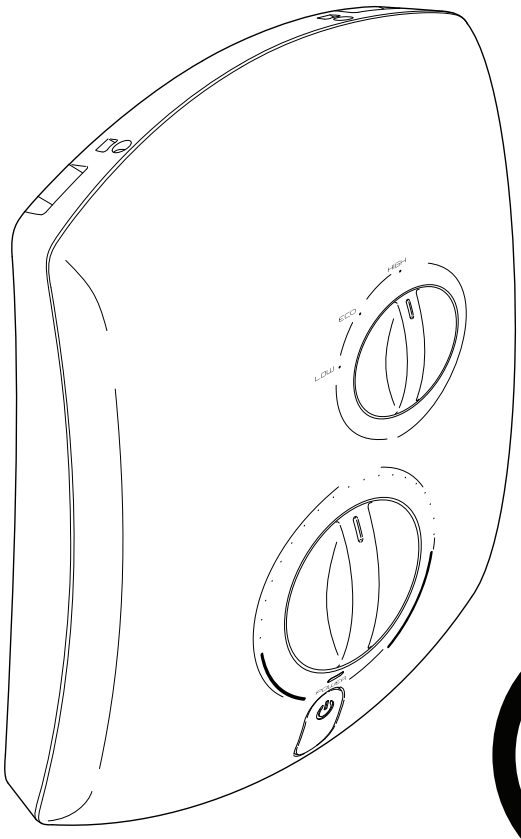
Mira Jump
8.5, 9.5, & 10.8 kW



mira SHOWERS

For SPARES, ADVICE or REPAIRS

Please call us on

0844 571 5000

(UK Only)

These instructions must be left with the user

Installation and User Guide

Showering perfection

mira SHOWERS

INTRODUCTION

Thank you for purchasing a quality Mira Jump Electric Shower. To enjoy the full potential of your new shower, please take time to read this guide thoroughly, and keep it handy for future reference.

Products manufactured by Kohler Mira Ltd are designed to be safe provided, that they are installed used and maintained in good working order, in accordance with our instructions and recommendations.

Follow all warnings, cautions and instructions contained in this guide, and on or inside the shower.

Mira Jump electric showers have separate controls for power selection and for temperature/flow adjustment. A unique flow regulator stabilises any temperature changes caused by water pressure fluctuations, which can result from taps being turned on or off or toilets being flushed.

When this shower has reached the end of its serviceable life, it should be disposed of in a safe manner, in accordance with current local authority recycling, or waste disposal policy.

Mira Jump models covered by this guide:

Product	Model Number	Colour
Jump 8.5	J96Va	White/Chrome
Jump 9.5	J96Wa	White/Chrome
Jump 10.8	J96Xa	White/Chrome

Guarantee

The Mira Jump has been designed for domestic use only, Mira Showers guarantee the Mira Jump against any defect in materials or workmanship for a period of two years from the date of purchase (shower fittings for one year).

For terms and conditions, refer to the back cover of this guide.

Patents

Patent:	GB: 2 427 460
Patent Application:	Ireland: 2006/0462

If you experience any difficulty with the installation of your new shower, then please refer to **"Fault Diagnosis"**, before contacting Kohler Mira Limited. Our telephone and fax numbers can be found on the back cover of this guide.

IMPORTANT SAFETY INFORMATION

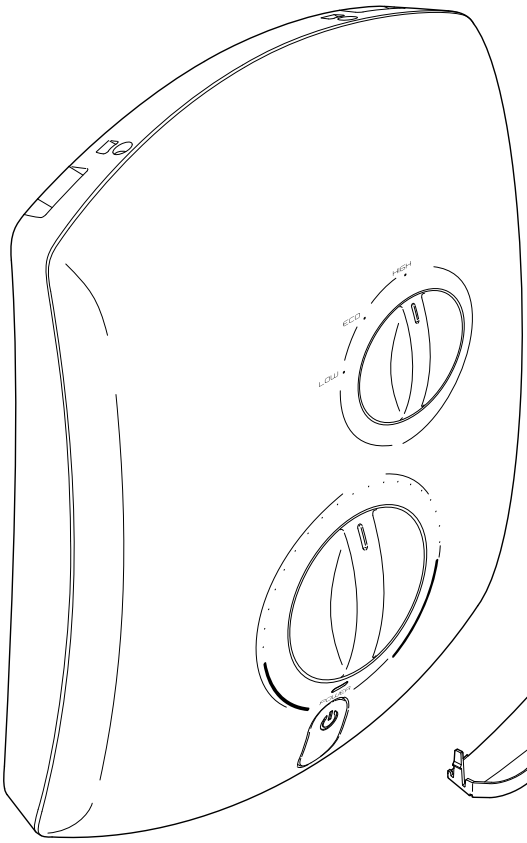
WARNING - This shower can deliver scalding temperatures if not operated, installed or maintained in accordance with the instructions, warnings and cautions contained in this guide and on or inside the appliance.

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

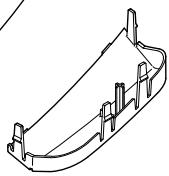
1. Installation of this shower must be carried out in accordance with these instructions by qualified, competent personnel.
2. Isolate the electrical and water supplies before commencing installation. The electricity must be isolated at the consumer unit and the appropriate circuit fuse Removed, if applicable. Mains connections are exposed when the cover is Removed.
3. **DO NOT** install the shower in areas with high humidity and temperature (i.e. steam rooms and saunas).
4. **DO NOT** install the shower where it may be exposed to freezing conditions. Ensure that any pipework that could become frozen is properly insulated.
5. **DO NOT** switch the shower on if there is a possibility that the water in the shower is frozen.
6. **DO NOT** switch the shower on if water starts leaking from the shower case. Isolate the electrical supply to the shower immediately.
7. **DO NOT** connect the outlet of the shower to any tap, control valve, trigger handset or showerhead other than those specified for use with this shower. Only Kohler Mira recommended accessories should be used.
8. The water supplies to this product must be isolated if the product is not to be used for a long period of time. If the product or pipework is at risk of freezing during this period they should also be drained of water.
9. **DO NOT** perform any unspecified modifications to the shower or its accessories. When servicing only use genuine Kohler Mira replacement parts.
10. If the shower is dismantled during installation or servicing then upon completion the product must be inspected to ensure all electrical connections are tight and that there are no leaks.
11. Read all installation instructions before installing this shower.
12. Upon completion of the installation, make sure that the user is familiar with the operation of the shower, and leave this guide and the user guide with the owner.

PACK CONTENTS

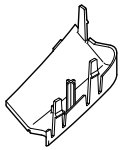
☑ Tick the appropriate boxes to familiarise yourself with the part names and to confirm that the parts are included.



