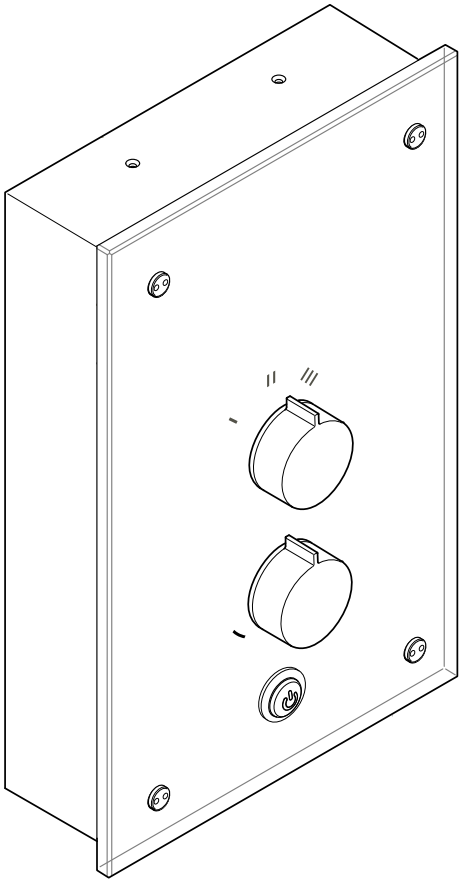
Mira Azora

9.8 kW



mira SHOWERS

For SPARES, ADVICE or REPAIRS

Please call us on

0844 571 5000

(UK Only)

These instructions must be left with the user

Installation and User Guide

Showering perfection

mira SHOWERS

INTRODUCTION

Thank you for purchasing a quality Mira 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 Azora is a thermostatic electric shower with separate controls for power selection and temperature/flow adjustment. A unique thermostatic valve stabilises temperature changes caused by water pressure fluctuations. These can result from taps being turned on or off, or a toilet being flushed. An individual light indicates “START/STOP”.

The Mira Azora comes complete with a set of Mira Energise Shower Fittings.

Mira Azora 9.8 kW

A 9.8 kW 240 V AC (9.0 kW 230 V AC) heater with Mira Energise adjustable spray handset with four different spray actions (start, soothe, force and eco*). Supplied complete with flexible hose, clamp bracket assembly, slide bar, supports, hose retaining ring and soap dish.

** The ‘eco’ setting will have no effect, and will give the same spray action as the ‘start’ setting.*

Guarantee

For **domestic installations**, Mira Showers guarantee the Mira Azora 9.8 kW against any defect in materials or workmanship for a period of **two** years from the date of purchase (shower fittings for one year).

For **non-domestic installations**, Mira Showers guarantee the Mira Azora 9.8 kW against any defect in materials or workmanship for a period of **one** year from the date of purchase.

For terms and conditions refer to section **“Customer Services”**.

Patents and Design Registration

Design Registration:	000578463-001-002
Patents:	GB: 2 341 667, 2 404 000, 2 428 286, 2 427 460 Ireland: 82835, 85128, 85163

If you experience any difficulty with the installation or operation of your new Electric Shower, please refer to **‘Fault Diagnosis’**, before contacting Kohler Mira Ltd. Our telephone and fax numbers can be found in the back of this guide.

IMPORTANT SAFETY INFORMATION

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

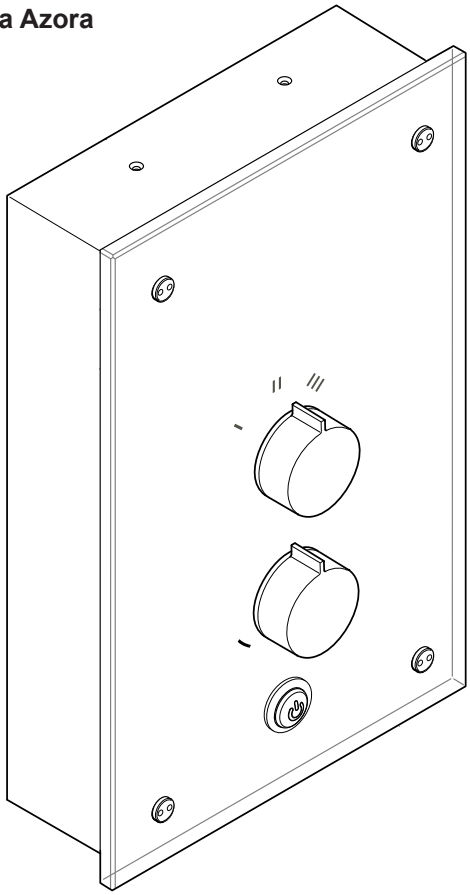
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

