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Sequential built-in
thermostatic mixer

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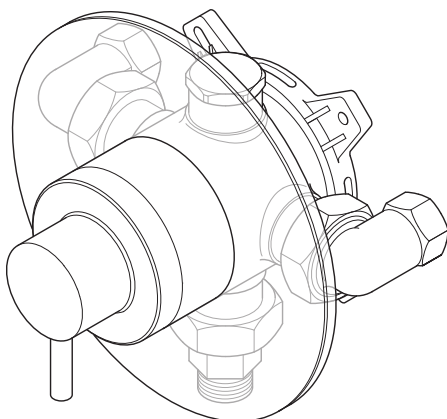
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IMPORTANT SAFETY ADVICE

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

INSTALLATION AND OPERATING INSTRUCTIONS

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

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

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INSTALLERS PLEASE NOTE THESE INSTRUCTIONS ARE TO BE LEFT WITH THE USER

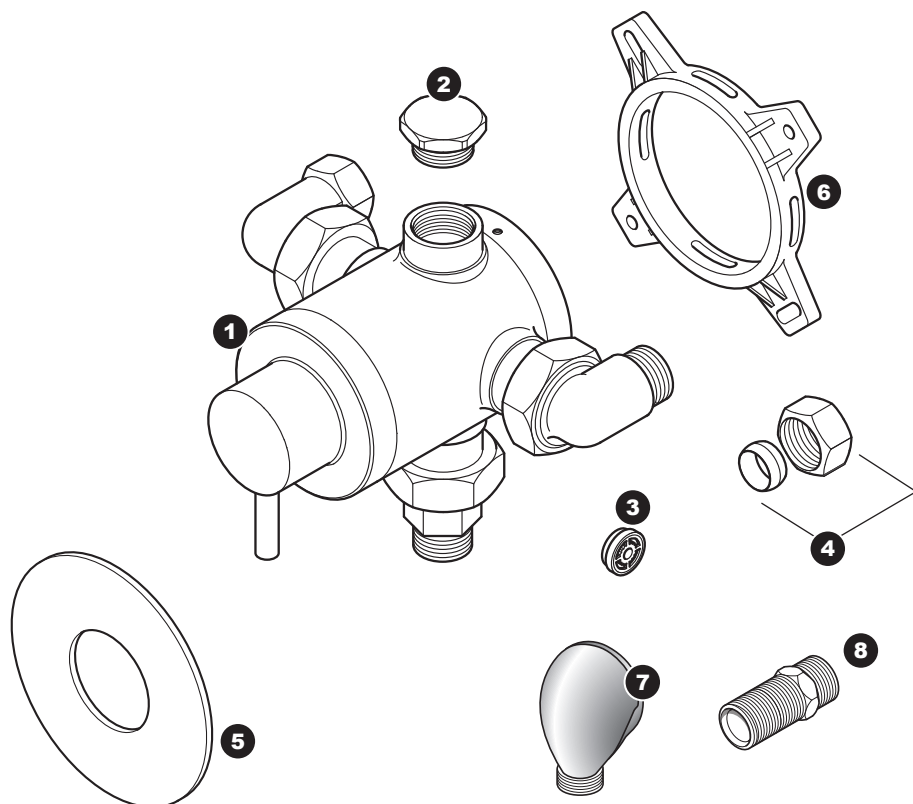
To check the product suitability for commercial and multiple installations, please contact Triton's specification advisory service before installation.

Telephone: 024 7637 2222

Email: technical@tritonshowers.co.uk

MAIN COMPONENTS

Fig.1



Ref. Description

- | | |
|----------------------------------|----------------------------------------|
| 1. Mixer shower body | 6. Mounting plate |
| 2. Blanking plug | 7. Outlet bulkhead |
| 3. Flow regulator X2 | 8. Nutted long thread connector |
| 4. Inlet nut and Olive X2 | |
| 5. Cover plate | |

INTRODUCTION

This book contains all the necessary fitting and operating instructions for your Triton mixer shower. Please read them carefully and read through the whole of this book before beginning your installation.

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

Care taken during the installation will give a long and trouble free life from your mixer shower.

SITE REQUIREMENTS

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

Water Pressure Requirements

Designation: HP-S

Running water pressure:

- | | |
|------------------|--------------------------------|
| Gravity fed (LP) | - 0.2 bar min.
1.0 bar max. |
| Mains fed (HP) | - 1.0 bar min.
5.0 bar max. |

Maximum static water pressure:

- Gravity and mains - 10 bar

This mixer shower is designed for use with traditional low pressure gravity water systems, using a cold water cistern and hot water cylinder as well as for the higher pressure systems found in the UK up to a maximum of 5 bar running pressure.

For effective operation of the internal seals, the maximum static pressure must not be exceeded.

If a water supply is fed by gravity then the supply pressure should be verified to ensure the conditions of use are appropriate for the valve.

NOTE: TYPE 3 approval applicable only to HP systems.

Pressure Reducing Valve

On sites where the running pressure is above 5 bar, the use of a suitably sized pressure reducing valve fitted in the cold mains supply pipework can provide nominally equal pressures at the mixer shower.

Water Minimum Flow Rate

For best performance within the specified running pressure range a minimum flow of 8 litres per minute should be available to both inlets.

Water Temperature Requirements

Maximum hot water temperature: = 80°C

TYPE3 Recommended maximum: = 65°C

Minimum hot water temperature: = 55°C

Maximum cold water temperature: = 20°C

Minimum cold water temperature: = 5°C

Minimum temperature differential: = 10°C

The mixer shower MUST NOT be subjected to water temperatures above 80°C.

A stored water temperature of 60°C is considered sufficient to meet all normal requirements and will minimise the effects of scale in hard water areas.

Valves operating outside these conditions cannot be guaranteed by the scheme to operate as type 3 valves.

Water Temperature Adjustment and Thermal Safety

The mixed water temperature can be adjusted from cold through to a top limit which must be preset during installation with full anti-scald protection throughout the range (35°C to 40°C) providing the hot water temperature at the inlet remains 10°C above the outlet temperature.

Should there be a loss of flow to either incoming supply then water from the shower will stop or be reduced until both supplies are restored.