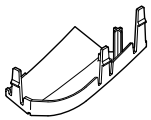
☐ 1 x Mira Jump Electric Shower



☐ 1 x Blank Insert



☐ 1 x Insert RH
1 x Insert LH



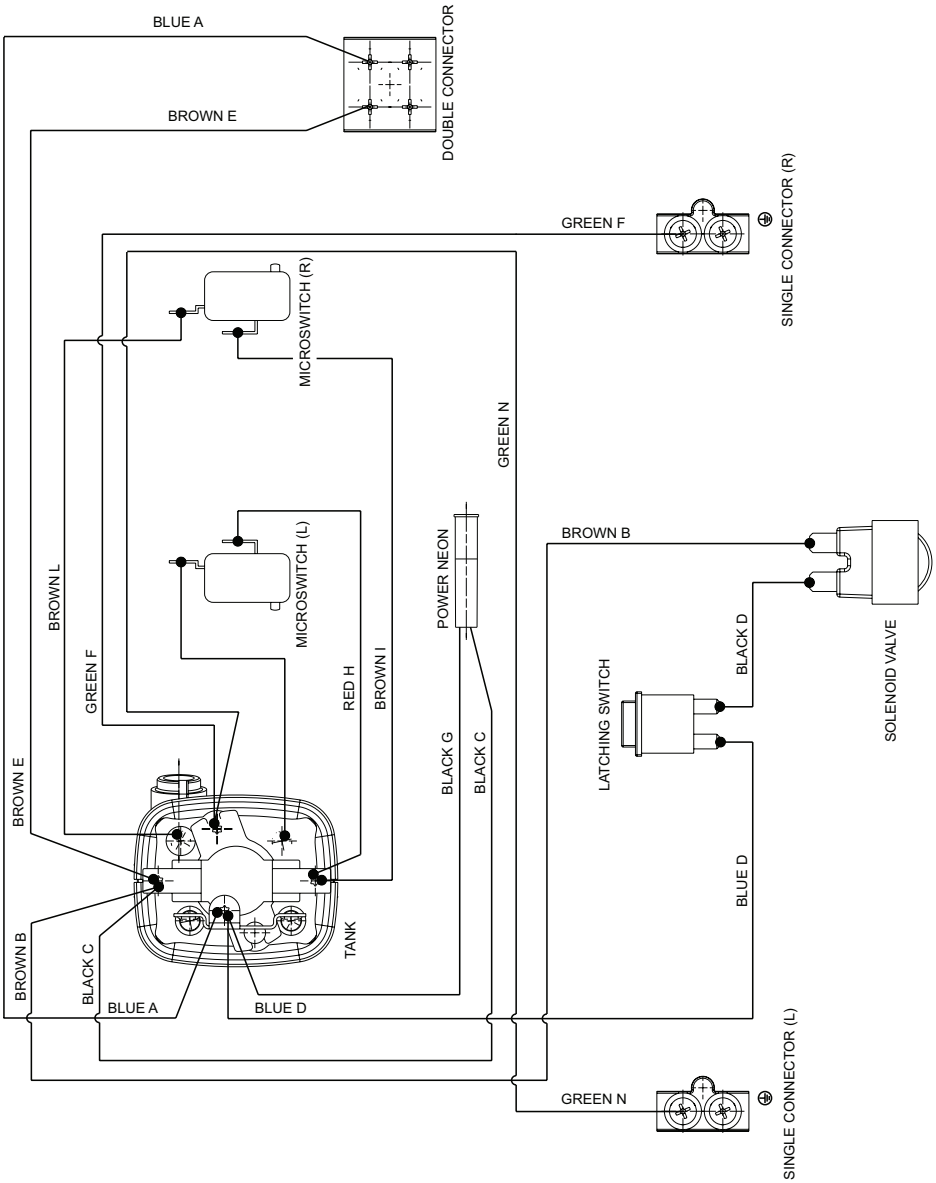
Documentation

☐ 1 x Installation Guide

☐ 1 x Installation Template

☐ 1 x Guarantee Brochure

WIRING DIAGRAM



SPECIFICATIONS

Plumbing	Variant		
	Jump 8.5	Jump 9.5	Jump 10.8
Minimum Dynamic Pressure	70 kPa (0.7 bar)	70 kPa (0.7 bar)	100 kPa (1.0 bar)
Maximum Dynamic Pressure*	500kPa (5 bar)		
Maximum Static Pressure	1000 kPa (10 bar)		
Minimum Static Pressure	50 kPa (0.5 bar)		
Maximum Inlet Temperature	30°C		
Minimum Inlet Temperature	2°C		
Inlet Connection	1/2" BSP Male / 15 mm Compression Fitting		
Maximum Water Hardness	200 ppm $CaCO_3$		
Outlet Connection	1/2" BSP Male		

Electrical	Variant		
	Jump 8.5	Jump 9.5	Jump 10.8
Nominal Power at 230 V ac	7.8 kW	8.7 kW	9.9 kW
Nominal Power at 240 V ac	8.5 kW	9.5 kW	10.8 kW
Recommended MCB Rating	40 A	40 A	45 A
Maximum Supply Cable Size	16 mm²		
Recommended RCD Rating	30 mA tripping current		
Recommended Isolator Switch	45 A double-pole with 3 mm contact separation		
Appliance Sealing Rating	IP X4 - Suitable for installation in Zone 1		
Maximum Ambient Temperature	30°C		
Minimum Ambient Temperature	2°C		

Dimensions	
Height	340 mm
Width	228 mm
Depth	93 mm

*A drop tight pressure reducing valve should be installed where dynamic or static pressure exceeds the figure stated in the Specifications.

European Conformity Information

The Mira Jump range of showers complies with the following European directives:
2006/95/EC Low Voltage Directive, 2004/108/EC EMC Directive.

The Mira Jump range of showers are high power appliances and are subject to conditional connection. If the main electrical supply fuse is rated less than 80 Amps, the local electricity supply company must be contacted to confirm if the electrical supply is adequate.

The Mira Jump range of showers complies with the requirements of the UK's water regulations.

INSTALLATION REQUIREMENTS

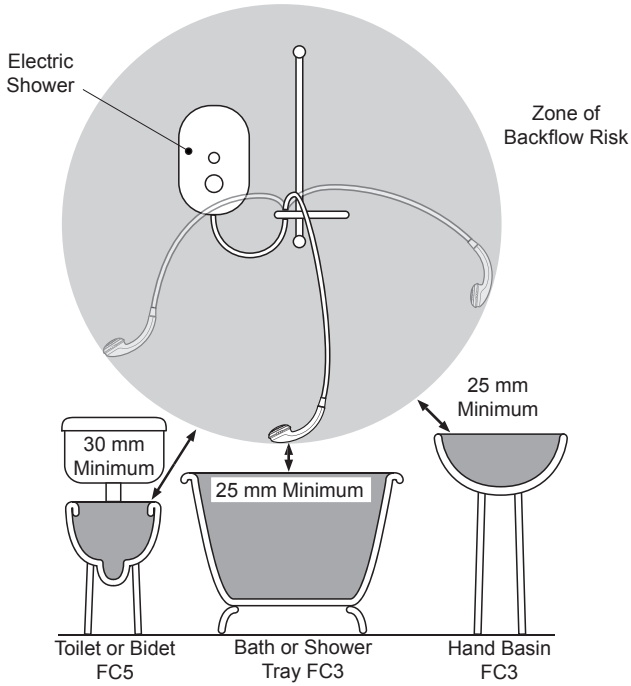
Please read the Important Safety Information and specifications sections at the front of this guide, and the requirements detailed in this section before installing the shower.