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

PACK CONTENTS CHECKLIST

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

Mira Azora



☐ 1 x Mira Azora

☐ 1 x Olive

☐ 1 x Compression Nut

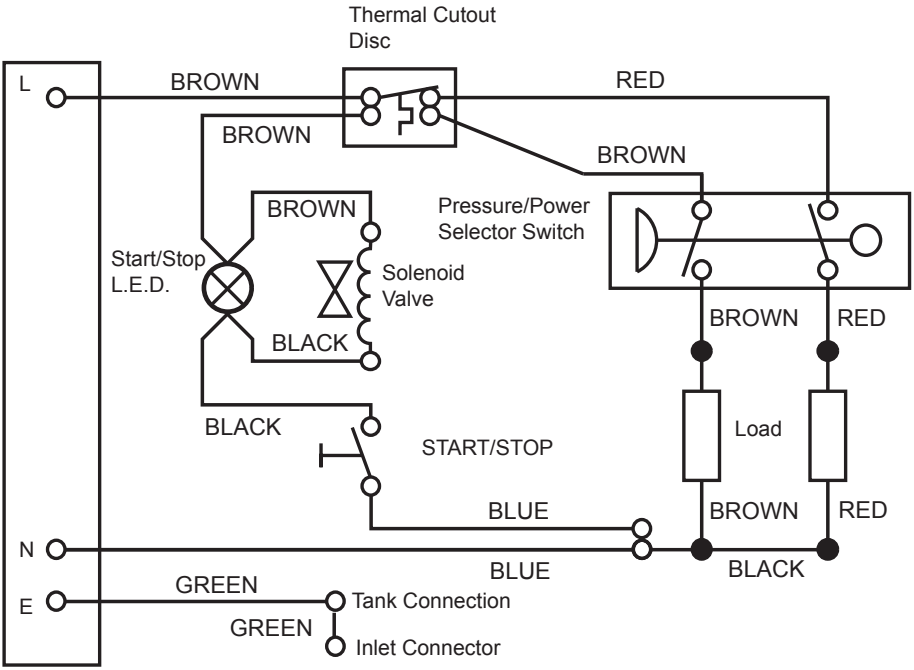
Documentation

☐ 1 x Installation and User Guide

☐ 1 x Guarantee and Registration Document

☐ 1 x Installation Template

WIRING DIAGRAM



Internal Wiring Diagram

SPECIFICATIONS

European Conformity Information

The Mira Azora shower complies with the following European directives: 2006/95/EC Low Voltage Directive, 2004/108/EC EMC Directive.

The Mira Azora shower is a high power appliance and is subject to conditional connection. If the main electrical supply fuse is rated less than 80 Amps, the local electricity supply company must be contacted to confirm if the electrical supply is adequate.

The Mira Azora shower complies with the requirements of the UK's water regulations.

Plumbing	Variant
	Azora 9.8
Minimum Dynamic Pressure	70 kPa (0.7 bar)
Maximum Dynamic Pressure	500 kPa (5 bar)
Maximum Static Pressure	1000 kPa (10 bar)
Minimum Static Pressure	20 kPa (0.2 bar)
Maximum Inlet Temperature	30°C
Minimum Inlet Temperature	2°C
Inlet Connection	1/2" BSP Male / 15 mm Compression Fitting
Maximum Water Hardness	200 ppm $CaCO_3$
Outlet Connection	1/2" BSP Male

Electrical	Variant
	Azora 9.8
Nominal Power at 230 V ac	9.0 kW
Nominal Power at 240 V ac	9.8 kW
Recommended MCB Rating	45 A
Maximum Supply Cable Size	16 mm²
Recommended RCD Rating	30 mA tripping current
Recommended Isolator Switch	45 A double-pole with 3 mm contact separation
Appliance Sealing Rating	IP X4 - Suitable for installation in Zone 1
Maximum Ambient Temperature	30°C
Minimum Ambient Temperature	2°C

Dimensions	
Height	367 mm
Width	233 mm
Depth	100 mm

INSTALLATION REQUIREMENTS

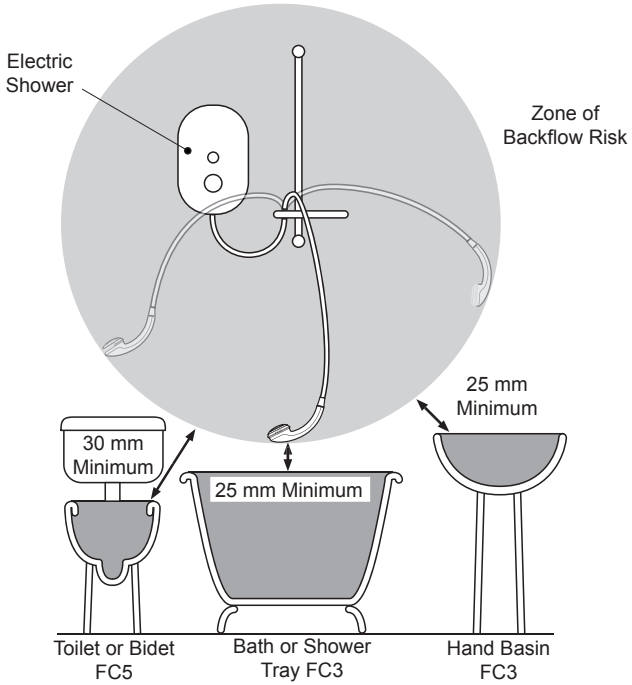
Please read the Important Safety Information and specifications sections at the front of this guide, and the requirements detailed in this section before installing the shower.

