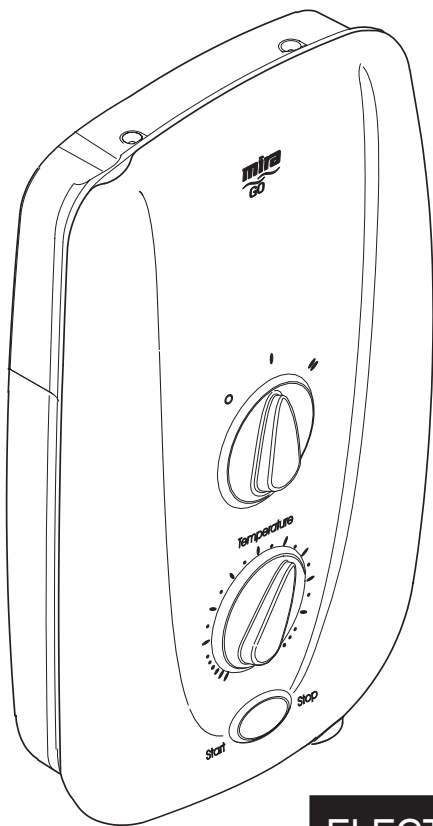


8.5 kW

***mira***  
GO



## ELECTRIC SHOWERS

Installation

Operation &

Maintenance Guide

THESE INSTRUCTIONS ARE TO BE LEFT WITH THE USER

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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.

A range of electric showers having 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.

**Mira Go 8.5** - A 8.5 kW 240 V AC heater with a Mira React adjustable spray handset with three different spray actions (Start, Soothe and Force). Supplied complete with flexible hose, adjustable clamp bracket assembly, soap dish, slide bar and supports and hose retaining ring. Available in all 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 Mira Showers. Our telephone and fax numbers can be found on the back cover of this guide.

## 1. 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. ENSURE SUPPLEMENTARY BONDING COMPLIES WITH THE "REQUIREMENTS FOR ELECTRICAL INSTALLATIONS".**

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 located on the heater tank. A service exchange heater tank 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 heater tank body. Only Mira recommended outlet fittings should be used.
- 1.8. There are no user serviceable components beneath the cover of the Mira Go. Only a competent tradesperson should remove the cover.
- 1.9. In the unlikely event of any of the following conditions occurring, turn off 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 or cover 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.** Turn off the electrical and water supplies before removing the cover. The electricity must be turned off at the mains and the appropriate circuit fuse removed, if applicable.

**Caution!** Mains connections are exposed when the cover is removed.

**1.11.** Refer to the wiring diagram before making any electrical connections (refer to Section 5).

**1.12.** Ensure all electrical connections are tight, to prevent overheating.

## **2. 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” (refer to Section 7) 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 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.

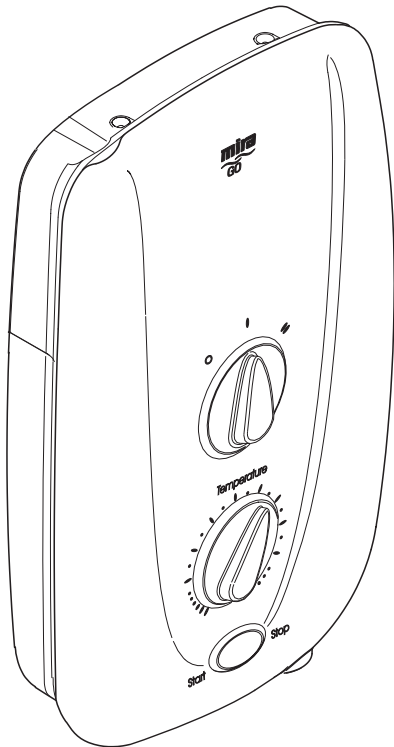
- 2.7.** Anyone who may have difficulty understanding or operating the controls of any shower should be attended whilst showering. Particular consideration should be given to the young, the elderly, the infirm, or anyone inexperienced in the correct operation of the controls.
- 2.8.** When this appliance 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.



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

## 1. Mira Go 8.5

1 x Mira Go 8.5



3 x Wall Plug



3 x Fixing Screws



## 2. Documentation

1 x Installation, Operation and Maintenance Guide

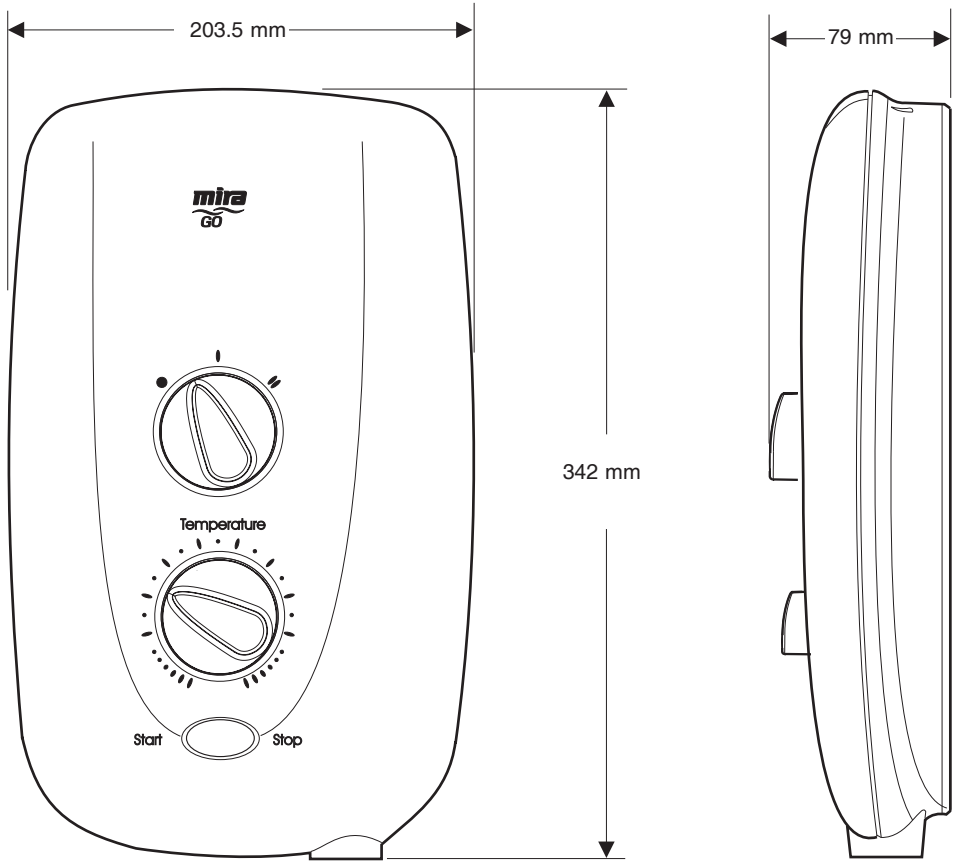


1 x Installation Template



1 x Customer Support Brochure









## 1. Plumbing

- 1.1. Minimum maintained inlet pressure 0.7 bar for satisfactory operation.
- 1.2. Maximum static inlet pressure 10 bar.
- 1.3. Minimum static pressure 0.2 bar to maintain product shut-off.

