Mira Advance
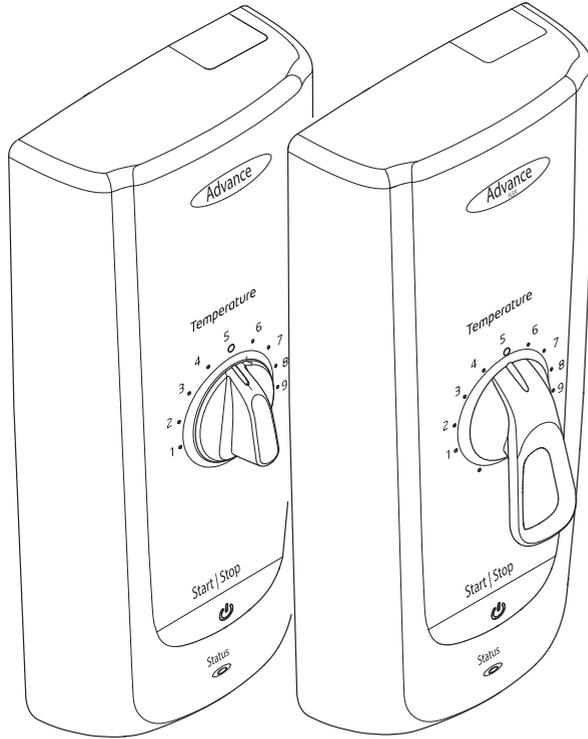THERMOSTATIC
ELECTRIC SHOWER
8.7 and 9.8 kW

BEAB CARE

Intertek

RNIB approved

For **SPARES**, **ADVICE** or **REPAIRS** please call us free on **0800 001 4040** (UK only)

These instructions must be left with the user

Installation & User Guide

Showering perfection

mira
S H O W E R S

Contents

Important Safety Information

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

Please read the important safety information and the operation section of this guide before using the shower. Failure to follow the information or instructions provided on or with this shower will invalidate the guarantee.

Warning! The shower head and hose supplied with this product are critical to its correct operation. When installing or exchanging an electric shower always fit and use the shower head and hose provided with the product.

If any future change of the shower head or hose is required only fit suitable Mira manufactured products. Non-Mira manufactured shower heads may not be suitable for electric showers. They can be very restrictive or stop the flow of water, this is dangerous and could lead to product damage, scalding or serious injury.

If you are unsure about the shower head and hose compatibility with your shower contact Mira Customer Services.

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

1. Children younger than 3 years should not use this shower. Children 3 years to under 8 years should only use this shower under continuous supervision. Children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience or knowledge can use the shower if they are given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

2. Children shall not be allowed to play with the shower.

3. Cleaning and user maintenance shall not be made by children.

4. **DO NOT** restrict the water flow from the shower outlet, temporarily bending the shower hose or blocking the shower head, such as placing against your body while in use can cause a very hot shot of water to be discharged.

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5. The outlet must not be connected to any tap or fitting other than those specified.

6. The showerhead must be descaled regularly. Any blockage of the showerhead or hose can cause injury or scalding.

7. **Warning! DO NOT** switch on if there is a possibility that the water in the shower is frozen.

8. **Warning!** If the shower has symptoms of low or no flow from the outlet, immediately turn it off and **DO NOT** operate the shower. Any further diagnosis must be carried out with the power control set to low and the temperature control set to full cold (see **Commissioning**).

9. 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.

10. Installation of the shower must be carried out in accordance with these instructions by qualified, competent personnel. Read all instructions before installing the shower.

11. **DO NOT** switch the shower on if water starts leaking from the shower case. Isolate the electrical supply to the shower immediately.

12. **DO NOT** switch the shower on if the case appears to be damaged or incorrectly fitted. Isolate the electrical supply to the shower immediately.

13. **DO NOT** increase the power setting or adjust the temperature control rapidly while using the shower. Move away from the shower and ensure the temperature has stabilised before re-entering the shower.

14. **DO NOT** switch the shower off and back on while standing in the water flow. Move away from the shower and ensure the temperature has stabilised before re-entering the shower.

15. **DO NOT** change the handset model. Fit only shower heads recommended by Mira and do no fit any additional device to restrict the water outlet flow.

16. When adjusting the handset mode, point handset away from body and make sure that the water temperature has stabilised before continuing to shower.

17. Use caution when altering the water temperature, always check the temperature before continuing to shower.

18. Switch the shower off at the electrical isolating switch when not in use. This is recommended with all electrical appliances.

19. 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.

20. **DO NOT** install the shower in areas with high humidity and temperature (i.e. Steam rooms and saunas).

21. **DO NOT** install the shower where it may be exposed to freezing conditions. Ensure that any pipework that could become frozen is properly insulated.

22. **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 as the outlet acts as a vent for the tank body. Only Kohler Mira recommended accessories should be used.

23. **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.

24. **DO NOT** connect this shower to a Waste Water Heat Recovery System as this may cause unstable or scalding temperatures to be delivered from the shower head.

25. Always check the water temperature is safe before entering the shower.

26. The water supply 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.

27. If the shower is dismantled during installation or servicing then, upon completion, an inspection must be made to ensure all electrical connections are tight and that there are no leaks.

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28. This appliance is intended to be permanently connected to the water mains and not connected by a hose set.
29. The water inlet of this appliance shall not be connected to a water supply obtained from any other water heating system.
30. **Warning!** This appliance is not to be used to provide a potable water supply.
31. Maximum Static Pressure is 1000 kPa (10 bar).
32. Minimum Dynamic Pressure is 50 kPa (0.5 bar),

    For BEAB Care - 100 kPa (1 bar).

Introduction

Thank you for choosing a Mira 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. This guide is also available in digital format from our website or by contacting customer services.

Products Covered

Product Variant		Adjustable Temperature Limit	Extended Lever Control	Drain Pump Compatible	Model No.
Standard	8.7 kW	✓	✗	✗	J09A
	9.8 kW	✓	✗	✗	J09D
Flex	8.7 kW	✓	✓	✗	J09G
	9.8 kW	✓	✓	✗	J09K
Flex Extra	8.7 kW	✓	✓	✓	J09Nn

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Kohler Mira Ltd is under license. Other trademarks and trade names are those of their respective owners.