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

Plumbing

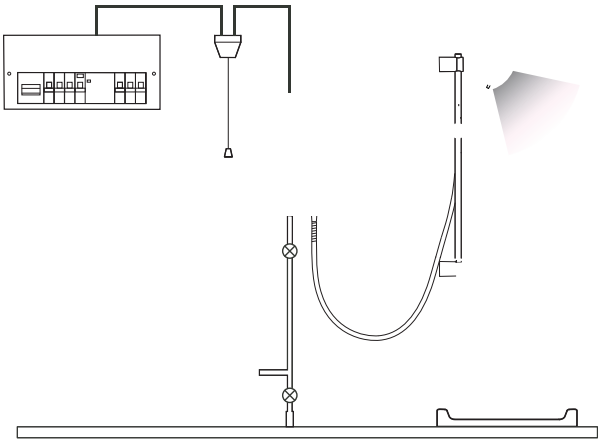
1. The plumbing installation must comply with all national or local water regulations and all relevant building regulations, or any particular regulation or practice specified by the local water supply company.
2. Do not install the product in a position in which service access is limited.
3. Decide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

15. A full bore/non restrictive servicing valve must be fitted in a readily accessible position adjacent to the shower to facilitate maintenance of the shower. DO NOT use a valve with a loose washer plate (jumper) as this can lead to a build up of static pressure.
16. A water treatment device should be in-86bkC03-800/MCID 291EMC /Span71(16.F



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

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



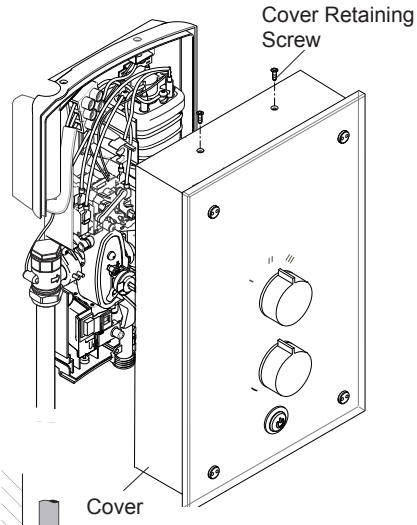
INSTALLATION

Installation of Mira Azora

Warning! Turn off the electrical and water supplies before proceeding with the installation of the Mira Azora. 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 Azora.

Wall fixings are not supplied. For solid wall structures a red rawl plug and a no. 8 x 1½" countersunk brass or stainless steel screw should be used. For other wall structures such as panels alternative fixings may be required. A minimum of 3 fixing screws should be used.

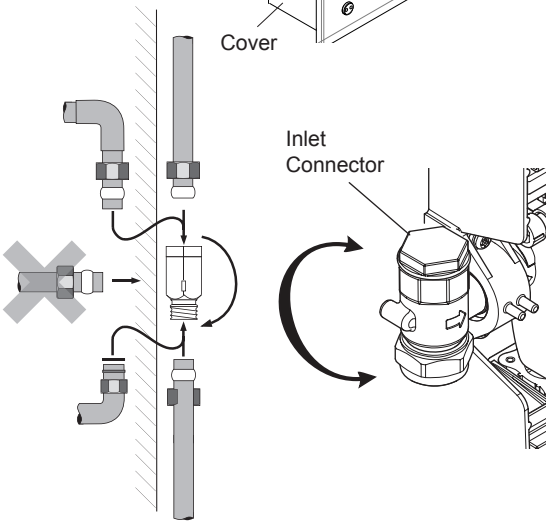


Remove the three cover retaining screws and the cover.
Caution! Handle the glass cover assembly with care.

Determine the direction and route of the incoming water supply: falling (entering the shower from the top), or rising (entering the shower from the bottom).

Note! - DO NOT use an incoming supply entering the shower directly from the back. Add an elbow to the supply pipe and connect it as a rising or falling supply.

Swivel the inlet connector assembly to suit. Remove the inlet blanking cap. Avoid trapping the green earth bonding wire.