SAFETY WARNINGS

- DO NOT** choose a position where the mixer shower could become frozen.
- DO NOT** connect this mixer shower to any form of tap or fitting not recommended by the manufacturer.
- DO NOT** allow the inlet pressure or flow rates to operate outside the guidelines laid out in Site Requirements.
- DO NOT** connect the mixer shower to a gravity hot supply and a mains cold supply or vice versa.

PLUMBING REQUIREMENTS

DO NOT use jointing compounds on any pipe fittings for the installation.

DO NOT solder fittings near the mixer shower as heat can transfer along the pipework and damage the mixer valve.

IMPORTANT:

- The layout and sizing of pipework **MUST** be such that nominally equal inlet supply pressures are achieved and the effects of other draw-offs are minimised.
- The pipework should be installed such that other taps and appliances being operated elsewhere on the premises do not significantly affect the flow
- When connecting pipework avoid using tight 90° elbows; swept or formed bends will give the best performance.
- The hot water pipe entry must be made to the left-hand side inlet, marked HOT, 'H' or with a red/orange label.
- Suitable isolating valves (complying with Water Regulations and Bylaws) must be fitted on the hot and cold water supplies to the shower as an independent means of isolating the water supplies should maintenance or servicing be necessary; position as close as is practicable to the water supply inlets of the mixer shower. If this isolator is fitted in a loft space, the loft must have a fixed access ladder and be boarded, with appropriate lighting from the access point to the isolator.
- It is preferable to flush the pipework to clear the system of debris and check for leaks before connecting to the mixer.
- The mixer inlets contain removable filters that may become blocked if debris is not flushed through before fitting.

Commercial Applications

- Triton recommends for all commercial applications that, easily accessible, in-line filters are used to aid maintenance.

Hard Water Areas

- a. 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 Triton scale inhibitor, please contact Customer Experience.
- b. For best performance the shower head **MUST** be regularly cleaned to remove scale and debris.

WATER SYSTEM REQUIREMENTS

This mixer shower is suitable for:

- Gravity water systems
- Pumped gravity systems
- Fully modulating type combination boilers
- Multi-point hot water heaters
- Thermal storage
- Unvented systems

When installing this mixer shower with a combination or multi-point boiler, it may be necessary to install flow regulation.

Check that the appliance is capable of delivering hot water at a minimum switch-on flow rate of 3 litres per minute. At flow rates between 3 and 8 litres per minute, the appliance must be capable of raising the water temperature to 52°C minimum.

Water temperature at the inlet of the mixer valve must remain relatively constant when flow rate adjustments are made - refer to the appliance operating manual to confirm compatibility with this mixer shower.

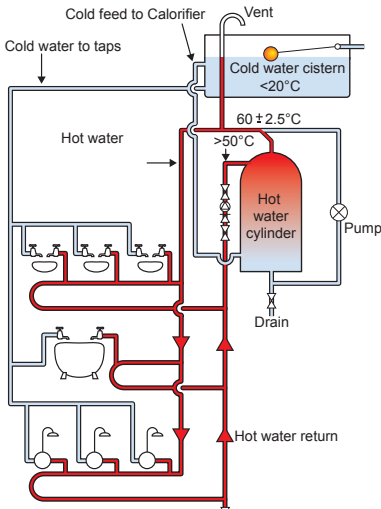
Where thermal store systems and instantaneous gas water heaters are used, if excessive draw-off takes place the appliance may not be able to maintain an adequate output temperature. This could result in the shower temperature becoming noticeably cooler.

Flow regulators can be fitted with high-pressure water systems to reduce flow rate and assist economy.

The hot supply temperature **MUST** remain a minimum of 10°C hotter than the required blend temperature for optimum performance.

***Fig.2**

*Diagrammatic view – not to scale.
For illustration purposes only.



TYPICAL COMMERCIAL INSTALLATIONS

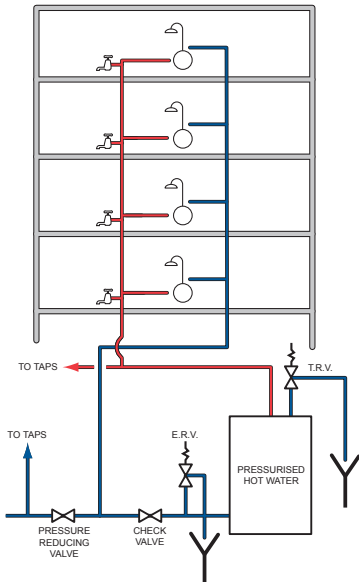
Commercial Gravity Fed Systems (fig.2)

The mixer shower **MUST** be fed from a cold water cistern and hot water cylinder providing nominally equal pressures. There must be a minimum of one metre head of water.

The minimum head distance is measured from the base of the cold water cistern to top of the shower head.

***Fig.3**

*Diagrammatic view – not to scale.
For illustration purposes only.



Commercial Unvented Mains Pressure Systems (fig.3)

The mixer shower can be installed with an unvented, stored hot water cylinder.

For systems with no cold water take off after the appliance reducing valve, it will be necessary to fit an additional drop tight pressure reducing valve when the mains pressure is over 5 bar. The drop tight pressure reducing valve must be set at the same value as the unvented package pressure reducing valve.

NOTE: An additional expansion vessel may be required if a second pressure reducing valve is installed. This does not apply to packages with a cold take off after the pressure reducing valve to the cylinder.

INSTALLATION

Preparing the Shower

Check the contents to make sure all parts are present.

Before starting the installation, make sure all the openings on the valve are carefully covered to stop ingress of any debris etc, while routing the supply pipework.

The mixer shower is suitable for built-in installation in a solid wall, a stud partition wall, dry lined wall or fixing to a shower cubicle or panel.

Siting of the Shower and Accessories

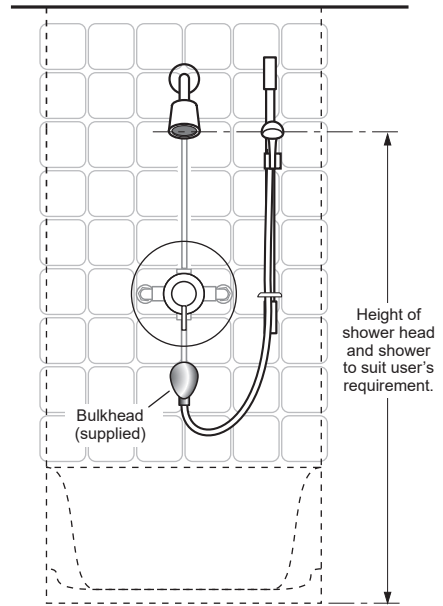
Refer to **fig.4** for correct siting of the shower.