If you experience any difficulty with the installation or operation of your new Advance Thermostatic Electric Shower, then please refer to **'Fault Diagnosis'**, before contacting Mira Showers. Our contact details can be found on the back cover of this guide.

Recommended Usage

Domestic	✓	Light Commercial	✓
Heavy Commercial	✗	Healthcare	✓

This product is classified as suitable for Domestic and Light Commercial Use and Healthcare, for installation in the UK only. For installation outside of the UK please contact Mira Showers/Rada for advice on suitability.

Examples of Light Commercial use and Healthcare are given but not limited to those shown below. The list is not comprehensive and circumstances may vary. If you are unsure on the product's suitability please contact Rada/Mira. For maximum user safety in Light Commercial use and Healthcare, Rada strongly recommends that only Thermostatic Electric showers be installed:

- Domestic = Household use in ordinary domestic premises
- Light Commercial = Residential Setting e.g. Accommodation covering student let/halls, hotels, guest houses, hostels
- Heavy Commercial = Public Setting covering sport/leisure, Public/factory washroom etc.
- Healthcare = Use of a product in a residential care home, health surgery, hospital. Products must be BEAB 'Caremark' approved.
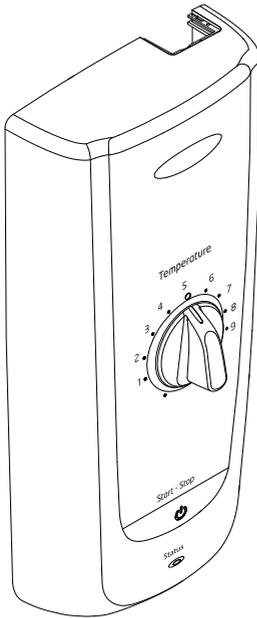
Guarantee

For **domestic installations**, Mira Showers guarantee the Mira product against any defect in materials or workmanship for a period of **two years** from the date of purchase (shower fittings for one year).
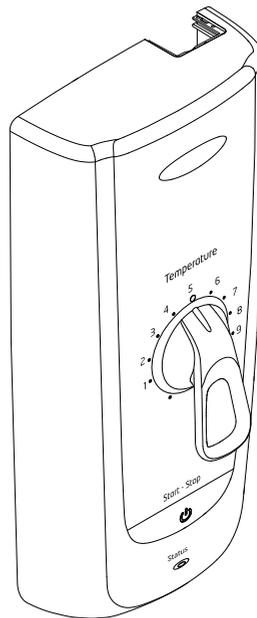
For **non-domestic installations**, Mira Showers guarantee the Mira product against any defect in materials or workmanship for a period of **one year** from the date of purchase. For Terms and Conditions refer to the back cover of this guide.

Pack Contents

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

☐ 1 x Mira Advance Standard

OR

☐ 1 x Mira Advance Flex or Flex Extra
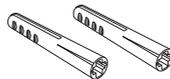(Instantmatch by Whale® Pump supplied separately)

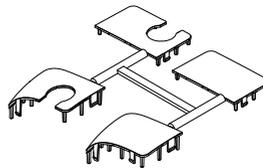

☐ 1 x Compression Nut

☐ 2 x Fixing Screws

☐ 1 x Olive

☐ 2 x Wall Plugs

☐ 1 x Cover Insert

Documentation

☐ 1 x Installation & User Guide

☐ 1 x Guarantee Card

☐ 1 x Installation Template & Energy Label

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Specifications

Plumbing Supply	Supply Source	Mains pressure cold water only	
	Minimum Dynamic Pressure*	50 kPa (0.5 bar) (100 kPa (1 bar) BEAB Care)	
	Maximum Dynamic Pressure	500 kPa (5.0 bar)	
	Maximum Static Pressure	1000 kPa (10 bar)	
	Minimum Static Pressure**	20 kPa (0.2 bar)	
	Maximum Inlet Temperature	30°C (20°C BEAB Care)	
	Minimum Inlet Temperature	2°C (5°C BEAB Care)	
	Inlet Connection	½" BSP male and 15 mm compression fitting.	
	Outlet Connection	½" BSP male fitting	
Electrical Supply	Nominal Rating at 230 V	8.0 kW	9.0 kW
	Nominal Rating at 240 V	8.7 kW	9.8 kW
	Supply Fuse/Circuit Breaker	8.7 kW	40 Amps
		9.8 kW	45 Amps
	Residual Current Device RCD	30 mA	
	Supply Cable	No larger than 16 mm² Note: Refer to current IEE regulations and BS 7671 to determine minimum cable size.	
	Isolation Switch	45 Amp Double pole, with 3 mm contact separation.	
Maximum Ambient Temperature		30°C	
Minimum Ambient Temperature		2°C	
Ingress Protection Rating / IPX4			
Dimensions (shower unit)			
Height		408 mm	
Width		187 mm	
Depth		Flex : 112 mm , Standard : 105mm	

*   Recommended dynamic pressure of 100 kPa (1.0 bar) for full flow performance.

**   Static pressure must never fall below 20 kPa (0.2 bar) when other draw offs are in use, e.g. flushing toilet. This is the minimum pressure required to keep the flow valve closed.

UK & EU Conformity Information

The Mira Advance complies with the requirements of the BEAB Care Mark Standard and the relevant directives & regulations for UKCA & CE marking. The BEAB Care mark is invalid if the product is not installed and used in accordance with the manufacturer's specifications and instructions.

This product is in conformity with the relevant statutory requirements applicable to the product:

UK Legislation:

- S.I. 2016/1091 Electromagnetic Compatibility Regulations
- S.I. 2016/1101 Electrical Equipment (Safety) Regulations
- S.I. 2012/3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment
- S.I. 2010/2617 The Ecodesign for Energy-Related Products and Energy Information Regulations

EU Legislation:

- 2014/35/EU - Low Voltage Directive (LVD)
- 2014/30/EU - Electromagnetic Compatibility Directive (EMC)
- 2011/65/EU - Restriction of Hazardous Substances Directive (RoHS)
- (EU) No 814/2013 - Ecodesign requirements for water heaters and hot water storage tanks

This range of electric 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.

