**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.

**Guarantee**

For domestic installations, Mira Showers guarantee the Mira Coda against any defect in materials or workmanship for a period of five years from the date of purchase (shower fittings for one year).

For non-domestic installations, Mira Showers guarantee the Mira Coda against any defect in materials or workmanship for a period of one year from the date of purchase.

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

**Design Registration:** GB 0013711355-0006, 0013711355-0007, 0013711355-0008, 0013711355-0009.

**Patents:** GB 2 407 136

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### FAULT DIAGNOSIS

**If you require a Mira trained service engineer or agent, refer to section: 'Customer Services'**

**Symptom**

- Water too hot or too cold
- Water pressure reduced
- Poor temperature control
- Water temperature fluctuating
- Water temperature too high or too low
- Water flow reduced
- Water leaking from the showerhead/overhead

**Cause/Rectification**

- Water too hot or too cold
  - Rework inlet pipework. Check filters for any blockage. Check the maximum temperature setting (if you have a combination type boiler it may not be producing sufficient hot water at the desired flow rate). Fit a flow regulator to the shower valve outlet. Installation conditions outside operating parameters. Refer to Specifications and Commissioning.

- Poor temperature control
  - Make sure that the inlet temperature differentials are sufficient. Refer to Specifications.

- Purchasing or reduced flow
  - Check the shower handset, hose and filters for any blockage. Check that the maintained inlet pressures are nominally balanced and sufficient. Refer to Specifications. Air lock or partial blockage in the pipework.

- Water leaking from the showerhead/overhead
  - Normal for a short period after shut off. Check that the pressures are not in excess of the specifications for this product.

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### OPERATION

**Adjusting the Flow**

The flow is controlled by rotating the flow selector knob to either the overhead or showerhead mode.

**Adjusting the Temperature**

The temperature is controlled by rotating the temperature selector knob. For safety reasons, the temperature is limited by an override stop. To obtain a higher temperature, press the override button on the temperature selector knob and continue to rotate the knob.

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### SPARE PARTS

**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 replacement spares. (Only available in the United Kingdom)

**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. (Only available in the United Kingdom and Republic of Ireland)

Ask about our fixed price service repairs.

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### CUSTOMER SERVICE

Your product has the benefit of our manufacture’s guarantee which starts from date of purchase. This guarantee only applies in the United Kingdom and Republic of Ireland. To obtain this guarantee, please return your completed registration card, visit our website or free phone 0800 5978651 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 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, chemical attack, 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 or indirect 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 TMV2 or TMV3 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 diagnoses 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.

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### 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 and lint free cloth.

**Important!** The showerhead must be descaled regularly, 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.

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### COMMISSIONING

**Maximum Temperature Setting**

Before using the shower, the maximum temperature must be checked to make sure that it is at a safe level. It has been preset to a safe level. It has been preset to a safe level. It has been preset to a safe level. It has been preset to a safe level.

**Note!** Make sure that the hot water temperature is at least 55°C and that the hot and cold water is sufficient. Refer to Specifications.

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### WATER Too HOT OR Too Cold

**Symptoms**

- Water too hot or too cold
- Water pressure reduced
- Poor temperature control
- Water temperature fluctuating
- Water temperature too high or too low
- Water flow reduced
- Water leaking from the showerhead/overhead

**Cause/Rectification**

- Water too hot or too cold
  - Rework inlet pipework. Check filters for any blockage. Check the maximum temperature setting (if you have a combination type boiler it may not be producing sufficient hot water at the desired flow rate). Fit a flow regulator to the shower valve outlet. Installation conditions outside operating parameters. Refer to Specifications and Commissioning.

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- Water leaking from the showerhead/overhead
  - Normal for a short period after shut off. Check that the pressures are not in excess of the specifications for this product.
SAFETY : WARNINGS

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

The function of a thermostatic mixing valve is to deliver water consistently at a safe temperature. In keeping with every other mechanism, it cannot be considered as functionally infallible and as such, cannot totally replace a supervisor's vigilance where that is necessary. Mira thermostatic mixers are precision engineered and should give continued safe and controlled performance, provided:

1. They are installed, commissioned, operated and maintained in accordance with the manufacturer's recommendations.
2. Periodic attention is given, when necessary, to maintain the product in good functional order.

**Note!** Read all of these instructions and retain this guide for later use.

**2. INSTALLATION**

**Suitable Plumbing Systems**

**Gravity Fed:** The thermostatic mixer can be installed with a cold water cistern (usually fitted in the loft space) and a hot water cylinder (usually fitted in the airing cupboard) providing nominally equal pressures.

