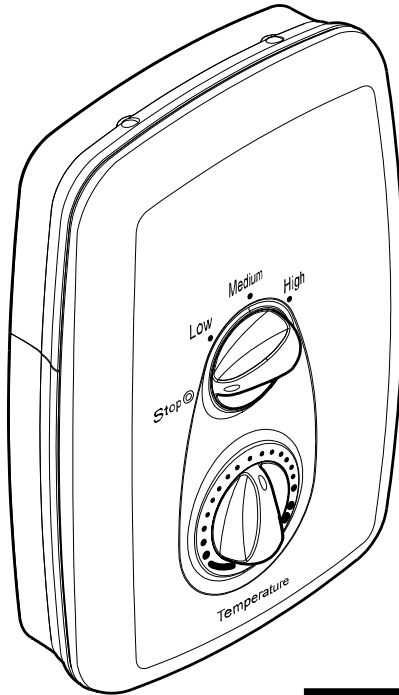


7.5 and 8.5 kW

mira
zest



ELECTRIC SHOWERS

Installation

Operation &

Maintenance Guide

THESE INSTRUCTIONS ARE TO BE LEFT WITH THE USER

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Introduction

Thank you for purchasing a quality Mira product. To enjoy the full potential of your new product, please take time to read this guide thoroughly, having done so, keep it handy for future reference.

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

Appliances covered by this guide:

Mira Zest 7.5 - A 7.5 kW 240 V AC (6.9 kW 230 V AC) heater with a Mira React adjustable spray handset. Supplied complete with flexible hose, adjustable clamp bracket assembly, slide bar and supports and hose retaining ring. Available in white finish.

Mira Zest 8.5 - A 8.5 kW 240 V AC (7.8 kW 230 V AC) heater with a Mira React adjustable spray handset. Supplied complete with flexible hose, adjustable clamp bracket assembly, slide bar and supports and hose retaining ring. Available in white finish.

If you experience any difficulty with the installation or operation of your new shower control, then please refer to the **Maintenance** and **Fault diagnosis** section, before contacting **Caradon Plumbing Solutions**. Our telephone and fax numbers can be found on the back cover of this guide.

Important Safety Information

WARNING!

- 1.1. Products manufactured by us are safe and without risk provided they are installed, used and maintained in good working order in accordance with our instructions and recommendations.
- 1.2. **THIS APPLIANCE MUST BE EARTHED.**

In accordance with the current edition of 'The Plugs and Sockets etc. (Safety Regulations)' in force at the time of installation. This appliance is intended to be permanently connected to the fixed electrical wiring of the mains system.
- 1.3. **DO NOT** twist the individual cable cores of the live and neutral conductors, as this will prevent them from entering the terminal block.
- 1.4. The shower unit must not be fitted where it may be exposed to freezing conditions. Make sure that any pipework that could become frozen is properly insulated.
- 1.5. **DO NOT** operate this appliance if it is frozen. Allow the appliance to thaw before using again.
- 1.6. **DO NOT** operate this appliance if water leaks from the pressure relief valve, maintenance will be required before the appliance can be safely used.
- 1.7. **DO NOT** fit any form of outlet flow control as the outlet acts as a vent for the tank body. Only Mira recommended outlet fittings should be used.
- 1.8. There are no user serviceable components beneath the cover of the appliance. Only a competent tradesperson should remove the cover.
- 1.9. If any of the following conditions occur, isolate the electricity and water supplies and refer to "**To contact us**", on the back page of this guide.
 - 1.9.1. If the cover is not correctly fitted and water has entered the appliance case.
 - 1.9.2. If the case is damaged.
 - 1.9.3. If the appliance begins to make an odd noise, smell or smoke.
 - 1.9.4. If the appliance shows signs of a distinct change in performance, indicating a need for maintenance.
 - 1.9.5. If the appliance is frozen.
- 1.10. Isolate the electrical and water supply before removing the cover.
- 1.11. Mains connections are exposed when the cover is removed.
- 1.12. Refer to the wiring diagram before making any electrical connections.
- 1.13. Ensure all electrical connections are tight, to prevent overheating.

Caution!

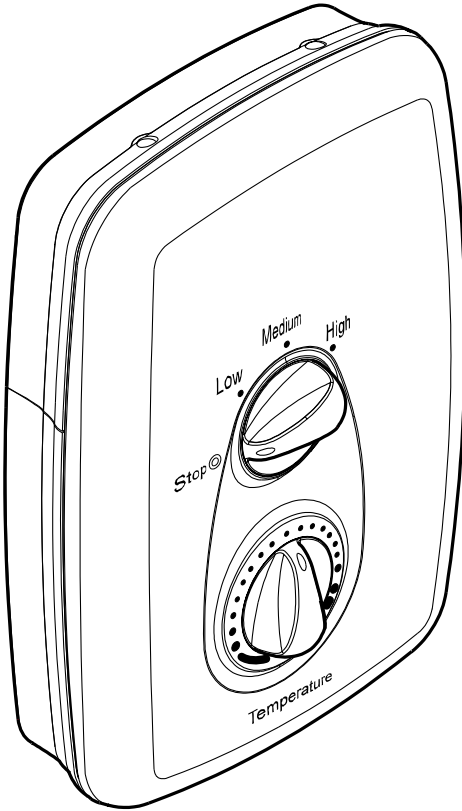
- 2.1. Read all of these instructions and retain this guide for later use.**
- 2.2.** Pass on this guide in the event of change of ownership of the installation site.
- 2.3.** Follow all warnings, cautions and instructions contained in this guide, and on or inside the appliance.
- 2.4.** The electrical installation must comply with the “Requirements for Electrical Installations” commonly referred to as the IEE Wiring Regulations, or any particular regulations and practices, specified by the local electricity supply company in force at the time of installation. The installation should be carried out by an electrician or contractor who is registered, or is a member of, an association such as:
 - 2.4.1.** National Inspection Council for Electrical Installation and Contracting (NICEIC), throughout the UK.
 - 2.4.2.** The Electrical Contractors Association (ECA), England and Wales.
 - 2.4.3.** The Electrical Contractors Association of Scotland (ECAS).
- 2.5.** This is a high power unit; it is essential to contact your electricity supply company to ensure that the electricity supply is adequate for the purpose.
- 2.6.** The plumbing installation must comply with the requirements of UK Water Regulations/Bye-laws (Scotland), Building Regulations or any particular regulations and practices, specified by the local water company or water undertakers. The installation should be carried out by a plumber or contractor who is registered, or is a member of, an association such as:
 - 2.6.1.** Institute of Plumbing (IOP), throughout the UK.
 - 2.6.2.** National Association of Plumbing, Heating and Mechanical Services Contractors (NAPH & MSC), England and Wales.
 - 2.6.3.** Scottish and Northern Ireland Plumbing Employers’ Federation (SNIPEF), Scotland and Northern Ireland.
- 2.7.** Anyone who may have difficulty understanding or operating the controls of any shower should be attended whilst showering. Particular consideration should be given to the young, the elderly, the infirm, or anyone inexperienced in the correct operation of the controls.
- 2.8.** When this appliance 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.

Pack Contents Checklist

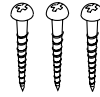
Tick the appropriate boxes to familiarize yourself with the part names and to confirm that the parts are included.

