

# DESIGNA

## GUARANTEE

Designa guarantee this DS3000 product for a period of two years, from date of purchase, against mechanical and electrical 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.

Designa 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 Designa Customer Service.

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

This Guarantee does not affect your statutory rights.

## SERVICE POLICY

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

- 1** Before telephoning the Designa Customer Service Department you should ensure that you have the model number, power rating, serial number and date of purchase.
- 2** The Designa 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.

**TECHNICAL HOTLINE** 9.00am - 5.00pm Monday to Friday

Telephone: **0844 372 7766** Fax: **0844 372 7767**

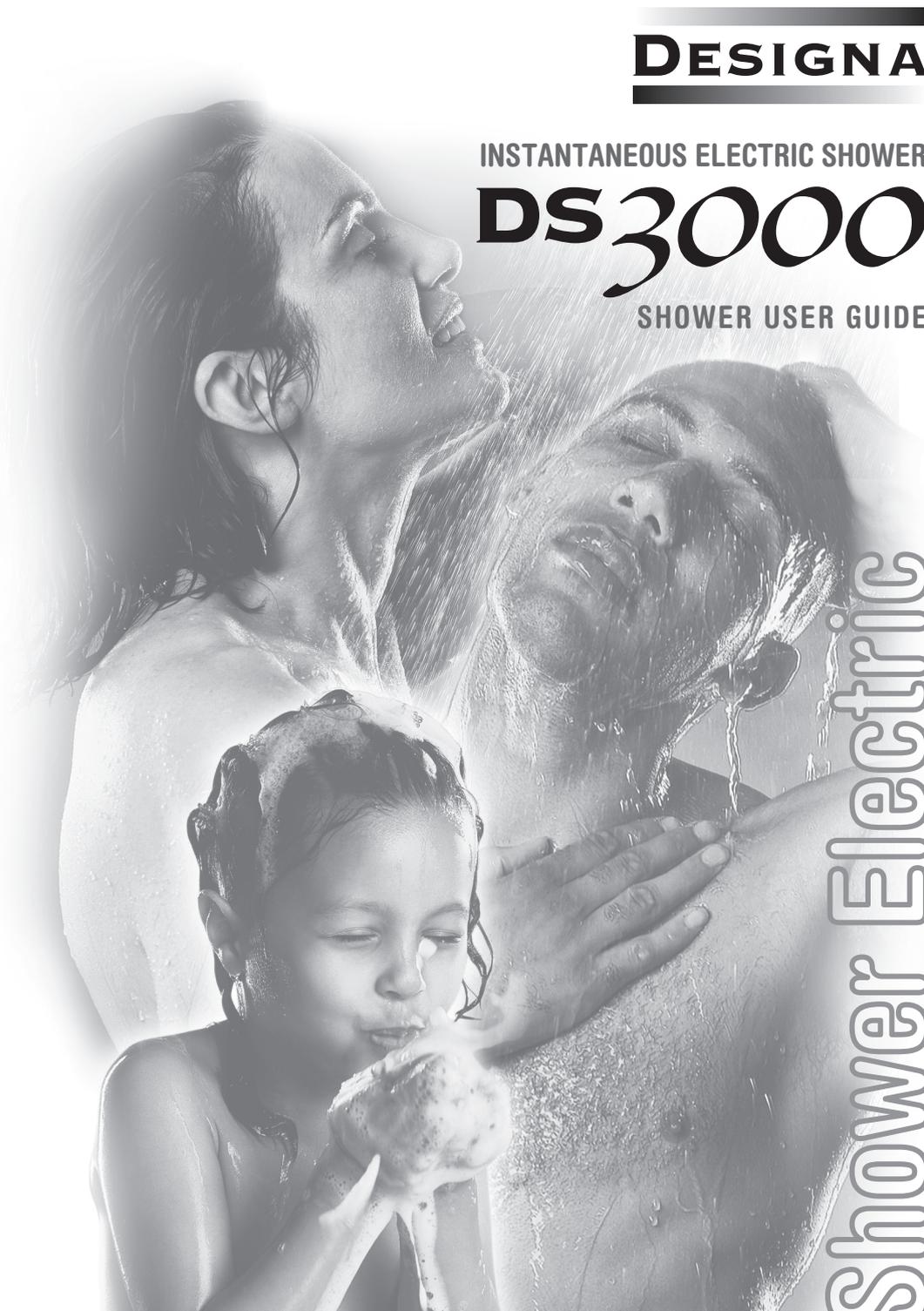
email: **technical-services@applied-energy.com**