The mixer shower should be positioned as detailed, with all controls within comfortable reach of the user.

The accessories (shower head, riser rail and/or fixed shower head) can be positioned above or to either side of the shower (**fig.4**).

***Fig.4**

*Diagrammatic view – not to scale.
For illustration purposes only.



Supply Pipework

Complete the pipework to the shower area having decided on the position of the shower and direction of pipe entry, for example rising, falling or rear entry.

The hot and cold water pipes should not be permanently attached to the wall within one metre of the valve, before installation is complete, to allow for final adjustment of the valve position.

For rear entry supplies, using a spirit level, mark the route of incoming hot and cold water supply pipes at a distance of approximately 150mm between centres (**fig.5**).

Fig.5

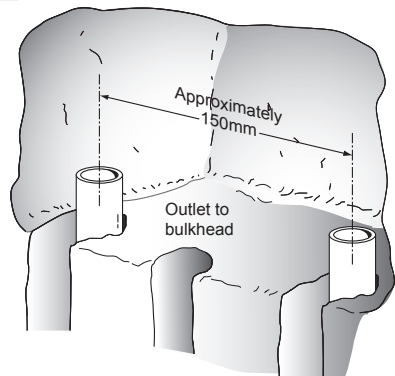
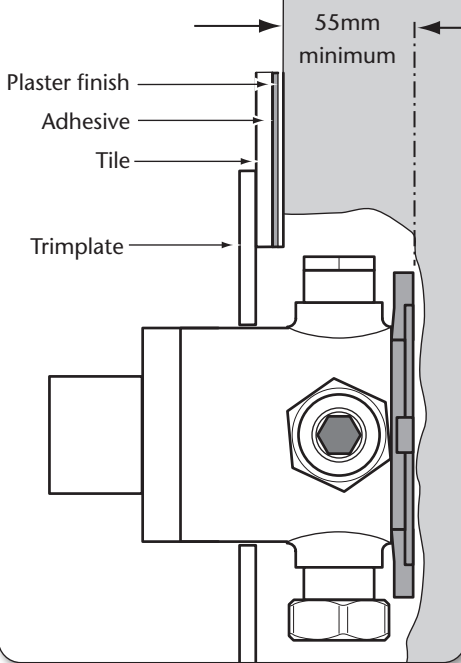


Fig.6



BUILT-IN FITTING

The following are typical thicknesses and are given as a guide only:

Tile	6 – 10mm
Adhesive	2 – 3mm
Plasterboard	9.5 – 12.5mm
Plaster finish	2 – 3mm

Maximum tile thickness to be 10mm.

When installing into a stud partition or other hollow wall structure, the installer may wish to consider building rear supports or other options for fitting the mounting plate. Such options are beyond the scope of this guide.

Use the supplied cover plate or tiling shroud as a template when cutting the opening for installing the shower into a solid wall, stud partition or hollow wall structure.

The building-in depth for the mounting plate is given in **fig 6** from the plaster finish but this is dependent upon tile and adhesive thicknesses.

The inlet elbows allow for either rising, falling or rear entry hot and cold water supplies. The elbows have 'O' ring seals (**fig.7**) to the body and do not require PTFE tape or other means of sealing. The filter **MUST** be fitted between the elbow and nut connector otherwise the elbow will leak.

NOTE: To ease future requirements for cleaning and maintenance of the unit, it is advisable to route both the incoming and outgoing pipework from the same direction. Access to the integral strainers will also be improved with this layout.

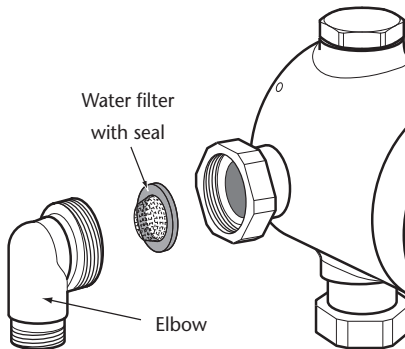
Installation in a Solid Wall

Decide on the shower position and determine whether the hot and cold water supplies will enter the shower from top (falling) or bottom (rising) or rear.

As a guide for the size of hole, it should be large enough to accept the valve complete with the inlet and outlet fittings and also allow access for connection to the pipework.

Remove the plaster and brickwork to the required depth and chase out any additional areas of the wall to give access to the pipework to and from the valve plus any outlet fittings.

Fig.7



NOTE: The valve body requires a deeper recess than the inlet and outlet fittings. The outlet pipework must end in a suitable female thread parallel 15mm x ½" BSP fitting (not supplied). Offer the valve body up to the wall and mark the fixing holes. Remove the valve, drill and plug the wall. Route the pipework to valve body position.

Installation in a Hollow Wall

Decide on the shower position and determine whether the hot and cold water supplies will enter the shower from the top (falling) or bottom (rising) or rear (**fig.8**).

When installing into a stud partition or other hollow wall structures, the installer will need to consider fabricating rear supports or other options. Such options are beyond the scope of this guide.

Mark the route of the incoming and outgoing pipework.

Take out the plasterboard - use the cover plate or tiling shroud as a template. Offer the valve body up to the fabrication and mark the two fixing holes.

Remove the valve and drill the holes. Route the pipework to the valve position.

Installation in a Panel or Cubicle

When installing into a panel or cubicle structure, the installer will need to consider fabricating rear supports or other options. Such options are beyond the scope of this guide.

Typically, there should be at least 65mm space from the surface of the panel to the rear of the valve body.

IMPORTANT: Access to the rear of the valve must be available.

The controls require one hole to be cut out of the panel or cubicle. Use the cover plate as a template to mark the hole positions then extend further to allow access for the filters.

Route the pipework to valve position.

