



GUARANTEE

Glen Dimplex UK Ltd guarantee this Galaxy product for a period of one year, from date of purchase, against mechanical defects arising from faulty materials or from poor workmanship, providing the product has been installed by a competent person in accordance with the fitting instructions.

Glen Dimplex UK Ltd undertake to repair or replace, at their discretion, without charge, provided the product has been properly maintained and operated in accordance with the operating instructions. Any component found to be defective during this period, as the result of misuse or damage, or the effects of scaling, will not be covered by this guarantee.

This product must not be modified, repaired or taken apart except by a person authorised by Glen Dimplex UK Ltd.

This Guarantee is only valid within the United Kingdom and does not cover product used commercially.

This Guarantee does not affect your statutory rights.

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SERVICE POLICY

In the event of you needing to contact the Galaxy Customer Service Department, the following procedure should be followed:-

- 1** Before telephoning the Galaxy Customer Service Department you should ensure that you have the model number, serial number and date of purchase.
- 2** The Galaxy Customer Service Department will be able to inform you whether the fault can be rectified by the provision of a replacement part or an on site visit by a Qualified Service Engineer.
- 3** If a service call is booked, you or a representative must be present during the Engineers visit.
- 4** A charge will be made where a call under the terms of the guarantee has been booked and a failure was not product related, or an engineer arrives and is not able to gain access.
- 5** If the product is no longer covered by the Guarantee, a charge will be made for the site visit and for any parts supplied.

