

TRITON

Safeguard T100 Care electric shower

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Installation and operating instructions



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

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

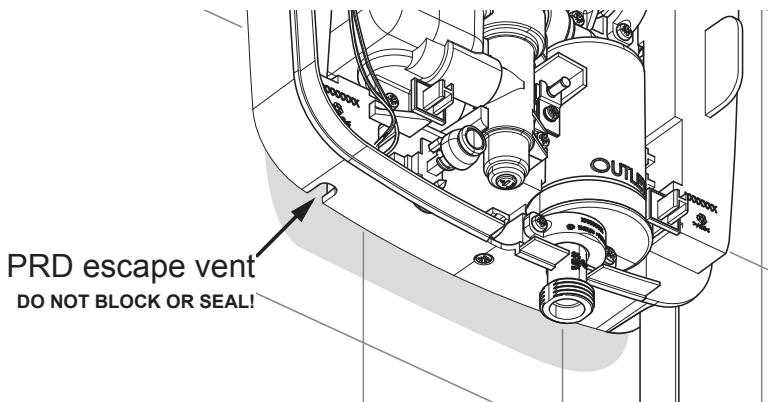
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Please read this important safety information

- ▲ 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.
- ▲ **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.
- ▲ **DO NOT** tile up to the shower. It **MUST ONLY** be mounted onto the finished wall surface.
- ▲ **DO NOT** seal around the shower backplate or the shower cover (using silicone sealer, or similar) once the unit is fixed to the wall.
- ▲ **Important PRD information:** **DO NOT** seal the outlet hole on the bottom left of the backplate. This is the PRD escape vent (see illustration below).



Please read this important safety information

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 descaler 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.

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.

How to operate the shower

When the electricity supply to the shower is switched on at the isolating switch, the power indicator will light.

To start the shower

Press the **start/stop** bar and water will flow. After a few seconds a flow of heated water will be available.

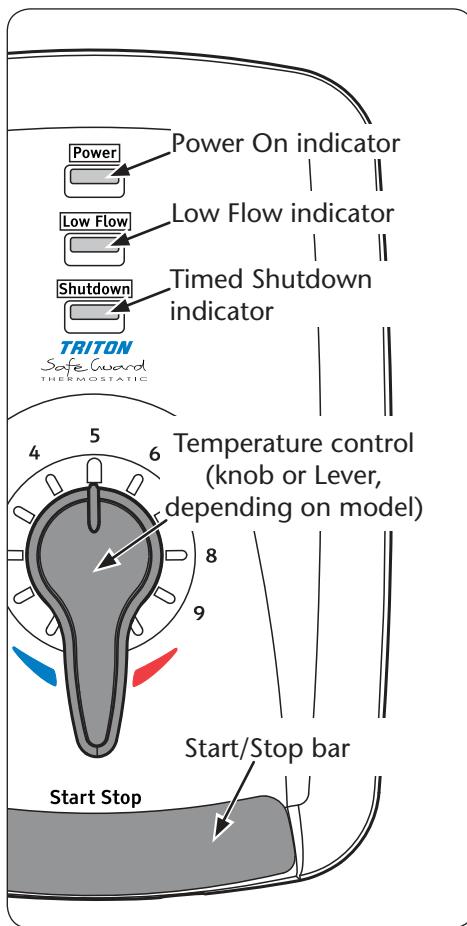
To stop the shower (manually)

The shower can be stopped by pressing the **start/stop** bar. When pressed, the phased shutdown will begin and water will cease to flow after a few seconds.

To stop the shower (timed Shutdown)

Shutdown times can be set at **5, 10, 20** (factory setting) or **30** minutes. When the indicator illuminates it indicates there is **1** minute before the timed shutdown will turn the shower off.

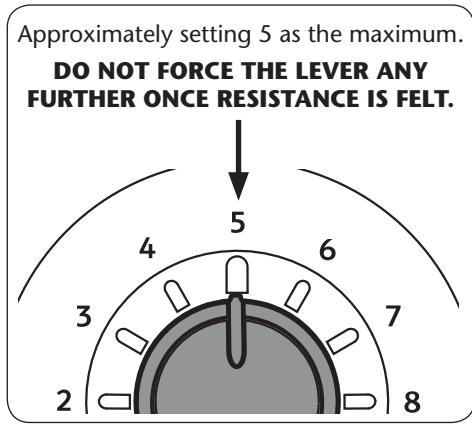
Fig.A



Warning!

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience or 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 without supervision.

Fig.B



To adjust the shower temperature

The water temperature is altered by changing the amount of **Hot** water from the heater can that is mixed with **Cold** water from the inlet. This is done by moving the temperature control lever (**fig.A**).

Adjusting the temperature control can alter the flow of water through the unit.

After obtaining your preferred showering temperature the number setting can be remembered and left as the preferred setting.

Important: When set to 41°C (BEAB Care setting) the temperature lever will sit at setting 5 (approximately) as its maximum position (fig.B).

To decrease the shower temperature

Turn the temperature control **anti-clockwise**; this will increase the flow of water through the shower and is indicated by lower numbers.

To increase the shower temperature

Turn the temperature control **clockwise**; this will decrease the flow of water through the shower and is indicated by higher numbers.

When the **start/stop** bar is pressed water will continue to flow in order to remove heated water inside the unit (**see phased shutdown process, P25**). Water will cease to flow after a few seconds.

After phased shutdown the unit must be isolated via the 45amp-isolating switch.

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.

Warning!

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

Note: It is advisable to be certain 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.

Introduction

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

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

The shower installation must be carried out by a suitably qualified person and in the sequence of this instruction book.

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

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)

Water

Inlet connection – 15 mm diameter.

Outlet connection – ½" BSP male thread.

Entry Points

Water – **Right:** Top, bottom back, bottom.

Cable – **Right:** Top, top back, bottom.

Materials

Backplate, cover, controls, showerhead – ABS.

Sprayplate – Acetal.

Elements – Minerally insulated corrosion resistant metal sheathing.

Dimensions

Height – 300 mm

Width – 208 mm

Depth – 95 mm

Standards and Approvals

Splashproof rating IPX4.

Complies with the requirements of current British and European safety standards for household and similar electrical appliances.

Complies with requirements of the British Electrotechnical Approvals Board (BEAB) and BEAB CARE mark (BEAB).

Meets with Compliance with European Community Directives (CE).

Advice to Users

Important: 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.

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

a) Temperature/flow rate

The temperature control can be adjusted to provide shower temperatures between 35°C and 47°C.

Alternatively, adjusting the temperature stop mechanism inside the unit to 38°C, 41°C or 43°C maximum can restrict the shower temperature.

Important: To comply with BEAB care mark requirements (use in healthcare or special needs environment) the **Safeguard T100 Care unit** **MUST** be altered to **41°C**. The unit is factory set at 47°C (see page 22 on how to adjust the MAXIMUM temperature stop to **41°C**, to meet **BEAB care requirements**).

At a selected showering temperature the unit will provide the optimum flow rate possible. Note the maximum flow rate for the given temperature will be greater in the summer than in the winter because of the variance in the ambient mains water supply.

