

**OPERATION**

**FAULT DIAGNOSIS**

**SERVICING**

**SPARE PARTS**

**CUSTOMER SERVICE**

Read the section "IMPORTANT SAFETY INFORMATION" first.

**Warning!** There are no user serviceable components beneath the cover of the appliance. In the event of a malfunction of the shower, the troubleshooting information below provides details on possible causes and remedies that may be carried out by a qualified and competent person. A non-qualified person should refer to the fault diagnosis section of the User Guide.

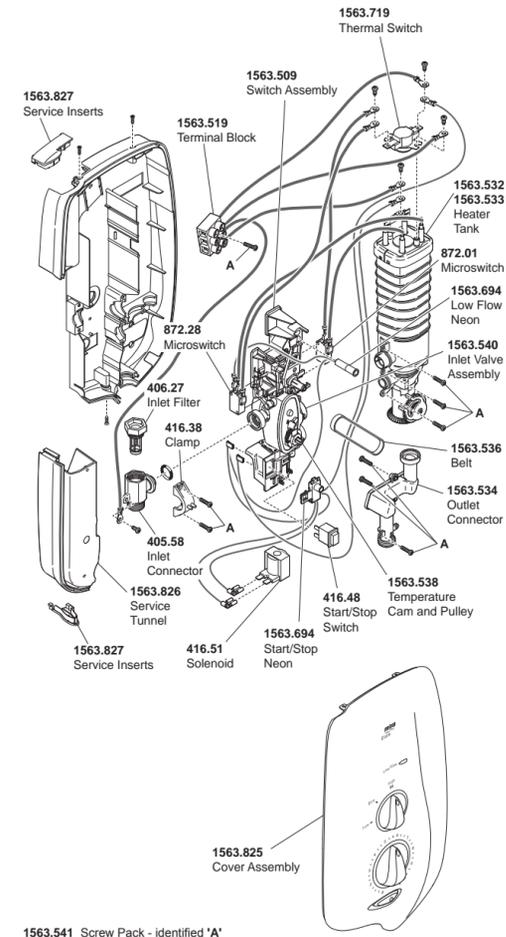
Symptom	Lights	Power Control Position	Possible Cause	Possible Remedy
(Continued)	Power ON Low Flow ON	ECO/ HIGH	Hose or Shower head blocked. Inlet filter blocked.	Remove and clean Shower head. Check hose for kinks. Refer to <b>User Guide</b> . Remove and clean. See <b>Servicing</b> .
No change in temperature between Low/ Eco/High settings	Power OFF Low Flow ON	ANY	Insufficient mains water pressure.	Contact local water company.
Water will not turn off.	Power ON Low Flow ON	ANY	Possible failure of microswitch or heater tank and replace parts as necessary.	Check the continuity of the microswitch or heater tank and replace parts as necessary.
	Power ON Low Flow OFF	ANY	Inlet valve, solenoid or start/ stop switch faulty.	Replace parts.
Appliance fails to produce hot water when set on Eco/ High heater setting.	Power ON Low Flow OFF	ANY	Supply pressure below 20 kPa (0.2 bar).	Contact local water company. Check mains water static pressure.
	Power ON Low Flow ON	ECO/ HIGH	Possible failure of microswitch or thermal switch.	Check the continuity of the microswitch or thermal switch and replace parts as necessary.
Low or no flow.	Power ON Low Flow OFF	ANY	Insufficient mains water pressure.	Contact local water company.
	Power ON Low Flow ON	ECO/ HIGH	Insufficient water supply pressure for shut off. <b>Note!</b> If other appliances are operating, static pressure may drop below 20 kPa (0.2 bar). Contact local water company.	Minimum static pressure to ensure shut off and prevent dripping is 20 kPa (0.2 bar). <b>Note!</b> If other appliances are operating, static pressure may drop below 20 kPa (0.2 bar). Contact local water company.

**Warning!** There are no user serviceable parts inside the shower. Servicing of the shower must only be carried out by qualified, competent personnel following the instructions provided in this guide and those provided with any spare part. Before replacing any parts, ensure that the underlying cause of the malfunction has been resolved.