Customer Service Department

Tel: 0845 600 5111
Fax: 01489 773053

9.00 am - 5.00 pm Monday
to Friday

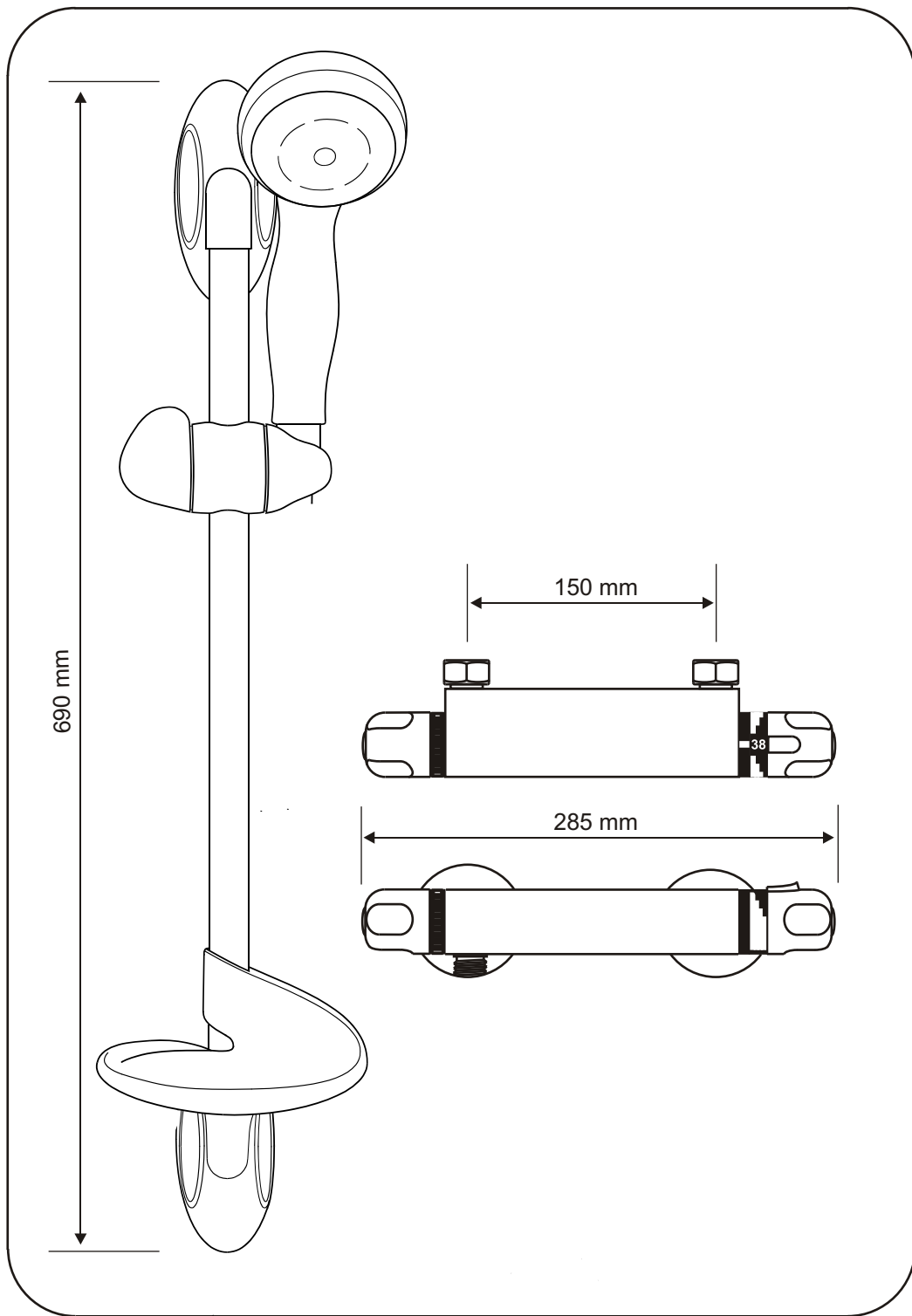


QUASAR

Dual Control Thermostatic Bar Mixer Shower Valve Installation Instructions

IMPORTANT!

This Step-by-Step guide should be given to the customer after installation and demonstration.



SECTION 1 PACKING CONTENTS

Bar Mixer Valve
 2 x Round Chrome Collars
 2 x Offset Inlet Connectors
 Showerhead
 Showerhead Key
 Flexible Hose
 Slider Rail Tube
 Slider Rail Brackets
 Slider Rail Showerhead Holder
 Soap Dish
 Screw Pack

SECTION 2 GENERAL INTRODUCTION

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 provide a long and trouble free life from your shower.

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

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

This mixer is designed for use with traditional low pressure 'gravity' water systems, using a COLD water cistern and HOT water cylinder. It is also suitable for the higher pressure systems found in the UK up to a maximum of 5 bar running Pressure.

IMPORTANT: When installing the mixer with a combination boiler or multi-point, you should ensure that both water supplies are of equal pressure.

The mixer is suitable for fully modulating type combination boilers and multi-point HOT water heaters. It is also suitable for thermal storage, unvented systems and pumped gravity systems.

IMPORTANT: Before installing with a gas instantaneous water heater, make sure it 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 a minimum of 52°C. Water temperature at the inlet to the mixer must remain relatively constant when flow rate adjustments are made (refer to the water heater operating manual to confirm compatibility with this mixer shower).

These mixers are supplied with an integral single check valve and integral filter in each inlet. Inlet connections are to 15mm compression or 1/2" BSP female fittings (not supplied).

SAFETY WARNINGS

- Layout and sizing of pipework must be such that when other services are used, pressures at the shower control inlets do not fall below the recommended Minimum.
- DO NOT choose a position where the shower could become frozen.
- DO NOT connect this mixer shower to any form of tap or fitting not recommended by the manufacturer.
- The sprayhead **MUST** be regularly cleaned to remove scale and debris.
- Conveniently situated service valves in each inlet supply **MUST** be fitted as an

Independent method of isolating the shower should maintenance or servicing be necessary.

- f. 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.
- g. DO NOT operate the shower outside the guidelines as laid out in 'site Requirements'.

The pipework should be installed such that the flow is not significantly affected by other taps and appliances being operated elsewhere on the premises.

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

Water temperature requirements

- Maximum hot water temperature = 80°C.
- Recommended maximum = 65°C.
- Minimum HOT water temperature = 52°C.
- Maximum COLD water temperature = 20°C.

BS 6700 recommends that the temperature of stored water should never exceed 65°C.