## 2. Electrical

- 2.1. The Mira Go requires a 40 Amp fuse in the consumer unit.
- 2.2. The terminal block will not accept cable larger than 10 mm<sup>2</sup>.

## 3. Standards and Approvals

- 3.1. This Mira Go complies with all relevant directives for CE marking.

## 1. Plumbing

- 1.1. The Mira Go is designed to operate with a minimum **maintained inlet pressure of 0.7 bar** up to a **maximum static inlet pressure of 10 bar**.
- 1.2. The Mira Go 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. If you can only cistern feed your shower and you do not have a 7 metre head required for correct operation, Mira produce a pumped electric shower (Elite 2) designed for this particular application.
- 1.3. The Mira Go 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.

- 1.4. The Mira Go is fitted with a plastic inlet connector intended to connect to a 15 mm compression fitting (not supplied) from the top, bottom or back.
- 1.5. **Do not** fit the Mira Go to the wall and tile up to the case. The Mira Go must be fitted **on to** a finished flat and even wall surface (this wall surface should be tiled or waterproofed). 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).
- 1.6. Refrain from applying excessive force when making any connections. Always provide mechanical support when making the plumbing connections.
- 1.7. **Do not install the Mira Go in a position where it may become frozen.** The shower unit must not be fitted where it may be exposed to freezing conditions. Do not operate the unit if suspected of being frozen.
- 1.8. 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 Mira Go. **Do not** use a valve with a loose washer plate (jumper) as this can lead to a build up of static pressures.
- 1.9. To avoid damage to the case when soldered fittings are used, pre-solder the pipework and fittings before connecting them to the inlet connector assembly.
- 1.10. The Mira Go is fitted with a ½ " BSP male outlet thread, to accept a Mira shower hose.
- 1.11. Supply pipework **MUST** be flushed to clear debris before connecting the Mira Go. **Debris will reduce the performance of the unit.**
- 1.12. 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. Mira Go 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.
- 1.13. 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.

1.14. Avoid layouts where the shower hose will be sharply kinked. This may reduce the life of the hose.

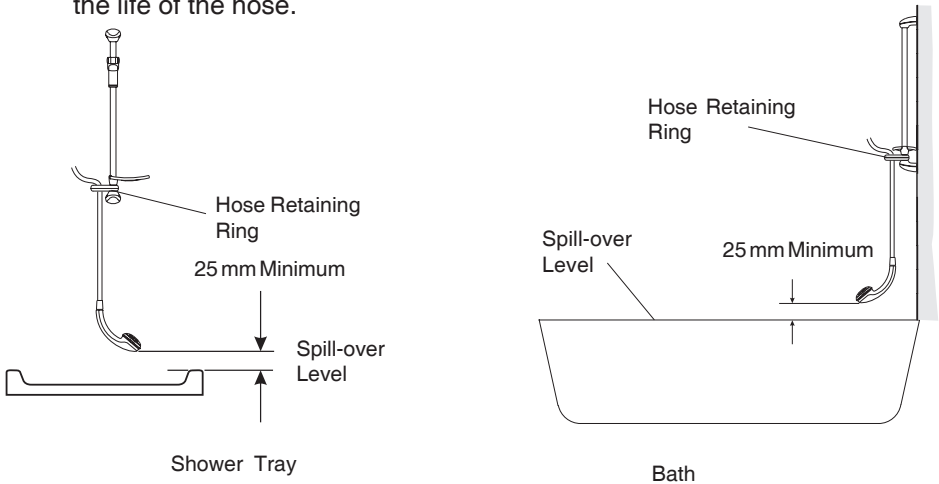


Figure 1

## 2. Electrical

Read the section "Important Safety Information" first.

- 2.1. In a domestic installation, the rating of the electricity supply fuse and the consumer unit must be adequate for the additional demand. As this Mira Go is a high power unit, it is essential to contact your electricity supply company to ensure that the supply is adequate for the Mira Go. Voltage drop due to local heavy demand will reduce the shower's performance.
- 2.2. The Mira Go **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 (metal parts) that are likely to introduce earth potential, must be electrically bonded to earth using a minimum cable size of 4.0 mm<sup>2</sup> if the cable is not mechanically protected (2.5 mm<sup>2</sup> if mechanically protected).

- 2.3. The minimum cable size (cross-sectional area) required is 6 mm<sup>2</sup> 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.

**2.4.** 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 mm<sup>2</sup> cable protected by a 40A MCB type B and allowing for a 5 Volt drop:

Mira Go 8.5 kW (240 V AC) at 240 V - 19 Metres

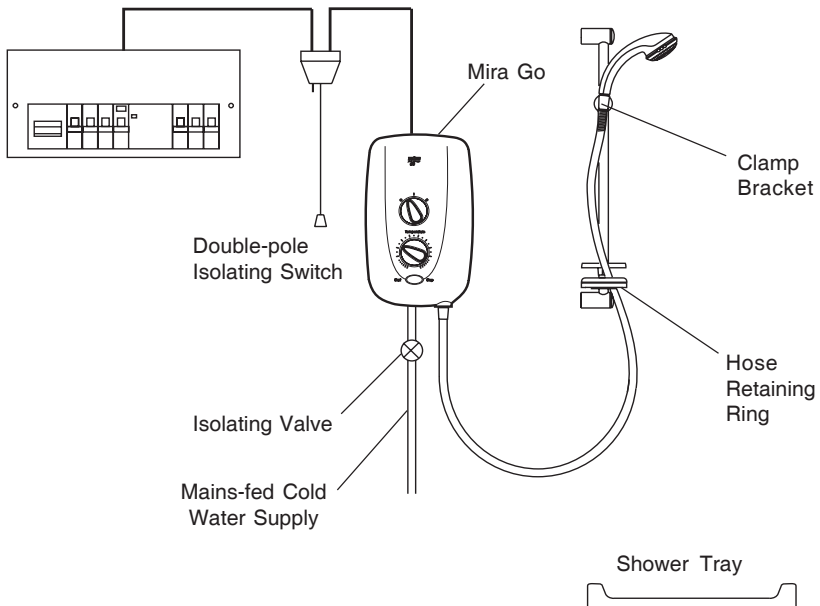
**2.5.** A 30 mA residual current device (RCD) should be fitted. This may be part of the consumer unit or a separate unit.