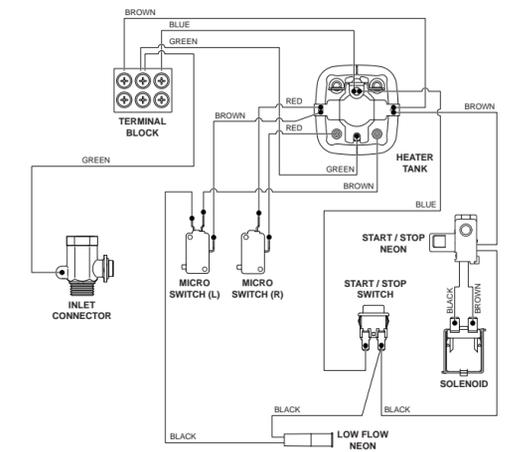
**Cleaning the Inlet Filter**

**Warning!** Isolate the electrical and water supplies before removing the cover.

- Remove the three screws that hold the cover on the shower and remove the cover.
- Remove the service tunnel from the shower.
- Use a suitable spanner to remove the filter from the inlet connector assembly. Hold a separate spanner across the flats of the inlet connector assembly to prevent damage to the connector, whilst removing the filter.
- Remove the filter and rinse under a running tap to remove any lodged particles. If necessary, use a kettle descaler in accordance with the manufacturer's instructions.
- Refit the components in reverse order.



**WIRING DIAGRAM**



- Switch on the electrical supply.
- Push START/STOP button. Light in the button illuminates.
- Turn power control to the desired position.
- Adjust temperature as required.
- Allow 10 - 15 secs for any temperature adjustments to stabilise and reach the showerhead.
- Check water temperature before entering shower.
- Push START/STOP button. Light in the button goes out and shower continues to run for a few seconds.
- Switch off the electrical supply.
- WARNING!** Turning the shower off and back on during showering may result in unstable temperatures at the showerhead. Always ensure the temperature has stabilised before re-using the shower. **Note!** A slight hissing sound may be heard from the shower during operation. High mains water pressure and high shower temperatures will affect the tone. This is quite normal in use.

Symptom	Lights	Power Control Position	Possible Cause	Possible Remedy
Shower cycles from hot to cold.	Power ON Low Flow OFF	ECO/ HIGH	Temperature control or power control setting too high.	Turn the power control to Eco or turn the temperature control until a cooler temperature is achieved.
Showerhead dripping.	Power ON Low Flow ON	ECO/ HIGH	Hose or Shower head blocked. Inlet filter blocked. Water pressure below minimum required for shower operation.	Remove and clean Shower head. Check hose for kinks. Refer to <b>User Guide</b> . Remove and clean. See <b>Servicing</b> . Make sure incoming mains water stopcock and/or shower isolating valve is fully turned on.
	Power OFF Low Flow OFF	ANY	Insufficient water supply pressure for shut off. <b>Note!</b> If other appliances are operating, static pressure may drop below 20 kPa (0.2 bar). Contact local water company.	Minimum static pressure to ensure shut off and prevent dripping is 20 kPa (0.2 bar). <b>Note!</b> If other appliances are operating, static pressure may drop below 20 kPa (0.2 bar). Contact local water company.
Low or no flow.	Power ON Low Flow OFF	ANY	Hose or Shower head blocked. Service tunnel or cover not fitted correctly causing Start/Stop button not to operate. Inlet valve faulty.	Remove and clean Shower head. Check hose for kinks. Refer to <b>User Guide</b> . Check case inserts are cut and fitted correctly. Make sure electrical and plumbing services are not interfering with location. Replace parts.
	Power ON Low Flow ON	ANY	Water supply pipework or inlet filter restricted by a blockage or partial blockage. Insufficient water supply pressure/flow for operation. Other outlets (e.g. toilet, washing machine, etc) drawing water whilst the shower is on.	Flush supply pipe. Clean inlet filter. Contact local water company. Supply pressure must be a minimum of 70 kPa (0.7 bar). <b>Note!</b> If other appliances are operating, pressure may drop below 70 kPa (0.7 bar). Turn off other appliances whilst shower is in use.
Operation of temperature control has little or no effect on water temperature.	Power ON Low Flow OFF	ECO/ HIGH	Inlet valve faulty. Heater tank failure. Microswitch failure. Thermostatic mechanism failure. Temperature control belt.	Replace parts.