Fig.8

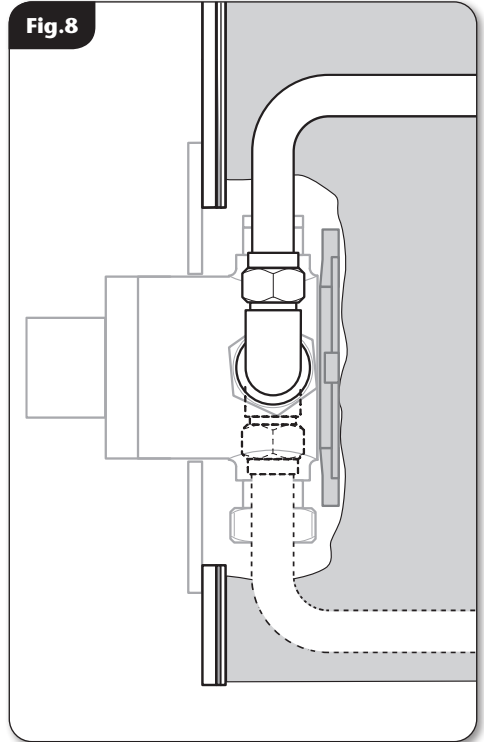
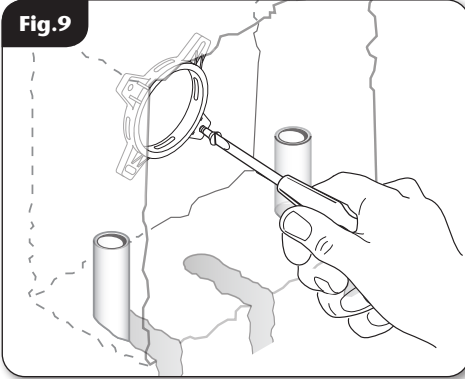


Fig.9



FITTING THE SHOWER

Mark the position of the four locating screws for the mounting plate, although if installing to a solid brick wall, using two diagonal holes will usually be enough.

Drill and plug the holes using the wall plugs provided. The wall plugs provided are suitable for most brick walls — use an appropriate masonry drill, but if the wall is plasterboard or a soft building block, use special wall plugs and a suitable drill bit.

Fit the mounting plate using the screws supplied (**fig.9**).

The inlet elbows allow for either rising, falling or rear entry hot and cold water supplies. The elbows have 'O' ring seals (**fig.7**) to the body and do not require PTFE tape or other means of sealing.

IMPORTANT: Make sure that all supply pipework has been flushed through before fitting the mixer (fig.10).

Connect the hot water supply to the inlet marked HOT, 'H' or red/orange label and connect the cold water supply to the inlet marked COLD, 'C' or blue label (**fig.11**).

Tighten all compression fittings.

Tighten all the grub screws to secure the mixer to mounting plate.

Fig.10

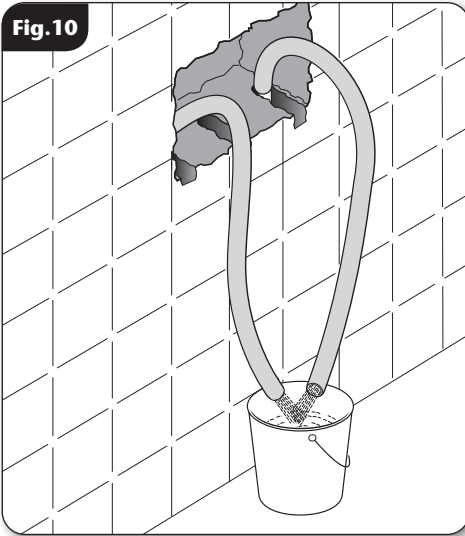
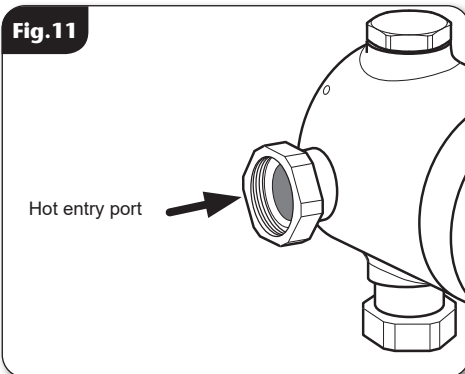


Fig.11



Outlet Adapter and Plug

The outlet adapter and plug can be repositioned dependant on the outlet required - top or bottom. The adapter is suitable for a 15mm rigid pipe connection. The rubber seal **MUST** be fitted between the outlet adaptor and nut connector (**fig.12**). **NOTE: OUTLET ADAPTORS ARE REVERSE THREAD FORMS.**

FITTING THE BULKHEAD OR FIXED HEAD PIPEWORK

Complete the outlet pipework ending in a 15mm x 1/2" BSP female thread elbow (**fig.13**).

Note: This fitting is not supplied as variations in installations require the selection of a suitable solder or compression fitting.

To install the fixed shower head please refer to the fitting instruction supplied with it.

To install the bulkhead screw the supplied male connector into the female fitting (**fig.14**) using PTFE tape to give a watertight joint.

Note: The male-thread connector supplied has a shoulder. If fitting into a flush wall, make an additional 8mm allowance for this shoulder at the finished surface. The connector can be cut to size if required.

The threaded connector should protrude from the finished wall surface between 8mm and 13mm.

LEAK TESTING

Direct the outlet of the mixer to waste. Open the isolating valves to the shower and check for leaks. Remedy any leaks found.

Make good the wall and complete the tiling.

This product is supplied with a tiling shroud to prevent damage to the product.

If the tiles are accurately cut, then the faceplate will seal around the hole in the tiles and the valve unit will be able to be removed from the wall without the need to break any tiles.

Make sure the grout lines around the valve are flush with the tiles in order to provide a smooth sealing surface for the coverplate.