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

Plumbing

1. The plumbing installation must comply with all national or local water regulations and all relevant building regulations, or any particular regulation or practice specified by the local water supply company.
2. Do not install the product in a position in which service access is limited.
3. Decide on a suitable position for the shower (minimum distance of 200 mm from the ceiling to allow for cover fit and removal).
4. The position of the shower and shower fittings must provide a minimum gap of 25 mm between the showerhead and the spill over level of any bath, shower tray or basin and a minimum gap of 30 mm between the showerhead and the spill over level of any toilet, bidet or other appliance with a Fluid Category 5 backflow risk (see diagram on page 8).
5. The shower is suitable for installation within the shower area and is fitted with a pressure relief valve. It must be positioned over a water catchment area with the controls at a convenient height for the user.
6. The shower must be fitted to a waterproof flat and even wall surface.
7. **DO NOT** fit the shower to the wall and tile up to the case.
8. **DO NOT** seal the gap between the shower and the wall surface.
9. The showerhead should be positioned so that it discharges down the centre line of the bath or across the opening of a shower cubicle.
10. The showerhead must be directed away from the shower unit, during normal use the showerhead must not spray directly on to the shower unit.
11. **DO NOT** apply excessive force to plumbing connections; always provide mechanical support when making plumbing connections. Any soldered joints should be made before connecting the shower.
12. This shower is not designed to be plumbed directly from the rear. For rear-entry supply, add an elbow to the supply pipe and connect as a rising or a falling supply.
13. If pipework and/or electrical cables enter the shower from the rear through a hole in the wall provision must be made to prevent water ingress back into the wall structure.
14. Only use the inlet connector supplied with the shower. **DO NOT** use any other type of fitting.

15. A full bore/non restrictive servicing valve must be fitted in a readily accessible position adjacent to the shower to facilitate maintenance of the shower.
    DO NOT use a valve with a loose washer plate (jumper) as this can lead to a build up of static pressure.
16. A water treatment device should be installed where the water hardness may exceed 200 ppm. Malfunctions caused by excessive limescale formation are not covered by this shower's guarantee (see back page for details).
17. The installation must not cause the hose to be sharply kinked during normal use.
18. **DO NOT** perform the electrical installation until the plumbing has been completed and checked for leaks.



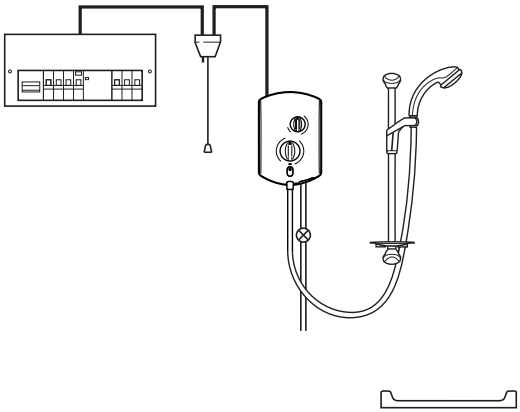
Hose Retaining Ring fitted and shower fittings fixed at a suitable height preventing dirty water backflow.

Note! There will be occasions when the hose retaining ring will not provide a suitable solution for Fluid Category 3 installations, in these instances an outlet double checkvalve must be fitted, this will increase the required supply pressure typically by 10kPa (0.1 bar). Double checkvalves fitted in the inlet supply to the appliance cause a pressure build up, which affect the maximum static inlet pressure for the appliance and must not be fitted. For Fluid category 5 double checkvalves are not suitable.

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

Electrical

1. The electrical installation must comply with BS 7671 (commonly referred to as the IEE Wiring Regulations) and all relevant building regulations, or any particular regulation or practice specified by the local electricity supply company.
2. Ensure that all circuit protection devices, switches and cabling is adequate for the rated current of the shower and that the rating of the electricity supply company fuse and the consumer unit are adequate for the additional demand.
3. The shower **must** be earthed. Ensure any supplementary bonding complies with the relevant regulations.
4. This shower is intended to be permanently connected to the fixed electrical wiring of the mains system. A separate supply **must** be provided from the consumer unit to the shower.
5. **DO NOT** supply any other electrical equipment including extractor fans or pumps via this product.
6. This shower must be provided with means for local disconnection that is incorporated into the fixed wiring in accordance with the relevant local wiring regulations. This **must** be a double pole switch, which has at least 3 mm contact separation in each pole. The switch can be a ceiling mounted pull-cord type within the shower room or a wall mounted switch fitted in the applicable zone area.
7. A 30mA Residual Current Device (RCD) is recommended to be incorporated into the electrical supply to this shower in accordance with wiring regulations.
8. **DO NOT** apply excessive force to the terminal block.
9. All electrical connections should be checked for tightness to prevent overheating before switching on the electrical supply.
10. **DO NOT** switch on the electrical supply until the plumbing has been completed and checked for leaks.



Plumbing and Electrical Schematic

INSTALLATION

Replacing an Existing Shower

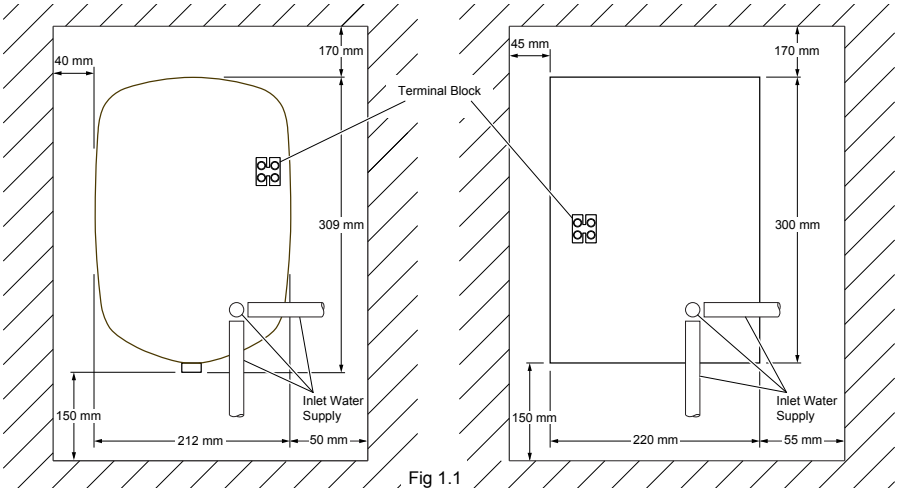
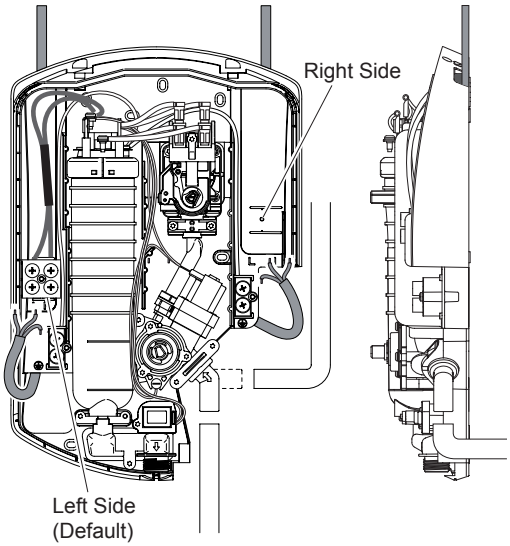


Fig 1.1

Check the existing installation is positioned according to the dimensions specified in the diagram above. The Mira Jump shower can replace showers of the approximate shape and size of those shown.