1. Mira Zest 7.5 or 8.5 kW

1 x Mira Zest 7.5 or 8.5



3 x Fixing Screws



3 x Wall Plugs

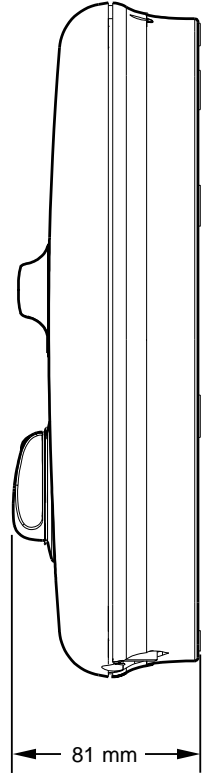
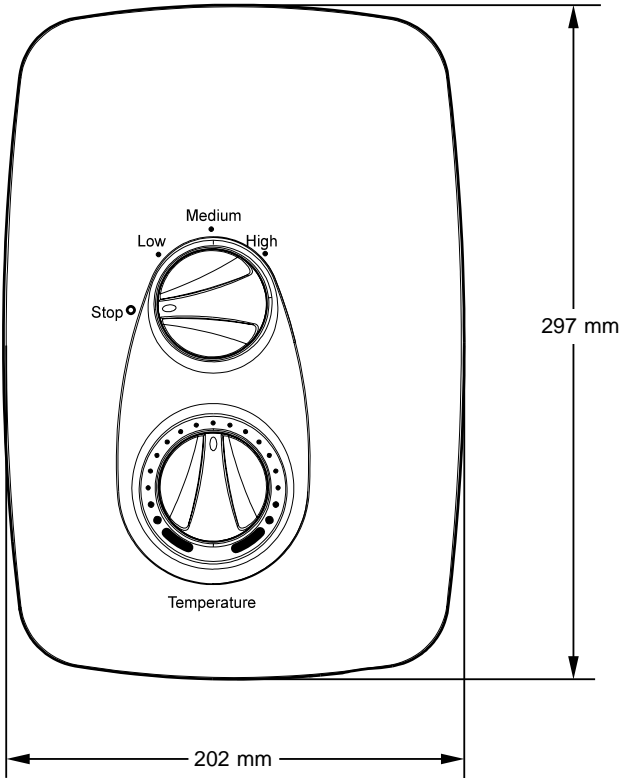


2. Documentation

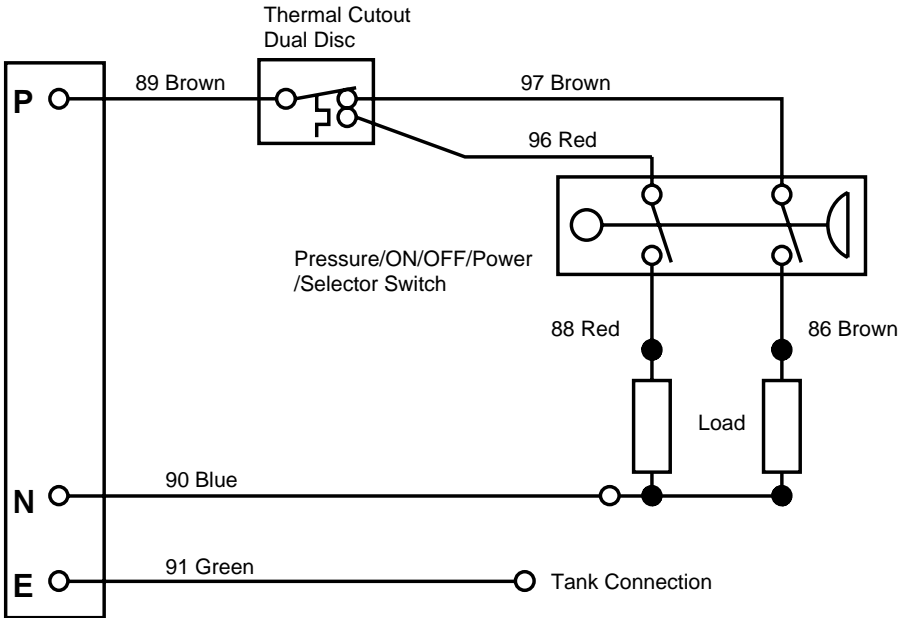
1 x Installation, Operation and Maintenance Guide

1 x Customer Support Brochure

Dimensions



Wiring Diagram



Specifications

Plumbing

1. Minimum maintained inlet pressure 0.7 bar for satisfactory operation.
2. Maximum static inlet pressure 10 bar.
3. Minimum static pressure 0.2 bar to keep the flow valve closed.

Electrical

1. The appliance requires a 40 Amp fuse.
2. The terminal block will not accept cable larger than 10 mm².

Standards and Approvals

1. This Mira Zest complies with all the relevant directives for CE marking.

Installation Requirements

Plumbing

1. The appliance is designed to operate with a minimum **maintained inlet pressure of 0.7 bar** up to a **maximum static inlet pressure of 10 bar**.
2. The appliance is normally connected to the cold water mains-fed supply. However, the water supply can be taken from a cold water storage cistern, provided there is a minimum maintained inlet head of water of 7 metres (the vertical distance from the base of the cold water storage cistern to the shower fitting handset). To reduce pressure losses and fluctuations, the cistern-fed water supply must be independent from other supply draw-offs, and should avoid long horizontal pipe runs and use swept bends rather than 90° elbows.
3. The appliance is suitable for installation within the shower area. It is fitted with a pressure relief device and must be positioned over a water catchment area with the controls at a convenient height for the user.
4. The appliance is fitted with a plastic inlet connector intended to connect to a 15 mm compression fitting supplied from the top, bottom or back.
5. **Do not** fit the appliance to the wall and tile up to the case. The appliance must be fitted onto a finished flat and even wall surface. This is important as difficulty may be encountered when fitting the cover and subsequent operation of the unit could be impaired (small pillars moulded on to the back of the case allow air circulation).
6. Refrain from applying excessive force when making any connections. Always provide mechanical support when making the plumbing connections.
7. **Do not install the appliance in a position where it may become frozen.** The shower unit must not be fitted where it may be exposed to freezing conditions. The shower unit must not be used if suspected of being frozen.
8. We recommend that a non-restrictive (free flowing) isolating valve is fitted in the cold water supply pipe to allow the complete maintenance of the appliance. **Do not** use a valve with a loose washer plate (jumper) as this can lead to a build up of static pressure.
9. To avoid damage to the case when soldered fittings are used, pre-solder the pipework and fittings before connecting them to the inlet stub.
10. The appliance is fitted with a ½ " BSP male outlet thread, to accept a Mira shower hose.
11. Supply pipework **MUST** be flushed to clear debris before connecting the appliance.

12. When installed in very hard water areas (above 200 ppm temporary hardness) your installer may advise the installation of a water treatment device, to reduce the effects of limescale formation. Appliance malfunction due to excessive limescale formation is not covered by the manufacturer's guarantee. Your local water company will be able to advise the hardness of water in your area.
13. A hose retaining ring is supplied to prevent the handset from dropping below the spillover level of the bath or shower, which could lead to contamination from back-siphonage (refer to Figure 1). The supplied hose retaining ring should meet the great majority of user requirements for shower installations with flexible outlet fittings. However, there will be occasions when the hose retaining ring will not provide a suitable solution. In these instances an **outlet** double checkvalve, e.g. the Mira DCV-H, **must** be fitted. The inclusion of the Mira DCV-H will increase the required supply pressure typically by 0.1 bar.

Double checkvalves, fitted in the inlet supply to the appliance, cause a pressure build-up, which could exceed the maximum static inlet pressure for the appliance.
14. Water flow can be obtained without the electrical power being connected. This allows the plumbing connections to be tested prior to final connection of the electrical supply.
15. Avoid layouts where the shower hose will be sharply kinked. This may reduce the life of the hose.