**2.6.** A separate, permanently connected electrical supply must be taken from the consumer unit to the Mira Go 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.

**2.7. DO NOT** twist the individual cable cores of the live and neutral conductors, as this will prevent them from entering the terminal block.

**2.8. DO NOT** exert strain on the terminal block.

**2.9. DO NOT** turn-on the electrical supply until the plumbing has been completed and the cover replaced.



**Plumbing and Electrical Schematic Diagram**

## 1. Mira Go

**Warning!** Turn off the electrical and water supplies before proceeding with the installation of the Mira Go. The electricity must be turned off at the mains and the appropriate circuit fuse removed, if applicable.

**Note! An installation template is supplied to help you install the Mira Go.**

- 1.1. Decide on a suitable position for the Mira Go (minimum distance of 200 mm from the ceiling to allow for cover fit and removal). The position of the Mira Go 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, Section 7).
- 1.2. Remove the three cover retaining screws.
- 1.3. Remove the cover.
- 1.4. Remove the service tunnel.
- 1.5. Determine the direction of the inlet water supply: top (falling), bottom (rising), or back inlet .

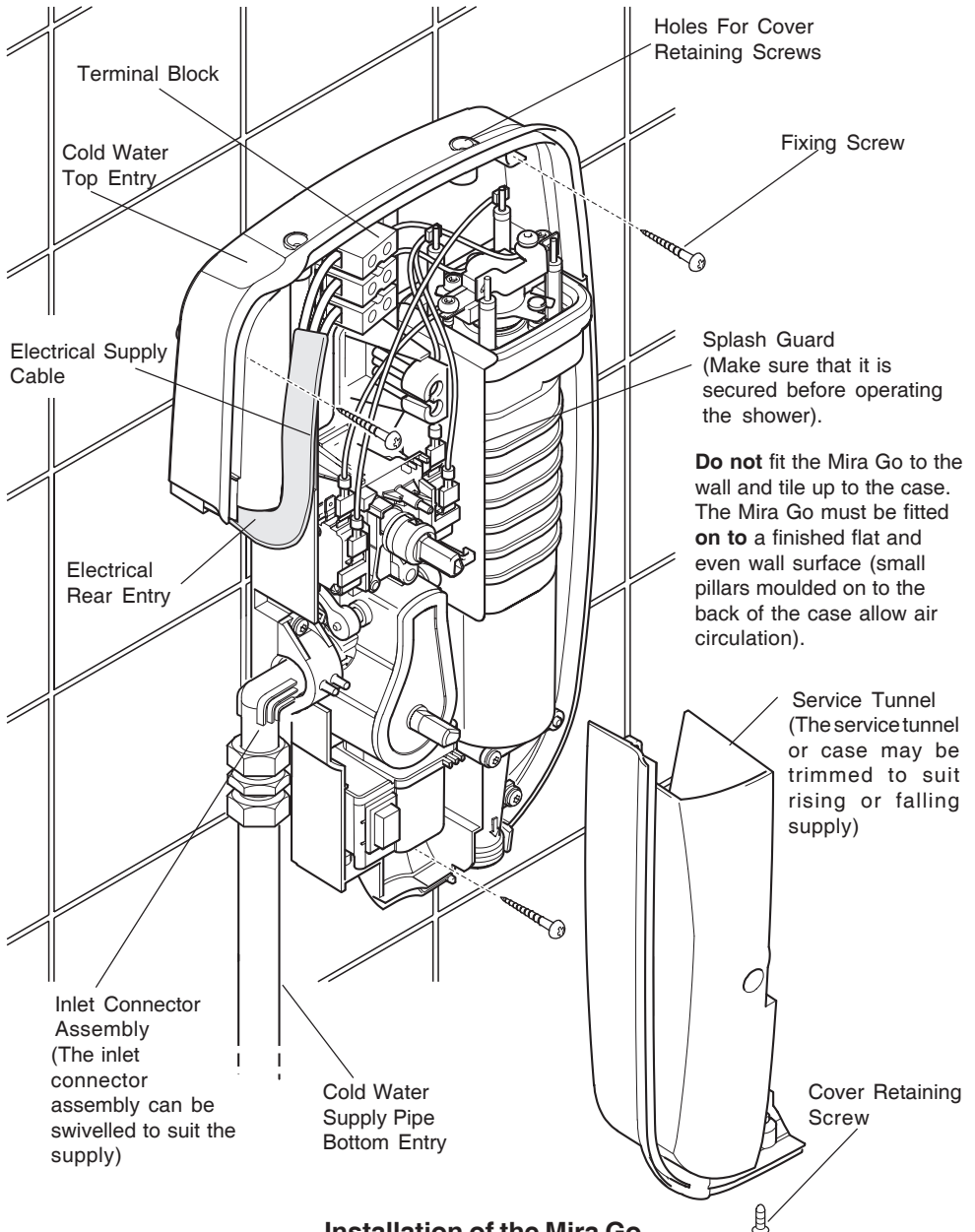
**Note!** Make sure that the back inlet does not go directly back into the wall. Use a soldered elbow.

**Warning!** To avoid damage to the case when soldered fittings are used, pre-solder the pipework and fittings before connecting them to the inlet connector assembly.

- 1.6. Swivel the inlet connector assembly to suit. Remove the inlet blanking cap.
- 1.7. Remove as appropriate, the thinned sections of the Mira Go case, to allow the supplies to enter the product.
- 1.8. **Thoroughly flush the mains-fed cold water supply pipe. The supply must be clean and free from debris BEFORE connecting the Mira Go.** To flush the pipework, turn on the water supply and drain a minimum of 10 litres (2 gallons) of water into a bucket or catchment area. Turn off the water supply.
- 1.9. Put the installation template on the wall and mark through the positions of the fixing holes. Ensure the position of these holes do not come in line with any buried cables or pipework. Make sure that sufficient electrical supply cable is available for connection to the terminal block.

**1.10.** Drill and plug the top two fixing holes. Secure the Mira Go to the wall with the screws provided. Drill the bottom fixing hole with the product in place. Alternative fixings (not supplied) may be necessary for some wall structures. Avoid drilling into any supply cable/pipe.