# DESIGNA

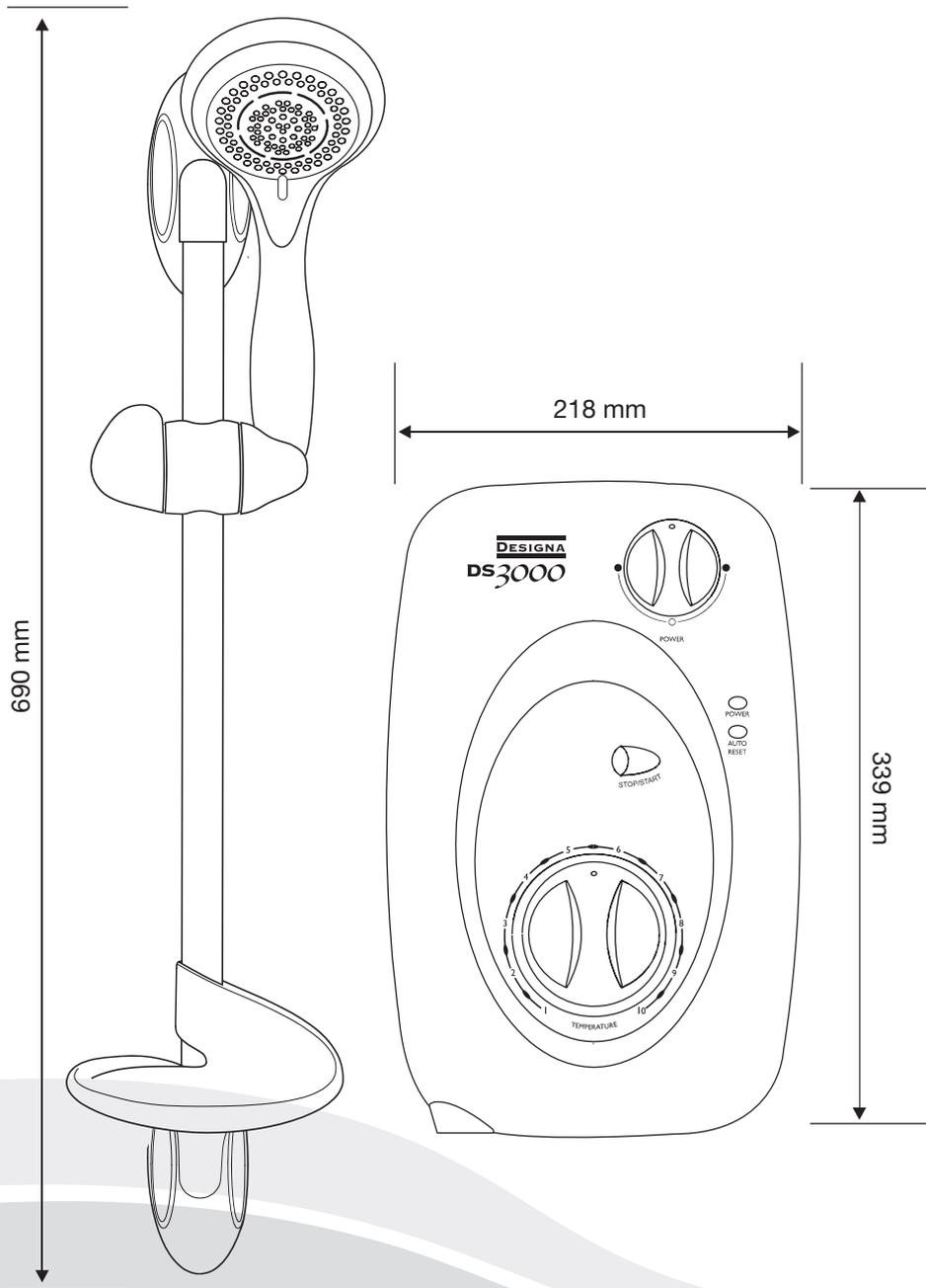
INSTANTANEOUS ELECTRIC SHOWER

# DS3000

SHOWER USER GUIDE



Shower Electric



SYMPTOM	POSSIBLE CAUSE	ACTION
No hot water.	Power setting is at Cold. Low Water Pressure.  The thermal cut-out has operated.	Select a heat setting. The water supply has dropped below the minimum operating pressure. Switch off other cold water devices and retry.  Turn the Power knob to cold. Switch off the shower. Clean the shower head, and restart the shower. Select a heat setting. If no hot water is produced call the Designa Service Centre.
Power indicator is not lit.	The power setting is on cold.  Water pressure below minimum required.	Turn the power setting to a heat setting and the indicator should light.  Check If water mains stop valve is fully open.
Water too hot.	Not enough water flowing through the shower.  Blockage in supply.  Increase in ambient water temperature.	Increase the flow rate via temperature control.  Blocked spray head - clean or replace blocked spray plate in spray head. Check If stop valves are fully open. Check for blockage in inlet filter. Re-adjust flow rate to give increased flow. Select 'Low' power.
Water too cool or cold.	Water flow too high. Water pressure below minimum required (See rating label). Reduction in ambient water temperature.	Reduce flow rate via temperature control.  Select 'High' power.
Water flow is poor.	Shower head is blocked.  The temperature control knob is set at its hottest setting.	Clean the showerhead. Ensure showerhead is as specified by manufacturer.  Increase the power setting by turning the power knob to hot and increase the flow using the temperature control knob.
Water continues to drip from the handset when switched off.	Water is draining from the shower unit, after use.	This is normal, no action required. Should water continue to drip after a few minutes contact 'Designa Service Centre.
Pressure relief device has operated (water ejecting from Pressure Relief tube).	Blocked spray head.  Twisted/blocked flexible shower hose.	Remove handset and run water through the shower and hose to remove any dirt that may be trapped In the system. Clean or, if possible, replace the spray plate in the spray head and then fit a new Pressure Relief Device.  Check the hose is not restricted anywhere along its length. Replace the hose if necessary and fit a new Pressure Relief Device.

**SECTION 11**

## Operating features

**Power Neon Indicator**

The 'Power' neon indicator will be illuminated when the shower unit is switched on and water is flowing on the heat settings. The light will not come on when the shower unit is on the cold setting.

