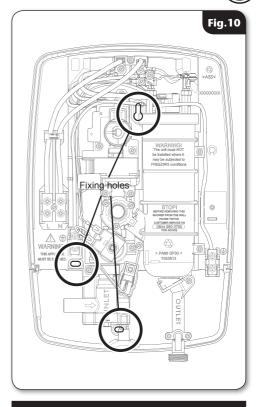
• Remove the unit from the wall. Drill and plug the wall.

(An appropriate drill bit should be used. If the wall is plasterboard or a soft building block, appropriate wall plugs should be fitted).

- Screw the top fixing screw into position leaving the base of the screw head protruding 6mm out from the wall.
- Hook the backplate over the top screw and fit the bottom fixing screws into position, but **DO NOT** fully tighten the screws at this stage. The fixing holes are elongated to allow for out of square adjustment after the plumbing connection has been completed.
- Connect the mains water supply to the inlet **DO NOT** use excessive force when making the connection.
- 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

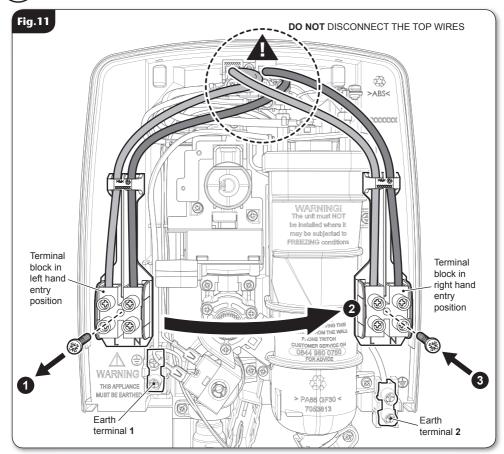
NOTE: At this stage no water can flow through the unit.

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



A WARNING

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.



Terminal block - left or right entry

The Terminal block is factory assembled as a 'left' electrical entry, but this can be altered to a 'right' electrical entry (fig.11).

IMPORTANT: DO NOT disconnect the top wires.

- 1. Remove the retaining screw from the Terminal block.
- 2. Move the Terminal block over to the right hand side of the unit and locate the lugs on the back of the terminal block carrier into the backplate.
- 3. Insert the retaining screw back through the Terminal block to secure it.

- Install the Earth cable to Earth terminal 1 or 2 to match the left or right Terminal block position.
- · Route the cable into the shower unit for connection to the terminal block as follows:

Earth cable to terminal marked



Neutral cable to terminal marked

Live cable to terminal marked

Once the cables have been installed and securely tightened the trimplate will need to be fitted.

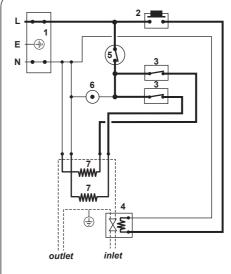
• (fig.12) shows a schematic wiring diagram.

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 quarantee.
- **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.



- 1. Terminal block
- 2. Start/Stop switch
- 3. Power selector
 Microswitch
- 4. Solenoid valve
- 5. Thermal cut-out (main)
- 6. Neon power
- 7. Element

Fig.12

Installation - FITTING THE COVER

check list



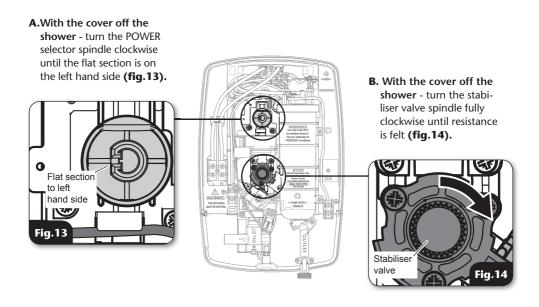
FITTING THE COVER

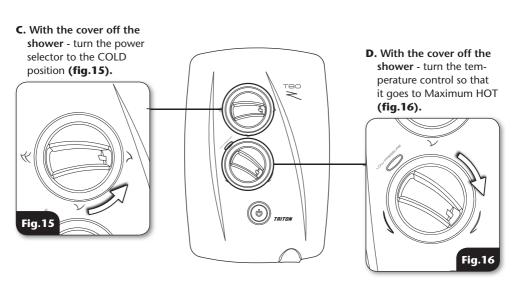
Figures **13, 14, 15** and **16** (on page 14) show the correct control knob position when replacing the cover.