**1.11.** Install the mains-fed cold water supply pipe.



### Installation of the Mira Go

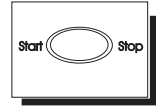
- 1.12.** Make the connection to the mains-fed cold water supply pipe.
- 1.13.** Bring the electrical supply cable into the case through one of the cable entry points.
- 1.14.** Strip back sufficient of the outer cable insulation to enable routing to terminal block.
- 1.15.** Fit an earth sleeve to the 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.
- 1.16.** Re-tighten the terminal block screws.
- 1.17.** If necessary, fit an earth bonding clamp to the copper supply pipe and ensure bonding complies with the relevant regulations in force at the time of installation.
- 1.18.** Refit the cover. Fit and tighten the three cover retaining screws.
- 1.19.** Fit the shower fittings. Refer to separate instructions.



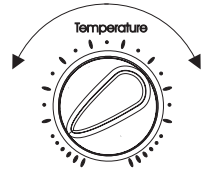
## 1. Pre-testing Your Mira Go

If you are unsure how electric showers work, please read through, **Section 11, Operation** before continuing.

- 1.1. Make sure that the electrical supply is turned off at the mains.



- 1.2. Turn the **BOTTOM** control knob fully anticlockwise to the full cold position.



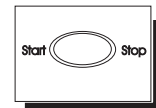
- 1.3. Turn the water supply fully on at the isolating valve, check that water is not leaking from the bottom of the case.

- 1.4. Turn the **TOP** control knob to the low position.

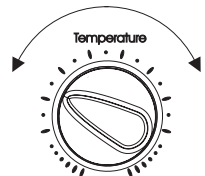


- 1.5. Switch on the electrical supply at the double pole isolation switch.

- 1.6. Press the **START** button. Check that water flows freely from the shower within a few seconds. If not refer to **Section 10, Maintenance**. The water from the handset will be at full force and at a cool temperature.



- 1.7. 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.



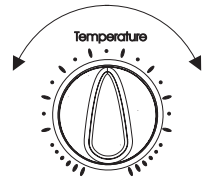
- 1.8. Turn the **TOP** knob to the medium position. The temperature of the water should rise slightly. Allow a few seconds for the warm water to reach the handset - this shows that the **MEDIUM** power setting is operating correctly.



- 1.9. 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.

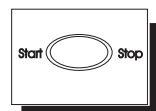


- 1.10. Set the shower temperature by rotating the **BOTTOM** knob as necessary. Turn the knob clockwise for hotter water and anticlockwise for cooler water.



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

- 1.11. 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.



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

## 1. 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 for whom 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.

## 2. Cleaning

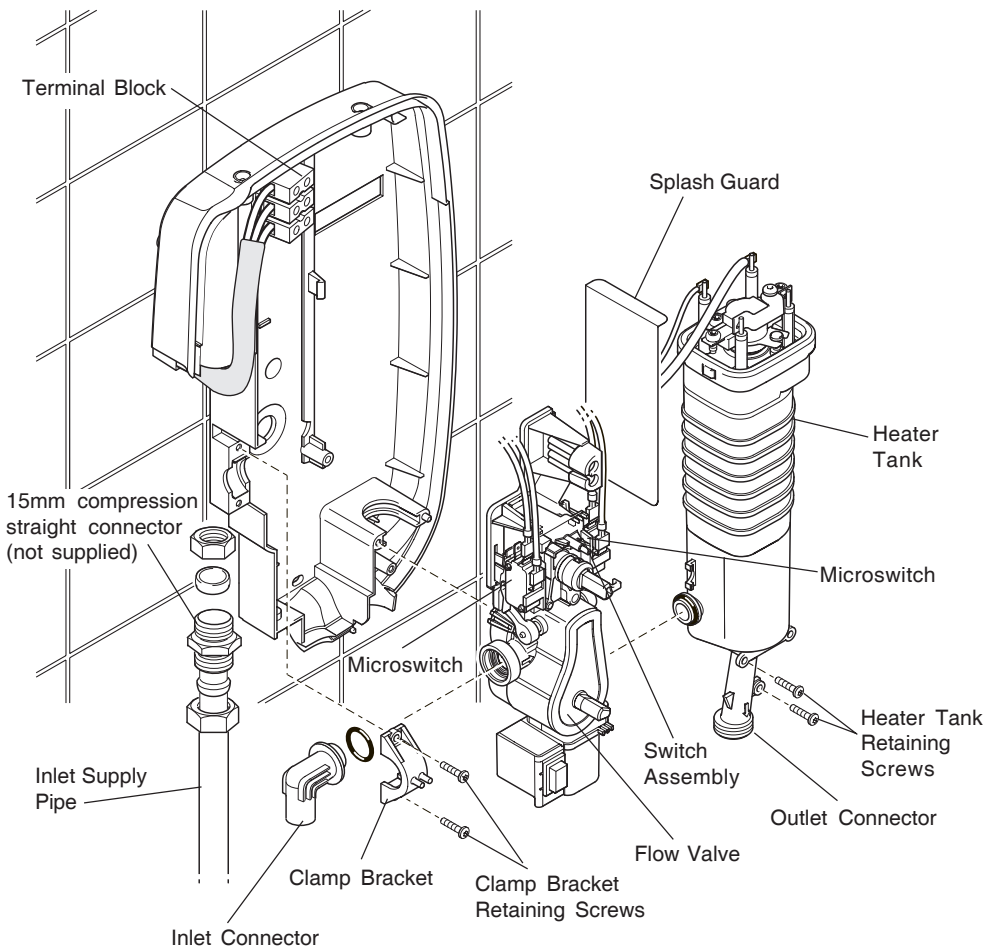
Many household cleaners contain abrasives and chemical substances, and should not be used for cleaning plated or plastic fittings. These finishes should be cleaned with a mild washing up detergent or soap solution, and then wiped dry using a soft cloth.

## 3. Flow Valve and Switch Assembly - Removal and Installation

**WARNING!** Make sure that the electrical supply is turned off at the mains and the appropriate circuit fuse is removed. Mains electrical connections are exposed when the cover is removed. Turn off inlet water supply.

- 3.1. Remove the three cover retaining screws, the cover and the service tunnel.
- 3.2. Remove the hose from the outlet connector and loosen the connection to the inlet connector assembly.
- 3.3. 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.
- 3.4. Remove the screws that hold the inlet clamp bracket in position and remove the clamp bracket.
- 3.5. Remove the screws that hold the flow valve, switch assembly and heater tank in position.
- 3.6. Carefully pull the flow valve, switch assembly and heater tank away from the case. Make sure that you ease the inlet connector assembly off the inlet supply pipe.
- 3.7. Remove the outlet connector from the heater tank.