Should water pressure/flow to the shower be insufficient for optimum performance then the unit will operate at a reduced power level and provide the highest flow rate possible for the given shower temperature.

b) Temperature stabilisation

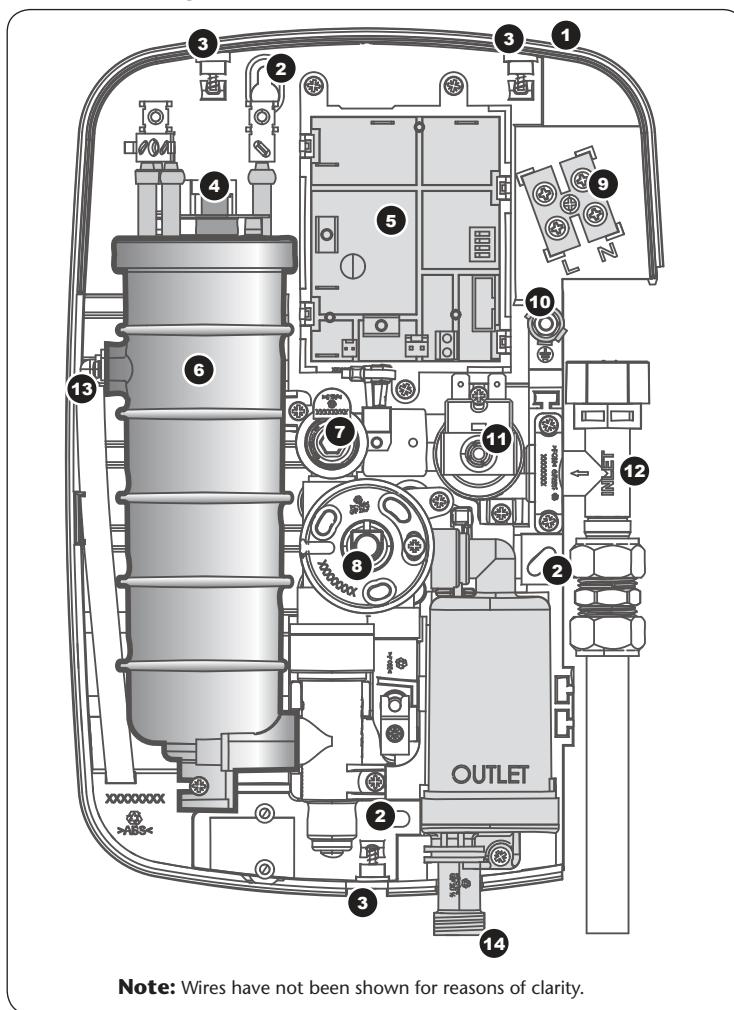
The shower will maintain temperature in accordance with the BEAB care mark.

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, and possibly damage the sealing rubber.

Main Components

Inside the unit (fig.1)



Inside the unit (fig.1)

- 1. Top cable/pipe entry
- 2. Wall screw fixings
- 3. Cover screw fixings
- 4. Thermal safety cut-out
- 5. Power printed circuit board
- 6. Can and element assembly
- 7. Flow switch assembly
- 8. Temperature Control
- 9. Terminal block
- 10. Earth connection
- 11. Solenoid valve
- 12. Water inlet
- 13. Pressure relief device (PRD)
- 14. Shower outlet

Main Components (continued)

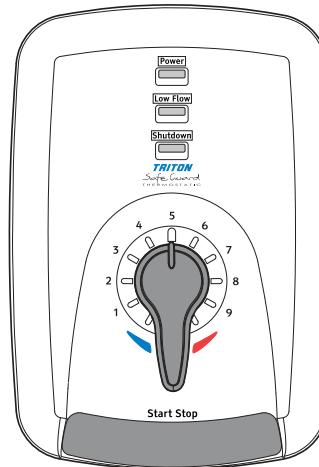
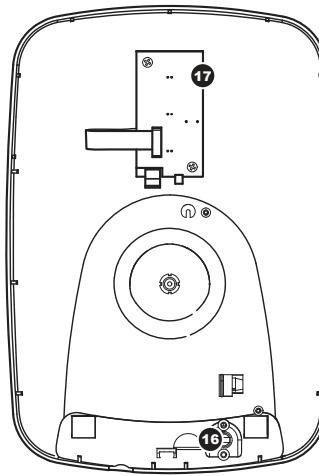
Inside cover (fig.2)

- 16. Stop/start switch
- 17. Control printed circuit board

Other items

- Instructions, guarantee, etc.

Inside cover (fig.2)



Safeguard T100 Care cover

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:

- 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.

Fig.3

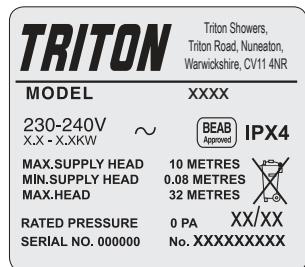


Fig.4 Schematic of installation circuit

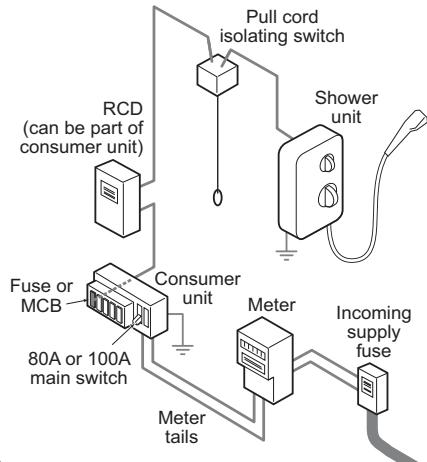


Table A

CIRCUIT PROTECTION		
unit rating	MCB	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

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, 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
6mm ² 32A	6mm ² 38A	6mm ² 46A
10mm ² 43A	10mm ² 52A	10mm ² 63A
16mm ² 57A	16mm ² 69A	16mm ² 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.**

6mm ² 	10mm ² 	16mm ² 
		

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

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

Water Requirements

The installation must be in accordance with Water Regulations/Bylaws.

Supply Source.....	Mains pressure cold water only
Minimum running pressure and flow at the shower inlet*	50kPa (0.5 bar) at 8 litres per minute*
Maximum static pressure	1000 kPa (10 bar)
Maximum inlet temperature	28°C
Minimum inlet temperature	2°C

* Recommended minimum running pressure and flow at the shower inlet 100kPa (1 bar) at 8 litres per minute for full performance.

Note: if the recommended running pressure and flow is not available there will be a noticeable reduction in flow from the showerhead.

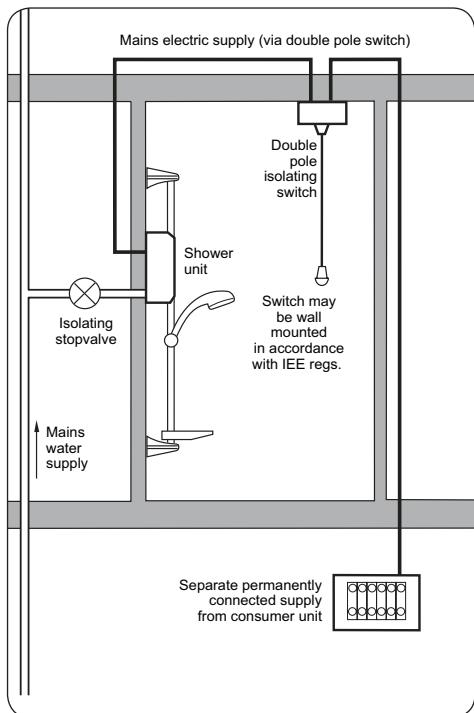
If it is intended to operate the shower at pressures above the maximum or below the minimum stated, contact Customer Service for advice.

Fig.5 shows a typical system layout.

Do not use jointing compounds on any pipe fittings for the installation.

Important: To comply with BEAB care mark in service testing procedure the isolating valve should be located close to the shower unit.

Fig.5 Diagrammatic view (not to scale)



Siting of The Shower

For ease of servicing, the unit must always be mounted on the surface of tiled walls. Never tile up to the unit.

Refer to (Fig.6) for correct siting of 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.

IMPORTANT: Water regulations

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 which can cause the PRD to operate.

When commissioning, the showerhead must be removed from the flexible hose. Failure to follow this procedure may also cause the PRD to operate.