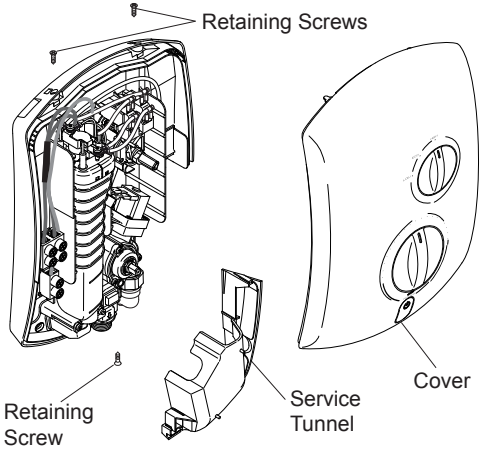


Electrical - Terminal Block locations are provided on both the left and right for convenience when replacing a shower. **Note!** By default the electrical supply position is set for left hand entry, if the installation favours right hand entry some adjustment of the terminal block in the case will be required. Go to "**Adjustment for right hand electrical supplies"**

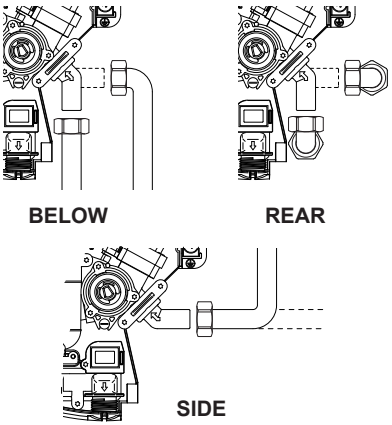
1 Isolate the electrical and water supplies.

2 Disconnect and remove the old shower from the wall.

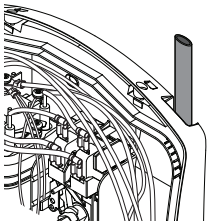
3 Remove the cover and service tunnels from the Mira Jump. Keep the retaining screws (x3) for later use.



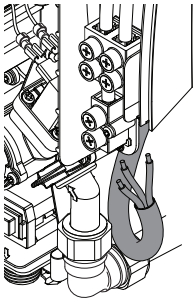
4 Position the Mira Jump shower on the existing pipework. Adjust the shower inlet for water supply pipe position if required. Do not connect shower to pipe.



5 The case has thinned sections that can be removed to allow entry of the electrical cables. Remove either of the top thinned sections of the case for a falling supply.



6 Feed the electrical cable in through the back of the shower and make sure the wires will connect adequately to the terminal block.

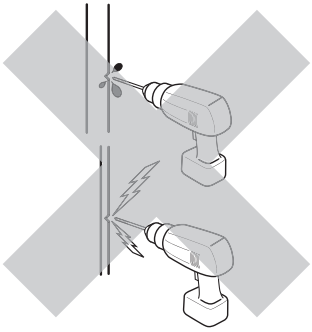


7 Make sure the shower is straight and level, then mark the new fixing holes on the wall.

8 Remove the shower and drill the new fixing holes. Insert appropriate wall plugs.

Caution! Do not drill into buried pipes or cables.

9 Go to **"Connecting Electricity and Water Supplies"** to complete the installation



Caution! Do not drill into buried cables or pipes.

New Installation

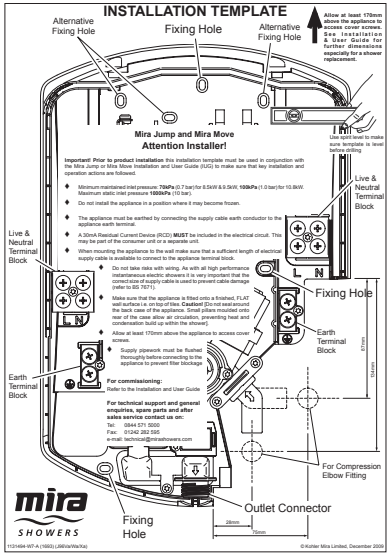
1 Determine the approximate position of the shower according to the dimensions specified in the diagram on page 10.

2 Place the installation template on the wall and mark the positions of the fixing holes. Make sure that there are sufficient lengths of supply pipe and electrical cable to reach the connection points as shown on the template.

3 Remove the installation template and drill the fixing holes. Insert appropriate wall plugs.

Caution! Do not drill into buried pipes or cables.

Repeat the procedure for Replacing an Existing Shower, Steps 3 to 6 and 9.

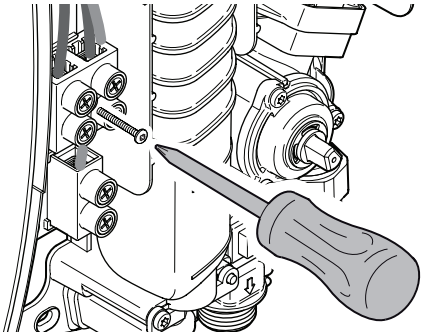


Adjustment For Right Hand Entry Electrical Supply

1. Isolate the electrical and water supplies.

2. Unscrew the terminal block retaining screw.

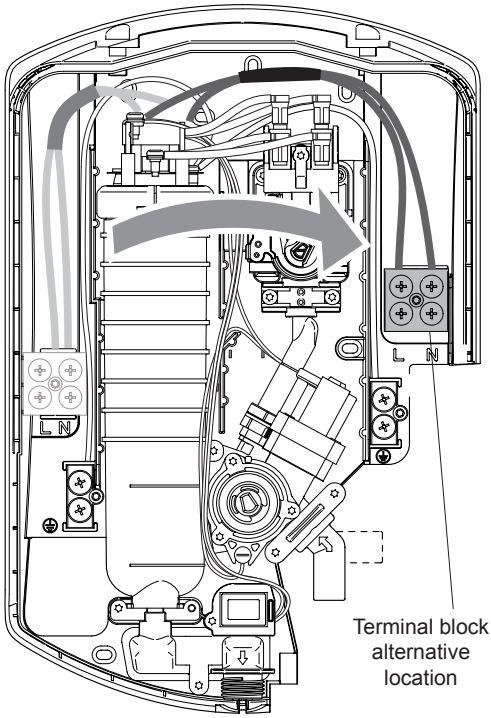
3. Carefully lift the terminal block from its location on the left of the case and remove the retaining screw.



4. Taking care not to damage the wires, reposition the terminal block and the splashguard to the location on the right hand side of the case.

5. Refit and tighten the retaining screw. Make sure that the splashguard remains in place.

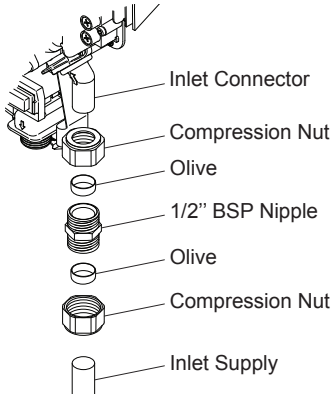
6. Check the wiring and ensure that it has not been damaged and will not be trapped.



Connecting Electricity and Water Supplies

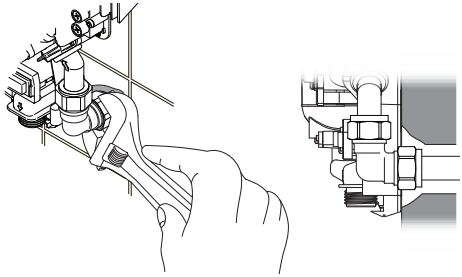
1 Flush the inlet water pipe through to clear any debris.

2 Connect the inlet supply pipe to the shower inlet using a 1/2" BSP nipple with compression nuts and olives (as shown) or a push-fit connector.