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

Temperature adjustment range

The mixed water temperature can be adjusted from cold through to a top limit which can 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.

The shower control MUST be installed with a multipoint gas water heater or combination boiler of a fully modulating design (i.e. to maintain relatively stable HOT water temperatures).

A drop tight pressure reducing valve MUST be fitted if the supply pressures exceed 5 bar running.

An expansion vessel (shown in fig.3) MUST be fitted, and regularly maintained, to make sure the shower mixer is not damaged by excess pressures. This may already be installed within the boiler (check with manufacturer) and is in addition to the normally larger central heating expansion vessel.

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.

SECTION 3 SITE REQUIREMENTS

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

Running water pressure:
0.1 bar to 5.0 bar max.

Maximum static water pressure:
10 bar

DO NOT connect the mixer shower to a gravity HOT supply and a mains COLD supply (or vice versa).

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

While the mixer shower is operational (open outlet), inlet pressures must not be capable of exceeding 7 bar. For effective operation of the internal seals, the maximum static pressure must not be exceeded.

Note: 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.

SECTION 4 TYPICAL SUITABLE INSTALLATIONS

a) Instantaneous Gas-heated Systems, e.g. Combination Boilers (Fig.1)

TYPICAL INSTALLATION FOR A COMBI-BOILER SYSTEM

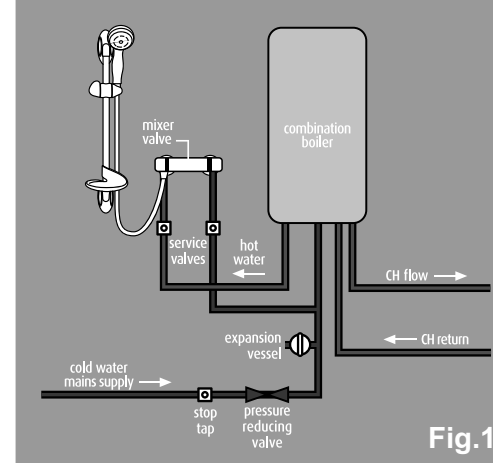


Fig.1

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

b) Unvented Mains Pressure Systems (Fig.2)

The shower control can be installed with an unvented, stored HOT water cylinder.

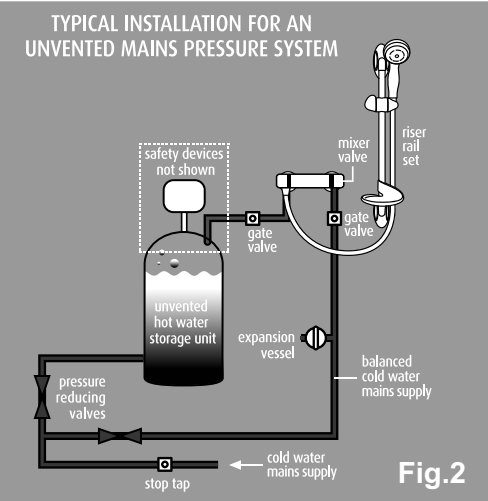


Fig.2

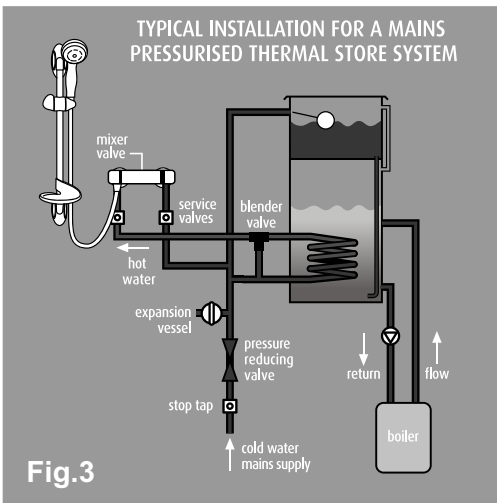
Note: An additional expansion vessel (Fig.4) may be required if a second pressure reducing valve is installed. This does not apply to packages with a COLD take off after the pressure reducing valve to the cylinder.

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.