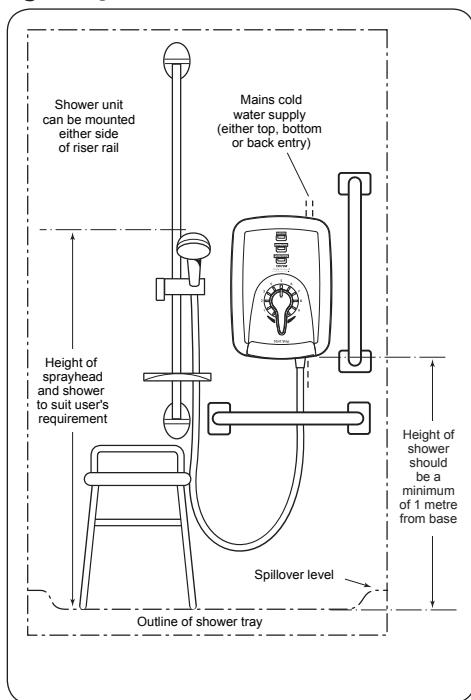
Make sure the shower is positioned over a bath or shower tray because if the PRD operates, then water will eject from the bottom of the unit.

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.

Fig.6 Diagrammatic view (not to scale)



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.

Fitting the Shower to the Wall

Note: The control knobs are an integral part of the cover – **DO NOT** attempt to remove them.

Unscrew the two top and one bottom retaining screws (**fig.7**) and lift the cover from the backplate.

Entry positions for the mains water and electric cable are from the top, bottom, or from the back.

Note: Deviations from the designated entry points will invalidate product approvals.

If bottom entry has been chosen, fit the appropriate cut-out in the top of the backplate (**fig.8**).

If top entry has been chosen, fit the appropriate cut-out in the bottom of the cover (**fig.9**).

After choosing the site for the shower, use the Installation Template supplied to mark the three fixing holes, the position of which are shown in (**fig.7**).

Drill and plug the wall.

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

Screw the top fixing screw into position leaving the base of the screw head protruding 6 mm out from the wall.

Hook the backplate over the top screw and fit the other fixing screw 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.

Fig.7

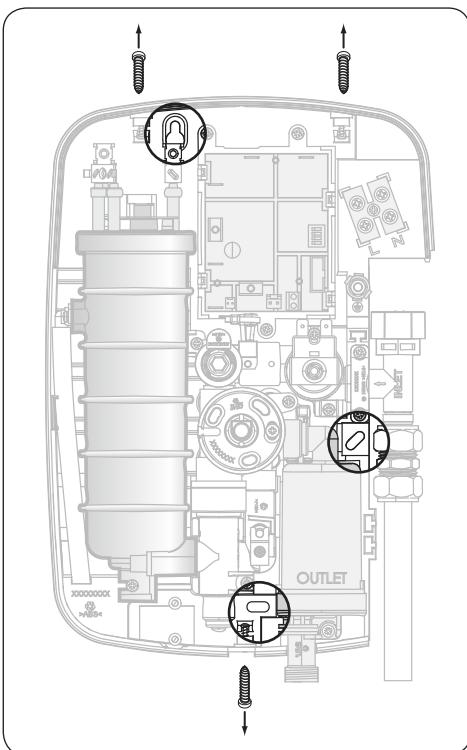


Fig.8

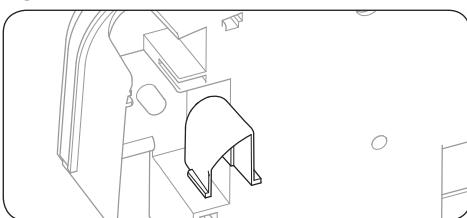
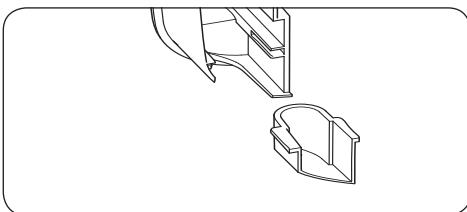


Fig.9



Plumbing Connections

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 travel along pipework and damage components.

Compression fittings **Must** be used to connect to the inlet of the shower.

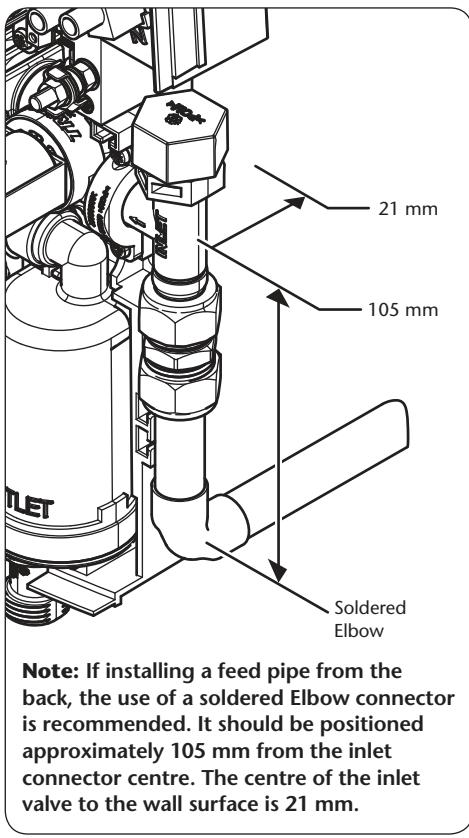
Note: An additional stopvalve (complying with Water Regulations) **Must** be fitted in the mains water supply to the shower as an independent means of isolating the water in order to carry out maintenance or servicing.

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.

Procedure

Turn off the water supply either at the mains stopvalve or the isolating stopvalve. Connect the mains water supply to the Inlet of the shower via 15mm copper, stainless steel or plastic pipe using a 15mm x 15mm compression fitting, see (fig.10) for advice on Rear Entry fitting.

Fig.10



The Inlet fitting is designed to rotate through 180° to allow for either Top or Rear entry fitting (**fig.11**).

Note: The inlet fitting is designed to enter a compression fitting only. **DO NOT** use push fit connectors as full engagement cannot be guaranteed. **DO NOT** use excessive force when making these connections.

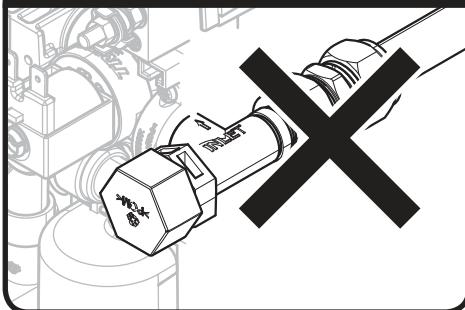
Make sure the backplate is square on the wall and tighten the retaining screws which hold it to the wall.

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: Using a suitable sealant, always seal around the incoming pipework to prevent water entering the wall.

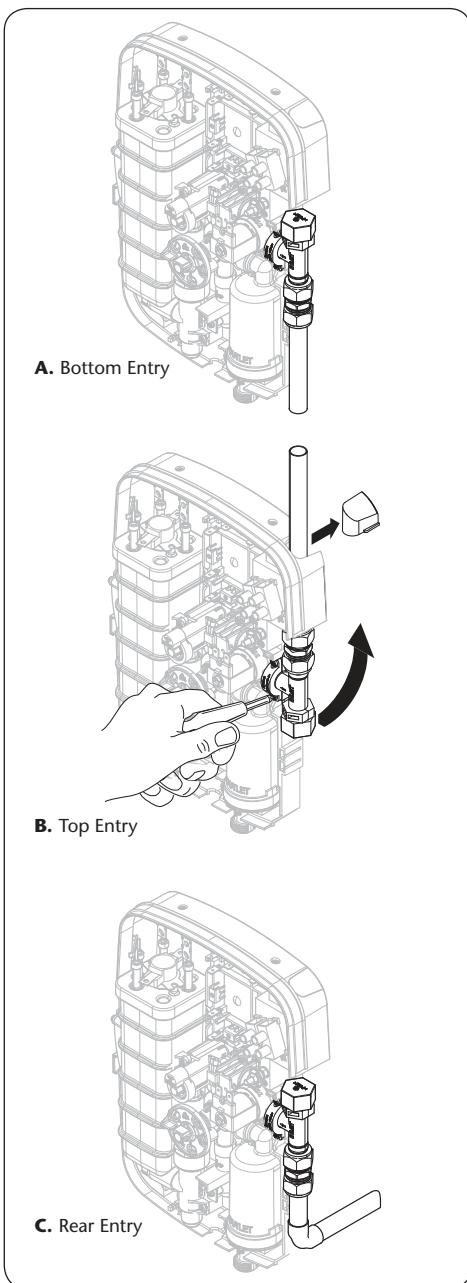
Important: The Inlet Fitting Must be used in the Bottom fitting position for Rear fitting. Under NO circumstances must the Inlet be rotated 90° and the pipe fitted directly. The shower has not been designed for this method of connection. See below.