**Guarantee**  
Your product has the benefit of our manufacturer's guarantee which starts from the date of purchase. This guarantee only applies in the United Kingdom and Republic of Ireland. To activate this guarantee, please return your completed registration card, visit our website or free phone 0800 597 8551 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 loss 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 TMV 2 or TMV 3 healthcare schemes.
  - Accidental or wilful damage.
  - Products purchased ex-showroom display.

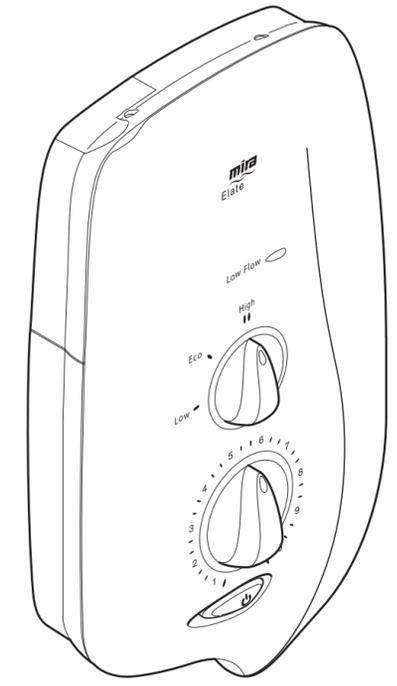
**What to do if something goes wrong**  
If your product does not work correctly refer to this manual for fault diagnosis and check that it is installed and commissioned in accordance with our instructions. If this does not resolve the issue, contact us for help and advice.

- Helpdesk Service**  
Contact 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 - contact 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. (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.

**To Contact Us**  
0844 571 5000  
Please note: Calls cost 7p per minute plus your phone company's access charge.  
Fax: 01242 282595  
E-mail - Visit [www.mirashowers.co.uk/contactus](http://www.mirashowers.co.uk/contactus)  
By Post: Mira Customer Services Dept, Cromwell Road, Cheltenham, Gloucestershire, GL52 5EP

**To Contact Us: Eire Only**  
01 531 9337  
E-mail: [CustomerServiceEire@mirashowers.com](mailto:CustomerServiceEire@mirashowers.com)

Mira Elate  
9.0, 9.8 kW



## INTRODUCTION

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

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

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

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

Electrical and electronic devices contain a range of materials that can be separated for recycling and used in new products.

This shower should not be disposed of with your general household waste. When this shower has reached the end of its serviceable life please take it to a recognised WEEE (Waste Electrical and Electronic Equipment) collection facility such as your local civic amenity site for recycling.

Your local authority or retailer will be able to advise you of your nearest collection facility.

### Mira Elate models covered by this guide:

Product	Model Number	Colour
Mira Elate 9.0 kW	J95N	White/Chrome
Mira Elate 9.8 kW	J95P	White/Chrome

### Guarantee

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

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

## IMPORTANT SAFETY INFORMATION

**WARNING! This shower can deliver scalding temperatures, cause fire, electric shock or other personal injury if not installed, operated or maintained in accordance with the instructions, warnings and cautions contained in this guide and on or inside the appliance.**

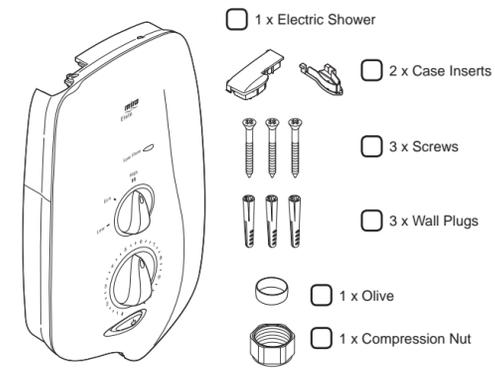
**Please read the important safety information and the installation requirements detailed in this guide before installing the shower. Failure to follow the instructions provided with this shower will invalidate the guarantee.**

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

- Installation of this shower must be carried out in accordance with these instructions by qualified, competent personnel.
- 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.
- DO NOT** install the shower in areas with high humidity and temperature (i.e. steam rooms and saunas).
- DO NOT** install the shower where it may be exposed to freezing conditions. Ensure that any pipework that could become frozen is properly insulated.
- DO NOT** switch the shower on if there is a possibility that the water in the shower is frozen.
- DO NOT** switch the shower on if water starts leaking from the shower case. Isolate the electrical supply to the shower immediately.
- DO NOT** connect the outlet of the shower to any tap, control valve, trigger operated handset or showerhead other than those specified for use with this shower. Only Kohler Mira recommended accessories should be used.
- 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.