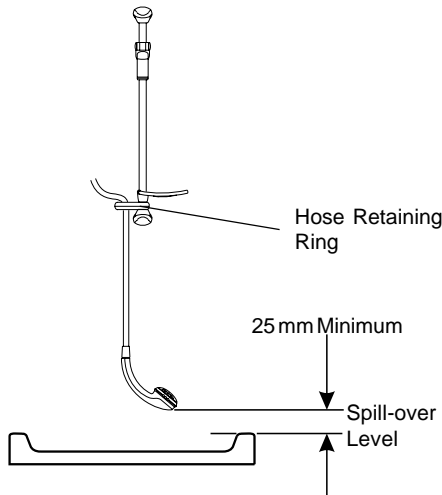


Figure 1

Electrical

1. In a domestic installation, the rating of the electricity supply company fuse and the consumer unit must be adequate for the additional demand. As these appliances are high power units, it is essential to contact your electricity supply company to ensure that the supply is adequate for the appliance. Voltage drop due to local heavy demand will reduce the shower's performance.
2. The appliance **must be earthed** by connecting the supply-cable earth conductor to the earth terminal.

Supplementary bonding: Within the bathroom or shower room, all accessible conductive parts of electrical equipment and extraneous conductive parts that are likely to introduce earth potential, must be electrically bonded to earth using a minimum cable size of 4.0 mm² if the cable is not mechanically protected (2.5 mm² if mechanically protected).

3. The minimum cable size (cross-sectional area) required is 6 mm² under normal conditions of installation.

Important! The shower circuit should be separated from other circuits by at least twice the diameter of the cable or conduit and it should not be run through thermally insulating material or in locations where the ambient temperature is likely to exceed 30 °C. If any of these conditions are unavoidable it is necessary to determine the cable size which will prevent damage to the cable caused by overheating.

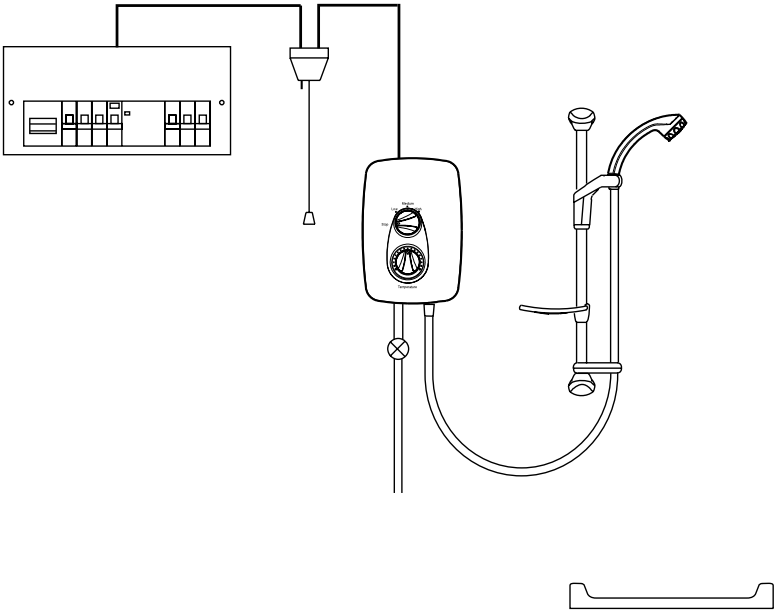
4. To obtain full advantage of the power provided by this unit the shortest possible cable route from the consumer unit to the shower should be used. The maximum permissible circuit length is dependent on current demand, voltage drop and cable size, refer to the IEE Wiring Regulations for further information.

As a guide only, the following maximum permissible lengths are given for 6 mm² cable protected by a 40A MCB type B and allowing for a 5 volt drop:

Mira Zest 7.5 kW (240 V AC) at 240 V - 22 Metres

Mira Zest 8.5 kW (240 V AC) at 240 V - 18 Metres

5. A 30 mA residual current device (RCD) should be fitted. This may be part of the consumer unit or a separate unit.
6. A separate, permanently connected supply must be taken from the consumer unit to the appliance through a double-pole switch, which has at least 3 mm contact separation. The switch can be a ceiling mounted pull-cord type within the shower room or a wall mounted switch in an adjacent room.
7. **DO NOT** twist the individual cable cores of the live and neutral conductors, as this will prevent them from entering the terminal block.
8. **DO NOT** exert strain on the terminal block.
9. **DO NOT** turn-on the electrical supply until the plumbing has been completed.



Plumbing and Electrical Schematic Diagram

Installation

Mira Zest 7.5 and 8.5

WARNING! Isolate the electrical and water supplies before proceeding with the installation of the appliance.

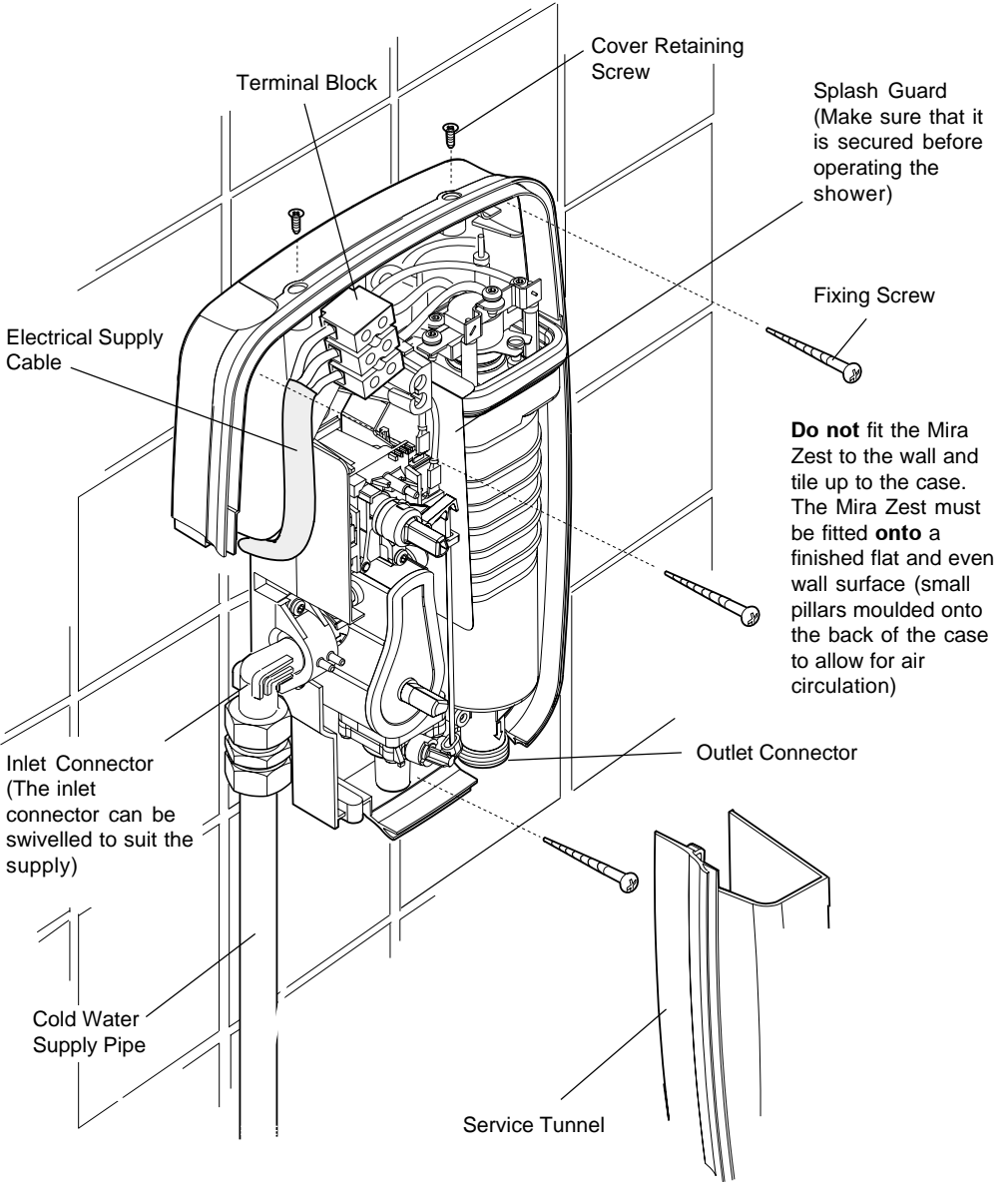
1. Decide on a suitable position for the appliance (minimum distance of 200 mm from the ceiling to allow for cover fit and removal). The position of the appliance and the shower fittings must provide a minimum gap of 25 mm between the spill-over level of the shower tray/bath and the handset. This is to prevent backsiphonage (refer to Figure 1).
2. Remove the three cover retaining screws.
3. Remove the cover.
4. Remove the service tunnel.
5. Determine the direction of the inlet water supply: top (falling), bottom (rising), or back inlet .