C) Mains Pressurised Thermal Store Systems (Fig.3)

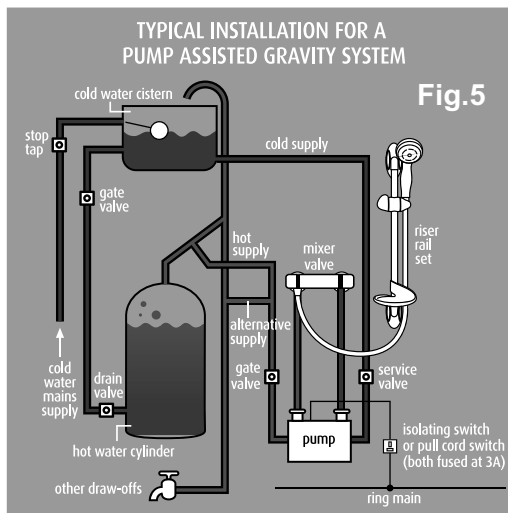
Packages of this type, fitted with a tempering valve (blender valve) can be used. A drop tight pressure reducing valve MUST be fitted if the supply pressures exceed 5 bar running.

An expansion vessel (shown in fig.5) MUST be fitted, and regularly maintained, to make sure the unit is not damaged by



e) Pump assisted gravity fed systems (Fig. 5)

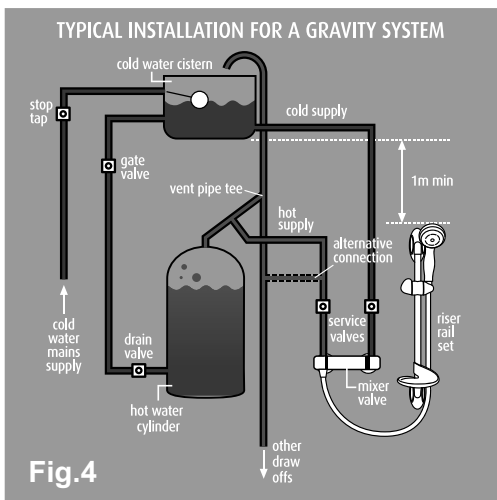
The pump MUST be fed from a COLD water cistern and hot water cylinder providing nominally equal pressures. The pump must be capable of maintaining a minimum running pressure of 1 bar.



excess pressures. This may already be installed externally or internally within the thermal store (Check with thermal store manufacturer).

d) Gravity Fed Systems (Fig.4)

The shower control MUST be fed from a COLD water cistern and hot water cylinder providing nominally equal pressures. There must be a minimum head of water Of 1 metre. The minimum head distance is measured from the base of the COLD water cistern to top of the shower head.



**SECTION 5
PREPARING THE MIXER VALVE**

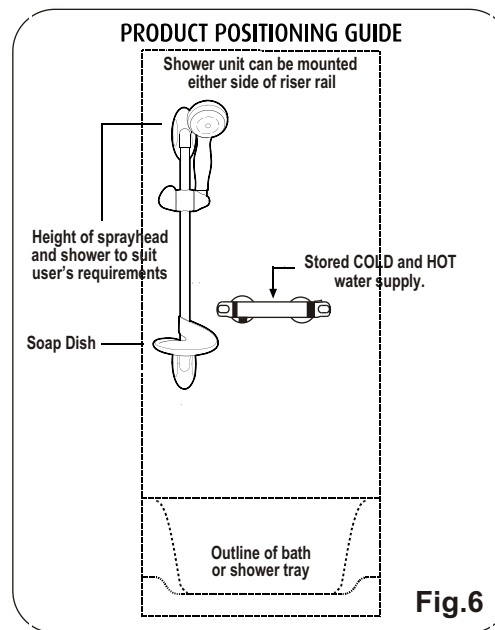
Check the contents to make sure all parts are present.

WARNING!
The shower must not be positioned where it will be subject to freezing conditions.

Before installing, make sure all the openings on the valve are carefully covered to stop the ingress of any debris,

etc. While routing the supply pipework.