Fig.12

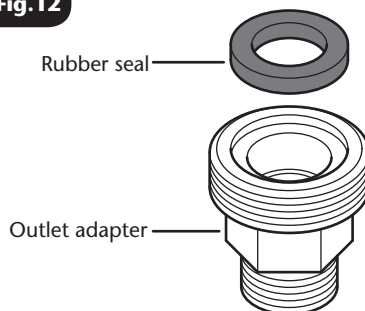


Fig.13

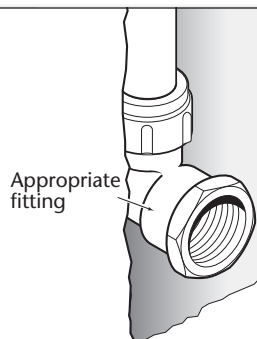
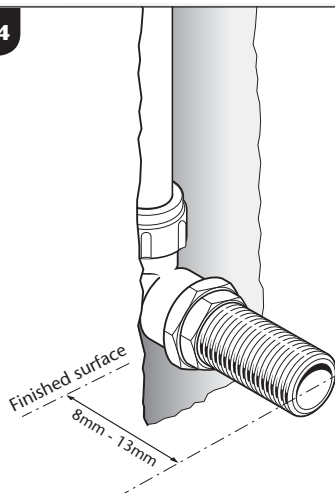


Fig.14



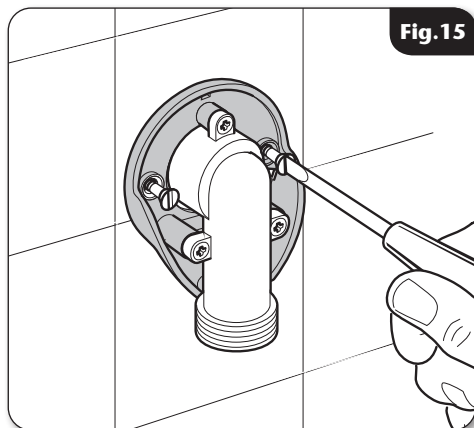


Fig.15

BULKHEAD ASSEMBLY

Screw the bulkhead elbow to the bulkhead body with the three screws supplied.

Screw the completed assembly onto the threaded connector temporarily to mark the position of the two fixing holes for securing the bulkhead to the wall.

NOTE: If screw thread protrudes too far out of the wall, it can be cut to the correct length using a hacksaw.

Unscrew and remove the bulkhead assembly. Check the location of the pipe in the wall before drilling.

Drill and plug the holes using the wall plugs supplied. The wall plugs provided are suitable for most brick walls — use an appropriate masonry drill, but if the wall is plasterboard or soft building block, you must use special wall plugs and a suitable drill bit.

If fitting to a hollow wall structure, it may be preferable to secure the bulkhead by applying a bead of silicon seal to the back of the bulkhead.

Apply PTFE tape to the threaded connector.

Screw the bulkhead assembly onto the threaded connector until tight to the wall and the two fixing holes are aligned. Secure to the wall with the two screws supplied (**fig.15**).

Finish by clipping the cover onto the bulkhead, making sure the protruding legs locate in the bulkhead body.

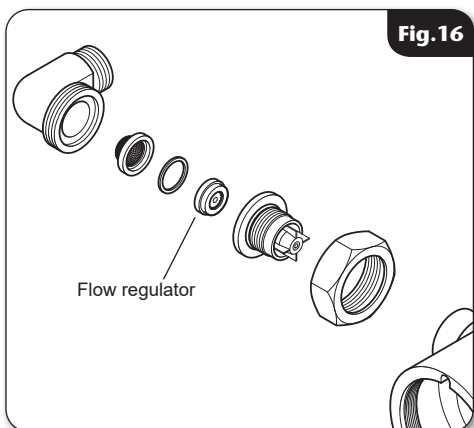


Fig.16

Flow Regulation

Flow regulators are supplied for use with high-pressure water systems and may be fitted with any of the systems listed to reduce flow rate and assist economy.

To fit the flow regulators, unscrew the elbows, place the flow regulator correctly into the inlet connectors, followed by the retaining washers. Reassemble the elbows (**fig.16**).

ANTI-SCALD PROTECTION

It is important that the mixer valve is tested regularly to prevent the risk of scalding and guarantee user safety. This can be carried out as follows: with the mixer blend temperature set at 38°C isolate the cold water supply. The outlet flow rate will reduce to a safe level.

Fitting the Coverplate

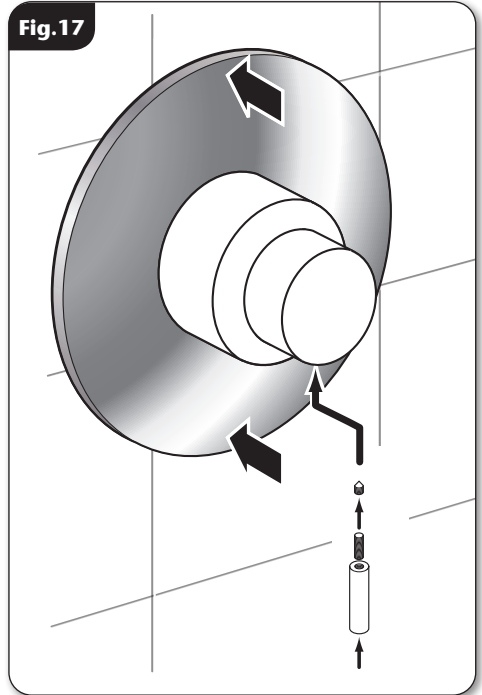
Fit the coverplate over the valve body and slide tight to the wall.

Make sure the seal in the opening stays in place as it slides over the valve body. A smear of liquid soap on the seal will ease this procedure.

The coverplate incorporates a silicon sponge backing that seals against a smooth wall.

Once the coverplate has been fitted, the adjustment lever will need to be fitted into the body of the mixer and tightened (**fig.17**).

Fig.17



COMMISSIONING (TYPE 3)

The following conforms to **Department of Health (doH), Health Technical Memorandum HTM 04-01: Supplement Performance specification D 08: thermostatic mixing valves (healthcare premises)** for when the mixer has been installed in healthcare premises.

Important: Make sure that all supply pipework has been flushed through before commissioning.
The maximum set temperature for showering should not exceed 41°C.

Start the water flow by rotating the flow control.

Make sure that both the hot and cold water supplies are fully open and at (or near to) their design temperature and pressures, and are within the requirements as stated.

Make sure the temperature control is at the maximum temperature setting.

Allow the shower to run at the maximum temperature setting until the water temperature has stabilised. Rotate the temperature control until your desired maximum showering temperature is reached.

The mixer has a temperature stop to prevent accidental rotation to higher temperatures. This is adjustable to provide a maximum temperature of 41°C and should be checked on site to guarantee user safety.