Warning!

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

Fig.11



Electrical Connections

Switch off the electricity supply at the mains.

Fig.12 shows a schematic wiring diagram.

The cable entry points are shown in **fig.1**. The cable can be surface clipped, hidden or via 20 mm conduit.

Note: Conduit entry can only be from rear. Route the cable into the shower unit and connect to the terminal block (**fig.13**) as follows:

Earth cable to terminal marked 

Neutral cable to terminal marked **N**

Live cable to terminal marked **L**

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

The use of connections within the unit, or other points in the shower circuit, to supply power to unspecified equipment *other than that listed on page 12*, will invalidate the guarantee.

DO NOT switch on the electricity supply until the 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.

Warning!

After any servicing of mains water supply, always flush out the pipework to remove any debris.

In these circumstances the unit should only be re-started by following the commissioning procedure on page 20.

Fig.12

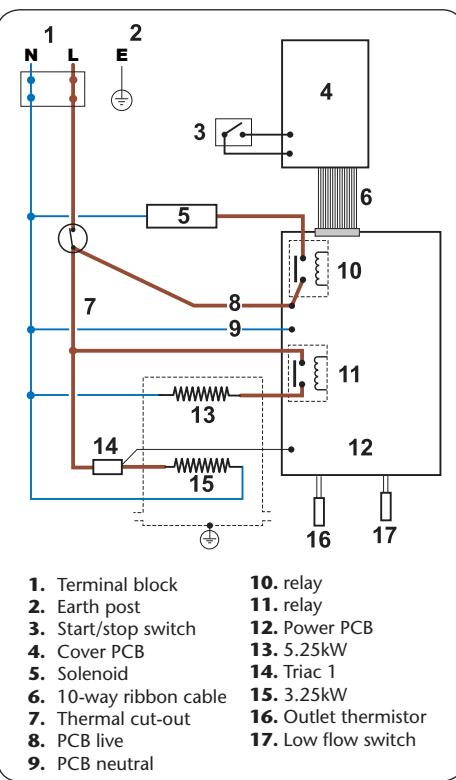
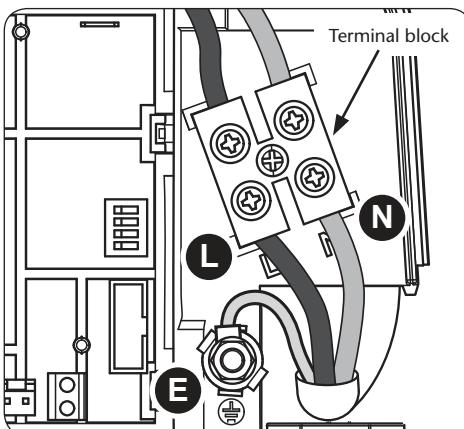


Fig.13



Shower Drain Pumps

Principals of operation

When the shower is turned on, an internal sensor sends a signal to the transformer to supply DC voltage to the pump.

When the shower is turned off, a signal is sent to the transformer and after a preset time delay stops the supply of DC voltage to the pump.

(Please refer to the relevant Pump manufacturers installation instructions for full details of operation).

Warning!

The pump is a non-gravity installation. It is advised that where the property is left unattended for an extended period of time, that the water supply to the shower is shut off.

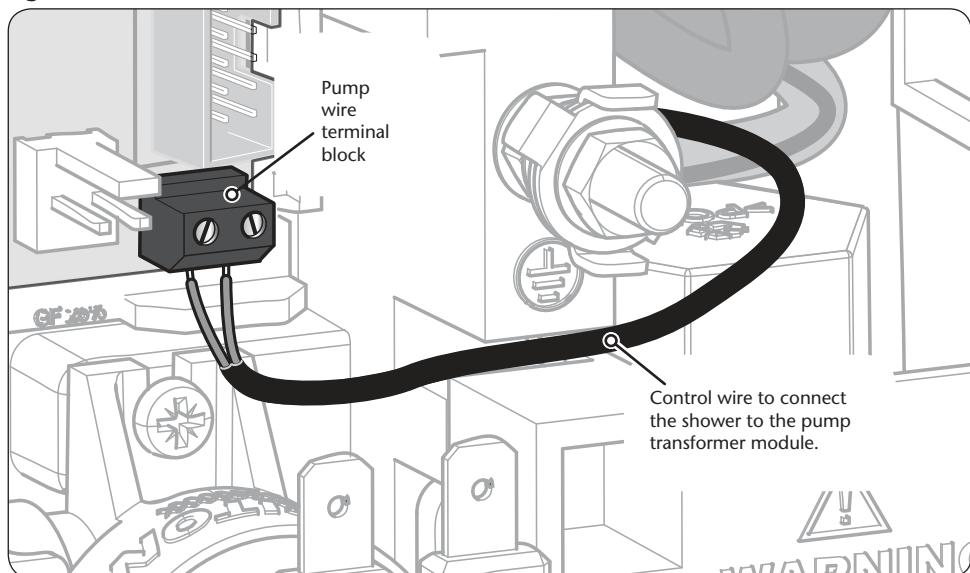
Connecting the Control Wire

The showers internal Pump Control Wire electrical connector is shown in (fig.14).

Note: Numbers 1 and 2 only cover connecting the outgoing wire within the shower - Please refer to the relevant Pump manufacturers installation instructions for Pump connection and relevant IEE regulations that must be met.

1. Connect the Control Wire from the pump to the showers terminal block situated at the bottom of the showers PCB.
2. The terminal block in the shower is not polarity sensitive, so the wires can be connected either way round.

Fig.14



Pumps are not supplied with any products manufactured by Triton Showers.



PCB HANDLING & ESD PRECAUTIONS

Contact with the PCB assembly should be limited to adjustment of DIP switches and connection of the ribbon cable.

The use of an ESD wrist band is advised to reduce the risk of potential ESD damage should more extensive PCB contact be required.

***Compatible shower drain pumps**

The following Pumps are compatible with the shower:

AKW Medicare.

1. AKW Archimedes 4 - **25306-25310** (A4)
2. AKW Archimedes 4F - **25301-25305** (A4F)
3. AKW DigiPump 4 - **25251-25255** **

Technical Helpline: **01905 823 299**

E-mail: **sales@akw-medicare.co.uk**

For AKW Pump information please visit: **www.akw-medicare.co.uk**

CONTOUR SHOWERS.

1. **PRIMO-XTRA 05PP01** - Pump Only.
2. **PRIMO-XTRA 05PP01A** - With UPS-3 -22 gully to suit a shower tray.
3. **PRIMO-XTRA 05PP01B** - With USG1-WH gully to suit a wet floor former.
4. **PRIMO-XTRA 05PP01C** - With CSG1 gully for screed floors.

Technical Helpline: **01606 592 586**

E-mail: **sales@contour-showers.co.uk**

For Contour Showers Pump information please visit: **www.contour-showers.co.uk**

NICHOLLS and CLARKE Ltd.

1. **P6821619** - Phlexiflow Twinned pump waste system, bottom exit tray kit.
2. **P6821620** - Phlexiflow Twinned pump waste system, top exit tray kit.
3. **P6821620** - Phlexiflow Twinned pump waste system, wet floor kit.

Technical Helpline: **0208 586 4600**

E-mail: **Tony.wright-jones@nichollsandclarke.com**

For Pump information please visit: **www.nichollsandclarke.com**

WHALE PUMPS.