- Before fitting the cover, make sure that the appropriate cutouts have been removed to suit the supply entering the product.

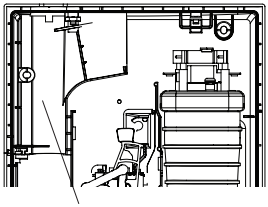
- **Thoroughly flush the mains-fed cold water supply pipe. The supply must be clean and free from debris BEFORE connecting the appliance**.
  To flush the pipework, turn on the water supply and drain a minimum of 10 litres (2 gallons) of water into a bucket or catchment area. Turn off the water supply.

- An installation template is supplied to help you install the Mira Azora.
  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.

- Drill and plug the top two fixing holes. Secure the appliance to the wall with appropriate screws. 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.

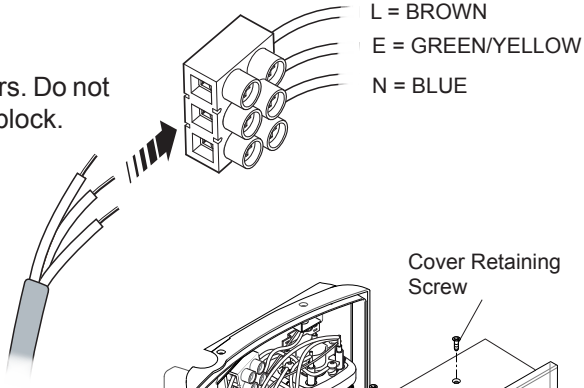
- Install the mains-fed cold water supply pipe. Do not overtighten (See Plumbing Installation Requirements).

- Feed cable into case. Fit Earth sleeve (not supplied) and then strip insulation. Do not twist cable cores.



Important! Make sure that the inlet earth wire is routed as shown. Failure to do so may cause product malfunction.

▶ Firmly connect the conductors. Do not exert strain on the terminal block.

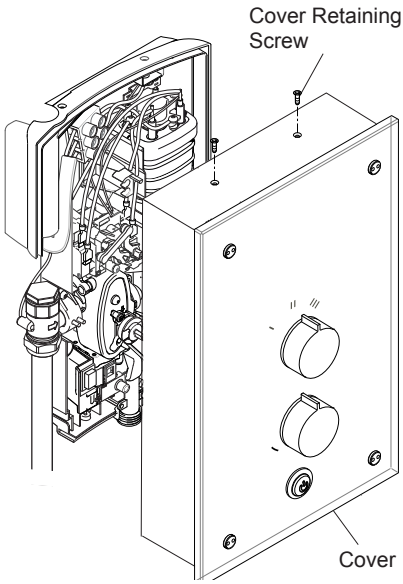


▶ Refit the cover, making sure it is correctly located. Do not overtighten screws.

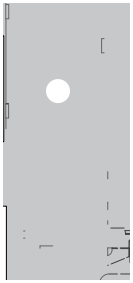
Caution! Handle the glass cover assembly with care.

Do not use alternative screws to secure the cover. This can cause internal damage to the appliance.

Do not seal around the back of appliance.



When fitting the cover, position the controls to correspond with the internal drive features as shown.



COMMISSIONING

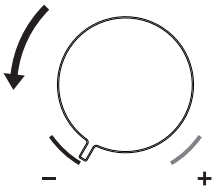
Before carrying out the commissioning procedure install the Shower Fittings, refer to the Shower Fittings Installation and User Guide.

If you are unsure how an electric shower works, please read through the section **"User Instructions"** before continuing.

1.

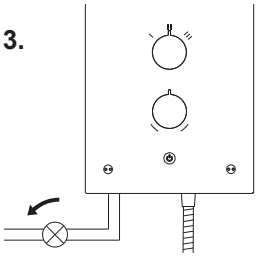
Electrical supply is turned off at the mains.

2.



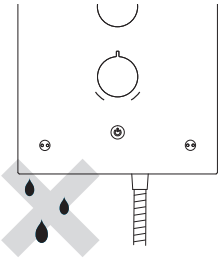
Turn control to full cold.

3.



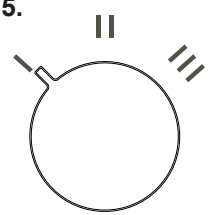
Turn the water supply fully on.

4.



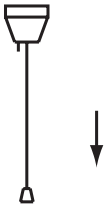
Check for water leaks.

5.



Set control to 'I'.

6.

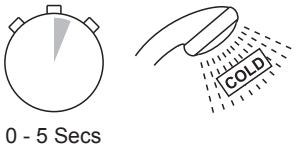


Switch on electrical supply.

7.