- DO NOT** perform any unspecified modifications, or drill or cut holes in the product other than instructed by this guide. When servicing only use genuine Kohler Mira replacement parts.
- 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.
- Read all installation instructions before installing this shower.
- Upon completion of the installation, make sure that the user is familiar with the operation of the shower, and leave this guide and the user guide with the owner.

## PACK CONTENTS



### Documentation

- 1 x Installation Guide
- 1 x Installation Template
- 1 x User Guide
- 1 x Guarantee Brochure

## SPECIFICATION

Plumbing	Variant	
	9.0	9.8
Minimum Dynamic Pressure	70 kPa (0.7 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	
Maximum Water Hardness	200 ppm CaCO <sub>3</sub>	
Outlet Connection	1/2" BSP Male	

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

Electrical	Variant	
	9.0	9.8
Nominal Power at 240 V ac	9.0 kW	9.8 kW
Nominal Power at 230 V ac	8.3 kW	9.0 kW
Recommended MCB Rating	40A	45A
Maximum Supply Cable Size	16 mm <sup>2</sup>	
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	369 mm
Width	205 mm
Depth	85 mm

## European Conformity Information

The Mira Elate range of showers complies with the following European directives:

2006/95/EC Low Voltage Directive, 2004/108/EC EMC Directive, 2011/65/EU RoHS Directive.

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

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

## INSTALLATION REQUIREMENTS

### Plumbing

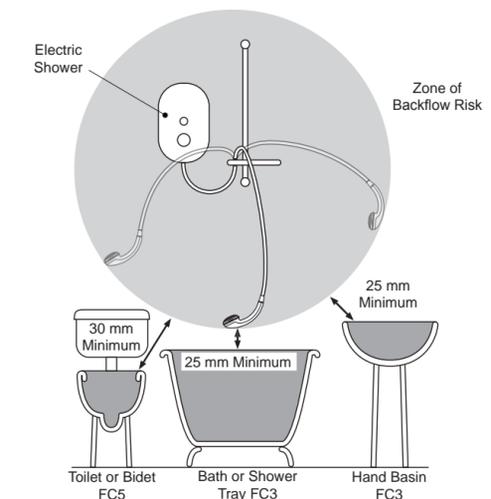
- The plumbing installation must comply with all national or local water regulations and all relevant building regulations, or any particular regulation or practice specified by the local water supply company.
- DO NOT** install the product in a position in which service access is limited.
- Decide on a suitable position for the shower (minimum distance of 200 mm from the ceiling to allow for cover fit and removal).
- 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 next page).
- 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.
- The shower must be fitted to a waterproof flat and even wall surface.
- DO NOT** fit the shower to the wall and tile up to the case.
- DO NOT** seal the gap between the shower and the wall surface.
- The showerhead should be positioned so that it discharges down the centre line of the bath or across the opening of a shower cubicle.
- The showerhead must be directed away from the shower unit, during normal use the showerhead must not spray directly on to the shower unit.
- 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.
- 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.
- 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.
- This shower is intended to be permanently connected to the mains water supply, only use the inlet connection supplied with the shower. **DO NOT** use any other type of fitting.
- 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.
- A water treatment device should be installed where the water hardness may exceed 200 ppm. Malfunctions caused by excessive limescale formation are not covered by this shower's guarantee (see back page for details).
- The installation must not cause the hose to be sharply kinked during normal use.
- For wall structures such as panels alternative fixings may be required. A minimum of 3 fixing screws should be used.
- DO NOT** perform the electrical installation until the plumbing has been completed and checked for leaks.