This range of showers complies with the requirements of the UK's water regulations.

Hereby, Kohler Mira Ltd. declares that the radio equipment type Mira Advance Flex Extra (J09Nn) is in compliance with the radio equipment directive 2014/53/EU & radio equipment regulations S.I. 2017/1206. The full text of the UK & EU declaration of conformity is available at the following internet address: www.mirashowers.co.uk.

The Mira Advance Flex Extra (J09Nn) operates in the 2.4 GHz frequency band at a maximum radio frequency power of +8 dBm.

Disposal and Recycling

End of Product Life

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

This product should not be disposed of with your general household waste. When this product has reached the end of its serviceable life, please remove any batteries and 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 recycling facility.

Eco-Design/Energy Labelling

Product Information

Indicative annual electricity consumption (kWh), based upon 2100 kWh daily energy demand. Actual electricity consumption will depend on kW rating and the duration and frequency of use.

	Mira	
	Advance NG	
	8.7 kW	9.8 kW
Load Profile	XS	XS
Efficiency Class	A	A
Efficiency (%)	39.2	39.2
Annual Electricity Consumption (kWh)	471	471
Sound Power Level (dB)	15	15

Tools Required

6.0 mm
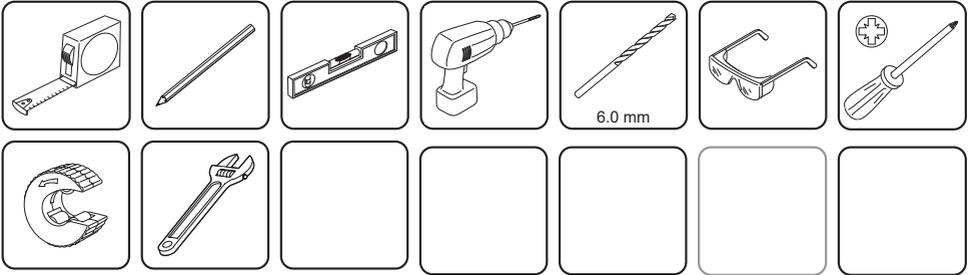
Installation Requirements

General

We recommend that the product be brought into the room where it is to be installed and left to acclimatise to room temperature, this will reduce the possibility of condensation on electronic components.

The shower works best when water supply conditions are stable and within the specifications, refer to section **'Specifications'**. If the supply conditions fall outside the specifications, the shower may go into a safe shut down condition.

DO NOT connect the outlet of the shower to any tap, on/off control valve, trigger operated showerhead or any other showerhead other than those specified for use with this shower. This could cause scalding or severe damage to the product and will invalidate the guarantee. Only Kohler Mira recommended showerheads, shower hoses and accessories must be used.

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.

Route cable and pipe supplies via the cut outs moulded in the case and cover.

DO NOT perform any unspecified modifications to the shower or its accessories. Drilling fixing holes or making water or electrical entry points outside of the showers designed areas can lead to uncontrolled water ingress. This could cause fire, electrocution or damage to the product and will invalidate the product guarantee. When servicing only use genuine Kohler Mira replacement parts.

DO NOT increase the size or cut alternative pipe / cable entry points as water ingress into the product may occur.
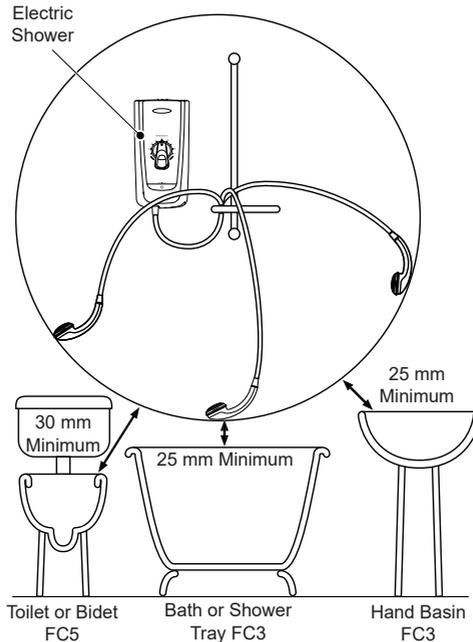
After completing the installation be careful when cleaning. Many household and commercial cleaners, including tile cleaners and hand/surface cleaning wipes contain abrasives and chemical substances that can damage plastics, plating and printing and should not be used. These finishes should be cleaned with a mild washing up detergent or soap solution, and then wiped dry using a soft cloth.

Plumbing

Refer to section: **'Important Safety Information'** first.

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** use any other shower fittings. Only install and use the shower hose and handset provided with this product.

3. **DO NOT** use sealing compounds on any pipe fitting or joints.

4. 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.

5. Never fit the appliance to hot water supplies or to gravity systems of any description. Only fit the product to a mains cold water pipe.

6. If the pressure exceeds the maximum specified then a drop tight pressure reducing valve (PRV) must be fitted. This should be sited as close to the incoming mains stopcock and ideally set to 3.5 bar.

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

8. Supply pipework **MUST** be flushed to clear debris before connecting the appliance. Debris will reduce the performance of the shower and may damage the product. Avoid running the pipework through excessively hot or cold areas such as hot loft spaces, airing cupboards, or in close proximity to hot water pipes. If this cannot be avoided, we recommend insulating the pipes.

9. The shower must be fitted onto a tiled or sealed finished surface i.e. on top of tiles. **DO NOT** tile up to the sides of the shower or use a sealant around the case. Failure to do this may cause appliance failure. To ensure the case and other components are not put under strain during installation 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.

10. We recommend that a non-restrictive (free flowing) isolating valve is fitted in the cold water supply pipe to allow maintenance of the appliance.

11. When installed in very hard water areas (above 200ppm temporary hardness) your installer may advise the installation of a water treatment device, to reduce the effects of limescale formation. Any malfunction due to limescale is not covered by the manufacturer's guarantee. Your local water company will be able to advise the hardness of water in your area.

12. Wall fixings are supplied for solid wall structures. For other wall structures such as wall panels alternative fixings may be required. A minimum of 2 fixing screws must be used.