- 3.8. Remove the heater tank and the inlet connector assembly from the flow valve and switch assembly.
- 3.9. Remove the microswitches from the flow valve and switch assembly.
- 3.10. Make a note of the positions of the solenoid wires on top of the heater tank. Remove the solenoid wires.
- 3.11. Remove the flow valve and switch assembly.
- 3.12. 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

## 4. Heater Tank - Removal and Installation

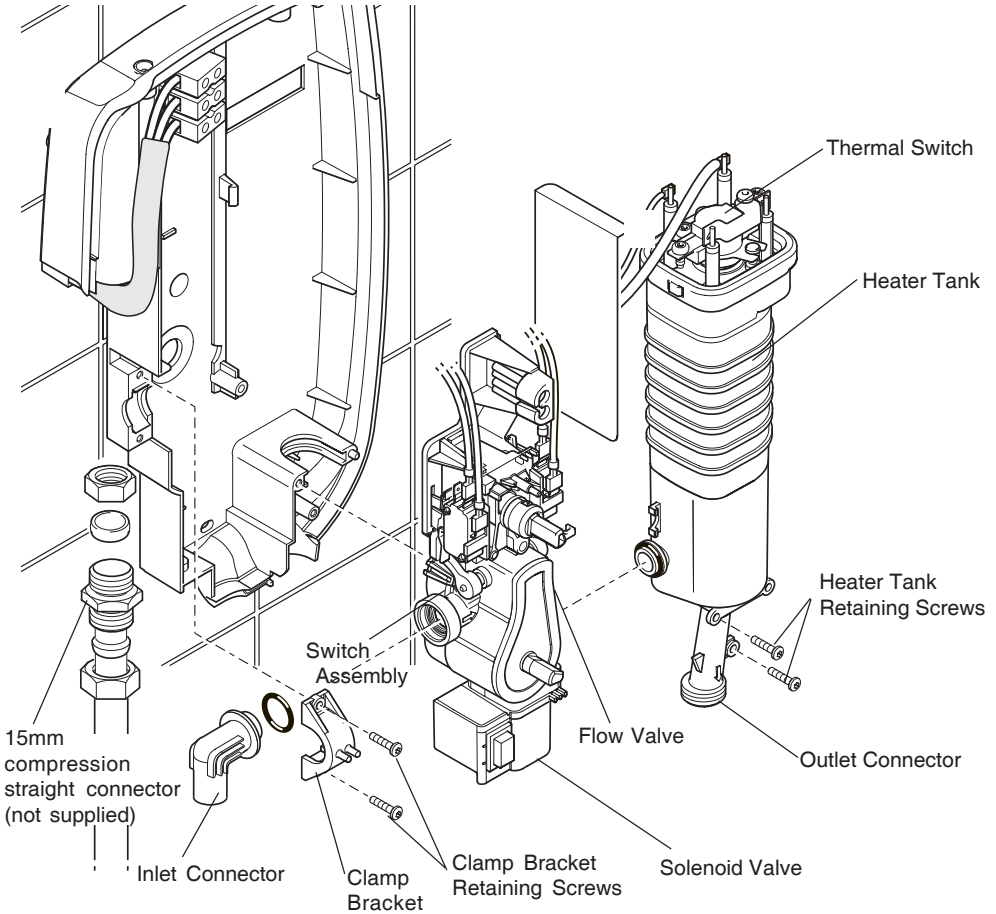
**Warning!** Make sure that the electrical supply is turned off at the mains and the appropriate circuit fuse is removed. Turn off inlet water supply.

- 4.1. Remove the three cover retaining screws, the cover and the service tunnel.
- 4.2. Remove the hose from the outlet connector and loosen the connection to the inlet connector assembly.
- 4.3. To improve access to the terminals on top of the tank, the terminal block may be loosened by removing the fixing screw.
- 4.4. Remove the screws that hold the inlet clamp bracket in position and remove the clamp bracket.
- 4.5. Remove the screws that hold the flow valve and switch assembly and the heater tank in position.
- 4.6. Carefully pull the flow valve, switch assembly and heater tank away from the case. Make sure that you ease the inlet connector assembly off the inlet supply pipe.
- 4.7. Make a note of the positions of the wiring on top of the heater tank.
- 4.8. Remove the blue wire and associated solenoid wires from the top of the heater tank.
- 4.9. 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.

- 4.10. Remove the fixing screw then remove the thermal switch and green earthing bonding wire.
- 4.11. Remove the red and black tank wires from the microswitches.
- 4.12. Separate the heater tank from the flow valve and switch assemblies.
- 4.13. Remove the outlet connector from the heater tank.
- 4.14. Refit the components in reverse order. Make sure that the electrical wires are installed in the correct positions. In Particular the green earth bonding wire must be reconnected above the thermal switch flange.

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



### Heater Tank - Removal and Installation

## 5. Thermal Switch - Removal and Installation

**Warning!** Make sure that the electrical supply is turned off at the mains and the appropriate circuit fuse is removed. Mains electrical connections are exposed when the cover is removed.

- 5.1.** Remove the three cover retaining screws, the cover and the service tunnel.
- 5.2.** Remove the hose from the outlet connector and loosen the connection to the inlet connector assembly.
- 5.3.** To improve access to the top terminals of the tank the terminal block may be loosened by removing the fixing screw.

- 5.4. Remove the screws that hold the inlet clamp bracket in position and remove the clamp bracket.
- 5.5. Remove the screws that hold the flow valve, switch assembly and heater tank in position.
- 5.6. Carefully pull the flow valve, switch assembly and heater tank away from the case. Make sure that you ease the inlet connector assembly off the inlet supply pipe.
- 5.7. 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.
- 5.8. Remove the fixing screw then remove the thermal switch and green earth bonding wire.

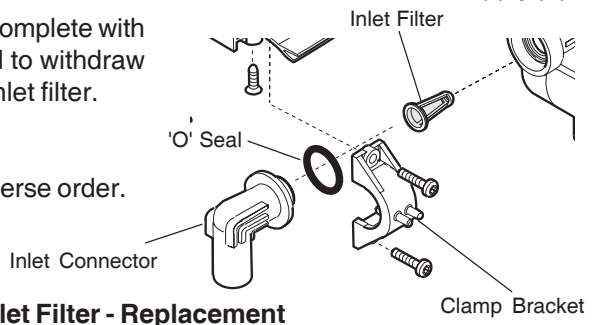
**Caution!** Do not press printed disc on the replacement thermal switch as this will make the component unserviceable.

- 5.9. Refit the components in reverse order. Make sure that the electrical wires are installed in the correct positions. In particular the green earth bonding wire must be reconnected above the thermal switch flange.

## 6. Inlet Filter - Replacement

**Warning!** Make sure that the electrical supply is turned off at the mains and the appropriate circuit fuse is removed. Mains electrical connections are exposed when the cover is removed. Turn off inlet water supply.