### Electrical

- The electrical installation must comply with BS 7671 (commonly referred to as the IEE Wiring Regulations) and all relevant building regulations, or any particular regulation or practice specified by the local electricity supply company.
- Ensure that all circuit protection devices, switches and cabling are adequate for the rated current of the shower and that the rating of the electricity supply company fuse and the consumer

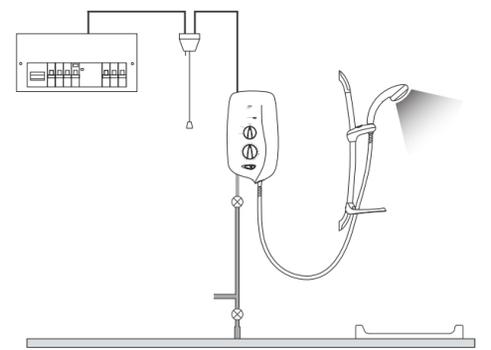
unit are adequate for the additional demand.

- The shower **must** be earthed. Ensure any supplementary bonding complies with the relevant regulations.
- This shower is intended to be permanently connected to the fixed electrical wiring of the mains system. A separate supply **must** be provided from the consumer unit to the shower.
- DO NOT** supply any other electrical equipment including extractor fans or pumps via this product.
- This shower must be provided with means for local disconnection that is incorporated into the fixed wiring in accordance with the relevant local wiring regulations. This **must** be a double pole switch, which has at least 3 mm contact separation in each pole. The switch can be a ceiling mounted pull-cord type within the shower room or a wall mounted switch fitted in the applicable zone area.
- For new installations a 30 mA Residual Current Device (RCD) must be incorporated into the electrical supply to the shower in accordance with the current wiring regulations. When replacing an existing electric shower we recommend that a 30 mA RCD is incorporated in accordance with current wiring regulations if not already provided.
- DO NOT** apply excessive force to the terminal block.
- All electrical connections should be checked for tightness to prevent overheating before switching on the electrical supply.
- DO NOT** switch on the electrical supply until the plumbing has been completed and checked for leaks.



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

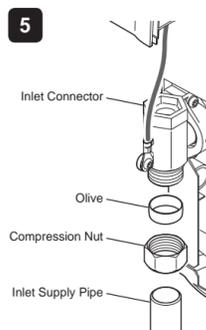
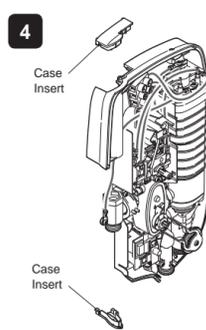
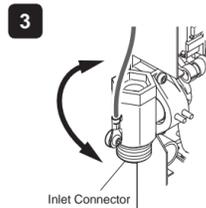
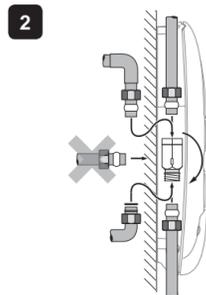
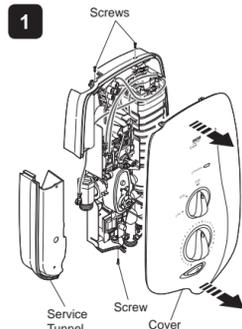
**Note!** There will be occasions when the hose retaining ring will not provide a suitable solution for Fluid Category 3 installations, in these instances an outlet double checkvalve must be fitted, this will increase the required supply pressure typically by 10kPa (0.1 bar). Double checkvalves fitted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



Plumbing and Electrical Schematic

## INSTALLATION

**Warning! Isolate the electrical and water supplies before installing the shower.**



Remove the three screws that hold the cover on and remove the cover.

Remove the service tunnel.

Using the installation template supplied, mark the positions of the **three** fixing holes.

**Note!** Ensure that there are sufficient lengths of supply pipe and electrical cable to reach the connection points.

Remove the installation template and drill three holes to suit the fixing screws and wall plugs.

**Caution!** Do not drill into cables or pipes in the wall.

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.

**Thoroughly flush the supply pipe.**

Rotate the inlet connector to suit the direction of the incoming water supply. **DO NOT** stretch or trap the earth wire.

Upper and lower case inserts are supplied and should be fitted.

**Note!** Trim the inserts if necessary to fit incoming electrical or water supplies before fitting.

Secure the shower to the wall with appropriate wall fixings.