13. 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.
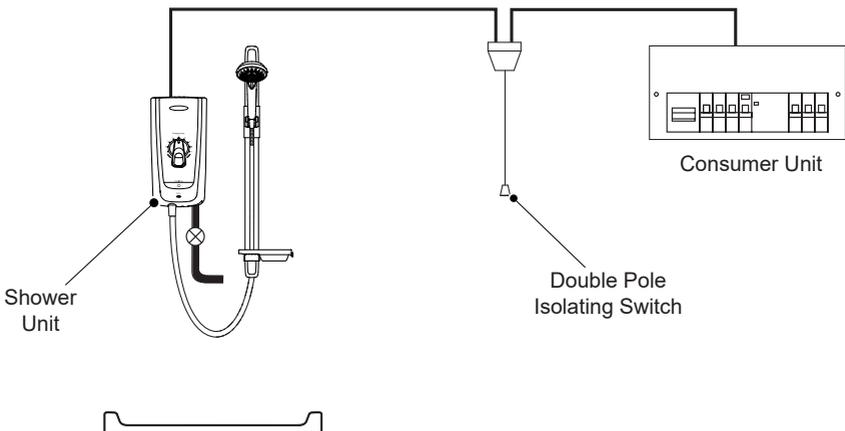
Electric Shower

25 mm Minimum

30 mm Minimum

25 mm Minimum

Toilet or Bidet FC5

Bath or Shower Tray FC3

Hand Basin FC3

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 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.

Electrical

Refer to section: **'Important Safety Information'** first.

1. In a domestic installation, the rating of the electricity supplier's fuse and the consumer unit must be adequate for the additional demand. All Mira Advance electric showers are high power appliances. Voltage drop due to local heavy demand will reduce the shower's performance.

2. The appliance must be earthed by connecting the supply-cable earth conductor to the earth terminal. Any supplementary bonding and supply cable size must conform to BS 7671.

3. As a guide only, and in accordance with BS 7671 we recommend close circuit protection:

    i.e.   **8.7 kW = 40 Amp**

    9.8 kW = 45 Amp

4. 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.

5. A separate, permanently connected supply must taken from the consumer unit to the appliance through a double-pole switch, which has at least 3 mm contact separation. The switch can be a ceiling mounted pull cord type within the shower room or a wall mounted switch in the applicable zone area.

6. **DO NOT** exert strain on the terminal block. Make sure that the electrical connections are tightly screwed down.

7. **DO NOT** turn on the electrical supply until the plumbing has been completed.

8. Unless otherwise stated, electrical equipment such as extractor fans, pumps must not be connected via this product.

Shower Unit

Double Pole Isolating Switch

Consumer Unit

Electrical Schematic Diagram
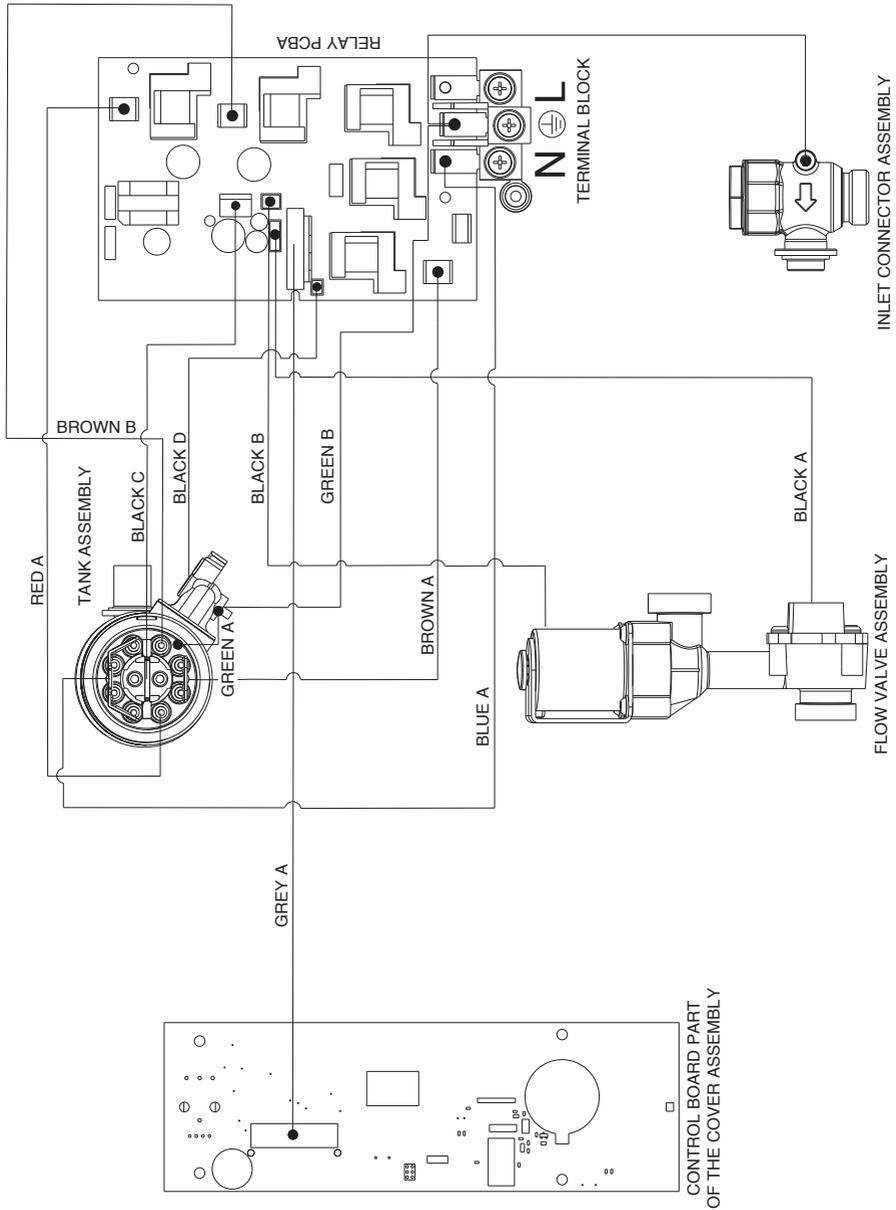
Shower Unit Wiring Diagram - Standard and Flex Product Only

RELAY PCBA

N L
TERMINAL BLOCK

INLET CONNECTOR ASSEMBLY

BROWN B

RED A

TANK ASSEMBLY

BLACK C

BLACK D

BLACK B

GREEN B

GREEN A

BROWN A

BLACK A

BLUE A

FLOW VALVE ASSEMBLY

GREY A

CONTROL BOARD PART
OF THE COVER ASSEMBLY

Installation

Warning, isolate the electrical and water supplies before installing the shower!