- 6.1. Remove the three cover retaining screws, the cover and the service tunnel.
- 6.2. Remove the screws that hold the inlet clamp bracket in position and remove the clamp bracket.
- 6.3. Loosen the screws that hold the flow valve and switch assembly and the heater tank in position.
- 6.4. 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.
- 6.5. Pull off the inlet connector complete with 'O' seal. Use a suitable tool to withdraw the inlet filter. Discard the inlet filter.
- 6.6. Clean/renew the inlet filter.
- 6.7. Refit the components in reverse order.



**Inlet Filter - Replacement**

## 1. Advice to Users

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

- 1.1. Electric showers work by taking in cold water and passing it over the heating elements contained in the tank body of the shower.
- 1.2. 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.
- 1.3. The Mira Go 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.
- 1.4. 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.
- 1.5. The Mira Go requires a minimum maintained/running pressure of 0.7 bar to operate. At pressures above 0.7 bar the Mira Go will minimise the temperature fluctuations caused when other draw-off points are used. If the flow rate drops below an acceptable value, the Mira Go will turn the heater elements off, resulting in a cold shower.
- 1.6. If the water temperature reaches an unsafe level, the thermal switch assembly turns off the heater 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.
- 1.7. Check the shower temperature before entering the shower. The previous user may have selected a **different** temperature setting.
- 1.8. When the shower is first turned on, or a different temperature is selected, there will be a slight delay before the water temperature changes.



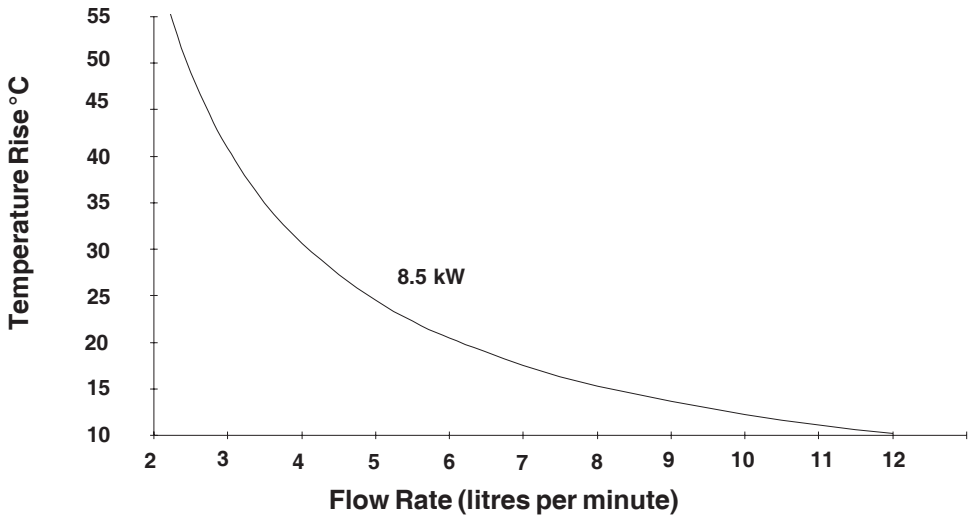
# How Your Electric Shower Works

The higher the temperature the lower the flow rate will be through the shower head and vice versa. This flow rate will also be affected by the incoming cold water temperature. The graph below allows you to determine the flow rate through the shower head (see example).

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

**Example:** For the Mira Go 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.

## Temperature Rise Versus Flow Rate For The Mira Go 8.5 kW



## 2. Mira Go

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

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.

**THE SPRAY PLATE HOLES MUST BE KEPT CLEAR.** The spray plate should be regularly removed and cleaned. Depending on the hardness of the water to the shower this should be carried out at least once a month. Lack of regular spray plate cleaning will lead to poor performance and cause early failure of the Mira Go. Refer to the Installation, Operation and Maintenance guide for the fittings.

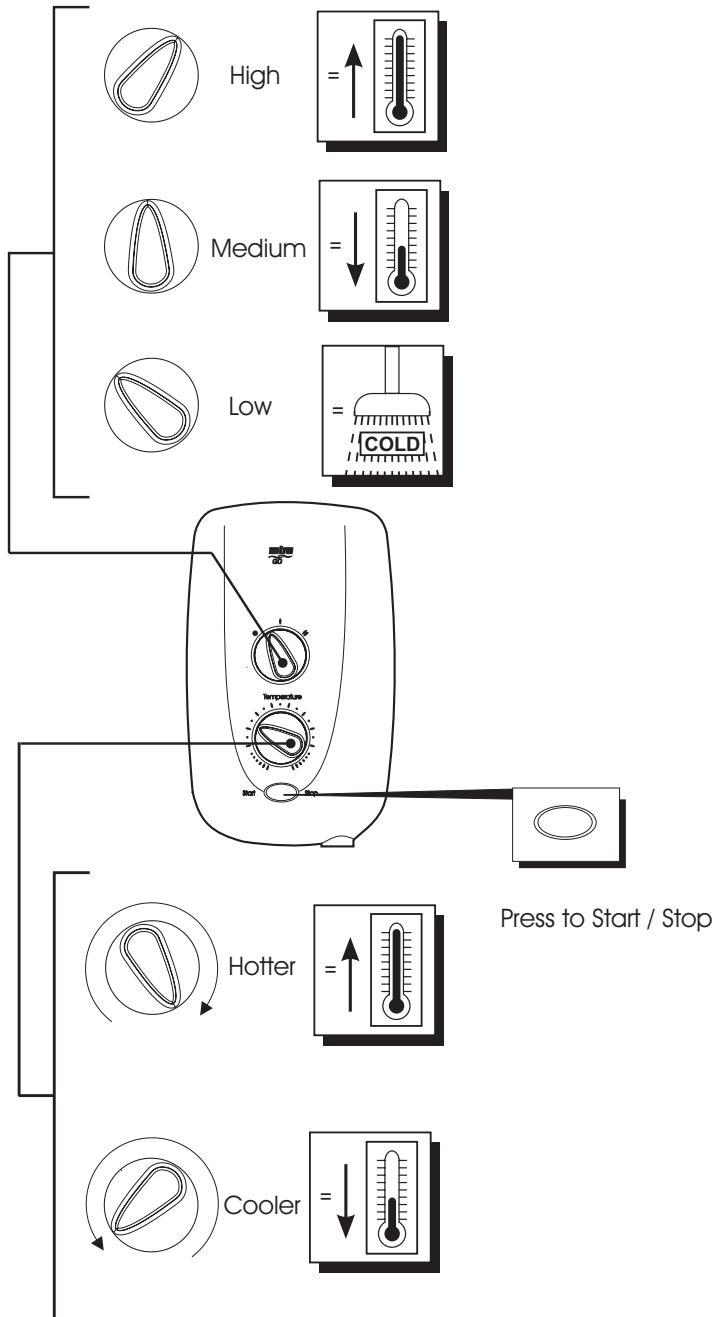
- 2.1. **Switch on** pull-cord or wall mounted switch.
- 2.2. Press the **START** button.
- 2.3. Rotate the **TOP** control knob to the high position (Full Power).
- 2.4. Wait **15-20** seconds for warm water to reach the handset.
- 2.5. If necessary turn the **BOTTOM** control knob slowly to adjust 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.