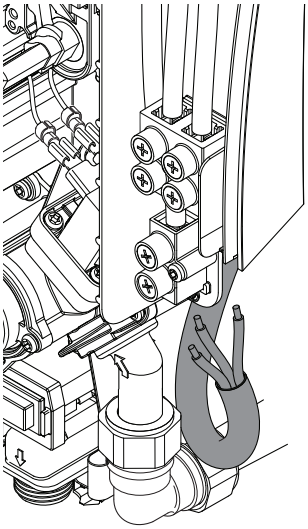
3 Fix the shower to the wall with appropriate screws.

4 If the water inlet is rear fed, make sure the elbow fitting can be Removed for filter maintenance post installation. (see section **"Maintenance - Cleaning the Inlet Filter"**.)



5 Strip a short section of the electrical cables if required. Fit an earth sleeve to the earth wire if required.
Caution! Make sure the bare wire ends are completely dry before connecting to the terminal block.

6 Loosen the screws in the terminal block and insert the bare wires into the clamps:



7 **L** (Live) = Brown Wire
⏚ (Earth) = Green Sleeved Wire
N (Neutral) = Blue Wire

Note! Do not twist the cores of the wires or strain the cables to make them reach the terminal block.

8 Tighten the screws in the terminal block so that they securely clamp the bare wires.

9 If necessary, fit an earth bonding clamp to the supply pipe. Make sure the bonding complies with the relevant regulations in force at the time of installation.

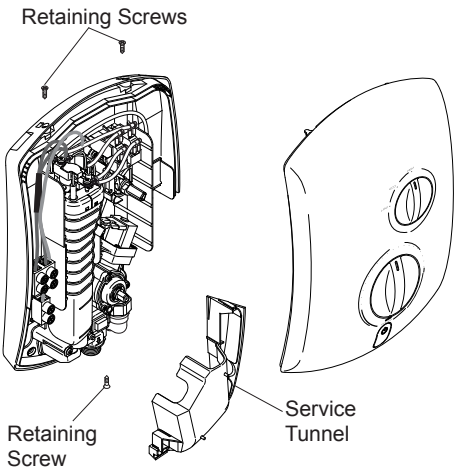
10 Turn on the water supply and check for any leaks.

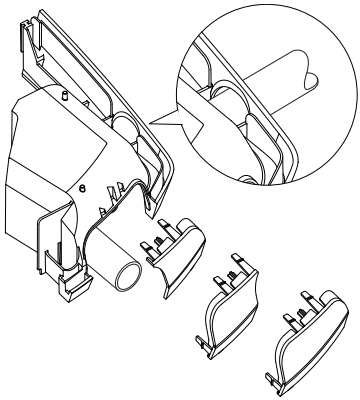
11 Refit the service tunnel and the required insert. If necessary, cut out the slot marked. (Only required if the inlet water pipe is entering the right hand side of the shower.)

12 Replace the cover making sure it fits properly to the case. Do not trap any wires.

13 Fit the three retaining screws.

14 Install the shower fittings, refer to your **Shower Fittings Installation and User Guide**.

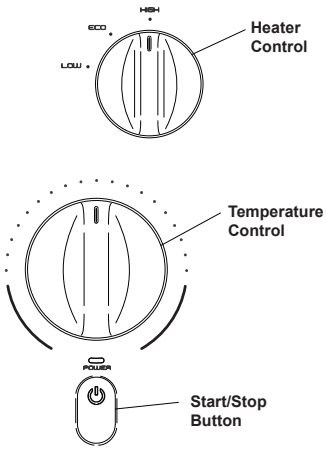




COMMISSIONING

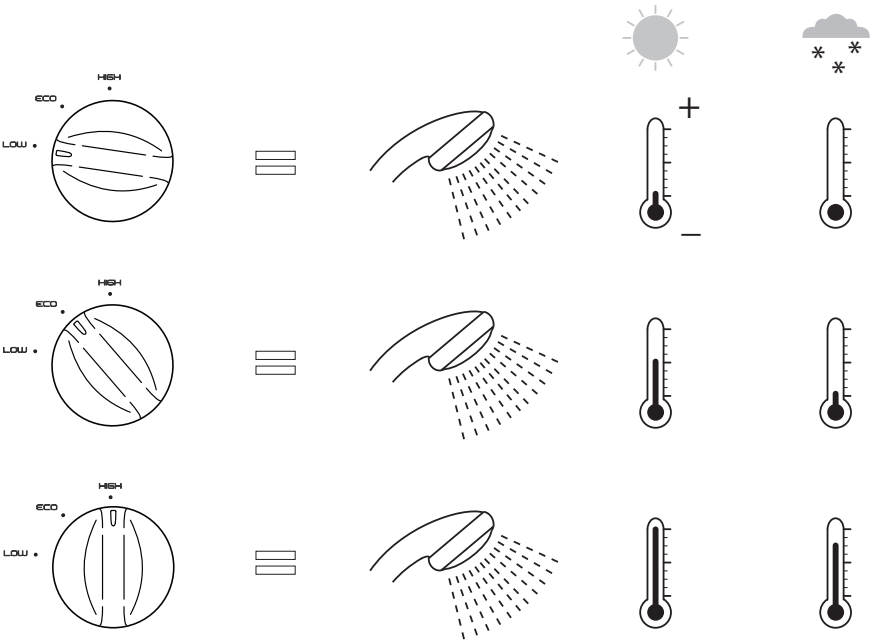
Caution! If you are unsure how electric showers work, please read the **Operation** section before continuing.

1. Turn the temperature control fully anticlockwise to cold and the heater control to "**LOW**".
2. Switch on the electrical supply at the double pole switch. The power light will indicate electricity is being supplied to the shower.
3. Turn the shower on by pressing the start/stop button.
   Check that water flows freely from the shower within a few seconds. If not, refer to the **Fault Diagnosis** section. The water from the handset should be at full force and at a cool temperature.
4. Turn the temperature control slowly clockwise to increase the temperature. The flow will be reduced and the temperature will remain cool (this shows that the flow regulator assembly is operating correctly).
5. Turn the temperature control back anticlockwise to fully cold.
6. Turn the heater control to "**ECO"**. The temperature of the water should rise slightly.
   Allow a few seconds for the warm water to reach the handset - this shows that the Eco heater setting is operating correctly.



7. Turn the heater control to "**HIGH"**. The temperature of the water will rise further - this shows that the maximum heater setting is operating correctly.
8. Set the shower temperature by rotating the temperature control as necessary. Turn the control clockwise for warmer water and anticlockwise for cooler water. Allow approximately 10 seconds for the shower to fully adjust to the required temperature.
   Note! It is normal for the flow rate (shower force) to change when the temperature is changed. Most changes will go unnoticed.
9. When the required temperature is reached, press the start/stop button to turn the shower off. Water will continue to flow from the handset for a few seconds, as water is cleared from the shower.
10. Switch off the power at the double pole switch. The power light turns off indicating no electricity to the shower.
    Note! A slight hissing sound may be heard from the shower during operation. High mains water pressure and high shower temperatures will affect the tone. This is quite normal in use.

The Effect of Seasonal Changes



For a cold shower select Low.