Note! Make sure that the back inlet does not go directly back into the wall and that you use a suitable compression fitting.

6. Remove as appropriate, the thinned sections of the appliance case, to allow the supplies to enter the product.
7. **Thoroughly flush the mains-fed cold water supply pipe. The supply must be clean and free from debris BEFORE connecting the appliance.**
8. Offer the appliance up to the wall and make sure that sufficient electrical supply cable is available for terminal block connection. Temporarily connect the mains-fed cold water supply pipe. Mark through the casing the position of the three fixing holes. Remove the appliance from the wall.
9. Drill and plug the three fixing holes. Secure the appliance to the wall with the screws provided. Alternative fixings (not supplied) may be necessary for some wall structures.
10. Install the mains-fed cold water supply pipe.
11. Make the connection to the mains-fed cold water supply pipe.
12. Bring the electrical supply cable into the case through one of the cable entry points.
13. Strip back sufficient of the outer cable insulation to enable routing to terminal block.
14. Fit an earth sleeve to the earth conductor. Connect the conductors firmly into the terminal block. Make sure that the bare cores of each conductor are securely trapped within each conductor clamp.

L	=	Red wire
N	=	Black wire
E	=	Yellow/Green sleeved wire.

15. Re-tighten the terminal block screws.
16. If necessary, fit an earth bonding clamp to the copper supply pipe and ensure bonding complies with relevant regulations in force at the time of installation.
17. Refit the cover. Fit the three cover retaining screws and tighten.



Installation of the Mira Zest

Commissioning

Commissioning

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

1. Make sure that the **TOP** control knob is in the '**STOP**' position and that the electrical supply has been isolated.
2. Turn the **BOTTOM** control knob fully anticlockwise to the full cold position.
3. Turn the water supply fully on at the isolating valve, check that water is not leaking from the bottom of the case.
4. Switch on the electrical supply at the double pole switch.
5. Turn the **TOP** control knob to the '**LOW**' position. Check that water flows freely from the shower within a few seconds. If not, refer to the **Maintenance** section. The water from the handset will be at full force and at a cool temperature.

Note! '**LOW**' selection can be achieved without electrical power.

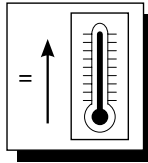
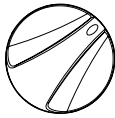
6. Turn the **BOTTOM** knob slowly clockwise. As the knob is rotated the flow will be reduced and the temperature will remain cool - this shows that the flow regulator assembly is operating correctly. Return the knob anticlockwise to full cold position.
7. Turn the **TOP** knob to the '**MEDIUM**' position. The temperature of the water should rise slightly. Allow a few seconds for the warm water to reach the handset - this shows that the '**MEDIUM**' power setting is operating correctly.
8. Turn the **TOP** knob to the '**HIGH**' position. The temperature of the water will rise further - this shows that the full power setting is operating correctly.
9. Set the shower temperature by rotating the **BOTTOM** knob as necessary. Turn the knob clockwise for hotter water and anticlockwise for cooler water.

Note! When the temperature is changed the flow rate will change.

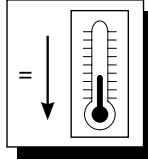
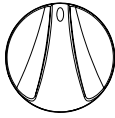
10. When the required temperature is reached, push the **STOP** button to stop the flow. Water will continue to flow from the handset for a few seconds, as water is purged from the tank. Isolate the power at the double pole switch.
11. A small amount of water may be retained in the shower fitting after the shower control has been turned off. This may drain over a few minutes.

Note! A slight hissing sound may be heard from the appliance during operation. High mains water pressure and high shower temperatures will effect the tone. This is quite normal when the shower is in use.

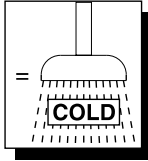
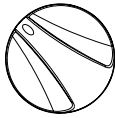
High Position



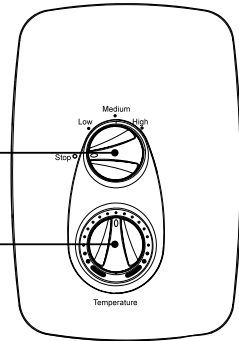
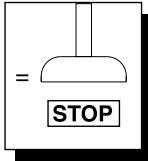
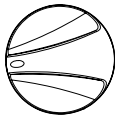
Medium Position



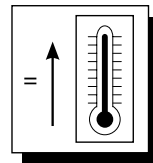
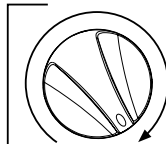
Low Position



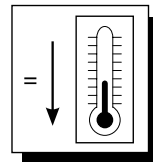
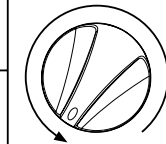
Stop Position



Select Shower Temperature
By Rotating Clockwise As
Necessary



Full Cold Position

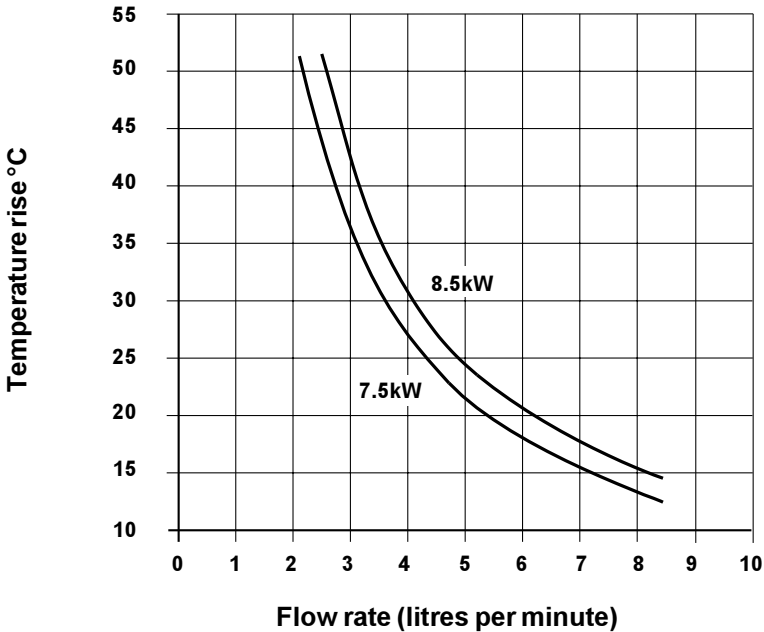


Operation

Advice to Users

1. Electric showers work by taking in cold water and passing it over the heating elements contained in the tank body of the shower.
2. The showering temperature is adjusted by turning the temperature control knob, which varies the flow of cold water across the elements. The slower the rate of flow, the warmer the water and vice versa. The holes in the spray plate of the shower handset should always be kept clean to maintain a consistent flow and stable shower temperatures.
3. The appliance is designed to stabilise temperature changes caused by water pressure fluctuations. These can result from taps being turned on or off or toilets being flushed. Under such conditions average shower temperatures will be held within a 6°C band, provided that the minimum required pressure is maintained.
4. Seasonal changes in the temperature of the incoming cold water supply and/or fluctuations in mains electrical voltage, will require the '**TEMPERATURE**' knob to be adjusted as necessary.
5. The appliance requires a minimum maintained/running pressure of 0.7 bar to operate. At pressures above 0.7 bar the appliance will minimise the temperature fluctuations caused when other draw-off points are used. If the flow rate drops below an acceptable value, the appliance will turn the heater elements off, resulting in a cold shower.
6. If the water temperature reaches an unsafe level, the thermal switch assembly turns off the heating elements. As the water temperature falls the elements will be turned on. The switch will cycle on/off/on if the flow rate is not increased and the temperature of the shower reduced.
7. Check the shower temperature before entering the shower. The previous user may have selected a **different** temperature setting.
8. When the shower is first turned on, or a different temperature is selected, there will be a slight delay before the water temperature changes.