**Auto Reset Neon Indicator**

The Auto Reset Neon Indicator will be illuminated during normal operation if an overheat temperature is sensed, power to the element will be cut off, water will continue to flow until the unit has cooled sufficiently. Power to the elements will be automatically restored.

If the Auto Reset Neon Indicator persistently functions, ensure that the shower head is free from scale and debris which will increase the flow of water through the unit.

**SECTION 12**

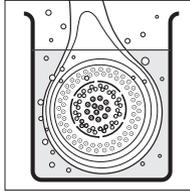
## Shower head cleaning instructions

**IN SHOWER MAINTENANCE**

The shower head 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.

**Daily Cleaning**

To break away scale on a daily bases, rub your thumb over the surface whilst the shower is running.

**Periodical Maintenance**

If scale deposits are stubborn, soak the shower head in proprietary limescale remover and rinse thoroughly before use.

**Important**

**This shower is designed and approved to EN-60335 with the handset provided.**

**Under NO circumstances must any handset that is not approved by the manufacturer be used with this product.**

**SECTION 1**

## Packing contents

- Shower Unit
- Shower Head
- Shower Head Key
- Flexible Hose
- Slider Rail Tube
- Slider Rail Brackets
- Slider Rail Showerhead Holder
- Soap Dish
- Screw Pack

**IMPORTANT:**

1. Shower installation must be carried out by a suitably qualified person and conform with IEE Regulations and National Water Council bylaws.
2. This shower unit is designed to be connected to a 15mm cold water mains supply. **Do not connect to a tank supply unless a suitable booster pump is fitted.**
3. To make sure of activating the heating elements, the shower must be connected to a mains water supply with a minimum running pressure of 100kPa (15 lb/sq in) - (1 Bar) at a minimum flow rate of 8 litres per minute. The maximum static pressure must be no greater than 1000kPa (150 lb/sq in) - (10 Bar). *(Minimum running pressure must be obtained at 9 litres/minute for 9.5kW and 11 litres/minute for the 10.5kW).*
4. The shower unit must not be fitted where it may be exposed to frost, for example in an outdoor shower area. **The shower must not be used if suspected of being frozen.** Frost damage is not covered by the guarantee.
5. **Plumbers jointing compound must not be used.** In instances of difficult joints

use P.T.F.E. Tape. The use of compound invalidates the guarantee.