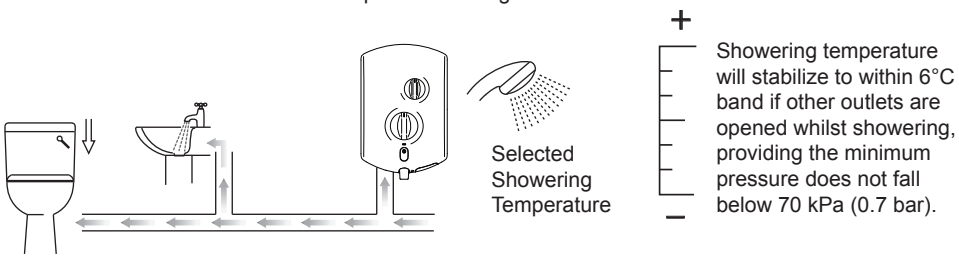
For a summer warm shower select Eco.

For a winter warm shower select High.

During extremes of mains water supply temperature, adjust heater setting to obtain a better showering temperature.

The Effect of Other Water Devices

Example of how shower temperature stabilizes due to sudden pressure changes.



Water inlet pressure fluctuations due to other draw offs (e.g. flushing toilet) will cause the showering temperature to increase.

OPERATION

WARNING - This shower can deliver scalding temperatures if not operated, installed or maintained in accordance with the instructions, warnings and cautions contained in this guide and on or inside the appliance.

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

1. Make sure that you fully understand how to operate this shower before use, read all operating instructions and retain this guide for future reference.
2. This shower 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 the use of the shower by a person responsible for their safety.
3. Children should be supervised to ensure that they do not play with the shower.
4. **DO NOT** switch the shower on if there is a possibility that the water in the shower is frozen.
5. **DO NOT** switch the shower on if water leaks from the shower unit. Isolate the electrical supply to the shower immediately.
6. **DO NOT** switch the shower on if the case appears to be damaged or incorrectly fitted. Isolate the electrical supply to the shower immediately.
7. Switch off the appliance at electrical isolating switch when not in use. This is for safety and is recommended with all electrical appliances.
8. **DO NOT** connect the outlet of the shower to any tap, control valve, trigger handset or showerhead other than those specified for use with this shower. Only Kohler Mira recommended accessories should be used.
9. Always check the water temperature before entering the shower. Sunburn or skin conditions can increase your sensitivity to hot water. Make sure that you set the shower to a cooler temperature.
10. **DO NOT** operate the temperature control rapidly, allow 10 – 15 seconds for the temperature to stabilise before use.
11. Care is required if the shower is turned off and back on during showering as this may result in unstable temperature. Ensure temperature has stabilised before re-using shower.
12. The showerhead must be de-scaled regularly, refer to the user maintenance section towards the rear of this guide for details.
13. The shower hose must be checked regularly and replaced if damaged, refer to the user maintenance section towards the rear of this guide for details.
14. Do not store bathroom items on top of the shower unit (i.e. Shampoo or shower gel containers).
15. The shower must be operated and maintained in accordance with the requirements of this guide.
16. If any of the following conditions occur, isolate the electricity and water supplies and contact Kohler Mira Customer Service.
    - If the case is damaged or the cover is not correctly fitted and water has entered the shower case.
    - If the shower begins to make an odd noise, smell or smoke.
    - If the shower shows signs of a distinct change in performance indicating a need for maintenance.

Operating Instructions

Turn the shower on

1. Switch on the electrical supply at the double pole switch. The power light is illuminated.
2. Turn the shower on by pressing the start/stop button.

Select heater setting

3. Turn the heater control to **High**. Allow 15-20 seconds for warm water to reach the handset.

   For electrical economy, set the heater control to **Eco**. This setting will provide sufficient power during the summer when the mains water temperature is warmer.

   For a cold shower, set the heater control to **Low**.

   Caution! Always check the water temperature before entering the shower.

Adjust the showering temperature

4. Adjust the shower temperature by turning the temperature control as necessary. Turn clockwise for hotter water and anticlockwise for cooler water. Allow 10-15 seconds for the for the shower to fully adjust to the required temperature.

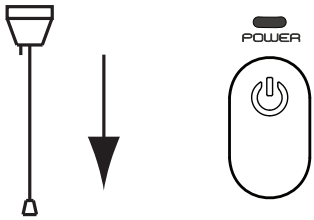
   Note! It is normal for the flow rate (shower force) to change when the temperature is changed.

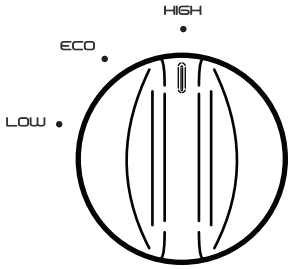
To turn the shower off

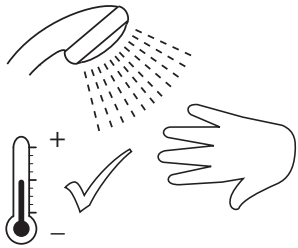
5. Turn the shower off by pressing the power button.

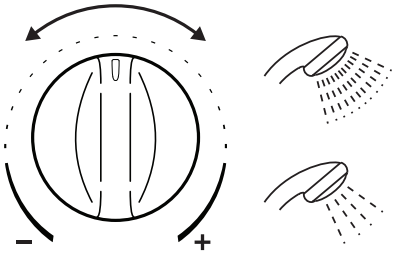
   Note! A small amount of water may continue to flow from the handset for a few moments.

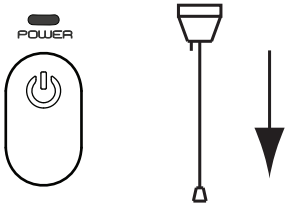
6. Switch off the electrical supply at the double pole switch. The power light turns off.











FAULT DIAGNOSIS

The troubleshooting information tabled below gives you details on probable causes and remedies should difficulties be encountered whilst the shower is in operation.

Warning! There are no user serviceable components beneath the cover of the appliance.

ONLY A COMPETENT TRADESPERSON SHOULD Remove THE FRONT COVER!

Malfunction	Probable Cause	Possible Remedy
Appliance fails to operate.	Electrical supply isolated at double pole switch. Fuse blown or MCB/RCD tripped, indicating possible electrical fault.	Switch on electrical supply via the pullcord or wall mounted switch. Renew the fuse or reset the MCB/RCD. If fault persists, contact your installer.
No water or very low flow rate.	The handset sprayplate and/or hose is blocked. Water pressure below minimum required for appliance operation. Electrical supply isolated at double pole switch. The fuse is blown or the MCB/RCD has been tripped, indicating a possible electrical fault.	Clean the handset sprayplate (see **User Maintenance**). Check the hose for blockage or damage. Clear blockage where possible or replace the hose. Make sure incoming mains water stopcock and/or appliance isolating valve is fully turned on. Switch on electrical supply via the pullcord or wall mounted switch. Renew the fuse or reset the MCB/RCD. If the fault persists, contact the shower installer.
Shower is too hot during the summer.	The incoming water is warmer in the summer, so the shower heater setting is too high.	Turn the heater control to **Eco** and adjust the temperature control until the desired temperature is reached.
Shower is too hot.	The handset sprayplate is blocked.	Clean the handset sprayplate (see **User Maintenance**).
Turning the temperature control does not affect the water temperature.	The handset sprayplate and/or hose is blocked.	Clean the handset sprayplate (see **User Maintenance**). Check the hose for blockage or damage. Clear blockage where possible or replace the hose.
The temperature cycles between hot and cold.	The handset sprayplate is blocked. The temperature is set too high. This is causing the thermal switch to turn off the heating element to reduce the water temperature.	Clean the handset sprayplate (see **User Maintenance**). Turn the temperature control anticlockwise to reduce the water temperature.