- Check to ensure that the wiring is not trapped and replace the cover squarely to the backplate and guide into position so that the knobs locate correctly into the splined spindles.
- Should any difficulty arise, recheck the points above.
- While applying slight pressure to the cover, secure in position with the retaining screws.
- Fit the Riser Rail and Kit (see kit instructions).

FITTING THE COVER - continued

Figures 13, 14, 15 and 16 show the correct control knob position when replacing the cover.





▲ 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.

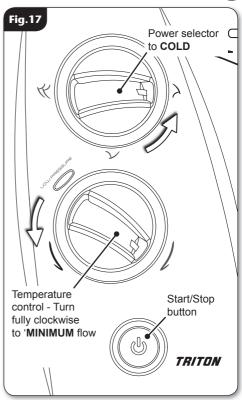
This operation **MUST** be carried out **WITH** the flexible hose screwed to the outlet but **WITHOUT THE SHOWERHEAD ATTACHED**.

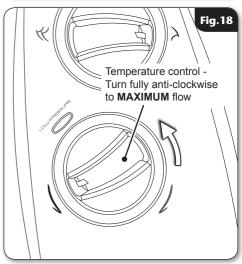
Make sure the outlet of the flexible hose is directed to waste.

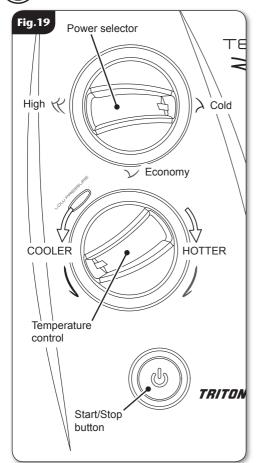
IMPORTANT: Failure to turn the control to the minimum flow position **MAY** cause the PRD to operate.

- Before turning on the electric and mains water supplies to the shower, make sure that the power selector is at the 'COLD' position and the temperature control is turned to fully clockwise to 'MINIMUM' flow (fig.17).
- Turn on the mains water supply to the shower at the isolating stopvalve and then turn on the electric supply to the shower at the isolating switch.
- Press the **Start/Stop** button (**fig.17**) and wait until water starts to flow from the flexible hose.
- 4. Slowly rotate the temperature control fully anti-clockwise to the MAXIMUM flow position (fig.18). It will take about thirty seconds for a smooth flow of water to be obtained while air and any debris is flushed from the shower.
- When a smooth flow of water is obtained, rotate the temperature control from MINIMUM to MAXIMUM several times to release any trapped air within the unit.
- Once flushing out has been completed, stop the water flow by pressing the **Start/Stop** button.
- Fit the showerhead to the flexible hose and place in the showerhead holder.

The shower is now ready for normal operation.







OPERATING THE SHOWER - (fig.19)

Make sure the commissioning procedure has been carried out.

To start the shower

Press the Start/Stop button and water will flow.

To stop the shower

- Press the Start/Stop button and water will cease to flow.
- After stopping the unit MUST be isolated via the 45amp isolating switch.

MARNING

If restarting immediately after stopping, be aware that a slug of hot water will be expelled for the first few seconds.

To use the power selector

The power selector has three positions - **COLD**, **ECONOMY** and **HIGH**.

Cold setting - single blue line.

 Cold: the cold setting does not provide any heat from the heater can to the incoming water.

Economy setting - single red line.

• **Economy:** uses only one of the elements within the heater can.

NOTE: If the stated flow rate required for the unit cannot be met due to low water pressure, it will be necessary to operate the unit on this setting during the warmer months because of flow rate limitations entering the unit.

High Setting - double red lines.

 High: uses both of the elements within the heater can.

IMPORTANT: it will take a few seconds for the temperature to stabilise once changes have been made.

To adjust the shower temperature -Economy and High settings only

- The water temperature is altered by increasing or decreasing the flow rate of the water through the shower via the temperature control (fig.19).
- 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 ECONOMY will give a different temperature to the same position on HIGH.

To decrease the shower temperature

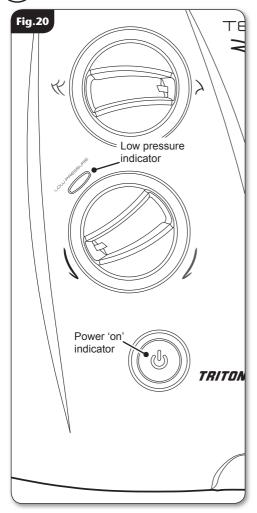
 Turn the temperature control anti-clockwise

 this will increase the flow of water through the shower and make the water colder.