After setting the maximum temperature, turn the shower on and off several times and check the maximum setting is correct. Record the commissioning data on the maintenance record at the rear of this book in order for the in-service performance of the mixer valve to be assessed.

Finally, check the thermal shut off facility of the valve by performing a thermal shut off test. Shut off the cold supply.

The flow from the shower should stop immediately or reduce to a trickle in which case the water temperature should be less than 43°C.

In either case there is no risk of scalding.

If, however, the temperature is above 43°C then it is likely there is contamination in the valve stopping it from shutting off the hot supply. In this case refer to the maintenance section or contact Customer Experience.

In domestic installations where D 08 specification is not required, the maximum temperature setting should not exceed 46°C.

Temperature Adjustment Range

The mixed water temperature can be adjusted from cold through to a top limit (which can be pre-set during installation – factory set at approximately 38°C) with full anti-scald protection throughout the range.

ADJUSTING THE MAXIMUM TEMPERATURE SETTING AND FITTING THE LEVER

The mixer shower is supplied with the flow and temperature knob fitted and the maximum temperature stop factory set to 38°C (this can be adjusted during installation).

The lever is supplied loose in the box.

Using a suitable allen key, loosen the retaining screw and pull off the temperature control knob (**fig.18**).

Using an appropriate sized spanner, slightly loosen the end of the thermostatic cartridge.

Insert an appropriately sized Allen key into the end of the cartridge and turn in the directions shown in **fig.19** to adjust the temperature.

Once the desired temperature is obtained, re-tighten the end of the thermostatic cartridge.

Refit the temperature control housing, making sure the temperature control lever hole is aligned at 6 o'clock.

Secure in place with the retaining grub screw and fit the lever.

When you are satisfied with the temperature turn the flow control off.

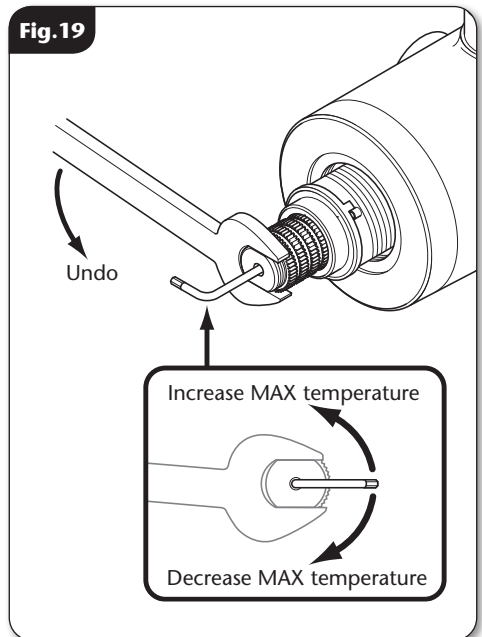
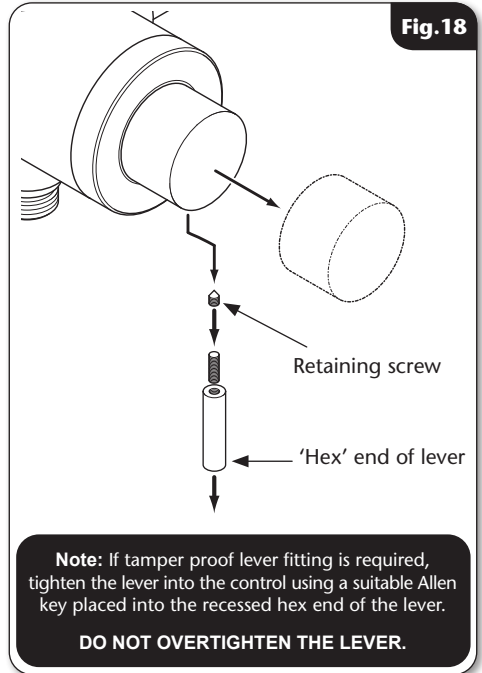
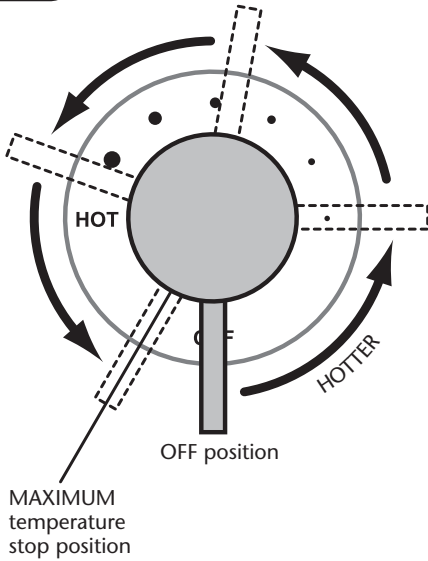


Fig.20



OPERATING THE SHOWER (fig.20)

To start the shower, turn the on/off temperature control anti-clockwise.

To adjust the showering temperature rotate the temperature control clockwise for cooler and anti-clockwise for hotter.

CAUTION: Exposed metal surfaces may become hot during use.

APPROVALS

This mixer valve has been designed to comply with the requirements of: **D 08**
KIWA

MARKING

The unique reference for this product is: **86002260**
This can be found laser marked onto the body of the mixer valve.