The shower valve is suitable for installation on a solid wall, a stud partition wall, dry lined wall or fixing to a laminate cubicle or Panel.



The HOT and COLD water pipes should be securely attached within the wall or panel to support the valve and prevent movement after installation.

The HOT water inlet has a red symbol next to the inlet and must be on the left-hand side.

**SECTION 6
SITING OF THE SHOWER**

Refer to fig.6 for correct siting of the shower.

Position the shower and sprayhead on the

wall so that all controls can be comfortably reached while using the shower. The sprayhead can be positioned either side of the shower.

The unit must be positioned horizontally with the outlet port at the bottom.

**SECTION 7
INSTALLATION**

Note: The outlet of the shower must not Be connected to anything other than the sprayhead supplied.

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

DO NOT solder fittings near the mixer unit as heat can transfer along the pipework and damage the seals and thermostatic components.

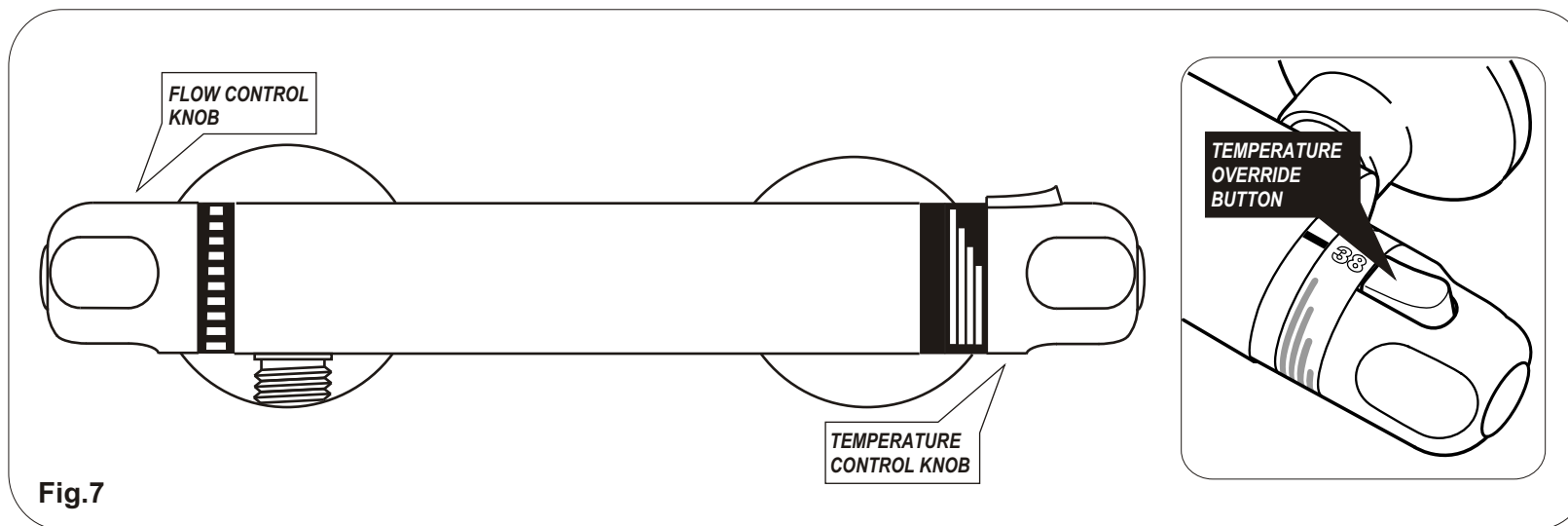
Note: Suitable service valves (complying with Water Regulations and Byelaws) MUST be fitted on the HOT and COLD water supplies to the shower as an independent means of isolating the water supplies should maintenance or servicing be necessary.

When connecting the pipework, avoid using tight 90° elbows. Swept or formed bends will give the best performance.

Offset fittings

The supply pipes can be routed either From the side, rising, rear or falling and must end in suitable 1/2" BSP female fittings to accept the offset connectors.

The inlet centres on the shower valve are 150mm but with the offset fittings an additional 20mm adjustment is provided.