1. **SDP044T** - Tray kit.
2. **SDP054T** - Wet Floor Kit.

Technical Helpline: **0845 0694 253**

E-mail: **info@whalepumps.com**

For Whale Pump warranty information please visit: **www.whalepumps.com**

*No endorsements are offered by Triton Showers regarding any third party products listed within this fitting book.

** To be used in conjunction with supplied flow sensor on the water inlet (**NOT** to be connected to Safeguard PCB).

Commissioning

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.

Temporarily fit the cover to the unit making sure that the connector is **NOT** plugged into the PCB fitted in the shower (**fig.15**).

Temporarily fitting the cover

For ease of access to the Inlet fitting the right hand side of the shower has a removable Side plate. This **MUST** be fitted before the cover to stop any water penetration of the shower during the Commissioning procedure (**fig.16**).

Once the Side plate is fitted offer the cover to the unit.

Guide the cover into position so that the Temperature control spindle locates correctly (minor adjustment may be necessary to align the control and spindle). Secure the cover 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 that the supplied sealing washer is in place.

DO NOT attach the showerhead at this stage.

Turn on the water supply to the shower at the isolating stopvalve. Switch on the electricity supply to the shower at the isolating switch.

Wait until water starts to flow from the flexible hose.

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.

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.

Note: Removal of power to the PCB is the only way to exit the Commissioning Mode.

Fig.15

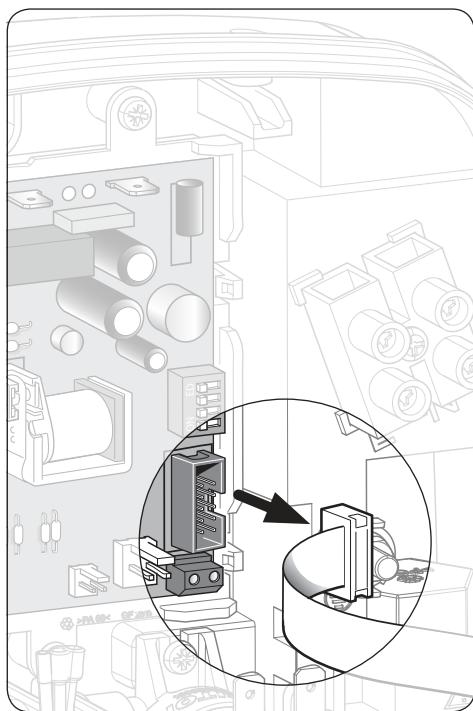
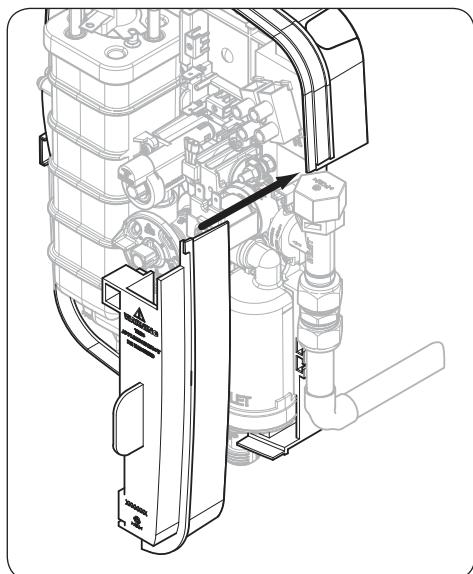


Fig.16



Adjusting the Maximum temperature stop 35°C to 47°C - Standard showering

The temperature control valve has an adjustable maximum temperature stop mechanism that is supplied factory set a 47°C (fig.17).

To select a lower maximum temperature stop setting, isolate the mains electricity supply to the shower. Remove the cover and disconnect the ribbon cable from the power PCB.

(fig.18 - 20) - remove the locking screw from the mechanism and rotate the mechanism to the preferred setting point to align with the screw fixing point. Insert the locking screw through the temperature setting label and lock in place.

Reconnect the ribbon cable, replace the cover assembly (please see p24), and restore mains electrical power to the unit.

Fig.17

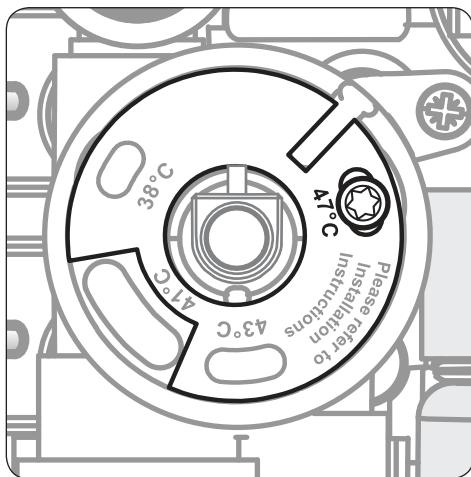
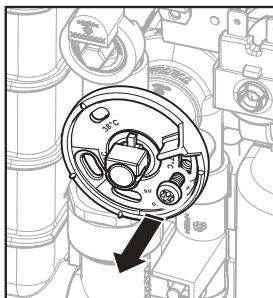
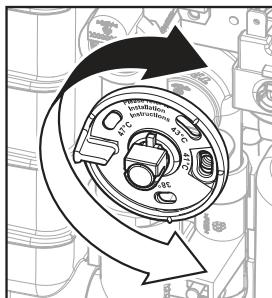


Fig.18



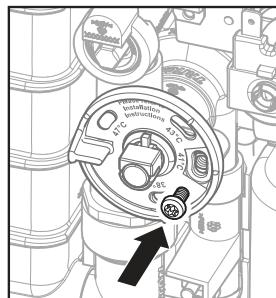
Remove the locking screw securing the temperature face plate.

Fig.19



Rotate the temperature face plate clockwise or anti-clockwise until the desired temperature is reached.

Fig.20



Replace the locking screw securing the temperature face plate at the new temperature.

IMPORTANT:

Please follow the procedure outlined on page 22 when altering the maximum stop to conform with the BEAB Care (41°) showering setting.

BEAB Care

Fig.21

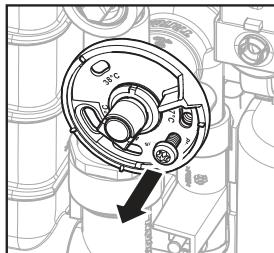


Fig.22

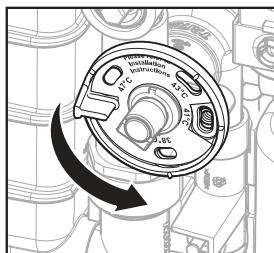


Fig.23

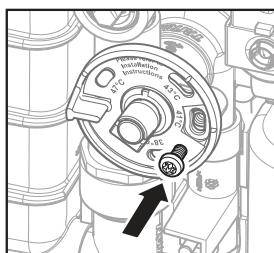
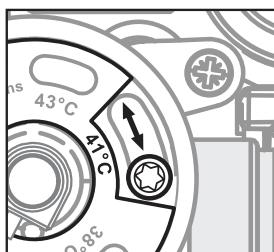


Fig.24



IMPORTANT INFORMATION:

*BEAB care mark specification states a **MAXIMUM** of 41°C outlet temperature.

If the shower is adjusted above the maximum 41°C the product falls outside the official BEAB care mark specification.

Setting the temperature stop to *41°C, BEAB Care use

Isolate the mains electricity supply to the shower.

With the cover on, rotate the temperature control fully anti-clockwise past number 1 until it stops.

Remove the cover and disconnect the ribbon cable from the power PCB.

Remove the locking screw securing the temperature face plate (fig.21).

Rotate the temperature face plate to align the 41°C slot with the screw hole (fig.22).

Replace the locking screw (fig.23), but **DO NOT FULLY TIGHTEN THE SCREW, AT THIS TIME.**

Rotate the temperature face plate fully anti-clockwise making sure that the screw is sitting at the lowest point of the slot (fig.24).