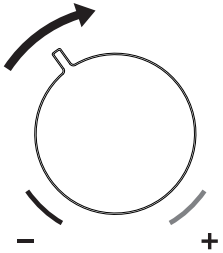
Press the 'Start/Stop' button.

8.



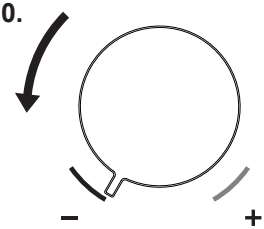
Water will be at full force and at a cool temperature.

9.



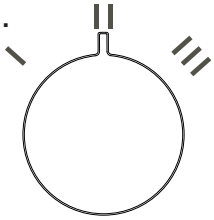
Turn the control slowly. Temperature remains cool and flow is reduced

10.



Turn control to full cold.

11.

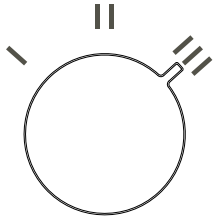


Set control to 'II'.

12.

The temperature will rise slightly.

13.

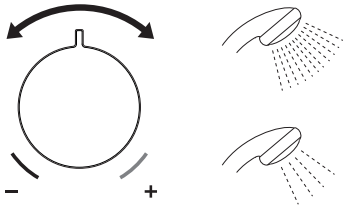


Set control to 'III'.

14.

The temperature will rise further.

15.



Adjust temperature as required. Flow rate will adjust automatically.

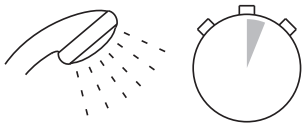
16.

Press STOP.

17.

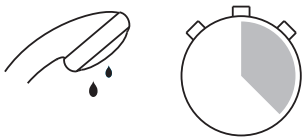
Isolate power.

18.



The shower will purge water from its tank for a few seconds.

19.



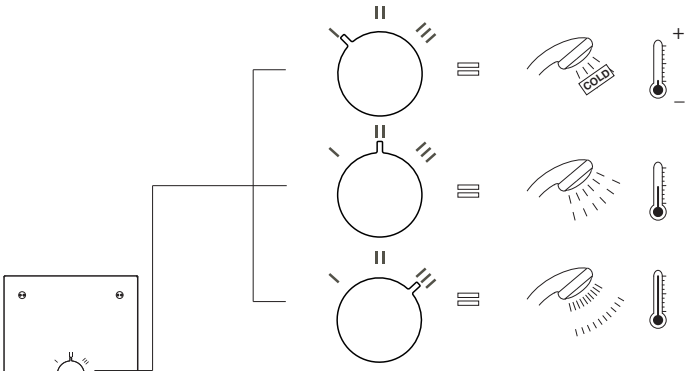
Residual water may drain over a few minutes.

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

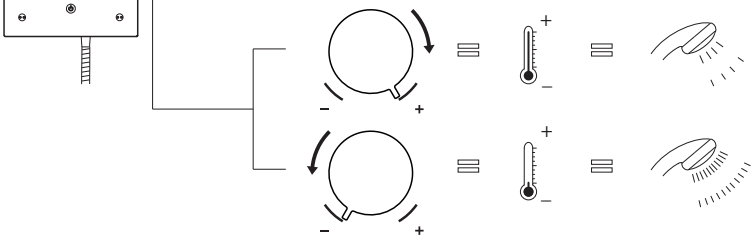
USER INSTRUCTIONS

How Your Electric Shower Works

Heated water is produced by adjusting the flow of cold water passed through a heater tank.



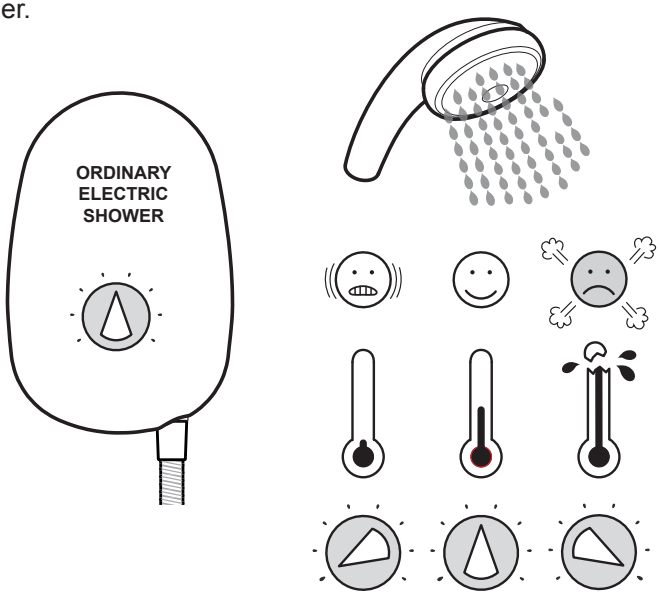
The shower has three heater settings.