Decide on a suitable position for the shower unit and fittings leaving adequate space for maintenance. A suitable position for the shower will have a minimum clear distance of 100 mm around the shower unit to allow for cover removal and refitting. See *"Installation - Plumbing"* for further details.

Note: If installation includes an Instantmatch by Whale® drain pump, see **"Bluetooth"** section for information on position of wireless devices.

Use the installation template provided to mark and drill the required fixing holes. **Do not** drill through the shower unit into the wall. Plaster and brick dust will damage the internal components of the product. **DO NOT** drill into buried cables or pipes.
Note: Make sure that you mark a minimum of two fixing holes, one at the top and one at the bottom.

1

Remove the cover screw.

2
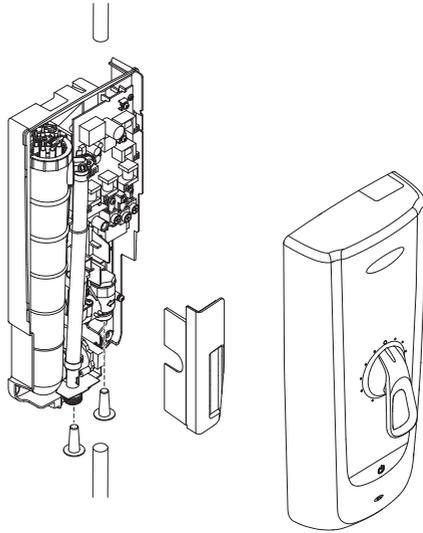
Remove the cover, the service tunnel and the bungs. Determine the cable and pipe supply either top or bottom or rear connection.

3
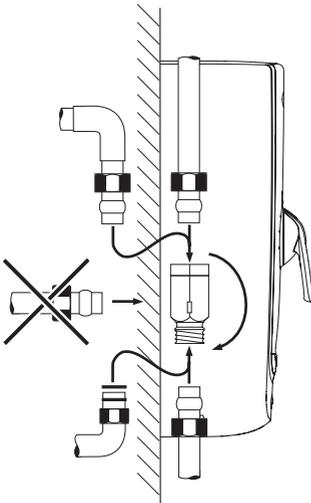
Turn the inlet connector to suit supply pipe. **Do not** trap the green wire.

4
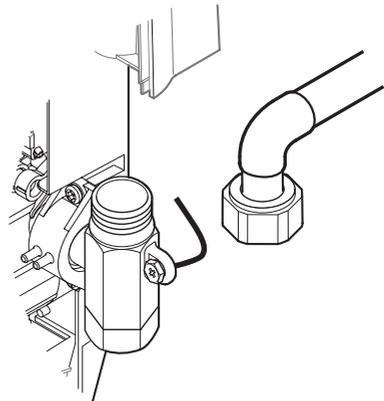
Complete any soldering required away from the appliance.

5

DO NOT REMOVE TO FLUSH THE PRODUCT
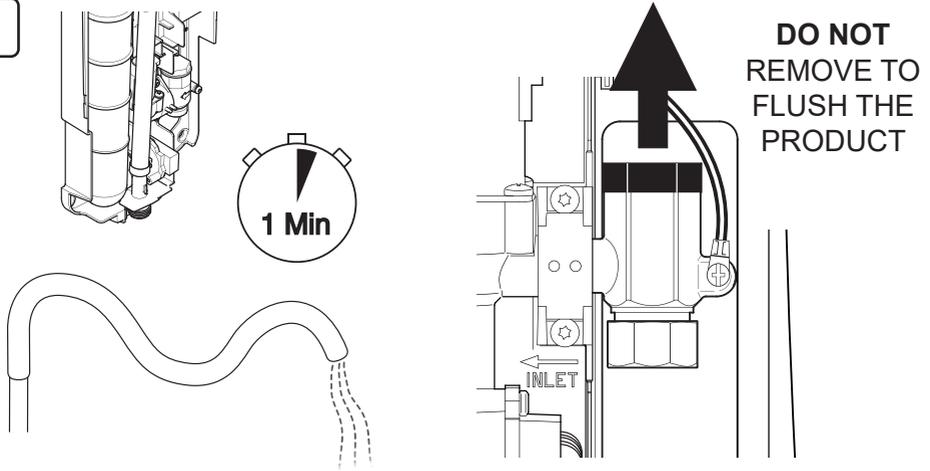
INLET

DO NOT flush through the product by removing the inlet filter. Debris may damage the product and invalidate the guarantee.

Flush the pipework for approximately 1 minute prior to connection.

6

N L

WARNING THIS APPLIANCE MUST BE EARTHED

INLET
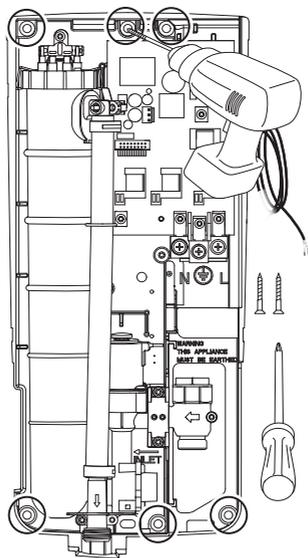
Drill the fixing holes through the plastic case in the designated areas as required.
Route the signal cable to the shower drain pump (if applicable).
Fix the appliance to the wall.
Use appropriate screws and wall plugs for fixing.
Note: Make sure that the product is securely fixed to the wall.

7
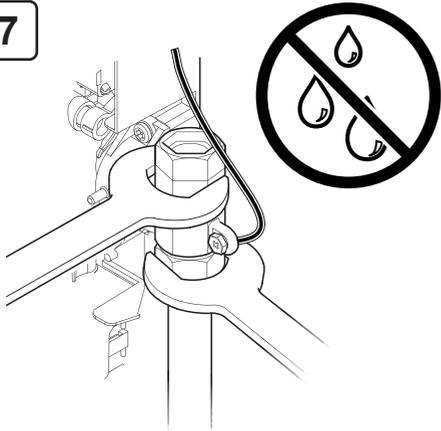
Connect supply pipe, then turn the water supply on and check the shower unit for leaks. **DO NOT** overtighten.