Temperature rise versus flow rate for the Mira Zest range



- (a) These curves are for the specified outputs at 240V.
- (b) All appliance heating elements have a manufacturing tolerance. Thus flow rates can be above or below those indicated.
- (c) The left-hand scale is temperature rise. (Temperature rise = Showering temperature minus the incoming cold water temperature.)

Example: For the Mira Zest 8.5 kW on full power setting with an incoming water supply at 10°C and a showering temperature at 42°C, the temperature rise is 32°C. The flow rate is therefore, 4 l/min.

Mira Zest 7.5 and 8.5

Read the section '**Important Safety Information**' first.

THE SPRAY PLATE HOLES MUST BE KEPT CLEAR. The spray plate should be regularly removed and cleaned in descalent. Lack of regular spray plate cleaning will lead to poor performance and cause early failure of the appliance.

1. **Switch on** pullcord or wall mounted switch.
2. Rotate the **TOP** control knob to position '**HIGH**' (Full Power).
3. Wait **15-20** seconds for warm water to reach the handset.
4. If necessary turn the **BOTTOM** control knob slowly to adjust temperature. Allow **10-15** seconds for the adjusted temperature to reach the handset. The control knob operates through approximately $\frac{3}{4}$ of a turn from cold to hot. Clockwise rotation will give warmer water with less flow. Anticlockwise rotation will give cooler water with more flow.

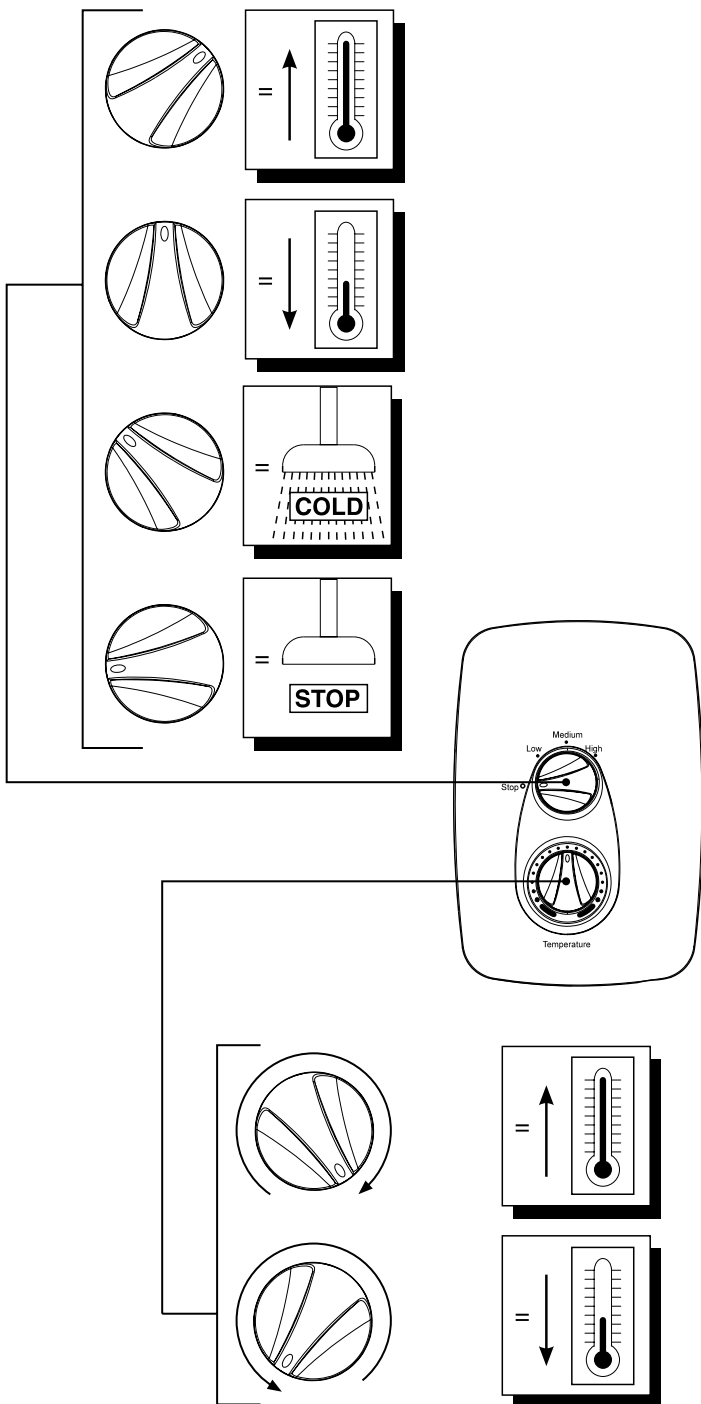
Note! Should the product alternate (Hot - Cold). Adjust the bottom control knob anti clockwise to reduce the temperature. This is normal operation if too high a water temperature is selected.

5. **TO TURN OFF** turn the **TOP** control knob anticlockwise to the '**STOP**' position.
6. A small amount of water may be retained in the shower fitting after the shower control has been turned off. This may drain over a few minutes.

(For summer economy showering use the '**MEDIUM**' (Half Power) position on the control. For a cold shower select '**LOW**'.

Note! '**LOW**' selection can be achieved without electrical power.

7. **Switch off** at the pull-cord or wall mounted switch.



Maintenance

General

Read the section “**Important Safety Information**” first.