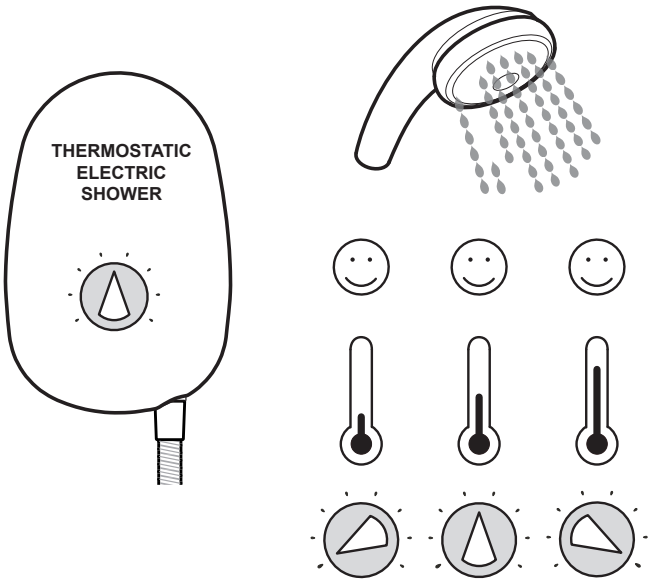


The warmer the shower, the lower the flow rate and vice versa.

Thermostatic (Temperature-Stable)

The shower's top priority is to keep the desired water temperature constant. Electric showers with thermostatic control are able to keep a stable temperature across the range from hot to cold, whilst also dealing with fluctuations in electrical and water supplies. As a result, there is a **temperature limit** the shower cannot go beyond. For safety, this temperature is factory set and cannot be adjusted to make the shower hotter or colder.





USER SAFETY INFORMATION

WARNING - THIS SHOWER CAN DELIVER SCALDING TEMPERATURES IF NOT OPERATED, INSTALLED OR MAINTAINED IN ACCORDANCE WITH THE INSTRUCTIONS, WARNINGS AND CAUTIONS CONTAINED IN THIS GUIDE AND ON OR INSIDE THE APPLIANCE.

To reduce the risk of fire, electric shock or injury:

1. Make sure that you fully understand how to operate this shower before use, read all operating instructions and retain this guide for future reference.
2. This shower is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the shower by a person responsible for their safety.
3. Children should be supervised to ensure that they do not play with the shower.
4. **DO NOT** switch the shower on if there is a possibility that the water in the shower is frozen.
5. **DO NOT** switch the shower on if water leaks from the shower unit. Isolate the electrical supply to the shower immediately.
6. **DO NOT** switch the shower on if the case appears to be damaged or incorrectly fitted. Isolate the electrical supply to the shower immediately.
7. **DO NOT** connect the outlet of the shower to any tap, control valve, trigger handset or showerhead other than those specified for use with this shower - scalding water temperatures and product damage may occur. Only Kohler Mira recommended accessories should be used.
8. The showerhead must be de-scaled regularly, refer to the user maintenance section towards the rear of this guide for details.
9. The shower hose must be checked regularly and replaced if damaged, refer to the user maintenance section towards the rear of this guide for details.
10. **DO NOT** store bathroom items on top of the shower case. ie. Shampoo or shower gel containers.
11. Always check the water temperature before entering the shower. Sunburn or skin conditions can increase your sensitivity to hot water. Make sure that you set the shower to a cooler temperature.
12. **DO NOT** operate the temperature control rapidly, allow 10 – 15 seconds for the temperature to stabilise before use.
13. **DO NOT** block or restrict flow through the handset or hose whilst showering. eg. By placing in direct contact with your body.
14. Be aware that any adjustment to temperature control or power control whilst showering will affect the showering temperature and may result in a burst of hot water.
15. Care is required if the shower is turned off and then back on after a short time as this will result in a burst of hot water from the showerhead. Ensure temperature has stabilised before re-using shower.
16. Switch off the appliance at electrical isolating switch when not in use. This is for safety and is recommended with all electrical appliances.
17. If any of the following conditions occur, isolate the electricity and water supplies and contact your installer:

    If the case is damaged or the cover is not correctly fitted and water has entered the shower case.

    If the shower begins to make an odd noise, smell or smoke.

    If the shower shows signs of a distinct change in performance indicating a need for maintenance.

Using your Shower

Read the section **"User Safety Information"** first.

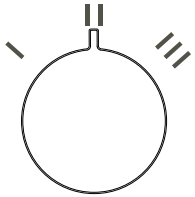
1.

Switch on electrical supply.

2.

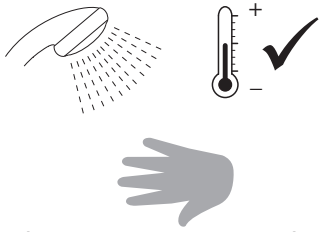
Press the 'Start/Stop' button.