8
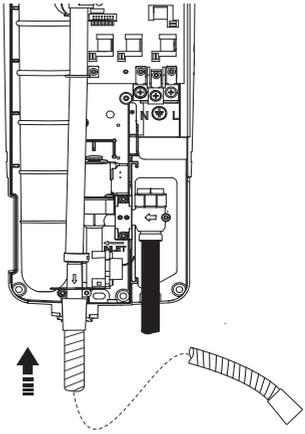
Connect the hose pointing into the bath or tray.

Note: Make sure that the hose washer is fitted.

DO NOT fit the shower head at this stage.

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9 **Important! Priming the Shower**

Make sure that the electrical supply is isolated!

To prime the appliance, push down and hold the air bleed button until water flows from the hose and water leaks from the air bleed button. Do this for a minimum of 10 seconds and repeat this procedure 3 times.

Failure to prime the appliance will seriously affect the shower performance!

Note: Water will leak from bleed button.

Carefully dry off water before connecting / reinstating the electrical supply.

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10

N = Blue or Black
⏚ = Green or Yellow/Green
L = Brown or Red
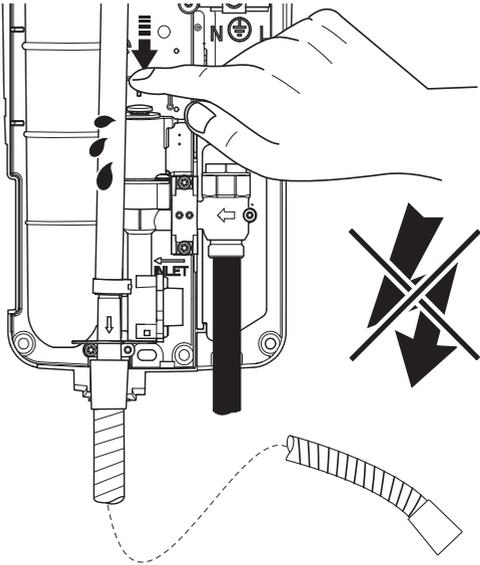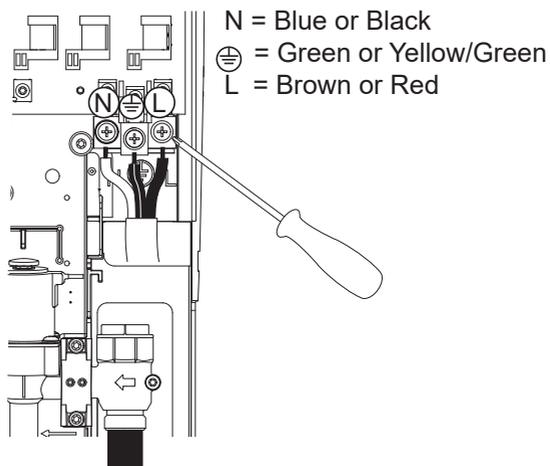
Feed the electrical cable into the case. Firmly connect the conductors. **DO NOT** exert strain on the terminal block.

11
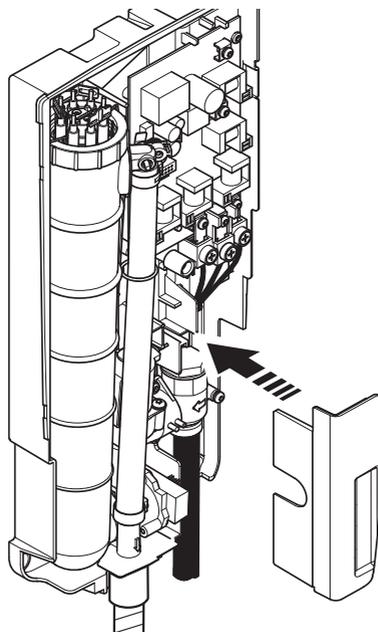
Refit the service tunnel.
Important! Refer to set up before fitting the front cover.

12 **Setup**

Maximum Temperature/BEAB/Eco (6 L/Min)

You must set the product up to ensure it operates correctly for the users requirements.

BEAB and Eco mode cannot be used together, if both modes are selected the shower will operate in BEAB mode and the Eco switch will not have any affect.

Factory setting with all switches in the off position at maximum temperature of 48° C. Please refer below for examples of settings.
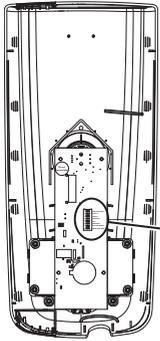
Rear of Cover
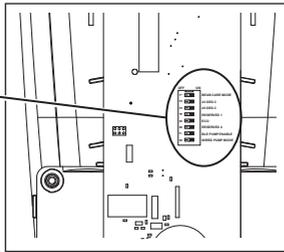
Factory Setting 48°C

	OFF	ON	
1			BEAB CARE MODE
2			43 DEG C
3			45 DEG C
4			RESERVED 1
5			ECO
6			RESERVED 2
7			BLE PUMP ENABLE
8			WIRED PUMP MODE

Beab 41° C

	OFF	ON	
1			BEAB CARE MODE
2			43 DEG C
3			45 DEG C
4			RESERVED 1
5			ECO
6			RESERVED 2
7			BLE PUMP ENABLE
8			WIRED PUMP MODE

43° C

	OFF	ON	
1			BEAB CARE MODE
2			43 DEG C
3			45 DEG C
4			RESERVED 1
5			ECO
6			RESERVED 2
7			BLE PUMP ENABLE
8			WIRED PUMP MODE

45° C

	OFF	ON	
1			BEAB CARE MODE
2			43 DEG C
3			45 DEG C
4			RESERVED 1
5			ECO
6			RESERVED 2
7			BLE PUMP ENABLE
8			WIRED PUMP MODE