6. All plumbing connections must be completed before making the electrical connections.
7. The outlet of your shower acts as a vent and must **NOT** be connected to any form of tap or fitting not recommended by Designa.
8. Always switch off at the isolating switch when not in use.

**SECTION 2**

## General advice to shower unit users

The following points will help you to understand how your Designa shower unit operates.

The flow rate of water passing through the shower unit determines the water temperature. The lower the flow the warmer the water, the higher the flow the cooler the water.

The temperature produced by the shower unit will vary between seasons on any one setting of the temperature control. This is due to variance in the temperature of the water supply, which becomes cooler in winter than summer.

The stabiliser valve maintains an almost constant shower temperature during mains water pressure changes.

If changes in temperature are experienced in normal use, it is likely to be caused by water pressure falling below the minimum level. Falls in water pressure may be due to water being drawn off at other points within the building.

The shower head must be cleaned regularly to remove scale and debris. If the water becomes hot and you are unable to obtain cooler water, check the shower head for blockage.

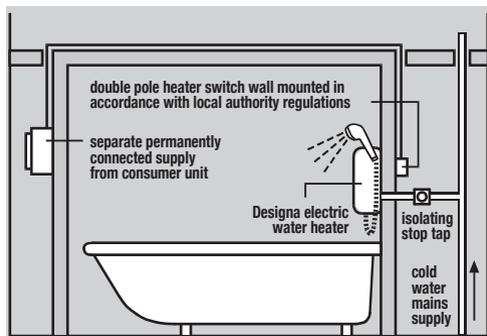
**This appliance is not intended for use by persons (Including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.**

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

**SECTION 3**

General layout of a shower installation

**A TYPICAL INSTANTANEOUS ELECTRIC SHOWER INSTALLATION**



Plan your own installation carefully. Check on the nearest and most readily accessible rising mains water supply, this may be beneath the bath or in the loft, where it feeds the cold water storage tank. Use only the cold rising water main supply.

**Do not connect the shower unit to the down service from the tank.**

Avoid connecting the shower unit, if possible, where it will be affected by water drawn off by other appliances, e.g. From the mains feed to the W.C., This may cause a drop in pressure too low for the shower unit to work correctly.

An isolating valve must be fitted into the water supply for servicing purposes.

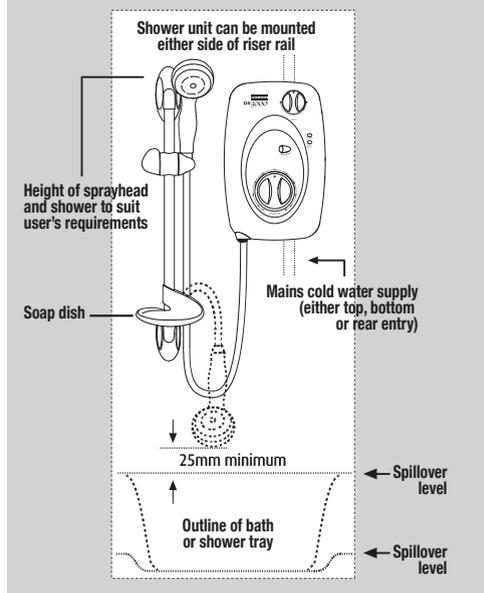
**SECTION 4**

Installation

Position your shower unit on the wall away from the direct spray of the shower and at about the same height as the shower head position.

The shower unit should be positioned so that the shower head cannot be immersed in the bath or shower tray when hanging down.

**PRODUCT POSITIONING GUIDE**



Remove the two screws securing the shower unit cover and remove the cover complete with the control knobs.

Place the shower unit on the wall and mark the location of the fixing screws through the back plate.

Carefully drill the holes as marked using a sharp 5.5mm masonry drill.

Fix the shower unit to the wall using the plugs and screws provided, do not fully tighten at this stage.

4. Wait a few seconds for the warmer water to reach the handset.
5. If necessary turn bottom 'Temperature' control knob slowly to obtain desired showering temperature. Again, waiting a few seconds after each adjustment in temperature to reach the handset.

**Note:**

**To adjust the shower temperature.**

The water temperature is altered by increasing or decreasing the flow rate of water through the shower unit via the temperature control.