Reconnect the power PCB cable and replace the cover assembly (please see p24).

Restore mains electrical power to the unit.

Start the shower by pressing the Start/Stop button.

The shower should be run for a minimum of 30 seconds to allow the water temperature from the handset to stabilise.

Following the instructions given on **page 34 (section 1: Measuring the Shower Outlet Water Temperature)**, slowly rotate the temperature control until the water temperature is *41°C (or below).

Switch off the shower and isolate the unit from the mains electricity supply.

Remove the cover and disconnect the ribbon cable from the power PCB.

Fully tighten the temperature face plate locking screw, making sure the face plate position does not alter.

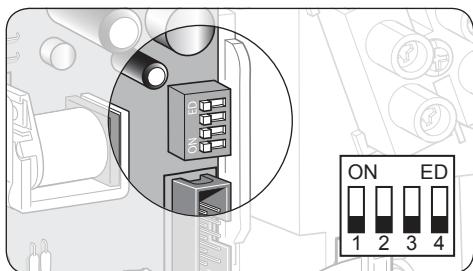
Reconnect the ribbon cable, replace the cover assembly (please see p24), and restore mains electrical power to the unit.

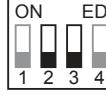
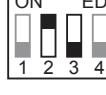
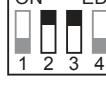
Important: When set to 41°C (BEAB Care setting) the temperature lever will sit at setting 5 (approximately) as its **maximum** position. **DO NOT FORCE THE LEVER ANY FURTHER ONCE RESISTANCE IS FELT.**

DIP Switch Settings

A four way DIP switch block is mounted on the control PCB that allows the user to configure the shower to perform different functions (fig.25).

Fig.25



Dip Switch No.	Operation Enabled	Switch Position
DIP switch 1 On	Audible Feedback On (Factory setting)	 On
DIP switch 1 Off	Audible Feedback Off	 Off
DIP switch 2 Off DIP switch 3 Off	Timed Shutdown - 5 Mins	 5 Mins
DIP switch 2 Off DIP switch 3 On	Timed Shutdown - 10 Mins	 10 Mins
DIP switch 2 On DIP switch 3 Off	Timed Shutdown - 20 Mins (Factory setting)	 20 Mins
DIP switch 2 On DIP switch 3 On	Timed Shutdown - 30 Mins	 30 Mins
DIP switch 4	Spare	

Replacing the Cover

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.26).

Note: The cable connector can be fitted to the socket only one way. The ribbon cable has a coloured edge which is at the bottom when correctly fitted to the socket.

Note: The ribbon cable is preformed to fold flat when the cover is fitted.

Important: Before finally fitting the cover, the following steps must be taken:

- a. Check all plumbing connections are watertight.
- b. Check terminal block screws are fully tightened.
- c. Make sure pipe and cable entering the unit do not prevent the cover locating correctly to the backplate.

Offer the cover to the unit.

Guide into position so that the knob spindle locates correctly (minor adjustment may be necessary to align the knob and spindle). Should any difficulty arise, recheck the points above.

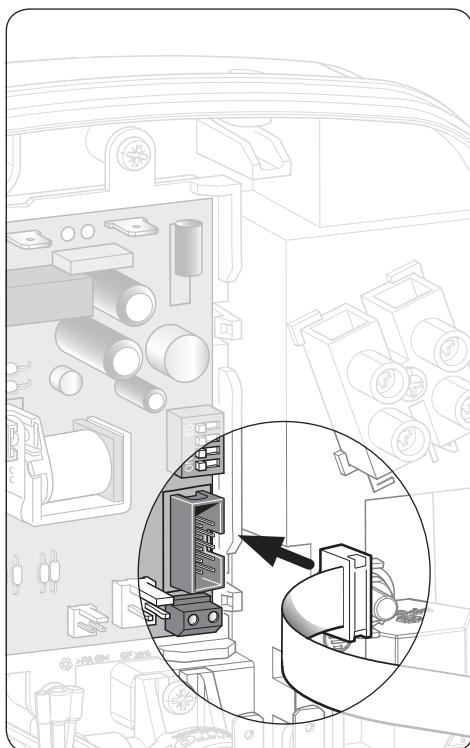
While applying slight pressure to the cover, secure in position with the three retaining screws.

Turn the electric supply back on at the isolating switch. The 'Power' indicator will light. No water will flow now until the Start/Stop bar is pressed.

However, 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.

Fig.26



Operating functions (fig.27)

Power on indicator (green)

When the electricity supply to the shower is switched on at the isolating switch, the power indicator will light up.

Low flow indicator (red)

If a low flow condition occurs the unit will turn off the water flow immediately.

It will be necessary to wait until water in the unit has reduced to a comfortable temperature, at which point the LED will extinguish. Pressing the start bar will then restart the unit.

*Timed Shutdown indicator (yellow)

The operation of this LED denotes that a "Timed shutdown" has been programmed into the unit. When the indicator illuminates it indicates there is 1 minute before the timed shutdown setting. The indicator will then flash for 5 seconds prior to the shower switching off, an audible beep will also commence if it has been set to do so (see commissioning section, for information on how to program the unit).

Phased shutdown

In use, every time the **Start/Stop** button is pressed, power is switched off to the elements. Water will continue to flow for a few seconds, flushing out any remaining hot water. This makes sure the next immediate user will not receive a slug of hot water if standing under the showerhead when starting the shower.

Temperature Protection

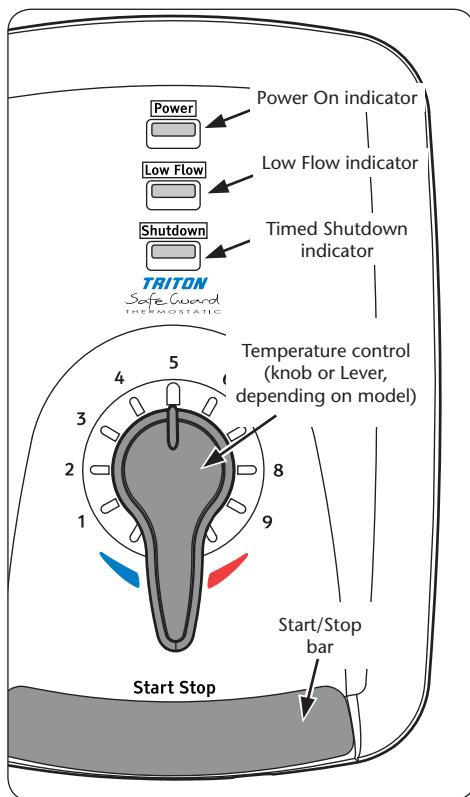
During normal operation if the flow of water through the unit is restricted power to the elements will be reduced to maintain the shower temperature. When the flow of water through the unit returns to normal power to the elements will be automatically restored to the setting at the time of interruption.

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 unit, the device will disconnect the heating elements and remove power from the electronics making the shower unit inoperable.

It will require a visit from a qualified engineer to identify the nature of the fault and replace the safety device.

Fig.27



*Note

The "Timed Shutdown Indicator" will only operate if the unit reaches one of the predetermined shut down times of: 5, 10, 20 (factory setting) or 30 minutes. To set the unit to one of these times see page 23.

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.