Eco

	OFF	ON	
1			BEAB CARE MODE
2			43 DEG C
3			45 DEG C
4			RESERVED 1
5			ECO
6			RESERVED 2
7			BLE PUMP ENABLE
8			WIRED PUMP MODE

1306246-W2-E

Bluetooth Setup

Mira Advance Flex Extra (J09Nn) for use with the Instantmatch by Whale® Digital Pump
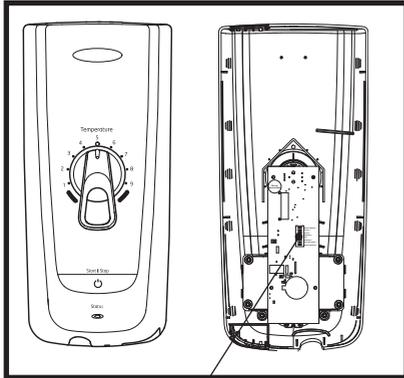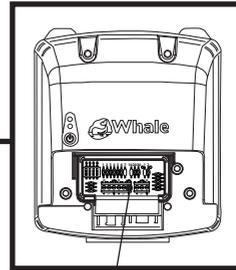
Flex Extra J09Nn

Instant Match Bluetooth Transformer SDS236T (755.699)

The bluetooth operation of the Advance Flex Extra (J09Nn) will only work with a Whale bluetooth transformer. Previous Whale RF wireless transformers will not connect to the bluetooth Advance.
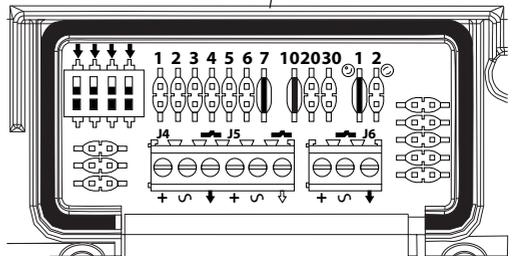
Note: Suitable Bluetooth transformer can be identified by blue start/stop button.

OFF	ON		
1	◄		BEAB CARE MODE
2	◄		43 DEG C
3	◄		45 DEG C
4	◄		RESERVED 1
5	◄		ECO
6	◄		RESERVED 2
7		►	BLE PUMP ENABLE
8	◄		WIRED PUMP MODE

48º C Factory setting and

Bluetooth transformer connection
BLE PUMP ENABLE set to **ON**

Jumper Settings for Bluetooth Pairing

Please refer to 'Bluetooth Pairing' to link the shower to the 'Whale' bluetooth transformer (SDS236T - 755.699)

Important Information Regarding Bluetooth Range!

Correct operation of the shower and pump relies on the strength of the bluetooth signal between them. You must install the Whale Pump and Bluetooth transformer as advised in the Whale Instantmatch installation guide. Failure to do so may cause the shower and pump not to pair or go into an error mode resulting in intermittent or complete failure to operate.

Note: The pump and shower should be hardwired if a Bluetooth signal can not be established.

For retrofit installations where a Whale Bluetooth transformer is fitted in place of a RF wireless transformer then testing for correct operation must be carried out before final install.

Note: Metal objects such as steel baths, sinks, foil lined plaster board or solid walls can reduce the operational range. Where a Bluetooth signal cannot be established the pump and shower should be hardwired.
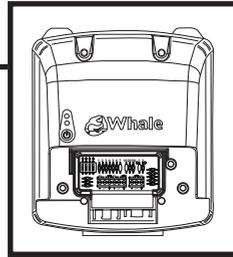
Hardwired Connection

Mira Advance Flex Extra (J09Nn) for use with the Instantmatch by Whale® Digital Pump
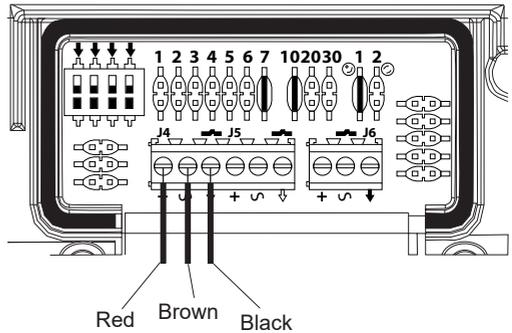
Flex Extra J09Nn
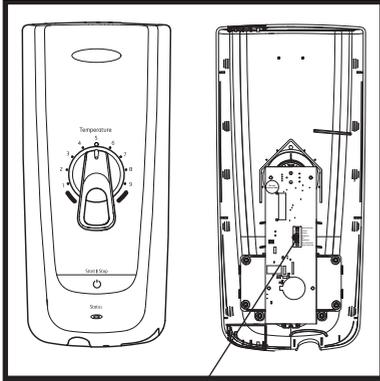
Whale Instant Match Transformer
SDS236T (755.699), SDS233T (755.617)
SDS135T (755.649)

	OFF	ON	
1			BEAB CARE MODE
2			43 DEG C
3			45 DEG C
4			RESERVED 1
5			ECO
6			RESERVED 2
7			BLE PUMP ENABLE
8			WIRED PUMP MODE

WIRED PUMP MODE set to **ON** or **OFF** depending which wired transformer used, see transformer table.

Red   Brown   Black

Jumper Settings and Cable Connection

If you are exchanging this Advance for a previous model (J97) that is using a pump driver board.

1. Remove and discard the driver board and its ribbon cable connections.

2. Cut the connector block off the end of the 2 wires coming into the shower from the waste pump.

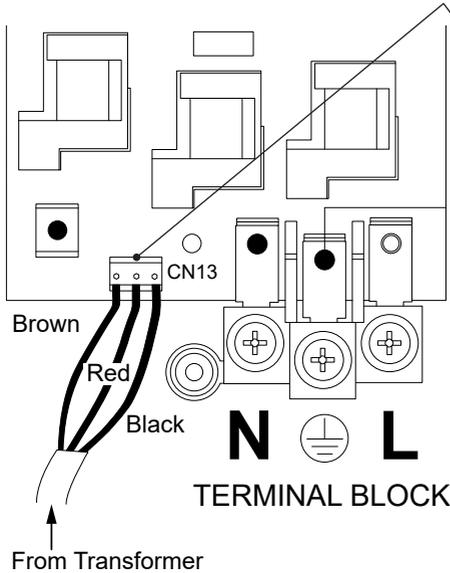**3.** Connect the two wires to the small terminal block on the relay PCB (as shown).