- 2.6. **TO TURN OFF** the Mira Go press the **STOP** button. The appliance will continue to run for a few seconds before stopping.
- 2.7. A small amount of water may be retained in the shower handset after the shower control has been turned off. This may drain over a few minutes.

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

- 2.8. **Switch off** pull-cord or wall mounted switch.



**Shower Controls**

## Customer 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 <b>Maintenance</b> 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 fully to fully on position.
	Hose or Handset blocked	Clear blockage or renew
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 anticlockwise 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 <b>Maintenance</b> in the I, O &amp; 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</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 MEDIUM setting 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 <b>Maintenance</b> in the I, O & M guide for the fittings). If fault still persists contact your installer.

## Installer Fault Diagnosis: refer to appliance diagram and customer fault diagnosis

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 for whom the fault diagnosis chart and 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.

Malfunction	Cause	Remedy
No water or very low flow rate.	Handset spray plate assembly blocked.	Remove and clean, refer to <b>Maintenance</b> in the shower fittings I,O & M guide.
	Incoming water supply stop valves or appliance isolating valve turned down or off.	Turn fully on.
	Hose or handset blocked.	Clear blockage or renew hose or handset.
	Insufficient water supply pressure.	Contact local water authority/undertaker.
	Heater tank excessively scaled.	Renew the heater tank.
	Flow valve faulty.	Renew the flow valve.
	Inlet strainer blocked.	Remove and clean/replace, refer to <b>Maintenance: "Inlet strainer cleaning"</b> .

Malfunction	Cause	Remedy
<p>Appliance fails to produce hot water in any switch position.</p>	<p>Electrical supply isolated at double pole switch (the pull-cord).</p> <p>Fuse 'blown' or MCB/RCD tripped - indicating an electrical fault e.g. heater tank element failure.</p> <p>Insufficient water supply pressure.</p> <p>Possible failure of the microswitch or thermal switch.</p> <p>Poor internal wire connections.</p>	<p>Switch on.</p> <p>Correct the fault and renew the fuse or reset the MCB/RCD. Renew the heater tank.</p> <p>Contact local water authority/undertaker.</p> <p>Use a suitable continuity measuring device to check the continuity of the microswitches or thermal switch and renew parts as necessary.</p> <p>Check integrity of internal wiring.</p>
<p>Shower cycles hot and cold.</p>	<p>The temperature is set to an unsafe level. To protect the appliance, a fixed temperature thermal switch is incorporated that cuts the power to the heater tank at too high a temperature.</p> <p>Handset spray plate blocked.</p>	<p>Turn the temperature knob sufficiently anticlockwise to increase the water flow and prevent operation of the thermal switch. <b>DO NOT</b> tamper with the thermal switch.</p> <p>Remove and clean/replace, refer to <b>Maintenance</b> in the shower fittings I, O &amp; M guide.</p>

Malfunction	Cause	Remedy
<p>Operation of temperature knob has little or no effect on water temperature.</p>	<p>Flow valve faulty.</p> <p>Handset spray plate blocked.</p>	<p>Renew the flow valve.</p> <p>Remove and clean, refer to <b>Maintenance</b> in the shower fittings I, O &amp; M guide.</p>
<p>No change in temperature between 'LOW' and 'HIGH' setting.</p>	<p>Insufficient water supply pressure.</p> <p>Possible failure of the flow valve, microswitch or heater tank.</p>	<p>Contact local water authority/undertaker.</p> <p>Use a suitable continuity measuring device to check the continuity of the microswitch or heater tank, check flow valve paddles are operating the microswitches. Renew parts as necessary.</p>
<p>Water will not turn off.</p>	<p>Flow valve, solenoid or on/off switch faulty.</p> <p>Supply pressure below 0.2 bar.</p>	<p>Renew parts as necessary.</p> <p>Contact local water authority/undertaker. Check water supply static pressure.</p> <p><b>Note!</b> Static pressure may fall below 0.2 bar when other appliances are operated e.g. dishwasher, washing machine etc.</p>