Malfunction	Cause	Remedy
No hot water or reduced temperature from shower, with the controls in any position.	The water pressure is below the minimum required. This can be due to other outlets (e.g. toilet, garden hose, washing machine, etc.) drawing water while the shower is being used.	Turn off other mains water appliances whilst shower is in use. Make sure incoming mains water stopcock and/or appliance isolating valve is fully turned on. If the fault persists, contact the shower installer.
ALL OF THE FOLLOWING REMEDIES MUST BE PERFORMED BY A COMPETENT TRADESPERSON ONLY!		
No hot water or reduced temperature from shower, with the controls in any position.	Insufficient water supply pressure.	Make sure incoming mains water stopcock and/or appliance isolating valve is fully turned on. Check incoming mains water pressure.
	Failure of a microswitch or the thermal switch.	Check the continuity of the switches, using a suitable continuity measuring device. Replace the switches as necessary.
	An internal wiring connection has failed.	Check the integrity of the internal wiring.
	One of the heater tank elements has failed.	Replace the heater tank.
	Switch assembly diaphragm fault.	Replace switch assembly.
The shower temperature cycles between hot and cold.	The temperature is set too high. This is causing the thermal switch to turn off the heating element to reduce the water temperature.	Turn the temperature control anticlockwise to reduce the water temperature. **DO NOT TAMPER** with the thermal switch.
Turning the temperature control does not affect the water temperature.	The flow regulator assembly is faulty.	Replace.
	The handset sprayplate is blocked.	Remove and clean the handset sprayplate (see **User Maintenance**). If the fault persists, contact Kohler Mira Customer Services.
No water or very low flow rate.	The handset sprayplate and/or hose is blocked.	Clean the handset sprayplate (see **User Maintenance**). Check the hose for blockage or damage. Clear blockage where possible or replace the hose.

Malfunction	Cause	Remedy
No water or very low flow rate.	Service tunnel or cover not fitted correctly causing Start/ Stop button not to operate.	Check case inserts are cut and fitted correctly. Check services (electrical or plumbing) are not interfering with location of service tunnel or cover.
	Water pressure below minimum required for appliance operation.	Make sure incoming mains water stopcock and/or appliance isolating valve is fully turned on. Insufficient water supply pressure. Supply pressure **must** be a minimum of 70kPa (0.7 bar), for 8.5kW and 9.5kW, and 100kPa (1.0 bar) for 10.8kW. **Note!** If other appliances are operating, pressure may drop below the required minimum.
	The heater tank is excessively scaled.	Replace.
	The flow regulator assembly is faulty.	Replace.
	The inlet filter is blocked.	Clean the inlet filter (see **Servicing**).
	The fuse is blown or the MCB/RCD has been tripped, indicating a possible electrical fault; for example, heater tank element failure.	Renew the fuse or reset the MCB/RCD. If the fault persists, contact Kohler Mira Customer Services to help diagnose the fault and replace any parts as necessary.
Water leaks from the bottom of the case near the outlet, and there is no flow from the handset.	The pressure relief valve in the tank has been triggered, (the shower has a pressure relief valve assembly that works to reduce the damage if the outlet is blocked or the unit is frozen).	Resolve the blocked outlet, and replace the tank assembly.
	Switch assembly diaphragm fault.	Replace switch assembly.
The water cannot be turned off.	The flow regulator assembly is faulty.	Replace.
	Flow valve, solenoid, or Start/ Stop switch faulty.	Diagnose and replace necessary parts.
	The supply pressure is below the minimum requirement, 50kPa (0.5 bar).	Check the static water pressure. Note that the static pressure may fall below minimum requirement when other appliances are drawing water, for example the dishwasher or washing machine.

USER MAINTENANCE

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

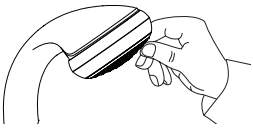
- There are no user serviceable parts inside the shower. Only qualified, competent personnel should Remove the front cover, mains connections are exposed when the cover is Removed.
- Switch the shower off at the isolator switch before performing any user maintenance or before cleaning the shower.
- **DO NOT** allow young children to perform user maintenance including cleaning of the shower.
- **DO NOT** use the showerhead to clean the shower.
- If the shower is not to be used for a long period, the electrical supply and water supply to the shower should be isolated. If the shower or pipework is at risk of freezing during this period a qualified, competent person should drain them of water.

Cleaning

Many household cleaners contain abrasives and chemical substances, and should not be used for cleaning plated or plastic fittings. These finishes should be cleaned with a mild washing up detergent or soap solution, and then wiped dry using a soft cloth.

De-scaling the Showerhead

Important! Keeping the showerhead clean and free from limescale will ensure that your shower and showerhead continue to perform to their maximum. A blocked showerhead can restrict the flow rate and may cause damage to your shower

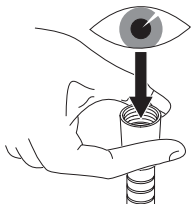


Use your thumb or a soft cloth to wipe any limescale from the soft nozzles

Inspecting the hose.

Important! The shower hose should be inspected periodically for damage or internal collapse, internal collapse can restrict the flow rate from the showerhead and may cause damage to the shower. Remove the shower hose from the shower, inspect and replace the hose if necessary.

Unscrew the hose from the showerhead and the shower outlet.



Inspect the hose.

SERVICING

WARNING

There are no user serviceable parts inside the shower.

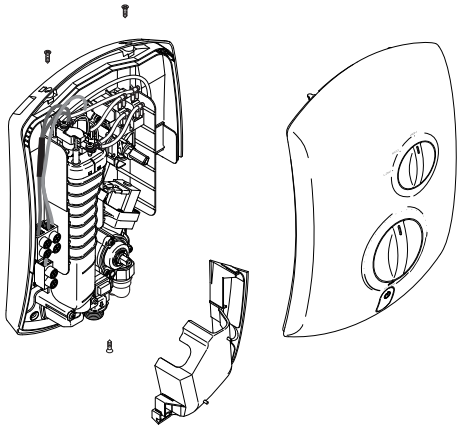
Servicing of the shower must only be carried out by qualified, competent personnel following the instructions provided in this guide and those provided with any spare part.

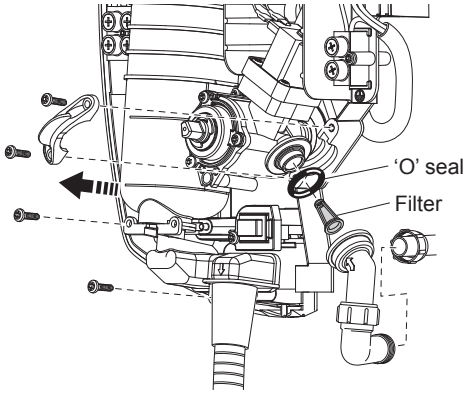
Before replacing any parts, ensure that the underlying cause of the malfunction has been resolved.

Cleaning the Inlet Filter

Warning! Make sure that the electrical supply is turned off at the mains and the appropriate circuit fuse is Removed. Turn off inlet water supply.

1. Remove the three cover retaining screws, the cover and the service tunnel.
2. Remove the screws that hold the inlet clamp bracket in position and Remove the clamp bracket.
3. Remove the two screws shown at the base of the tank.
4. Carefully pull the flow valve assembly and the heater tank away from the case. Make sure that you ease the inlet connector off the supply pipe.
5. Remove the inlet connector complete with 'O' seal. Use a suitable tool to withdraw the filter. Clean or renew the filter.
6. Refit the filter, make sure that the filter is correctly orientated and pushed fully home.
7. Refit the components in reverse order.