3.



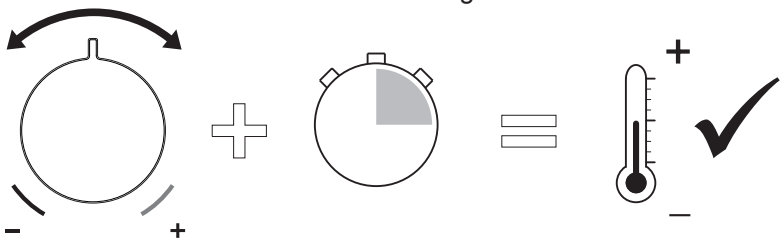
Set to desired position.

4.



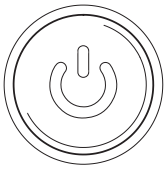
Check water temperature before entering shower.

5.



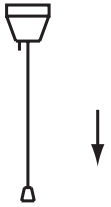
Allow 10 - 15 seconds for any temperature adjustments to reach the handset.

6.



Press STOP button. Shower will continue to run for a few seconds before stopping.

7.



Isolate power.

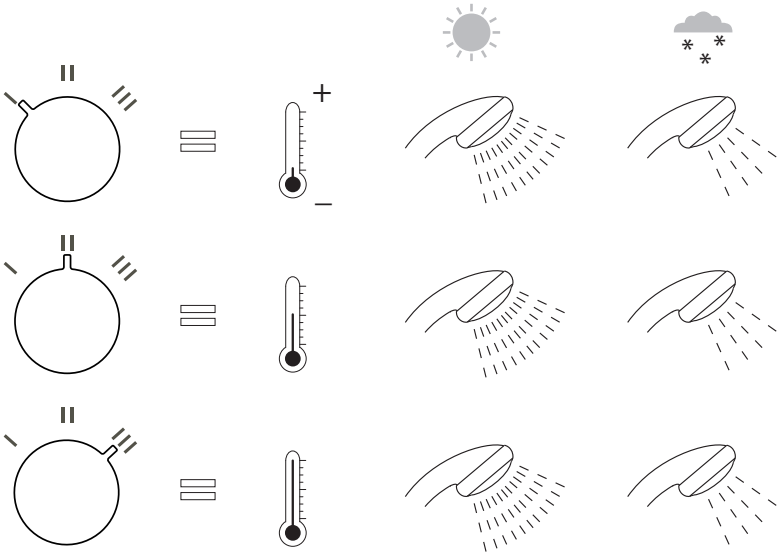
8.

Residual water may drain over a few minutes.

Note! At the end of every shower make sure that the shower head points into the catchment area. A small amount of water may be retained in the shower handset after the shower has been turned off. This may drain over a few minutes.

Switch off the appliance at electrical isolating switch when not in use. This is for safety and is recommended with all electrical appliances.

The Effect of Seasonal Changes



For a cold shower select I.

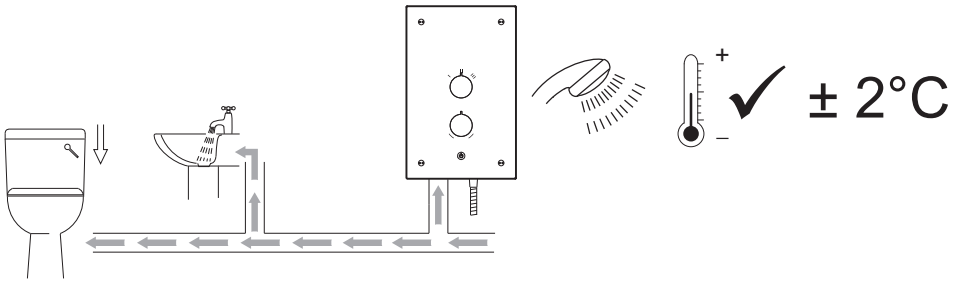
For a summer warm shower select II.

For a winter warm shower select III.

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

The Effect of Other Water Devices

Example of how shower temperature stabilises due to pressure changes.



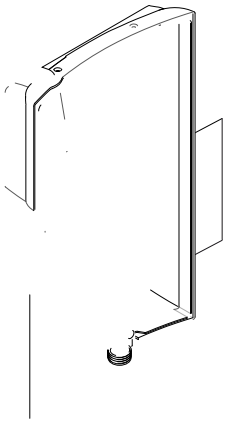
Water inlet pressure fluctuations due to other draw offs (e.g. flushing toilet). Shower temperature will be controlled to within ± 2°C of the set temperature provided that the supply conditions remain within the required operating parameters (refer to section: **'Specifications'**).