The HOT and COLD supply pipes Must be anchored rigidly in order to support the valve and prevent movement after installation.

At the front end, allowance must be made to accept the shower union and collar.

Flush out the pipework in accordance with Water Regulations and Byelaws.

Connect 15mm pipes using standard compression nuts and olives.

Screw the supplied collars onto the fittings until tight to the wall..

Offer the shower valve to the fittings and, making sure the sealing washers are in place, screw the unions onto the fittings.

Leaks in the valve connections. Remedy any leaks if necessary.

**SECTION 9
COMMISSIONING**

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.

Check the temperature knob (right-hand side) is rotated fully anti-clockwise (press the override button to achieve maximum temperature setting).

Make sure the sprayhead is directed to Waste.

Start the water flow by turning the flow control (left-hand side) anti-clockwise.

Allow the shower to run at the maximum temperature setting until the water temperature has stabilised. Rotate the

temperature control knob until your desired maximum showering temperature is reached.

The mixer valve is fitted with a maximum temperature override button factory set at 38°C.

The mixer valve is factory set to give a maximum outlet temperature of 38°C. This should be checked on site to make sure the setting has not been altered and also to ensure user safety.

**SECTION 10
OPERATING THE SHOWER**

The controls for the mixer shower are shown in Fig.7.

To start the shower, rotate the On/Off flow control (left-hand side) fully anti-clockwise for maximum flow.

To stop the water flow, rotate the On/Off flow control fully clockwise.

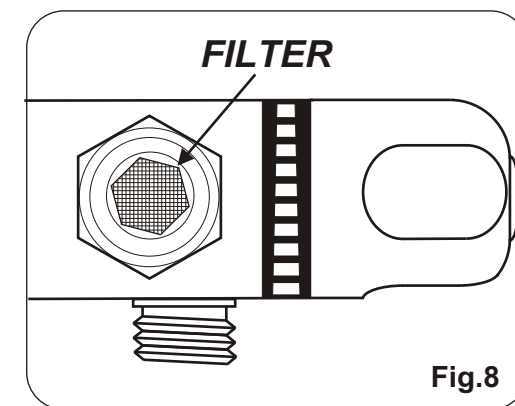
To adjust the water temperature, rotate the temperature control (right-hand side) clockwise for a cooler shower or anti-clockwise for a hotter shower.

To overcome the maximum temperature stop, depress the red temperature override button.

**SECTION 11
CLEANING**

DO NOT use abrasive or solvent cleaning fluids. The shower unit should be cleaned using a soft cloth and warm water.

**SECTION 12
CLEANING THE FILTERS**



**SECTION 8
LEAK TESTING**

Fit the hose to the outlet and direct it to waste. Open the supplies and test for

Turn off the water supplies before starting.

To access the filters will require the removal of the unit from the inlet fittings.

Remove the sealing washers from the union inlets. Unscrew the filter cap on Each inlet (fig.8) and remove the filter.

Wash the filter thoroughly under running water to remove all debris.

Replace the filter and secure in place with the filter cap. Refit the sealing washers back into each inlet union.

Reassemble the shower to the inlet fittings.

SECTION 13

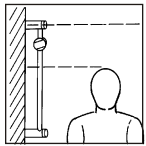
RISER RAIL & SOAP DISH FITTING INSTRUCTIONS

TIPS

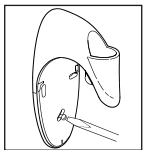
A piece of insulating or masking tape applied to the wall before marking out the fixing holes will help stop the drill from wandering, particularly on tiled surfaces. When working near a basin or bath, insert the plug in the waste fitting so that small parts cannot be lost. Take care not to drop accessories or tools into basin or bath.

CAUTION

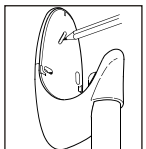
Check there are no hidden cables or pipes before drilling holes for wall plugs. Exercise great care when using power tools near water. The use of a residual current device (RCD) is recommended.