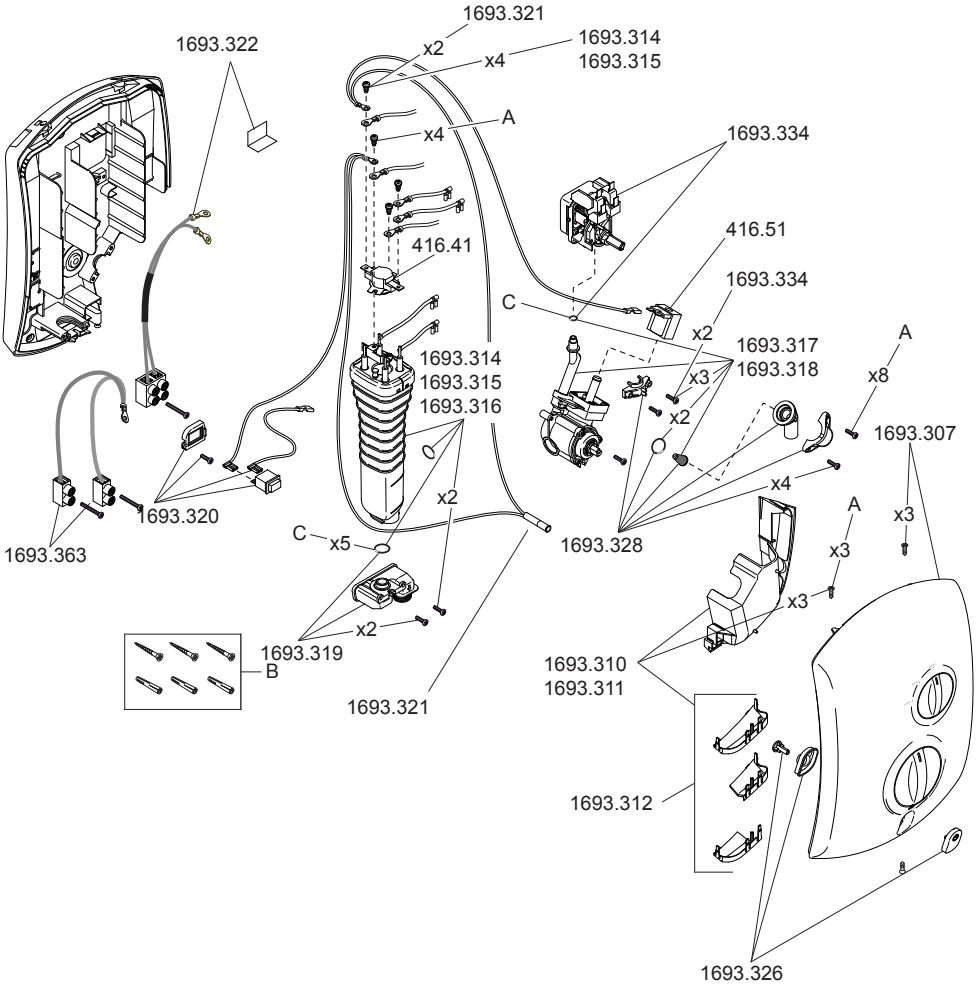
SPARE PARTS

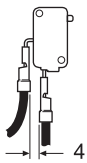
SPARE PARTS

Spare Parts List

416.41	Thermal Switch
416.51	Solenoid Coil
439.88	Seal Pack (components identified ‘C’)
1693.307	Cover Assembly - White/Chrome
1693.310	Service Tunnel & Inserts Pack - White
1693.312	Service Inserts Pack - White
1693.314	Heater Tank Assembly 8.5kW
1693.315	Heater Tank Assembly 9.5kW
1693.316	Heater Tank Assembly 10.8kW
1693.317	Flow Valve Assembly 8.5kW
1693.318	Flow Valve Assembly 9.5kW and 10.8kW
1693.319	Outlet Assembly
1693.320	Latching Switch Assembly
1693.321	Power Neon Assembly
1693.322	Mains Terminal Block Assembly
1693.325	Screw Pack (components identified ‘A’)
1693.326	Push Button - White
1693.328	Inlet & Clamp Bracket Pack
1693.331	Component Pack (components identified ‘B’)
1693.334	Switching Assembly
1693.363	Earth Terminal Block Assembly

Spare Parts Diagram





Important Note! Push-fit connectors **must** be assembled back to back onto terminals of micro-switches.

A minimum air gap of 4mm **must** be maintained between the connectors after assembly.

CUSTOMER SERVICE

Guarantee

Your product has the benefit of our manufacturer's guarantee which starts from the date of purchase.
To activate this guarantee, please return your completed registration card, visit our website or free phone 0800 0731248 within 30 days of purchase (UK only).

Within the guarantee period we will resolve defects in materials or workmanship, free of charge, by repairing or replacing parts or product as we may choose.
This guarantee is in addition to your statutory rights and is subject to the following conditions:

- The guarantee applies solely to the original installation under normal use and to the original purchaser only. The product must be installed and maintained in accordance with the instructions given in this user guide.
- Servicing must only be undertaken by us or our appointed representative. **Note!** if a service visit is required the product must be fully installed and connected to services.
- Repair under this guarantee does not extend the original expiry date. The guarantee on any replacement parts or product ends at the original expiry date.
- For shower fittings or consumable items we reserve the right to supply replacement parts only.

The guarantee does not cover:

- Call out charges for non product faults (such as damage or performance issues arising from incorrect installation, improper use, inappropriate cleaning, lack of maintenance, build up of limescale, frost damage, corrosion, system debris or blocked filters) or where no fault has been found with the product.
- Water or electrical supply, waste and isolation issues.
- Compensation for loss of use of the product or consequential loss of any kind.
- Damage or defects caused if the product is repaired or modified by persons not authorised by us or our appointed representative.
- Routine maintenance or replacement parts to comply with the requirements of the TMV 2 or TMV 3 healthcare schemes.
- Accidental or wilful damage.
- Products purchased ex-showroom display.

What to do if something goes wrong

If your product does not work correctly refer to this manual for fault diagnosis and check that it is installed and commissioned in accordance with our instructions.
If this does not resolve the issue, contact us for help and advice.

Extended Guarantees

A selection of protection plans are available that enable you to cover repair bills (excludes Eire). Ring 01922 471763 for more details.

Helpdesk Service - Ring our Customer Services Team for product advice, to purchase spare parts or accessories or to set up service visit. You can contact us via phone or e-mail, details below. Please provide your model name, power rating (if applicable) and date of purchase.

Mira Showers Website (www.mirashowers.co.uk)
Visit our website to register your guarantee, download user guides, diagnose faults, purchase our full range of accessories and popular spares, or request a service visit.

Spares and Accessories - We hold the largest stocks of genuine Mira spares and accessories. Contact us for a price or visit our website to purchase items from our accessory range and popular spares.

Service/Repairs - No one knows our products better than our nationwide team of Service Technicians. We can carry out service or repair work to your product both during and after the guarantee period. Ask about our fixed price service repairs.

To Contact Us: UK

0844 571 5000

Fax: 01 242 282595

E-mail: Visit **www.mirashowers.co.uk/contactus**

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