PRODUCT FLOW RATES - For guidance only

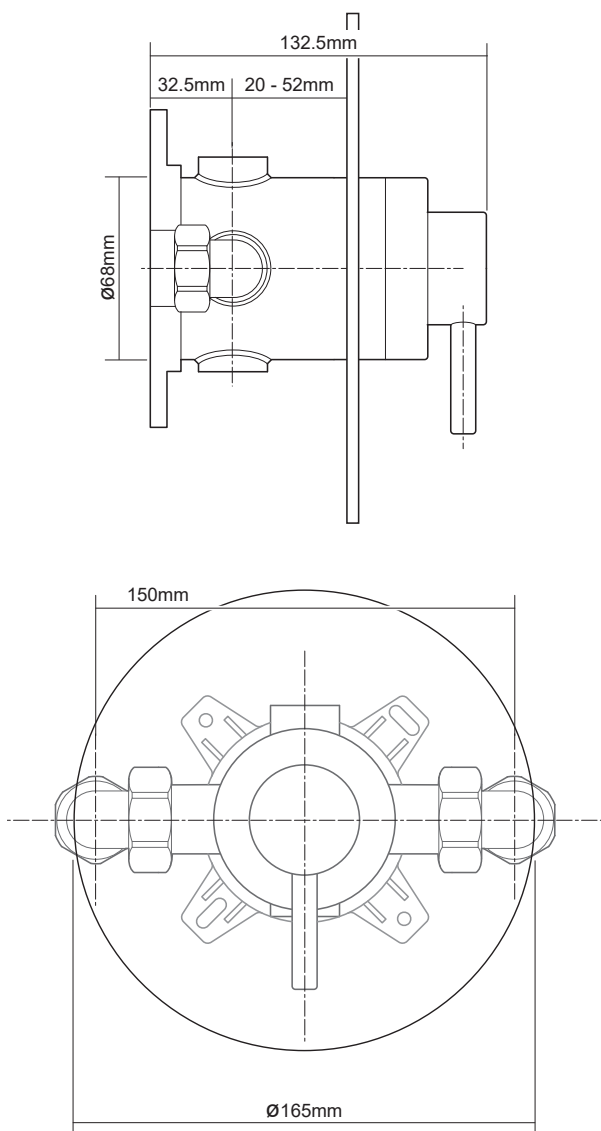
Flow Rate (l/m)	7.0	10.0	12.5	15.0	17.0	25.5	38.0	47.5	51.5	63.0
Pressure (bar)	0.1	0.2	0.3	0.4	0.5	1.0	2.0	3.0	4.0	5.0

Conditions for test

Inlet temperatures comply with EN1111 requirements.
Outlet temperature 38C.
Flow control fully open.
Open outlet - No hose or shower head connected.

Thermostatic mixer valve

DIMENSIONS - All dimensions listed in this fitting book installation are approximate.



IN-SERVICE TESTING

Maintenance of the unit is required to give continued performance after installation and that it continues to provide scald prevention.

NOTE: A thermostatic mixing valve in need of maintenance can be undetectable in normal use and only becomes apparent when a disruption occurs in the hot or cold water supply temperatures or pressures.

Purpose

The purpose of in-service tests is to regularly monitor and record the performance of the thermostatic mixing valve. Deterioration in performance can indicate the need for service work on the valve and/or the water supplies.

Procedure

Using the same measuring equipment or equipment to the same specification as used in the commissioning of the valve, adjust the temperature of the mixed water in accordance with the manufacturer's instructions and the requirement of the application. Carry out the following sequence:

- a) Record the temperature of the hot and cold water supplies.
- b) Record the temperature of the mixed water at the largest draw-off flow rate.
- c) Record the temperature of the mixed water at a smaller draw-off flow rate, which shall be measured.

If the mixed water temperature has changed significantly from the previous test results (e.g. > 1 K 5), record the change and before re-adjusting the mixed water temperature check that:

- a) any in-line or integral strainers are clean,
- b) any in-line or integral check valves or other anti-back siphonage devices are in good working order,
- c) any isolating valves are fully open.

With an acceptable mixed water temperature, complete the following procedure:

- a) Record the temperature of the hot and cold water supplies.

- b) Record the temperature of the mixed water at the largest draw-off flow rate.
- c) Record the temperature of the mixed water at a smaller draw-off flow rate, which shall be measured.
- d) Isolate the cold water supply to the mixing valve and monitor the mixed water temperature.
- e) Record the maximum temperature achieved as a result of (d) and the final stabilised temperature.
- f) Record the equipment, thermometer etc. used for the measurements.

If at step (e) the final mixed water temperature is greater than the values in Table 17 and / or the maximum temperature exceeds the corresponding value from the previous results by more than about 2 K, the need for service work is indicated

NOTE: In-service tests should be carried out with a frequency, which identifies a need for service work before an unsafe water temperature can result. In the absence of any other instruction or guidance, the procedure described in Annex F of D 08 may be used

Annex F of D 08 (informative)

FREQUENCY OF IN-SERVICE TESTS

General

In the absence of any other instruction or guidance on the means of determining the appropriate frequency of in-service testing, the following procedure may be used:

- a) 6 to 8 weeks after commissioning carry out the tests detailed in:

In-Service Tests

- b) 12 to 15 weeks after commissioning carry out the tests detailed in:

In-Service Tests

Depending on the results of the above tests, several possibilities exist:

- a) If no significant changes (e.g. ≤ 1 K) in mixed water temperatures are recorded between commissioning and 6 to 8 week testing, or between commissioning and 12-15 week testing the next in-service test can be deferred to 24 to 28 weeks after commissioning.
- b) If small changes (e.g. 1 to 2 K) in mixed water temperatures are recorded in only one of these periods, necessitating adjustment of the mixed water temperature, then the next in-service test can be deferred to 24 to 28 weeks after commissioning.
- c) If small changes (e.g. 1 to 2 K) in mixed water temperatures are recorded in both of these periods, necessitating adjustment of the mixed water temperature, then the next in-service test should be carried out at 18 to 21 weeks after commissioning.
- d) If significant changes (e.g. > 2 K) in mixed water temperatures are recorded in either of these periods, necessitating service work, then the next in-service test should be carried out at 18 to 21 weeks after commissioning.

The general principle to be observed after the first 2 or 3 in-service tests is that the intervals of future tests should be set to those which previous tests have shown can be achieved with no more than a small change in mixed water temperature.

NOTE: A testing record page has been added to the book for your use.

COMMISSIONING, MAINTENANCE and IN-SERVICE TESTING RECORD

Where installed: _____

Mixer valve location: _____

Date installed: _____ Installed by: _____

Commissioning details:

Hot water - Temp: _____ °C	Pressure: _____ Bar
Cold water - Temp: _____ °C	Pressure: _____ Bar
Maximum temperature setting - Temp: _____ °C	Pressure: _____ Bar

Equipment used:

Inspection and maintenance record:

CLEANING

We recommend that all products are cleaned using warm, soapy water and dried with a suitable cloth to help prevent limescale from forming.