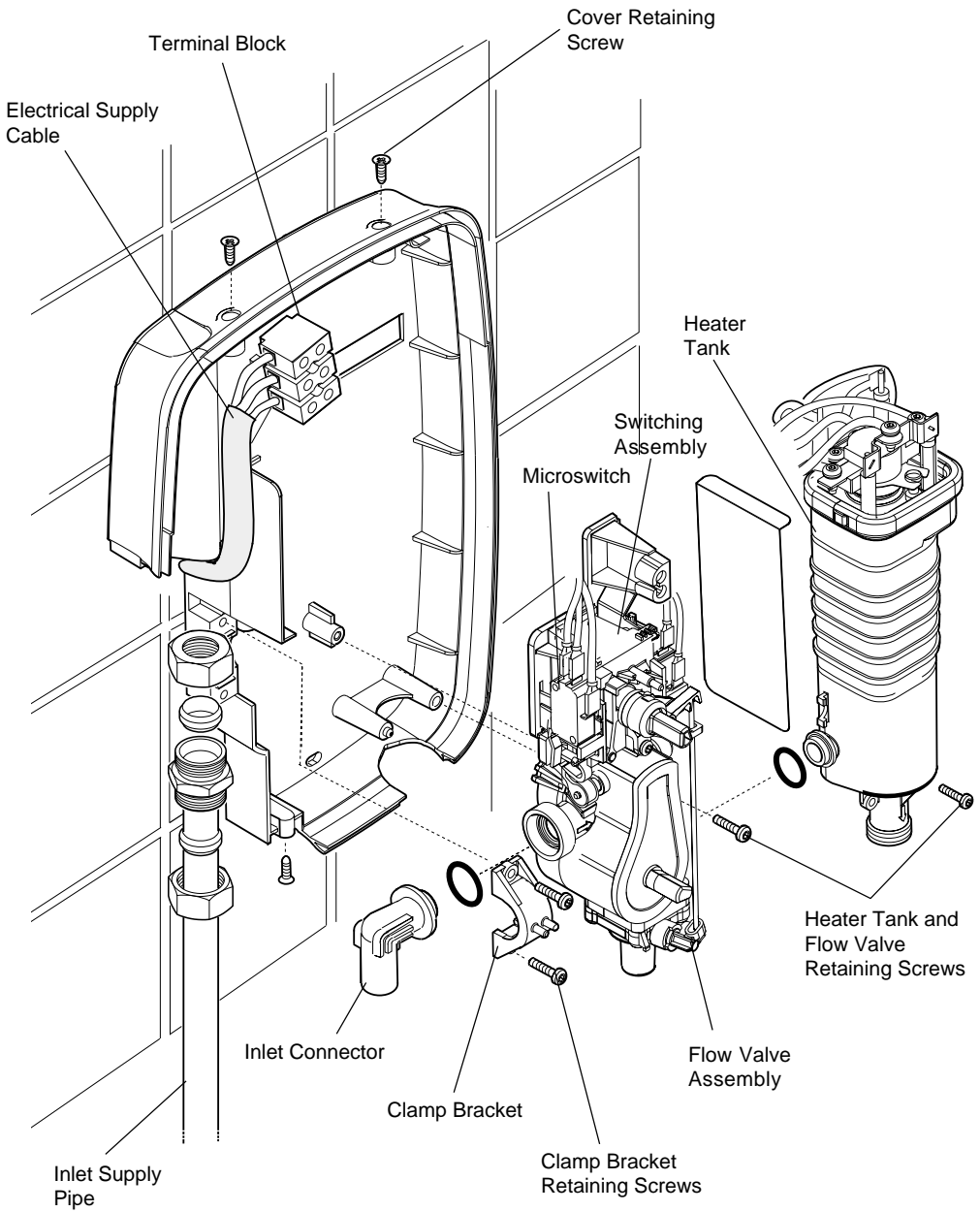
Providing the shower has been correctly installed and is operated in accordance with the instructions contained in this guide, difficulties should not arise. If any maintenance is required then it must be carried out by a competent tradesperson the maintenance instructions are provided. Before replacing any parts ensure that the underlying cause of the malfunction has been resolved.

WARNING! There are no user serviceable components beneath the cover of the appliance. Only a competent tradesperson should remove the cover.

Flow Valve and Switching Assembly - Removal and Installation

WARNING! Isolate the electrical and water supplies before removing the cover. Mains electricity connections are exposed when the cover is removed.

1. Remove the three cover retaining screws, the cover and the service tunnel.
2. Remove the hose from the outlet connector and loosen the connection to the inlet connector.
3. Remove the screw that holds the terminal block in position. This will give you sufficient room to carry out the procedure without disconnecting any mains electrical wiring.
4. Remove the splash guard which is located between the heater tank and the flow valve and switch assembly.
5. Remove the screws that hold the inlet clamp bracket in position and remove the clamp bracket.
6. Remove the screws that hold the flow valve assembly, switching assembly and heater tank in position.
7. Carefully pull the flow valve, switch assembly and heater tank away from the case. Make sure that you ease the inlet connector off the inlet supply pipe.
8. Remove the heater tank and the inlet connector assembly from the flow valve and switch assembly.
9. Remove the microswitches from the switching assembly.
10. Remove the flow valve and switching assembly. Remove the screw that holds the flow valve and switching assemblies and the two assemblies can now be separated.
11. Refit the components in reverse order. Make sure that the electrical wires are installed in the correct positions.



Flow Valve and Switch Assembly - Removal and Installation

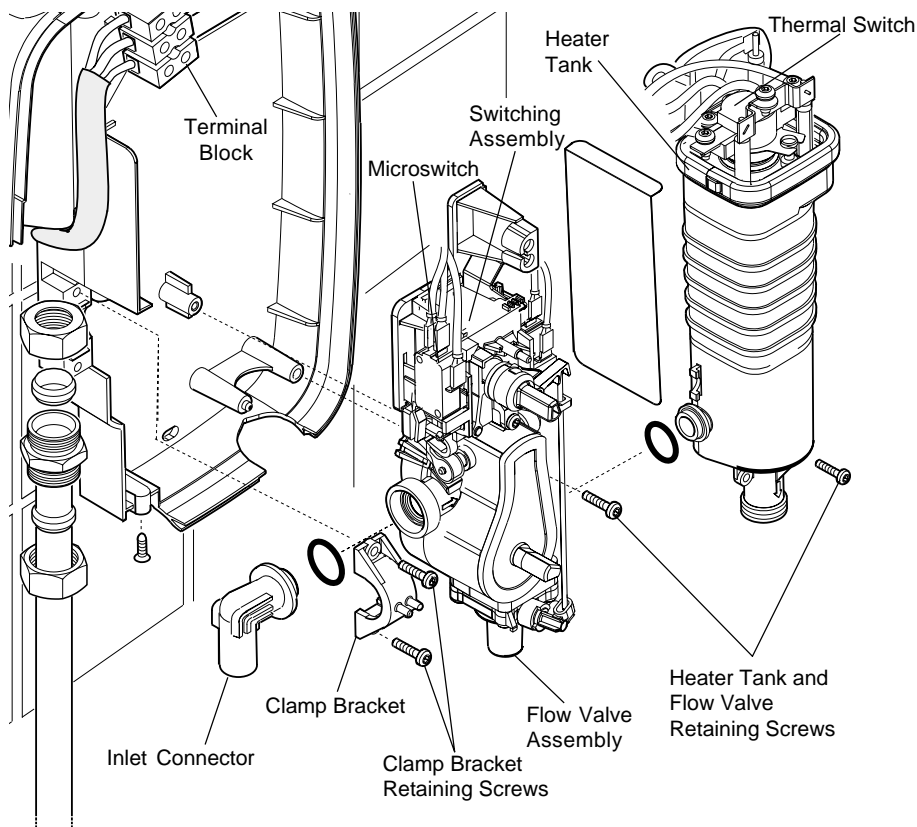
Heater Tank - Removal and Installation

WARNING! Isolate the electrical and water supplies before removing the cover. Mains electricity connections are exposed when the cover is removed.

1. Remove the three cover retaining screws, the cover and the service tunnel.
2. Remove the hose from the outlet connector and loosen the connection to the inlet connector.
3. To improve access to the terminals on top of the tank, the terminal block may be loosened by removing the fixing screw.
4. Remove the splash guard which is located between the heater tank and the flow valve and switch assembly.
5. Remove the screws that hold the inlet clamp bracket in position and remove the clamp bracket.
6. Remove the screws that hold the flow valve and switching assembly and the heater tank in position.
7. Carefully pull the flow valve, switching assembly and heater tank away from the case. Make sure that you ease the inlet connector off the inlet supply pipe.
8. Make a note of the positions of the wiring on top of the heater tank.
9. Remove the blue wire from the top of the heater tank.
10. Disconnect the red and black wires from the microswitches.
11. Remove the brown and red wires from one side of the thermal switch and the second brown wire from the other side of the thermal switch.

Caution! Do not press printed disc on the thermal switch as this will make the component unserviceable.