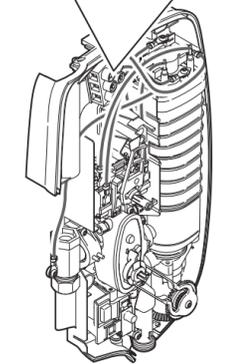
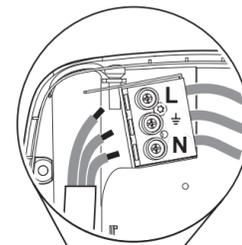
Connect the inlet supply pipe to the inlet connector using the compression nut and olive (supplied).

Always provide mechanical support when making plumbing connections.

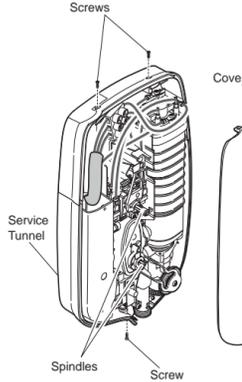
Upon completion of the installation ensure connections and back case are not under any stress due to misaligned pipework or electrical cables.

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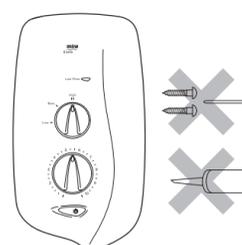
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8



9



Install the shower fittings (Refer to the Shower Fittings Installation and User Guide packed with the product).

Turn on the water supply and check for leaks.

Strip back sufficient outer cable insulation to enable routing to terminal block.

Fit an earth sleeve to the earth wire.

Loosen the screws in the terminal block and insert the wires.

L (Live) = Brown Wire

⊕ (Protective Earth) = Green /Yellow Sleeved Wire

N (Neutral) = Blue Wire

Tighten the screws in the terminal block, ensure the wires are secure and tight.

Ensure the earth bonding complies with relevant regulations.

Refit the service tunnel.

Ensure the control dials are aligned with the spindles and replace the cover.

Re-secure the cover with the three cover screws.

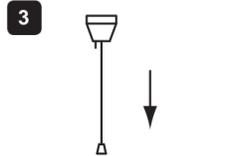
**Do not** use alternative screws to secure the cover. This can cause internal damage to the appliance. **Do not** seal around the back of appliance.

This completes the installation, follow the guidelines in section '**COMMISSIONING**' to prepare the shower for use.

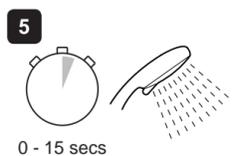
## COMMISSIONING



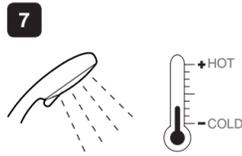
Turn temperature control to the cold position.



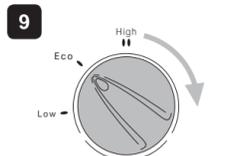
Switch on the electrical supply.



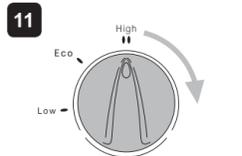
Water flows freely within a few seconds, temperature remains cool.



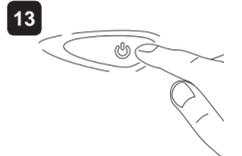
Flow is reduced and temperature remains cool.



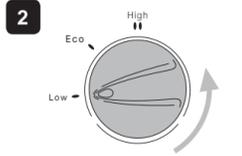
Turn power control to Eco.



Turn power control to High.



Push START/STOP button. Light in the button goes out.



Turn power control to low.



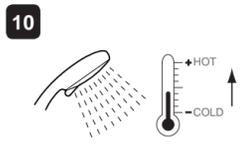
Push START/STOP button. Light in the button illuminates.



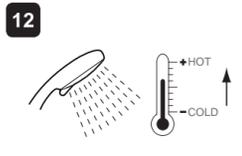
Slowly turn the temperature control to the hot position.



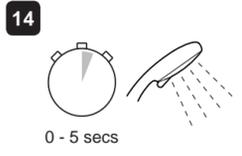
Turn temperature control back to the midway position.



Temperature will rise slightly.



Temperature will rise further.



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