FAULT DIAGNOSIS

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

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

Symptom	Start/ Stop Light	Heater Setting I / II / III	Probable Cause	Possible Remedy
Appliance Fails to operate	OFF	ANY	Electrical supply isolated at double pole switch.	Switch on electrical supply via the pullcord or wall mounted 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				

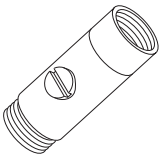


SPARE PARTS

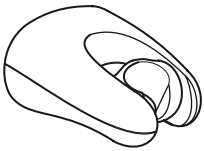
416.38	Clamp Bracket (Inlet)
416.41	Thermal Switch
416.48	Latching Switch
416.51	Solenoid Coil
872.01	Microswitch N/O - 2 pin
872.28	Microswitch C/O - 3 pin
1563.519	Terminal Block Assembly
1563.533	Thermostatic Valve/Heater Tank 9.8 kW 240 V AC
1563.534	Outlet Connector Assembly
1563.537	Temperature Control Belt Thermostatic
1563.538	Temperature Cam & Pulley
1563.539	Switching Assembly
1563.540	Inlet Valve Assembly
1563.551	Component Pack - chrome - components identified ‘B’
1634.015	Start/Stop LED Assembly
1634.026	Screw Pack - components identified ‘A’
1623.009	Cover Assembly - Frosted Glass
1634.118	Cover Assembly - Blue Glass
1634.119	Cover Assembly - Grape Glass
1634.120	Cover Assembly - White Flock Glass
1634.121	Cover Assembly - Stripes
1634.122	Cover Assembly - Flag
1634.123	Cover Assembly - Stones
1634.124	Cover Assembly - Dots
1829.062	Inlet Filter (with ‘O’ seal fitted)
1829.063	Inlet Connector Assembly

ACCESSORIES

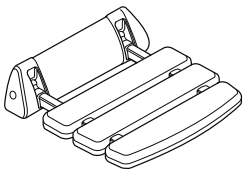
Genuine Mira accessories can be purchased direct from Customers Services (our contact details can be found on the back cover of this guide) or from approved stockists or merchants.



Double Outlet Check Valve (DCV-H)
Chrome - 1.0.110.55.1
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.

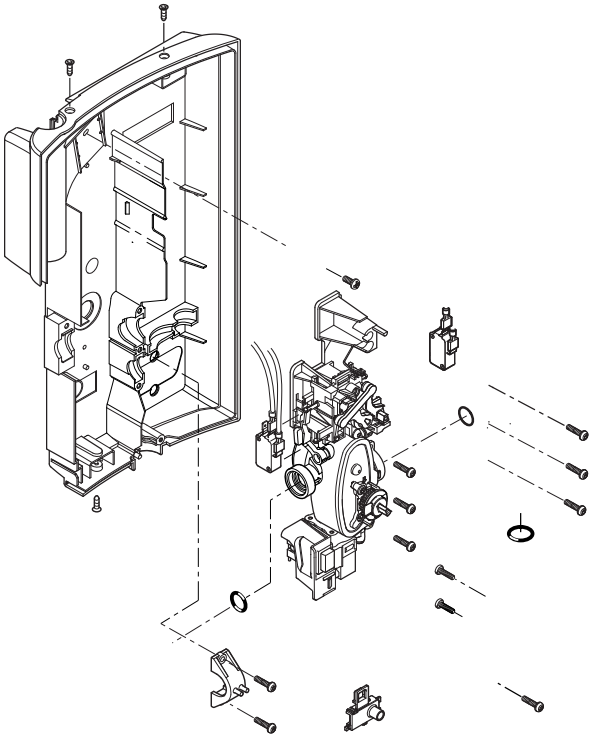


Showerhead Holder
White - 2.1605.149
Chrome - 2.1605.150
If you're looking for additional flexibility in your shower, the Showerhead Holder is the perfect solution. Makes showering easier for children, provides a useful additional holder for your Showerhead which fixes to the wall at the desired height.



Shower Seat
White - 2.1536.128
White/Chrome - 2.1536.129
For use in or out of the showering area. **Note!** Must be installed onto a solid wall.
Shower seat folds up when not in use.

Mira Azora Spare Parts Diagram



CUSTOMER SERVICE

Guarantee

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

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

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

The guarantee does not cover:

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

What to do if something goes wrong

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

Extended Guarantees

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

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

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

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

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

To Contact Us: UK

0844 571 5000

Fax: 01 242 282595

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

Mira Customer Services Dept, Cromwell Road, Cheltenham, Gloucestershire, GL52 5EP

To Contact Us: Eire Only

01 459 1344

Fax: Dublin 01 459 2329

E-mail: sales@modernplant.ie

Modern Plant Ltd (Dublin),
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FM 14648

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