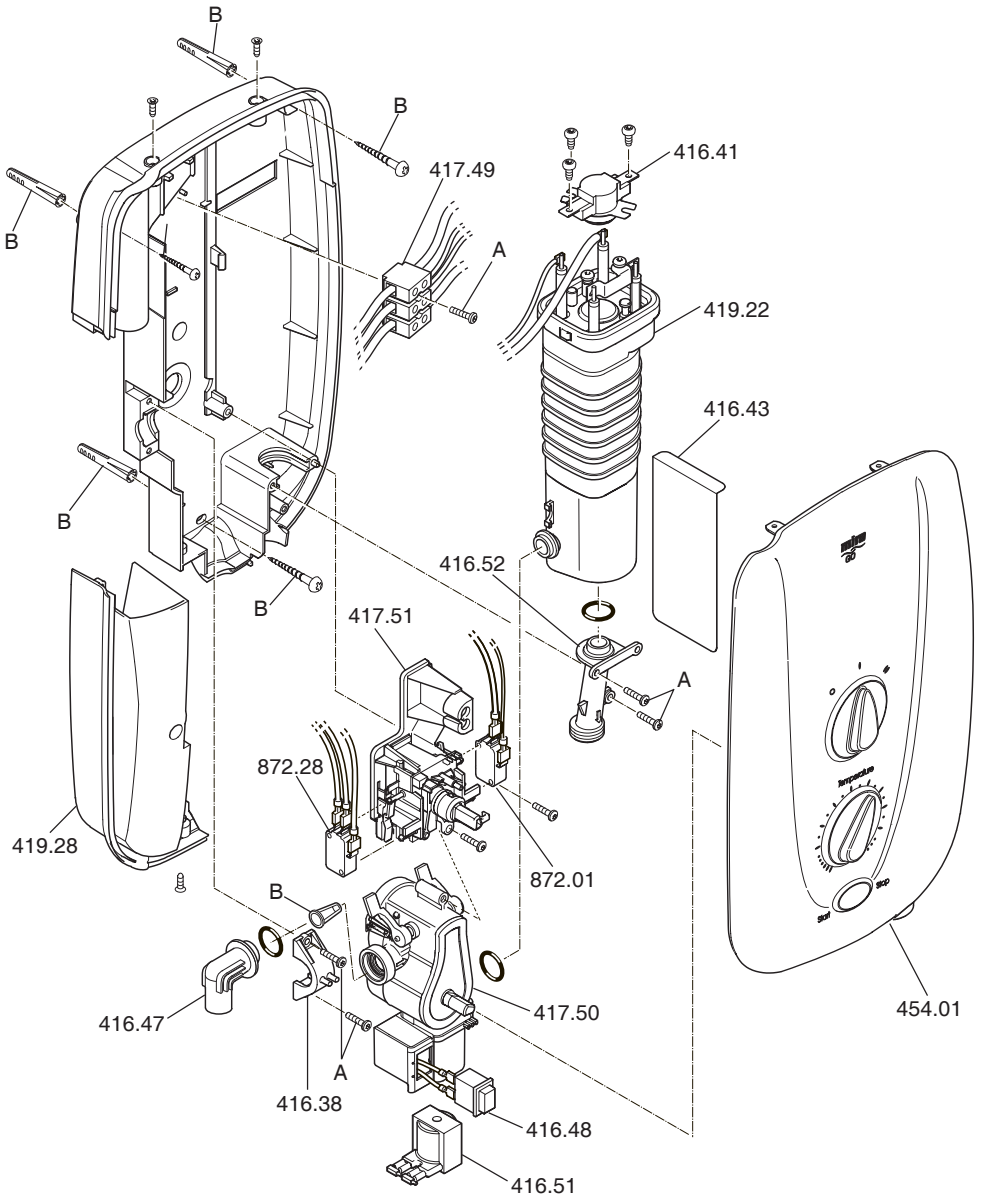




## 1. Mira Go Spare Parts List

416.38	Clamp Bracket (Inlet)
416.41	Thermal Switch
416.42	Cover Seal (not shown)
416.43	Splash Guard
416.44	Screw Pack - components identified 'A'
416.47	Inlet Connector Assembly
416.48	Latching Switch
416.51	Solenoid Coil
416.52	Outlet Connector
417.49	Terminal Block Assembly 7.5/8.5kW
417.50	Flow Valve Assembly
417.51	Switching Assembly
419.22	Heater Tank 8.5 kW
419.28	Service Tunnel
419.65	Component Pack - components identified 'B'
454.01	Cover Assembly
872.01	Microswitch N/O - 2 pin
872.28	Microswitch C/O - 3 pin

## 2. Mira Go Spare Parts Diagram



# Customer Service

## Guarantee of Quality

Mira Showers guarantee products against any defect of materials or workmanship for one year from the date of purchase (2 years for Mira Select and 3 years for Mira Excel ranges).

**To validate the guarantee, please return your completed registration card.**

Within the guarantee period we will resolve defects, free of charge, by repairing or replacing parts or modules as we may choose.

To be free of charge, service work must only be undertaken by Mira Showers or our approved agents in Northern Ireland and Republic of Ireland.

**Service under this guarantee does not affect the expiry date. The guarantee on any exchanged parts or product ends when the normal product guarantee period expires.**

**Not covered by this guarantee:**

Damage or defects arising from incorrect installation, improper use or lack of maintenance, including build-up of limescale.

Damage or defects if the product is taken apart, repaired or modified by any person not authorised by Mira Showers or our approved agents.

**This guarantee is in addition to your statutory and other legal rights.**

## Before using your shower

Please take the time to read and understand the operating and safety instructions detailed in this manual.

## What to do if something goes wrong

If when you first use your shower it doesn't function correctly, first contact your installer to check that installation and commissioning are satisfactory and in accordance with the instructions in this manual. We are on-hand to offer you or your installer any advice you may need.

Should this not resolve the difficulty, simply contact our Customer Services who will give every assistance, and if necessary arrange for our service engineer to visit.

If later the performance of your shower declines, consult this manual to see whether simple home maintenance is required. Please call our Customer Services to talk the difficulty through, request service under guarantee if applicable, or take advantage of our comprehensive After-Sales service.

**As part of our quality and training programme calls may be recorded or monitored**

## Mira Showers

Kohler Mira Ltd  
Cromwell Road,  
Cheltenham GL52 5EP.

Mira is a registered trade mark.  
The company reserves the right to alter product specifications without notice.

[www.mirashowers.com](http://www.mirashowers.com)



BS EN ISO 9001 : 1994  
Reg. No. FM 14648

**mira**  
SHOWERS

## After Sales Service

Our Customer Services Team is comprehensively trained to provide every assistance you may need: help and advice, spare parts or a service visit.

## Spare Parts

We maintain an extensive stock of spares, and aim to have functional parts available for ten years from the date of final manufacture of the product.

Spares can be purchased from approved stockists or merchants (locations on request) or direct from Customer Services.

Spares direct will normally be despatched within two working days. Payment can be made by credit card at the time of ordering. Should payment by cheque be preferred a pro-forma invoice will be sent.

Note! In the interests of safety, spares requiring exposure to mains voltages can only be sent to competent persons.

## Service

Our Service Force is available to provide a quality service at a reasonable cost. You will have the assurance of a Mira trained engineer/agent, genuine Mira spares – and a 12 month guarantee on the repair.

Payment should be made directly to the Service Engineer/Agent, using credit card or a cheque supported by a banker's card.

## To contact us:

England, Scotland & Wales

### Mira Showers Customer Services

Telephone: 0870 2410888  
8.30am to 5pm Working days (4.30pm Fri)  
8.30 am to 12.30pm Saturday  
E-mail: [Mira\\_technical@mirashowers.com](mailto:Mira_technical@mirashowers.com)  
Fax: 01242 282595  
By Post: Cromwell Road  
Cheltenham  
Gloucester GL52 5EP

For Customers in Northern Ireland

### Wm H Leech & Son Ltd

Telephone: 028 9044 9257 – Mon to Fri 9 am-5pm  
Fax: 028 9044 9234 – 24 hours  
Post: Maryland Industrial Estate  
Ballygowan Road  
Moneyreagh, Co Down  
BT23 6BL

For Customers in Republic of Ireland

### Modern Plant Ltd

Telephone: Dublin 01 4591344 - Mon to Fri 9am to 5pm  
Fax: Dublin 01 4592329 – 24 hours  
Post: Otter House  
Naas Road  
Clondalkin  
Dublin 22