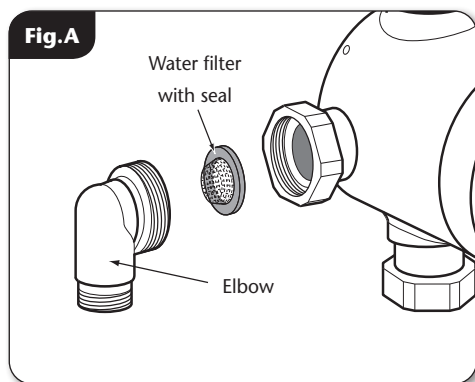
Regularly drying your product after use will help prevent limescale build-up and watermarks.

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

Cleaning the Filters (fig.A)

It is advised that this should be carried out by a qualified person:

- Turn off the water supplies before starting.
- To gain access to the filters remove the unit from the inlet fittings.
- Remove hot and cold elbows.
- Wash the filter thoroughly under running water, use a suitable brush to remove all debris.
- Reassemble the shower.



Disinfection

Where chlorine is used for the disinfection of water systems all relevant guidelines and approved codes of practice must be strictly followed. Failure to comply with the relevant guidelines and approved codes of practice may invalidate your guarantee

FAULT FINDING

The following can be carried out by a competent person

Problem	Cause	Action
1 Water too hot.	1.1 Temperature control incorrectly commissioned.	1.1.1 Refer to the Commissioning section.
	1.2 Not enough cold water flowing through shower.	1.2.1 Reposition the temperature control.
	1.3 Increase in the ambient cold water temperature.	1.3.1 Reposition the temperature control.
	1.4 Cold water supply blocked.	1.4.1 Turn off shower and consult a competent plumber or contact Customer Experience.
	1.5 High volume of cold water drawn off elsewhere.	1.5.1 Reduce the simultaneous demand from the mains supply.
2 Water too cold.	2.1 Temperature control incorrectly commissioned.	2.1.1 Refer to the Commissioning section.
	2.2 Not enough hot water flowing through shower.	2.2.1 Reposition the temperature control.
	2.3 Decrease in the ambient cold water temperature.	2.3.1 Reposition the temperature control.
	2.4 Insufficient hot water supplies from the heating system.	2.4.1 Make sure heating appliance is set to maximum or has sufficient stored hot water. 2.4.2 Make sure heating appliance is igniting by trying a hot water tap elsewhere.
	2.5 Hot water supply blocked or restricted.	2.5.1 Turn off shower and consult a competent plumber or contact Customer Experience.
3 High water flow and/or poor performance on a mains fed system.	3.1 Flow regulators not fitted.	3.1.1 Fit the supplied flow regulators - see Flow Regulation section.

FAULT FINDING

Problem	Cause	Action
4 Water does not flow or shower pattern collapses when another outlet is turned on.	4.1 Water supplies cut off.	4.1.1 Check water elsewhere in house and if necessary contact local water company.
	4.2 Shower unit blocked.	4.2.1 Inspect the filters. Clean if necessary.
	4.3 Blockage in pipework.	4.3.1 Turn off the shower and consult a suitably competent plumber.
	4.4 Shower head blocked.	4.4.1 Clean the shower head.
	4.5 System not capable of supplying multiple outlets at the same time.	4.5.1 Reduce the simultaneous demand. 4.5.2 Make sure stop or service valve is fully open. 4.5.3 Check if there is sufficient water pressure.

The following is recommended for a professional qualified installer only

5 Water too cold.	5.1 Running pressure is excess of maximum recommended.	5.1.1 Fit a pressure reducing valve.
6 Shower controls noisy when in use.	6.1 Running pressure in excess of maximum recommended.	6.1.1 Fit a pressure reducing valve.
7 Shower will not shut off.	7.1. Pipework not flushed out before connecting to the unit. Internal components damaged.	7.1.1 Service valve.

UK SERVICE POLICY

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

DO NOT REMOVE THE PRODUCT

1. Telephone Customer Experience on 024 7637 2222 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 Experience Adviser 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 downloaded free at www.tritonshowers.co.uk.
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. If loft access is required for isolation or to complete a repair, the loft must have a fixed access ladder and be boarded, with appropriate lighting from the access point to and around the repair area.
6. 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.
7. Where a call under the terms of guarantee has been booked and the failure is not product related (i.e. scaling and lurring, 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 the property when the service engineer calls or adequate parking/permit is not available.
8. If the product is no longer covered by the guarantee an up-front fixed fee will be charged before the site visit.
9. Your receipt must be retained as proof of purchase. 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 will request payment prior to departing. If payment is not made on the day an administration charge will be added to the fixed charge.
10. 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.
11. 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.

Replacement Parts Policy

In line with AMDEA guidelines, Triton retains functional spares for as long as there is a market for them and in most cases, well beyond. Due to the vast array of product types, the life cycle of products can vary and therefore so can the length of time parts can be supplied. Spare parts can be ordered via our online spare parts store or by telephoning our Triton Customer Experience team on 024 7637 2222. 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 postal order.

Telephone orders are based on information given during the call. Before contacting Triton, please verify your requirements using the information contained in the user guide. Triton cannot accept liability for incorrect part identification.

TRITON UK STANDARD GUARANTEE

This guarantee applies only to products installed within the United Kingdom and does not apply to products used expressly for commercial gain, unless this use has been specified by Triton. This guarantee does not affect your statutory rights.

With the exception of accessories, Triton guarantee the product against all manufacturing defects for a period of 5 years for use in a domestic environment 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 instructions and has not been subject to misuse or damage or the effects of limescale build up. This product must not be taken apart, modified or repaired except by a person authorised by Triton.

What is not covered:

1. Breakdown due to:
 - a) use other than domestic use by the property occupants;
 - 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 due to an abortive visit or where no fault has been found with the appliance.
7. The cost of repair or replacement of isolating switches, electrical cable, fuses and/or circuit breakers or any other accessories installed at the same time. Replacement of the Pressure Relief Device that only activates when the shower outlet is blocked is also excluded.
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, lurring, frost or exposure to freezing conditions.
9. Call out charges where the water supply cannot be isolated, this includes consequential losses arising from unserviceable supply valves, or inaccessible product or valves located in a loft space without suitable access.

For the latest Terms & Conditions please see:
www.tritonshowers.co.uk/terms

PLEASE NOTE PRODUCT REGISTRATION IS ONLY
AVAILABLE TO UNITS PURCHASED & INSTALLED IN THE UK

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