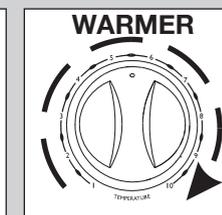
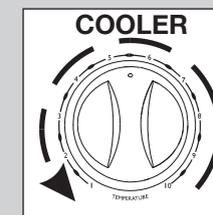
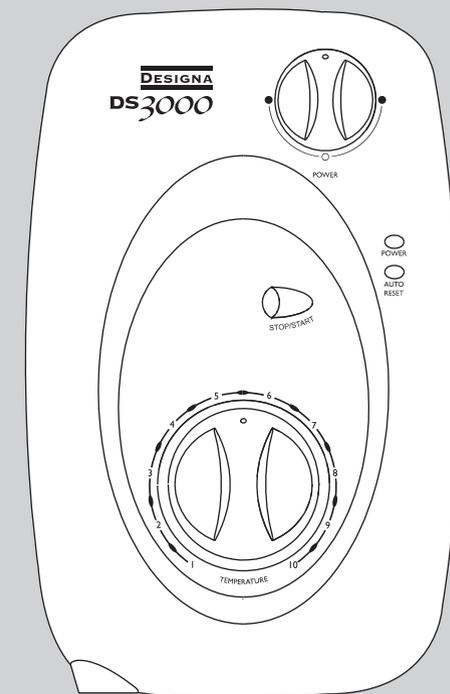
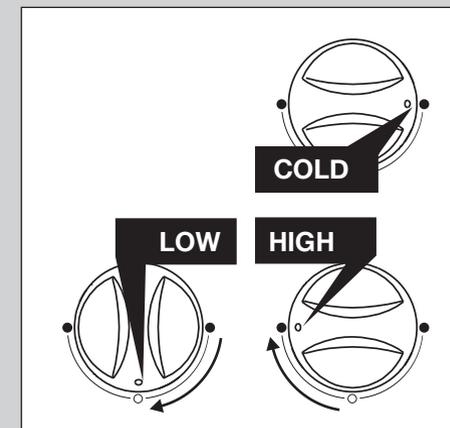
**To increase the shower temperature**

Turn the temperature control knob clockwise, this will decrease the flow of water and increase the shower temperature.

**To decrease the shower temperature**

Turn the temperature control knob anti-clockwise, this will increase the flow of water and decrease the shower temperature.

6. To turn off the shower unit press the **STOP/START** button.
7. A small amount of water will be retained in the shower head after the shower has been turned off. This may drain over a few minutes.
8. Switch off pull-cord or wall mounted switch.



**SECTION 9**

**Commissioning the shower**

1. Make sure that the electrical supply has been isolated at the double pole isolating switch.
2. Turn the top power selector knob to the 'Cold' setting (Solid Blue Symbol).
3. Turn the bottom temperature control knob anti-clockwise to the full cold position.
4. Ensuring the water supply is fully on at the mains stop cock and isolating service valve (if fitted), check that water is not leaking from the bottom of the case.
5. Switch on the electrical supply at the double pole switch. The 'Power' neon indicator will light.
6. Press the **STOP/START** button. Check that water flows freely from the shower within a few seconds. The water from the showerhead will be at full force and at a cool temperature.
7. Rotate the bottom temperature control knob slowly clockwise fully. This will gradually reduce the flow with the water temperature remaining cool.
8. Return the knob anti-clockwise to maximum flow.
9. Now turn the top power selector knob to the 'Low' setting (Outline Red Symbol). Allow a few seconds for the warmer temperature to reach the showerhead - this shows that the 'Low' power setting is operating correctly.
10. Now turn the top power selector knob to the 'High' setting (Solid Red Symbol). The temperature at the showerhead will rise further - this shows that the full power setting is operating correctly.

11. Turn the bottom temperature control knob clockwise for hotter water and anti-clockwise for cooler water. Allow a few seconds between selections - for the temperature change to reach the showerhead.

**NOTE: When the temperature is changed the flow rate alters.**

12. Push the **STOP/START** button to stop the flow.
13. Switch of pull-cord or wall mounted switch.

**SECTION 10**

**Operating the shower**

1. Switch on pull-cord or wall mounted switch. The 'Power' neon will illuminate indicating the switch is on.
2. Press the **STOP/START** button for immediate water flow.
3. Select your power setting using the top control. The shower has three positions 'Cold', 'Low' power and 'High' power.