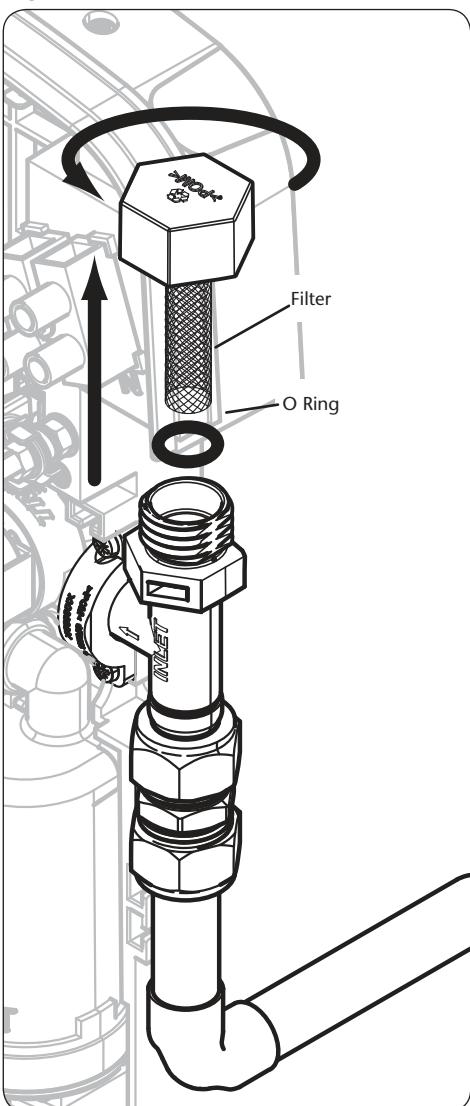
The inlet filter is situated inside the water inlet fitting (fig.28).

To gain access to the filter remove the cover and right hand trim plate. Unscrew the cap on the water inlet fitting.

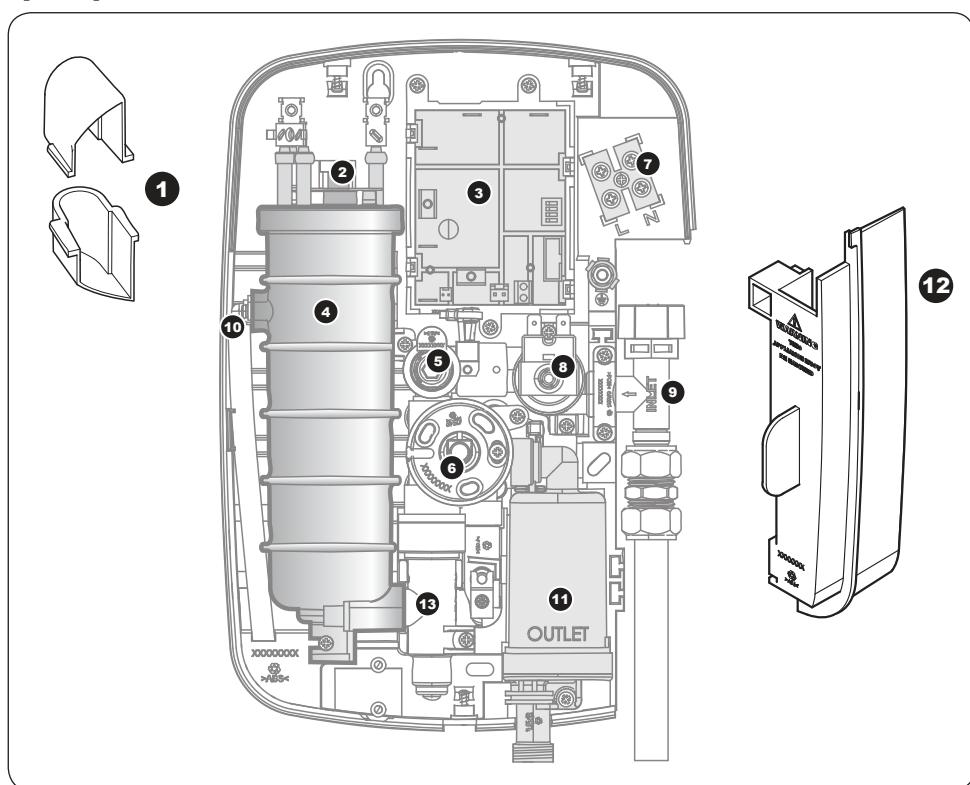
Inspect the O ring for damage when the filter is removed. Do not over tighten the filter cap on reassembly.

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.

Fig.28



Spare parts

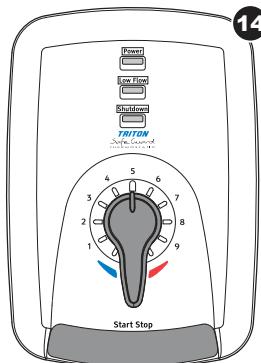


Ref. Description

Part No.

1.	Top and bottom pipe entry trim	83312720
2.	Thermal safety cut-out.....	22012020
3.	Power printed circuit board	7073740
4.	Can and element assembly	
	8.5Kw	83313080
	9.5Kw	83315270
5.	Flow switch assembly	S19521007
6.	Temperature Control assembly	S19520805
7.	Terminal block and wires	S19520901
8.	Solenoid valve assembly	P19520800
9.	Water inlet filter assembly.....	P19521005
10.	Pressure relief device (PRD).....	82800450
11.	Shower outlet reservoir.....	P19521009
12.	Access trimplate	7053714
13.	Heater inlet valve assembly	
	8.5Kw	S19520806
	9.5Kw	S19520808

Spare parts



Ref.	Description	Part No.
-	Heater can wire set (not shown).....	83312730
-	Triac and wires (not shown)	P19520903
-	Thermister (not shown).....	22012030
14.	Safeguard T100 Care front cover assembly	S19520603
	(includes cover pcb and start/stop switch)	

Fault finding

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.	1.2.1 Power cut? Check other appliances and if necessary, contact local Electricity Supply Co.
	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 Temperature control set incorrectly.	2.1.1 Alter the temperature control.
	2.2 Unit malfunction.	2.2.1 Have the unit checked by a suitably qualified service engineer or contact Customer Service.
3 Water too cool or cold.	3.1 Temperature control set incorrectly.	3.1.1 Alter the temperature control.
	3.2 Maximum temperature stop set incorrectly.	3.2.1 Alter the Maximum temperature stop.
	3.3 Unit malfunction.	3.3.1 Have the unit checked by a suitably qualified service engineer or contact Customer Service.
4 Water will not stop flowing from unit unless switched off at isolating switch.	4.1 Control ribbon cable is not connected to PCB.	4.1.1 Remove cover and connect ribbon cable.
5 Pressure relief device has operated (water ejected from PRD tube).	5.1 Blocked showerhead.	5.1.1 Clean sprayplate and then fit a new PRD.
	5.2 Twisted/blocked flexible shower hose.	5.2.1 Check for free passage through hose. Replace hose if necessary and then fit new PRD.
	5.3 Showerhead not removed while commissioning.	5.3.1 Fit new PRD. Commission unit with showerhead removed.

Fault finding

Problem/Symptom	Cause	Action/Cure
6 Low flow LED permanently on when start/stop bar pressed. Shower will not start.	6.1 Low flow condition	6.1.1 Insufficient water flow available. 1. Check showerhead is not blocked 2. Check shower hose is not restricted. 3. Check filter is not blocked. 4. Check water supply to shower is adequate
7 Low flow LED comes on when shower is running. Shower switches off.	7.1 Low flow condition has caused temperature sensor in the shower to operate.	7.1.1 Shower will not start until water in the unit has cooled and LED goes off. If problem persists. 1. Check showerhead is not blocked 2. Check shower hose is not restricted. 3. Check filter is not blocked. 4. Check water supply to shower is adequate
8 Low flow LED flashes continuously when start/stop bar pressed. Shower will not start.	8.1 Flow switch has failed	8.1.1 Replace flow switch assembly
9 Low flow and shutdown LED's alternately flashing when power turned on to unit. Shower will not start.	9.1 Start/Stop switch failed	9.1.1 Replace cover assembly
10 Low flow and shutdown LED's flashing simultaneously when start/stop bar pressed. Shower will not start.	10.1 Outlet thermistor failed	10.1.1 Replace thermistor
11 Low flow and shutdown LED's permanently on when power is turned on. Shower will not start.	11.1 Power pcb faulty	11.1.1 Replace power pcb

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 unit failure other than detailed in the fault finding page, please contact Customer Service for advice.