12. Remove the fixing screw and remove the thermal switch and green earth bonding wire.
13. Separate the heater tank from the flow valve and switching assembly.
14. Refit the components in reverse order. Make sure that the electrical wires are installed in the correct positions.



Heater Tank - Removal Installation

Thermal Switch - Removal and Installation

WARNING! Isolate the electrical and water supplies before removing the cover. Mains electricity connections are exposed when the cover is removed.

1. Remove the three cover retaining screws, the cover and the service tunnel.
2. Remove the hose from the outlet connector and loosen the connection to the inlet connector assembly.
3. To improve access to the top terminals of the tank the terminal block may be loosened by removing the fixing screw.
4. Remove the splash guard which is located between the heater tank and the switching assembly.
5. Remove the screws that hold the inlet clamp bracket in position and remove the clamp bracket.
6. Remove the screws that hold the flow valve and switching assembly and the heater tank in position.

7. Carefully pull the flow valve and switch assembly and the heater tank away from the case. Make sure that you ease the inlet connector off the inlet supply pipe.
8. Remove the brown and red wires from one side of the thermal switch and the second brown wire from the other side of the thermal switch.
9. Remove the fixing screw and remove the thermal switch and green earth bonding wire.

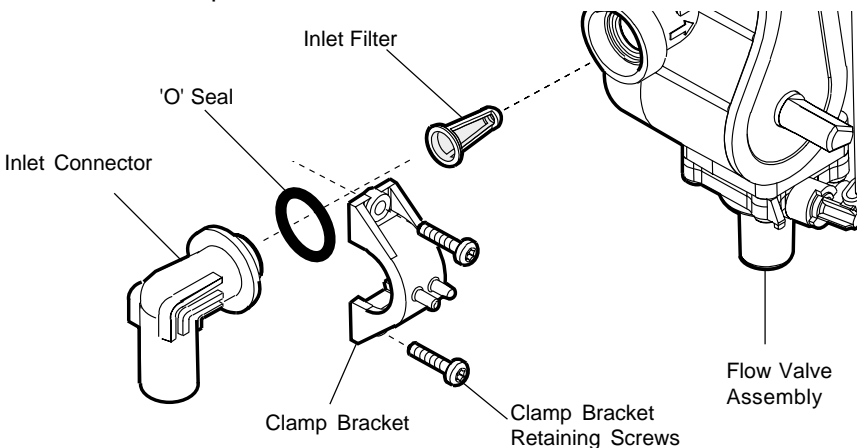
Caution! Do not press printed disc on the replacement thermal switch as this will make the component unserviceable.

10. Refit the components in reverse order. Make sure that the electrical wires are installed in the correct positions.

Inlet Filter - Replacement

WARNING! Isolate the electrical and water supplies before removing the cover. Mains electricity connections are exposed when the cover is removed.

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. Loosen the screws that hold the flow valve and switching assembly and the heater tank in position.
4. Carefully pull the flow valve and switching assembly and the heater tank away from the case. Make sure that you ease the inlet connector off the inlet supply pipe.
5. Pull off the inlet connector complete with 'O' seal. Use a suitable tool to withdraw the inlet filter. Discard the inlet filter.
6. Renew the inlet filter.
7. Refit the components in reverse order.



Inlet Filter - Replacement

Fault Diagnosis

Fault Diagnosis

WARNING! There are no user serviceable components beneath the cover of the appliance. Only a competent tradesperson should remove the cover.

The trouble shooting information tabled below gives details on what you can do as a user without removing the cover should you encounter difficulties whilst operating the shower.

Note! Should these remedies prove to be unsuccessful in solving your problem, contact your installer for advice.



Malfunction	Cause	Remedy
No water or very low flow rate.	Handset sprayplate blocked.	Remove & clean (Refer to Maintenance in the I,O& M guide for the fittings).
	Incoming water supply stop valves or appliance isolating valve turned down or off.	Turn stop/isolating valve to the fully on position.
	Hose or Handset blocked	Clear blockage or renew
Appliance fails to produce hot water in any switch position.	Electrical supply isolated at double pole switch (the pullcord).	Switch on electrical supply via the double pole switch.
	Fuse blown or MCB/RCD tripped indicating possible electrical fault.	Renew the fuse or reset the MCB/RCD. If fault persists, contact your installer.
Shower cycles from hot to cold.	The temperature knob is positioned at an unsafe level causing the appliance thermal trip to operate and cut the power to the heater tank.	Turn the temperature knob sufficiently anti clock-wise to increase water flow and reduce temperature.

(Continued)

Malfunction	Cause	Remedy
(Continued)	<p>Handset sprayplate blocked.</p> <p>Other outlets being used whilst showering, causing water pressure to drop below minimum required to operate appliance.</p> <p>Water pressure below minimum required for appliance operation.</p>	<p>Remove and clean (Refer to Maintenance in the I,O& M guide for the fittings).</p> <p>Ensure other outlets e.g. bath, washing machine or dishwasher are not in use whilst showering.</p> <p>Ensure incoming water supply stopcock and or appliance isolating valve turned fully on. If fault still persists contact your installer.</p>
Unable to select a cool enough shower during summer months.	Due to the rise in water mains supply temperature, the power rating may be too high.	Turn the TOP knob to the MEDIUM position and re-adjust temperature knob until suitable temperature is achieved.
Operation of temperature knob has little or no effect on water temperature.	Handset sprayplate blocked.	Remove Handset and clean (refer to the Maintenance in the I,O& M guide for the fittings). If fault still persists contact your installer.
Water still flows when electrical supply is isolated.	Shower has not been turned off at appliance control knob.	The shower must be turned off at the appliance. Water flow isolation is manually operated not electrical.

Spare Parts

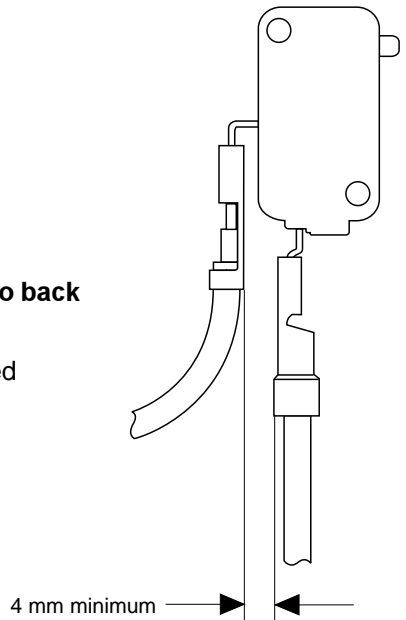
1. Mira Zest Spare Parts List

416 15	Cover Assembly
416 36	Heater Tank - 7.5 kW
416 37	Heater Tank - 8.5 kW
416 38	Clamp Bracket
416 41	Thermal Switch
416 42	Cover Seal
416 43	Splash Guard
416 44	Screw Pack - components identified 'A'
416 47	Inlet Connector
416 58	Case and Tunnel
416 63	Service Tunnel
416 65	Component Pack - components identified 'B'
417 46	Microswitch N/O - 2 pin
417 47	Flow Valve Assembly (with actuator) 
417 48	Switching Assembly (with actuator) 
417 49	Terminal Block Assembly
872 28	3 pin Microswitch