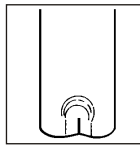
1. Establish position for the riser rail, and mark the wall for the lower mounting bracket. Make allowances for the tallest person likely to use the shower regularly.



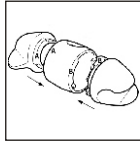
2. Use a No 10/5.5mm masonry drill to make a hole 35mm deep, and fit the wall plug. (NB some wall constructions may require the use of alternative types of wall fixings). Screw the lower bracket base to the wall.



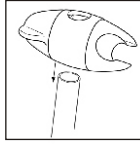
3. Locate the crimped end of the riser rail (Figure 4) into the mounting bracket, then fit the upper bracket. Ensure the rail is vertical, then mark the wall for the fixing.



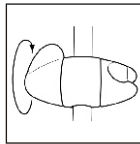
4. The crimped end of the riser rail. *NOTE If it is necessary to shorten the rail, use a junior hacksaw to cut the excess material from the plain end of the rail.*



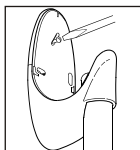
5. The three components that comprise the Handset Height Adjuster assembly are produced with alphabetical 'A's and 'B's moulded into the end section of each part. Simply just match the letter identification of each part with the central piece i.e. 'A' to 'A' and 'B' to 'B' for correct assembly.



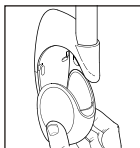
6. With the showerhead height adjuster lever set a 3 o'clock and the showerhead holder in the upright position, slide the assembly onto the rail. Tighten to the rail by turning the lever.



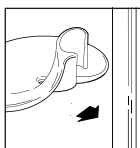
7. To lock the Handset Height Adjuster at your chosen position on the rail. Turn the lever up right. This action is also used for holding the showerhead at the angle required.



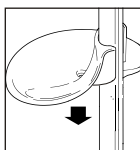
8. Re-assemble the rail and screw the upper mounting bracket in place.



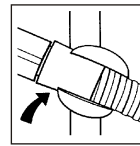
9. Slide the end cap onto the mounting brackets.



10. Snap the soap dish onto the rail below the holder assembly.



11. Slide soap dish down the rail to required position.



12. Firmly attach flexible hose to the showerhead making sure sealing washer is in place. *NOTE the adjustable slider grips the conical end of the hose, not the handle of the showerhead.*

Maintenance:

Clean regularly with a non-abrasive liquid bathroom cleaner.

SECTION 14

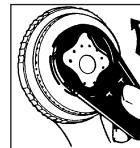
SHOWERHEAD CLEANING INSTRUCTIONS

IN SHOWER MAINTENANCE

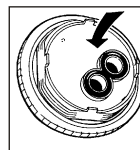


To break away scale deposits on a daily basis simply rub your thumb over the rubber nipples whilst the shower is running.

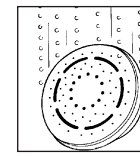
The showerhead should be cleaned periodically to remove limescale or debris which will reduce the performance of the shower. The frequency of cleaning will vary according to local water quality. In hard water areas cleaning will be needed more often than in soft water areas. A liquid non-abrasive bathroom cleaner may be used on external surfaces of the handset.



1. Engage the key into the spray cartridge recesses and turn anti-clockwise to unscrew.



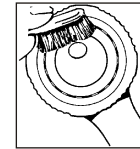
2. Remove the two small black 'O' rings from the rear of the spray cartridge, and rinse 'O' rings clean.



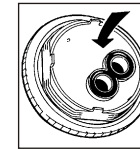
3. If deposits are stubborn, immerse and soak the spray cartridge for several hours in a proprietary limescale remover. Then with a small stiff bristled brush scrub the spray cartridge.



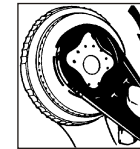
4. Ensure all traces of limescale and limescale remover are rinsed off.



5. Thoroughly clean and rinse the inside of the showerhead.



6. Replace the two black 'O' rings on the rear of the spray cartridge. A light smear of petroleum jelly will ensure an easy location into the grooves.



7. Refit cartridge to the showerhead and tighten with the spray key.