In-service Testing (Safeguard T100 Care)

**Designation Code:
-IW-S Shower**

Commissioning

Where installed (Establishment):
Installed/commissioned by:

Location of Unit: _____
Signed: _____

Location of Unit: _____
Signed: _____

Date of Commissioning		dd/mm/yy	Yes/No	No
1	Check unit designation matches the intended use	IV-5	Yes	No
2	Check that the Maximum temperature stop is set to 41°C (See Page 13)	41°C		
3	Mains water supply static pressure (See Page 6 - Water requirements).	bar		
4	Mains water supply running pressure (See Page 6 - Water requirements).	bar		
5	Mains water supply temperature (Range: 5 - 20°C).	°C		
6	Terminal voltage (Range: 230V ± 10%).	V		
7	Ambient temperature of water supply (See Note 2).	°C		
8	Supply voltage at terminals (see Note 2).	V		
9	Maximum water temperature at shower outlet (See Note 3).	°C		
10	Maximum water temperature when water supply is restricted (See Note 4).	°C		

*Prior to installation check:

a) The inlet filter of the shower is free from debris.
b) The in-line check valves or other back-flow prevention devices are in good working order.

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These tests should be performed after resetting the shower to the default running setting by pressing the **Start** bar on the shower cover. These tests should be performed by measuring temperature from a mains cold water tap.

|| List of Test Equipment || used:

List of Test Equipment Used	
Measurement:	Test equipment used (Model, make, etc)/Method used:
Supply water pressure	
Voltage	
Water temperature	

Note: All installation, commissioning and in-service testing must be undertaken by a suitably qualified engineer.

In-service Testing Record

Using the same test equipment as above, record the following:

Date		Check condition of internal components		Check that the Maximum temperature stop is set to 41°C (See page 13)		Ambient temperature of mains water supply (see Note 2).		Supply voltage at unit terminals (See Note 5).		Outlet water temperature (see Note 6).		Checks made in accordance with (see Note 6).		Outlet water when temperature restricted (see Note 4).		Date of next in-service check or withdrawal (see Table 1).		Signed	
dd/mm/yy		Yes/No		Yes/No		C		V		C		°C		°C		dd/mm/yy			
11	Isolate unit from mains electricity and remove cover.	Replace the cover, switch on the unit and set the temperature control to maximum temperature stop		12	Check that the Maximum temperature stop is set to 41°C (See page 13)	13	Ambient temperature of mains water supply (see Note 2).	14	Supply voltage at unit terminals (See Note 5).	15	Outlet water temperature (see Note 6).	16	Checks made in accordance with (see Note 6).	17	Outlet water when temperature restricted (see Note 4).	18	Date of next in-service check or withdrawal (see Table 1).		

Note: All installation, commissioning and in-service testing must be undertaken by a suitably qualified engineer.
(This page may be reproduced for continued recording of In Service Testing)

Notes for commissioning and in-service testing

1. Measuring the Shower Outlet Water Temperature

With the shower running, position the showerhead horizontally and place a funnel under the water flow. Make sure that the funnel mouth collects all of the water emitted from the showerhead. Take a reading using a temperature probe in the collected water flowing from the outlet of the funnel.

Typical dimensions of a suitable funnel are:
Opening diameter: 110mm,
Throat diameter: 15mm.

2. Measuring the Heated Water from Shower Outlet

After resetting the shower to the default setting (press the 'Start' bar on the shower cover) measure using the method described in (1.) above.

3. Measurement of Heated Water from the - Shower Outlet when Restricting the - Mains Water Supply

Progressively restrict the inlet water flow to the unit using the service valve (see page 6) until the 'Low' LED comes on (on the cover) and the shower shuts down with no water flow from the showerhead. Open the service valve slightly and restart the shower using the Stop/Start button. Record the resulting outlet water temperature using the method described in (1.) above. If this exceeds 43°C withdraw the shower from service and call Customer Service on **0844 980 0750**.

Note: The service valve should be returned to the fully open position after this test.

4. Measurement of Supply Voltage at Appliance Terminals

Switch off the electricity at the mains supply and remove the circuit fuse. Remove the shower cover, taking care to position it so that it does not hang by the interconnecting ribbon cable.

Replace the circuit fuse and switch on the electrical mains supply. Take the AC voltage reading across the Live and Neutral screws of the mains terminal block.

Take care NOT to touch any other internal components of the shower. Switch off the electricity at the mains supply, remove the circuit fuse and replace the cover using the screws supplied.

Note: This test should only be performed by a suitably qualified engineer.

5. When the Set Maximum Outlet Water Temperature has Changed Significantly

If the set maximum outlet water temperature has changed significantly from the previous test results (greater than $\pm 1^{\circ}\text{C}$), check:

- a. That the outlet fittings (showerhead/shower hose) are free from restrictions and limescale.
- b. That the inlet filter of the shower is free from debris (see page 26).
- c. That in-line check valves or other back-flow prevention devices are in good working order.
- d. Any isolating valves on the water main supplying the unit are fully opened.

If, after making the above checks, an acceptable outlet water temperature is not achieved withdraw the shower from service and contact Triton Customer Care on **0844 980 0750**.

Frequency of in-service testing

Table 1

Conditions for In-service test	Next in-service test
First in-service test.	6 to 8 weeks after commissioning.
If no significant change in water outlet temperature (greater than $\pm 1^{\circ}\text{C}$) between commissioning and first test.	12 months after commissioning.
On going service testing.	Annually on the anniversary date when the unit was commissioned.

Entry Points

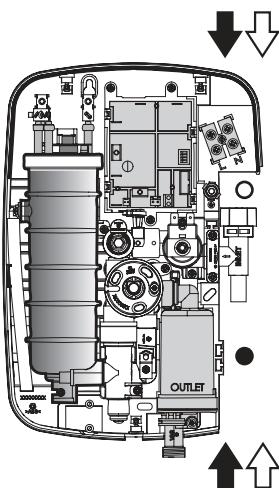
Diagram Key:



Water Entry Points



Cable Entry Points



WEEE Directive – Policy Statement

As a producer and a supplier of electric showers, Triton Showers is committed to the protection of the environment via our own environmental policy and the compliance with the **WEEE directive**.

Triton Showers is fully registered with the Environment Agency under the following schemes:

Repic: Producers take-back scheme (PTS), registration number WEE/EJ3466QV

Valpak: Distributor take-back scheme (DTS), registration number 9659

All our electric products are labelled accordingly with the crossed out wheeled bin symbol. This indicates, for disposal purposes at end of life, that these products must be taken to a recognised collection points, such as local authority sites/local recycling centres; this will be free of any charges. **Do not return to Triton Showers.**



UK SERVICE POLICY

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

1. 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.
3. 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.
9. 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.

Telephone orders are based on information given during of the call.

Before contacting Triton, please verify your requirements using the information contained in the supplied user guide. Triton cannot accept liability for incorrect part identification.

Triton Showers
Triton Road
Nuneaton
Warwickshire CV11 4NR

Triton is a division of Norcros Group (Holdings) Limited

Extended Warranty AVAILABLE NOW. Call 0844 980 0740 for more details.

TRITON STANDARD GUARANTEE

With the exception of accessories, Triton guarantee the product against all manufacturing defects for a period of **2 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.

All accessories such as shower heads, hoses and riser rails carry a **1 year** parts only guarantee against manufacturing defects.

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 guide
2. Claims for missing parts once the product has been installed.
3. Repair costs for damage caused by foreign objects or substances.
4. Total loss of the product due to non-availability of parts.
5. Compensation for loss of use of the product or consequential loss of any kind.
6. Call out charges where no fault has been found with the appliance.
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,
9. Call out charges where the water supply cannot be isolated, this includes consequential losses arising from unserviceable supply valves.

**For the latest Terms & Conditions, please see:
www.tritonshowers.co.uk**

Customer Service: ☎ 0844 980 0750

**Trade Installer Hotline: ☎ 0844 980 0730
Fax: 0844 980 0744**

www.tritonshowers.co.uk

E-mail: serviceenquiries@tritonshowers.co.uk