To increase the shower temperature

 Turn the temperature control clockwise - this will decrease the flow of water through the shower and make the water hotter.

NOTE: It is advisable that the showering temperature is satisfactory by testing with your hand before stepping under the showerhead. There will always be a time delay of a few seconds between selecting a flow rate and the water reaching the stable temperature for that flow rate.



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.

OPFRATING FUNCTIONS

Power on indicator (fig.20)

When the electricity supply to the shower is switched on at the isolating switch, the neon in the START/STOP button will illuminate.

TP - Temperature Protection

During normal operation if the temperature exceeds the showering safety limit the power to the elements will be removed completely, although water will continue to flow. When the temperature has cooled sufficiently, power to the elements will be automatically restored to the settings at the time of interruption.

Abnormal Safety cut-out

The unit is fitted with a non-resettable thermal cut-out safety device. In the event of abnormal operation which could cause unsafe temperatures within the unit, the device will disconnect the heating elements. It will require a visit from a qualified engineer to determine the nature of the fault and replace the safety device, once the unit has been repaired.

Low pressure indicator

If this indicator is on, this means the water pressure has fallen below the minimum required for correct operation of the shower, resulting in the low pressure cut-out operating. This switches off power to the heating elements preventing any undue temperature rises (water will continue to flow). Power will automatically be restored when adequate water pressure returns.

Instructions for installers and service engineers only

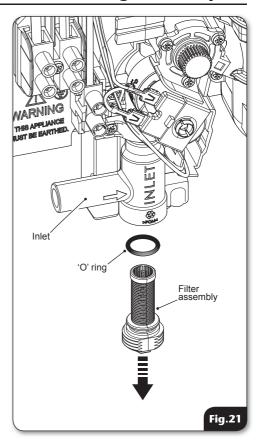
CLEANING THE FILTER

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.

IMPORTANT: Before servicing, switch off the electricity supply at the mains.

- Switch off the water supply at the isolator valve.
- The inlet filter is situated inside the water inlet fitting (fig.21).
- To gain access to the filter, remove the cover and bottom left 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.

NOTE: Full commissioning procedure will need to be performed after cleaning of the filter - see **page 15** for information on commissioning procedure.



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	
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 Power cut. Check other appliances and if necessary, contact local Electricity Supply Co.1.2.1 Have unit checked. Ring 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 temperature cycling hot/cool at intervals.	3.1 Heater cycling on temperature limiter.	3.1.1 See 'Water too hot' causes 2.1, 2.2 and 2.3 and their appropriate action/cures. If it continues contact Triton Customer Service.	
4	Water too cool or cold.	4.1 Too much flow.	4.1.1 Reduce flow rate via temperature control.4.2.1 Is water supply mains or tank fed?	
		4.2 Water pressure below minimum required (see rating label).	 4.2.2 If tank fed, replumb to mains water supply or see 4.2.4. 4.2.3 If mains fed, make sure that mains stopvalve is fully open and that there are no other restrictions in the supply while shower is in use, or see 4.2.4. 4.2.4 Fit pump to give minimum pressure (see rating label). Contact Customer Service for advice. 	
		4.3 Reduction in ambient water temperature.	4.3.1 Readjust flow rate to give reduced flow.4.3.2 Select 'HIGH' power.	