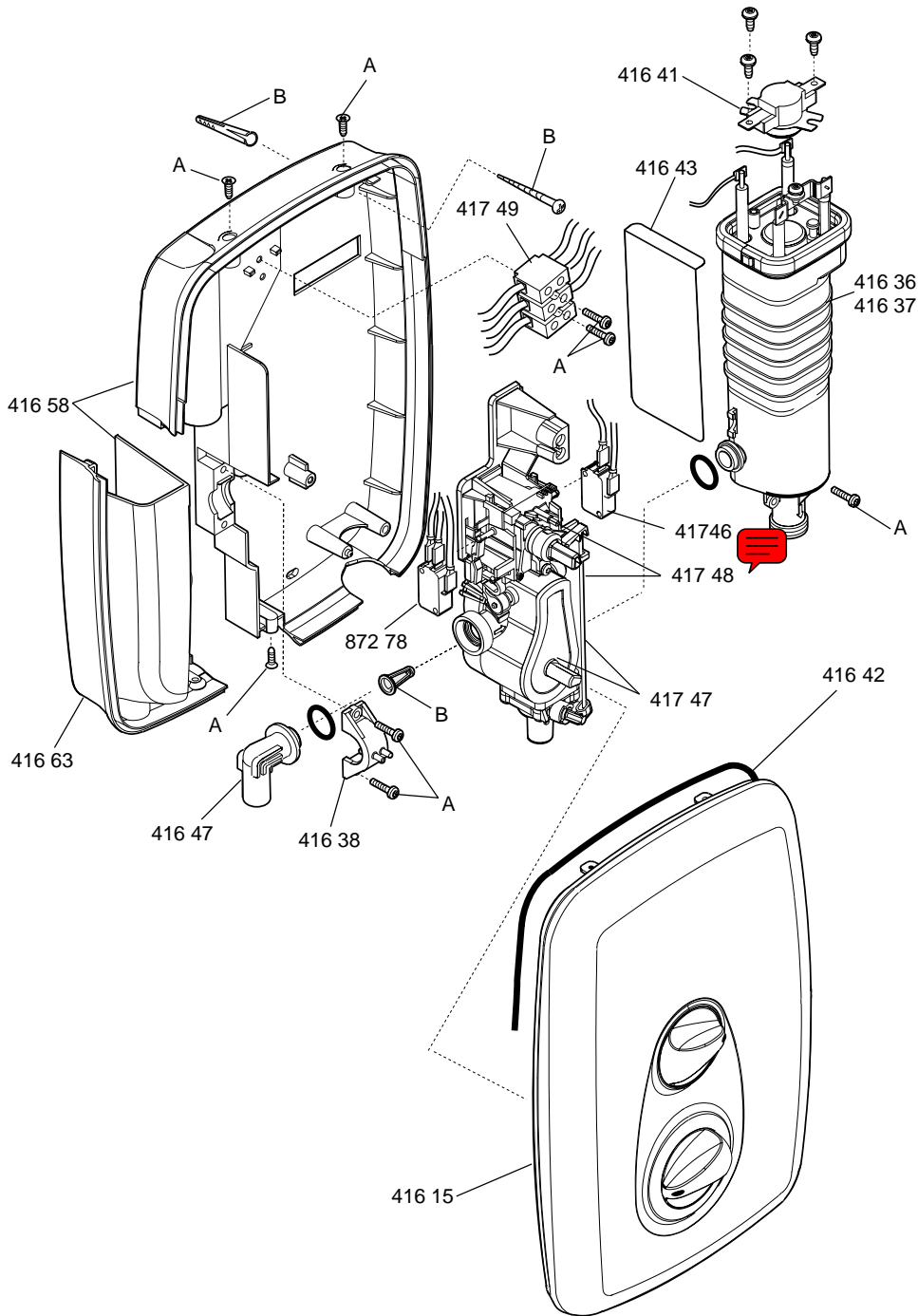
Important Note!

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

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

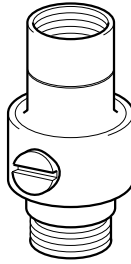


2. Mira Zest Spare Parts Diagram



Accessories

DCV-H: An outlet double check valve, designed to prevent the backflow or backsiphonage of potentially contaminated water, through shower controls which are fitted with a flexible hose as part of the outlet shower fitting. The inclusion of the Mira DCV-H will increase the required supply pressure typically by 0.1 bar. Available as an optional accessory from your Mira stockist.



DCV-H Outlet double check valve

Notes

Customer Service

Guarantee

Caradon Plumbing Solutions guarantee this product against any defect of materials or workmanship for one year (three years for the Mira Excel thermostatic range) from the date of purchase, provided that the product has been installed correctly and used and maintained in accordance with the instructions supplied.

Any part found to be defective during the guarantee period will be replaced or repaired – at our option – without charge, provided that the product has been properly used and maintained.

The product should not be taken apart, modified or repaired except by a person authorised by Caradon Plumbing Solutions.

Your statutory rights are in no way affected by this guarantee.

After Sales Service – how we can help you

Caradon Plumbing Solutions have a team of expert staff ready to provide assistance, should you experience any difficulty with your Mira shower.

The Caradon Plumbing Solutions Customer Services is available to give you advice on any problem encountered. Should the problem be unable to be resolved by advice, we will offer either a replacement part to be sent to you, or for one of our Service Engineers or Agents to call.

Spare Parts

At Caradon Plumbing Solutions we keep a stock of all functional parts of our products for up to ten years from the date of final manufacture of the product.

If during that period, our stock of a particular part is exhausted we will, as an alternative, provide an equivalent new product or part at a price equating to the cost of repair to the old, bearing in mind the age of the product.

Caradon Plumbing Solutions will normally despatch spare parts within two working days and by 1st class post. In the interests of customer safety, spares that require exposure to areas of mains voltage can only be sent to a competent person.

Payment for such parts – if applicable – can be made by Visa or Access over the phone at the time of ordering. Should payment by cheque be preferred a pro forma invoice will be sent.

Customer Care Policy

If within a short time of installation the product does not function correctly, first check with the Installation, Operation and Maintenance Guide to see if the difficulty can be overcome by simple home maintenance.

Failing this, contact your installer to ensure that the product has been installed and commissioned in full accord with our detailed installation instructions. Our Customer Services is available, on the number shown below, to advise you or your installer.

If this does not resolve the difficulty, contact our Customer Services who will give every assistance and, if appropriate, arrange for our local Service Engineer or Agent to call on a mutually agreeable date.

If, through circumstances beyond our control, we are unable to provide this cover we will, with prior agreement, authorise a competent local installer to attend.

Within the Guarantee period there will be no charge for the parts or labour insofar as a fault with our product is concerned. However, it is important to appreciate that our Guarantee extends to our product only and that it does not cover difficulties arising from incorrect installation or misuse.

During a Service visit a responsible person – familiar with the purpose of the visit – should be present. Should our Service Engineer or Agent be unable to gain access at the pre-arranged time a callout charge may be made.

Payment for Service visits, if applicable, should be made directly to the Service Engineer or Agent, using either Visa, Access or a cheque supported by a banker's card.

To contact us:- For England, Wales and Scotland

Telephone **01242 262888**
and ask for **Caradon Plumbing Solutions Customer Services**

- For advice on product maintenance
- To order spare parts
- To arrange a service visit
- For product advice and problem solving
- To order Installation, Operation and Maintenance Guides
- For your feedback on our products or services

By Fax: (01242) 282595

By Post: Caradon Plumbing Solutions, Cromwell Road
Cheltenham, Gloucestershire, GL52 5EP.

For Northern Ireland

By Phone: 02890 401909 – Monday to Friday 9am–5pm

By Fax: 02890 401235 – 24 Hours

By Post: Wm. H. Leech & Son Ltd., Unit 3,
34, Montgomery Road, Belfast, BT6 9HL.

For Eire

By Phone: Dublin 01 4591344 – Monday to Friday 9am–5pm

By Fax: Dublin 01 4592329 – 24 Hours

By Post: Modern Plant Ltd, Otter House, Naas Road,
Clondalkin, Dublin 22, Eire.

Mira Showers

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The company reserves the right to alter product specifications without notice.

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SHOWERS