**'Cold'** setting (Solid Blue Symbol):  
Adjustment of the flow control on this setting will only alter the flow of water not the water temperature.

**'Low'** setting (Outline Red Symbol):  
This is the low power setting for economy during warmer months or when a cool shower is required. Temperature adjustment is via the bottom temperature control.

**'High'** setting (Solid Red Symbol):  
This is the full power setting. Temperature adjustment is via the bottom temperature control.

**IMPORTANT**

To comply with National Water Council bylaws a double check valve must be fitted with all flexible shower accessories where it is possible that the shower head may come into contact with used water i.e. in the bath or shower tray.

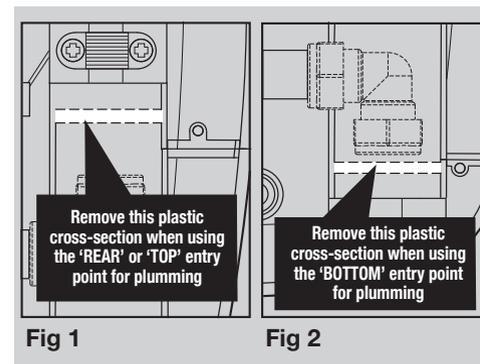
**SECTION 5**

**Plumbing connection**

**Plumbing the shower unit must precede wiring.**

Turn off the water supply at the isolating stop tap.

Having determined the direction of the inlet water supply: **Top** (falling), **Bottom** (rising), or **Back** inlet. It is necessary to remove the appropriate plastic cross section from the back plate, before commencing with the installation (See diagrams **Fig 1 & Fig 2**).

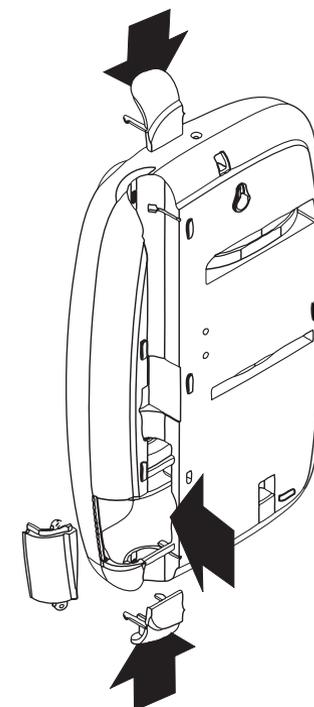


The back plate is fitted with removable inserts for **Top** (falling) and **Bottom** (rising) inlet mains water pipework to the shower unit.

We have incorporated into the bottom right-hand side of the back plate an easy removable trim section, to allow easy access when connecting the water supply.

**(Please Note!** Remember to replace this trim section before refitting the cover).

Connect the mains water supply to the inlet of the shower unit using a 15mm copper or stainless pipe with a 15mm compression elbow or 15mm push-fit elbow. **Do not use excessive force when making the connection to the unit.**



**IMPORTANT**

Before turning on the water supply to the shower unit the water supply pipe should be flushed out to remove debris. This can be achieved by connecting the flexible hose to the 15mm compression elbow and turning on the mains water supply long enough to clear the debris.

After flushing the pipework ensure that the shower unit is positioned squarely on the wall and tighten the screws. Tighten all plumbing connections and check the pipework for leaks.

**SECTION 6****Electrical connection****Warning! This appliance must be earthed****ELECTRICAL SPECIFICATIONS**

NOMINAL POWER RATING AT 240V	NOMINAL POWER RATING AT 230V
7.5kW - (32A MCB rating)	6.9kW - (32A MCB rating)
8.5kW - (40A MCB rating)	6.9kW - (32A MCB rating)
9.5kW - (40A MCB rating)	8.7kW - (40A MCB rating)
10.5kW - (45A MCB rating)	9.6kW - (45A MCB rating)

The shower unit must be permanently connected to the electricity supply, direct from the consumer unit via a double pole linked switch with a minimum contact gap of 3mm. The switch must be readily accessible and clearly identifiable and out of reach of a person using a fixed bath or shower tray, unless the switch is cord operated. The wiring must be connected to the switch without the use of a plug or socket outlet.