FAULT FINDING/TROUBLESHOOTING

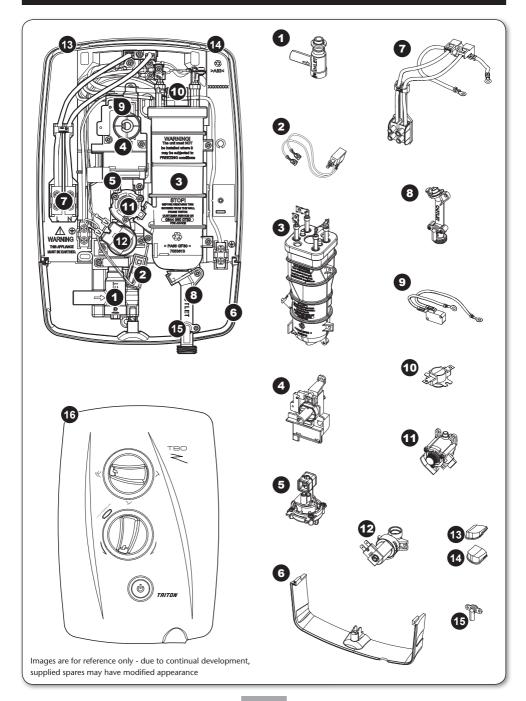
Problem/Symptom	Cause	Action/Cure
4 Water too cool or cold. (continued)	4.4 Electrical malfunction.	4.4.1 Have unit checked by suitably qualified electrician or contact Triton Customer Service.
	4.5 Safety cut-out operated.	4.5.1 Thermal safety cut-out device has operated. Have the unit checked by a suitably qualified engineer or contact Customer Service.
5 Shower varies from normal temperature to cold during use.	5.1 Water pressure has dropped below minimum required.	5.1.1 Wait until the water pressure resumes to normal.
6 Pressure relief device has	6.1 Blocked showerhead.	6.1.1 Clean or replace blocked sprayplate in showerhead and then fit new PRD.
operated (water ejected from PRD tube).	6.2 Twisted/blocked flexible shower hose.	6.2.1 Check for free passage through hose. Replace the hose if necessary and fit new PRD.
	6.3 Showerhead not removed while commissioning.	6.3.1 Fit new PRD. Commission unit with showerhead removed.
7 Shower fails to shut off.	7.1 Faulty power selector.	7.1.1 Replace power selector.
silut Oii.	7.2 Debris in the solenoid.	7.2.1 Replace solenoid valve.

Note: Identify the cause of operation before fitting a 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 unit failure other than detailed in the fault finding page, please contact Customer Service for advice.

SPARE PARTS



SPARE PARTS

SPARE PARTS

Rei	f. Description	Part No.	Model	
1.	Inlet Filter Assembly	P82800843		
2.	Start/stop switch	P81901342		
3.	Can & Element Assembly	83314790 83314800 83314810 83314820 83314830	(7.5kW) (8.5kW) (9.5kW) (10.5kW) (8.5kW ECO)	
4.	Switch carriage	P22611001		
5 .	Pressure Switch	P22611003		
6.	Trimplate	7054303 7054304	(white) (black)	
7.	Terminal block & loom	S82201190 S82201220 S82201220	(white - 7.5kW, 8.5kW, 9.5kW, ECO versions) (white - 10.5kW version) (chrome - all kW versions)	
8. 9.	Outlet pipe & PRD Micro switch (set of 2)			
10	. Thermal Cut-Out (TCO)	22012340		
11	. Stabilising Valve	P22640800		
12	. Solenoid valve	P22610801		
13	Pipe trims (top left)	7054305 7054306	(white) (black)	
14	. Pipe trims (top right)	7054307 7054308	(white) (black)	
15	15. Pressure Relief Device (PRD)82800450			
16	. Cover Assembly	P80000003 P80000004 P80000005	(white) (chrome) (ECO)	
-	Neon Assembly	P22610903	(not illustrated)	



IMPORTANT - GENERAL GUIDANCE NOTES



1 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 6700.

- **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.

3 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.

▲ WARNING

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.

Children should be supervised to ensure that they do not play with the appliance.

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

A COMISSIONING 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

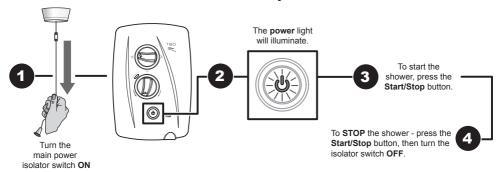
It is recommended that all products are cleaned using warm, soapy water.

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

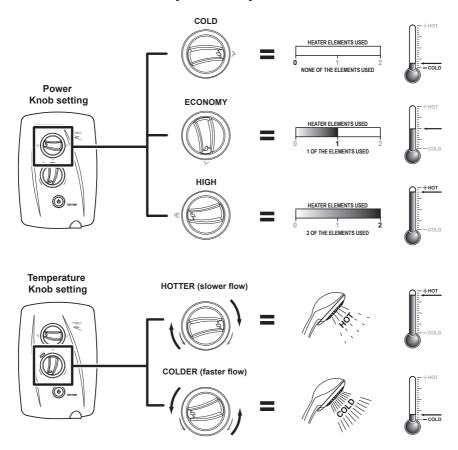


SHOWER CONTROLS - QUICK USER GUIDE

To START or STOP your shower.