**Gas Heated System:** The thermostatic mixer can be installed with a combination boiler.

**Unvented Mains Pressure System:** The thermostatic mixer can be installed with systems of this type with balanced pressures.

**Pumped System:** The thermostatic mixer can be installed with an inlet pump (twin impeller). The pump must be installed on the floor next to the hot water cylinder.

**General**

Installation must be carried out in accordance with these instructions, and must be conducted by designated, qualified and competent personnel. The installation must comply with the “Water Supply Regulations 1999 (Water Fittings)” or any particular regulations and practices, specified by the local water company or water undertakers.

**Note!** Make sure that all site requirements correspond to the information given in section: "Specifications".

1. The product must not be installed in an area where it may freeze.
2. Do not install the product in a position in which service access is restricted.
3. For stud partitions alternative fixings may be required.
4. Isolating valves must be installed close to the product for ease of maintenance.
5. Pipework must be rigidly supported and avoid any strain on the connections.
6. Thermostatic shut down: For safety and comfort the thermostat will shut off the mixing valve within 2 seconds if either supply fails (achieved only if the cold temperature has a minimum differential of 12°C from either supply temperature).

**Connections**

**Max:** 15 mm Compression to pipework, 3/4" BSP to valve.

**Cold:** 15 mm Compression to pipework, 3/4" BSP to valve.

**Outlet:** Bottom, 1/2" BSP Male to flexible hose.

**Note!** This product does not allow for reversed inlets and will deliver unattractive temperatures if fitted incorrectly.

**PRESSURES**

- Max Static Pressure: 10 Bar
- Max Maintained Pressure: 5 Bar
- Min Maintained Pressure: (Gas Water Heater): 1.0 Bar (for optimum performance supplies should be nominally equal)
- Min Maintained Pressure (Gravity System): 0.1 Bar (0.1 bar = 1 Metre head from cold tank base to shower head outlet).

**Thermostatic Shut down**

For safety and comfort the thermostat will shut off the mixing valve within 2 seconds if either supply fails (achieved only if the cold temperature has a minimum differential of 12°C from either supply temperature).

**SAFETY : WARNINGS**

**Note!** There will be occasions when the hose retaining ring will not provide a suitable solution for Fluid Category 5 installations, in these instances an outlet double check valve must be fitted, this will increase the required supply pressure typically by 10% (0.1 bar). Double check valves 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 check valves are not suitable.

**Installation of the Bar Valve**

Before installing the pipework, please ensure that there is a minimum of 105mm height clearance to allow for the rigid riser and overhead to be installed above. If installing in a restricted height area, a shorter riser rail can be ordered as a spare part.

1. Slide the hose retaining ring and the clamp bracket onto the middle bar, and then screw the middle and lower bar sections together.
2. Screw the riser arm to the middle and lower bar section.
3. Push the riser bar into the top of the bar valve.
4. Insert the wall fixing bracket into the riser arm mounting boss, then screw the bar if necessary to reposition the wall fixing bracket against the wall. **Note!** The bar must be located correctly, push down firmly to seat.
5. Mark the holes for the wall fixing bracket.
6. Remove the wall fixing bracket from the mounting boss then remove the riser bar from the bar valve.
7. Drill two holes to suit the wall fixings, ensuring that the bar valve is protected from debris. Fix the bracket to the wall.
8. Refit the riser bar into the bar valve and then put the concealing cover onto the riser arm mounting boss.
9. Push the riser arm mounting boss onto the wall fixing bracket.
10. Fit and tighten the grub screw (2.5 mm hexagonal key) into the hole on top of the mounting boss then push the concealing cover over the wall fixing bracket.
11. Tighten the grubscrew at the valve end and fit the grubscrew cover.
12. Screw the fixed shower head onto the riser rail.
13. Fit the shower hose onto the bottom outlet of the bar valve.
14. Push the shower hose through the retaining ring and screw it to the showerhead.
15. Place the showerhead into the clamp bracket, adjusting the angle and height to the users preference.

**SPECIFICATIONS**

**Temperatures**

- Close temperature control is provided between 20°C and 50°C.
- Optimium Thermostatic Control Range: 35°C to 45°C (achieved with supplies of 15°C cold, 60°C hot and nominally equal pressures).
- Recommended Hot Supply: 60°C to 65°C (Note! The mixing valve can operate at temperatures up to 85°C for short periods without damage. However for safety reasons it is recommended that the maximum hot water temperature is limited to 65°C).
- Minimum Recommended Differential between Hot Supply and Outlet Temperature: 12°C at desired flow rates.
- Minimum hot water supply temperature: 55°C