The cable size required is determined by the kW rating of the shower and the distance between the shower and the consumer unit. The table below will help you choose the correct cable for your installation, but it will depend upon the precise circumstances of the installation. If you are in any doubt consult an electrician.

KW RATING	NOMINAL AT 240v	MIN. RATING OF ISOLATING SWITCH	FUSE RATING	MAX CABLE RUN	
				6mm	10m
7.0	29.10 amps	30 amps	30 amps	29m	48m
7.5	31.25 amps	40 amps	40 amps	27m	44m
8.0	33.33 amps	40 amps	40 amps	25m	42m
8.5	35.41amps	40 amps	40 amps	23m	38m
9.5	39.58 amps	40 amps	40 amps	21m	32m
10.5	43.75 amps	45 amps	45 amps	18m	30m

The incoming cable should be hidden.

Connect the live cable to the terminal marked **L**.

Connect the neutral cable to the terminal marked **N**.

Connect the earth cable to the terminal marked **E** on the back plate.

**IMPORTANT**

Ensure that the terminal block screws are fully tightened and that no cable insulation is trapped under screws.

Ensure the cable clamp is used to secure the cable.

The earth continuity conductor of the electrical installation must be effectively connected to all exposed metal parts of other appliances and services in the room in which the shower unit is installed to confirm with IEE regulations.

**SECTION 7****Fitting the cover into position**

**NOTE:** It is necessary to align the 'D' flat on the reverse side of the Power Selector and Temperature knobs with their opposite control spindles before the cover is located.

Secure the cover with the two fixing screws provided.

**IMPORTANT: Turn the flow control knob anti clockwise until the valve is fully open before switching on the unit. This will ensure a fast fill up of the unit when the shower is first switched on.**

Switch on the power to the shower unit at the consumer unit and the double pole switch. At this stage the power selector knob should be on the **COLD** position (*Solid Blue Symbol*).

Remove the shower head from the flexible hose and point to waste.

Turn the top power selector knob to the **COLD** (*Solid Blue Symbol*) setting.

Start the shower unit by pressing the **STOP/START** button. Let the water flow through the shower unit to release any air which may be in the system and fill the shower unit with water.

**IMPORTANT: The shower unit must be full of water before heat settings are used.**

Switch the shower unit OFF by pressing the **STOP/START** button.

Re-fit the shower head to the flexible hose.

Your shower is now ready to use. We recommend that you allow your shower to reach a stable temperature before you commence showering.

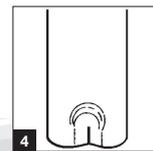
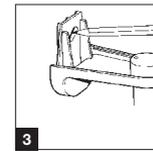
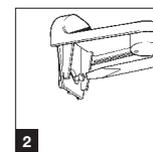
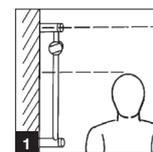
**SECTION 8****Riser rail & soap dish fitting instructions****TIPS**

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.

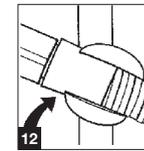
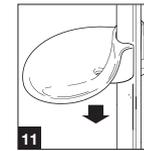
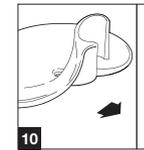
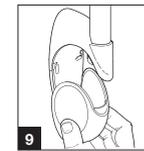
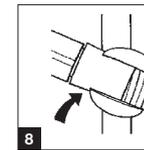
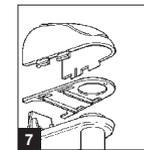
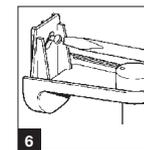
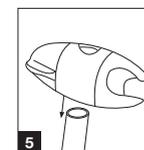
Take care not to drop accessories or tools into basin or bath.

**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.



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

- 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.
- With the shower head height adjuster lever set a 3 o'clock and the shower head holder in the upright position, slide the assembly onto the rail. Tighten to the rail by turning the lever.
- 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 shower head at the angle required.
- Re-assemble the rail and screw the upper mounting bracket in place.
- Slide the end cap onto the mounting brackets.
- Snap the soap dish onto the rail below the holder assembly.
- Slide soap dish down the rail to required position.
- Firmly attach flexible hose to the shower head making sure sealing washer is in place. **NOTE:** the adjustable slider grips the conical end of the hose, not the handle of the shower head.

**Maintenance:** Clean regularly with a non-abrasive liquid bathroom cleaner.