To alter the FLOW and Temperature of your shower - HEAT SETTINGS ONLY.



UK SERVICE POLICY

In the event of a product fault or complaint occurring, the following procedure should be followed:

- Telephone Customer Service on 0844 980 0750 having available, your details including post code, the model number and power rating of the product, together with the date of purchase and, where applicable, details of the particular fault.
- 2. If required, the Customer Service Advisor will arrange for a qualified engineer to call.
- All products attended to by a Triton service engineer must be installed in full accordance with the Triton installation guide applicable to the product. (Every product pack contains an installation guide, however, they can also be bought via our Customer Service Spares Department).
- **4.** Our engineer will require local parking and if a permit is required this must be available to the engineer on arrival at the call.
- 5. It is essential that you or an appointed representative (who must be over 18 years of age) is present for the duration of the service engineer's visit. If the product is in guarantee you must produce proof of purchase.
- 6. Where a call under the terms of guarantee has been booked and the failure is not product related (i.e. scaling and furring, incorrect water pressure, pressure relief device operation or electrical/plumbing installation fault) a charge will be made. A charge will also be issued if nobody is at home when the service engineer calls or adequate parking/permit is not available.
- 7. If the product is no longer covered by the guarantee an up front fixed fee will be charged before the site visit.
- 8. Should proof of purchase not be available on an "in-guarantee" call, or should the service engineer find that the product is no longer under guarantee, the engineer will charge the same fixed price and the customer will be expected to pay the engineer before he leaves. If payment is not made on the day an administration charge will be added to the fixed charge.
- If a debt is outstanding from a previous visit, or from any other Triton purchase. Triton reserves the right to withhold service until the debt has been settled.
- 10. Triton takes the health, safety and wellbeing of its employees very seriously and expects customers to treat all staff members with respect. Should any employee feel threatened or receive abuse, either verbally or physically, Triton reserves the right to withhold service and will support the employee with a legal prosecution.

Replacement Parts Policy

Availability: It is the policy of the manufacturer to maintain parts availability for the duration of production and a period of five years thereafter, in accordance with industry standards.

Spare parts are available via our website, **www.tritonshowers. co.uk**, or by telephoning Triton Customer Service Spares Department. Payment should be made by credit/debit card (*excluding American Express or Diners Card*).

Payment can also be made by pre-payment of a pro forma invoice by cheque or money order.

Triton Showers
Triton Road
Nuneaton
Warwickshire CV11 4NR

Triton is a division of Norcros Group (Holdings) Limited

TRITON STANDARD GUARANTEE

Triton guarantee this product against all mechanical and electrical defects arising from faulty workmanship or materials for a period of two years for domestic use only, from the date of purchase, provided that it has been installed by a competent person in full accordance with the fitting instructions.

Any part found to be defective during this guarantee period we undertake to repair or replace at our option without charge so long as it has been properly maintained and operated in accordance with the operating instructions, and has not been subject to misuse or damage.

This product must not be taken apart, modified or repaired except by a person authorised by Triton. This guarantee applies only to products installed within the United Kingdom and does not apply to products used commercially. This guarantee does not affect your statutory rights.

What is not covered:

- 1. Breakdown due to: a) use other than domestic use by you or your resident family; b) wilful act or neglect; c) any malfunction resulting from the incorrect use or quality of electricity, gas or water or incorrect setting of controls; d) failure to install in accordance with this installation quide.
- **2.** Repair costs for damage caused by foreign objects or substances.
- Total loss of the product due to non-availability of parts.
- **4.** Compensation for loss of use of the product or consequential loss of any kind.
- **5.** Call out charges where no fault has been found with the appliance.
- 6. Call out charges where the water supply cannot be isolated, this includes consequential losses arising from unserviceable supply valves.
- 7. The cost of repair or replacement of pressure relief devices, showerheads, hoses, riser rails and/or wall brackets, isolating switches, electrical cable, fuses and/or circuit breakers or any other accessories installed at the same time.
- 8. The cost of routine maintenance, adjustments, overhaul modifications or loss or damage arising therefrom, including the cost of repairing damage, breakdown, malfunction caused by corrosion, furring, pipe scaling, limescale, system debris or frost.

Customer Service: 7 0844 980 0750

Trade Installer Hotline: 🕿 0844 980 0730

Fax: 0844 980 0744

www.tritonshowers.co.uk

E-mail: serviceenquiries@tritonshowers.co.uk