For new hard wired installations many waste pump manufacturers supply the cable to connect from the shower to the waste pump. If the cable is not supplied then Mira can supply a 4m length cable (part number 1759.125) This should be installed and connected as detailed.

**Advance Relay Board Showing Hardwired Connection to the Transformer**

Caution! Take care not to damage the relay board when making connections.

Configuration 1

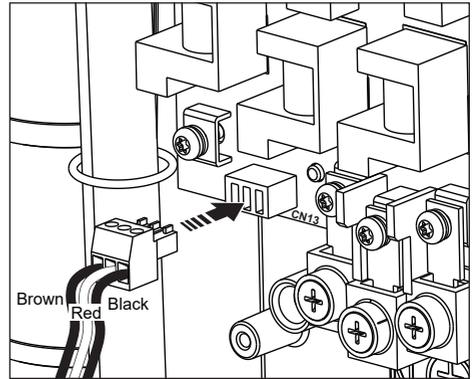**Important!** Make sure that you hold the connector when you tighten the screws.

CN13

Brown

Red

Black

N ⏚ L

TERMINAL BLOCK

From Transformer

3 wires signal cable connection to relay board

CN13

Brown

White

N ⏚ L

TERMINAL BLOCK
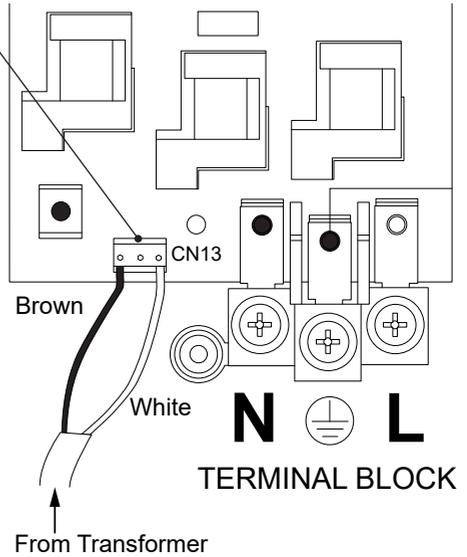
From Transformer

2 wires signal cable connection to relay board

Configuration 2

CN13

CN13

Brown Red Black
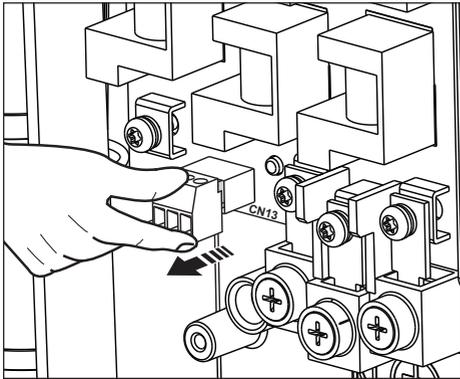
**1.** Remove the male connector from the relay PCB (CN13).

2. Connect the two or three wires from transformer and refit to the PCB.

Hardwired Connection - Other Whale Transformer

The Mira Advance 'Extra' models can be connected to the Instantmatch by Whale® Pump. This section describes how to identify and connect the shower to the drain pump. For full installation instructions of the Instantmatch by Whale® Pump, see separate guide.

TYPE
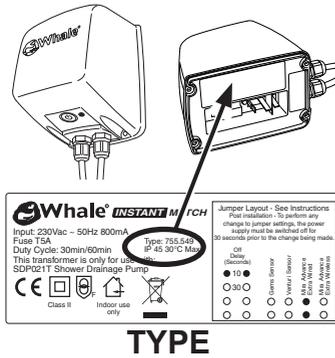
Drain Pump	Shower	
Type	**Advance Control PCB**	**Signal**
755.199	Wired pump mode - ON	Hardwired
755.210	Wired pump mode - ON	Hardwired
755.299	Wired pump mode - OFF	Hardwired
755.349	Wired pump mode - OFF	Hardwired
755.399	Wired pump mode - OFF	Hardwired
755.449	Wired pump mode - OFF	Hardwired
755.549	Wired pump mode - OFF	Hardwired/Wireless
755.678	Wired pump mode - OFF	Hardwired/ Bluetooth
755.699	Wired pump mode - OFF	Hardwired/ Bluetooth

13
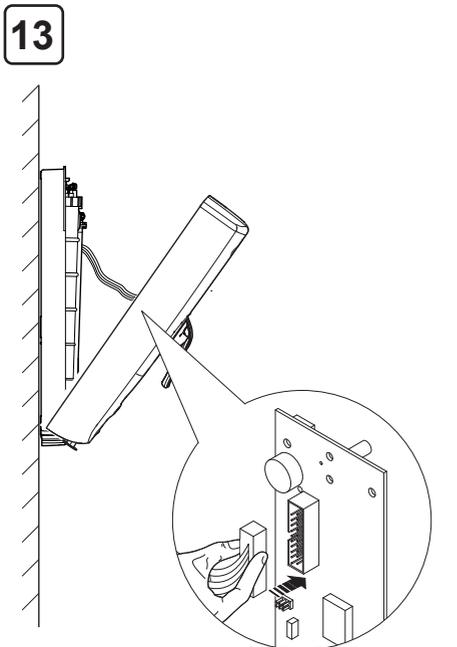
Connect ribbon cable to inside of cover.

14
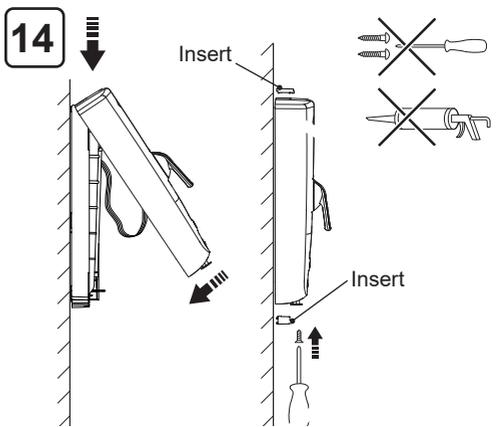
Insert

Insert

Refit cover. Inserts are provided to finish top and bottom as required.
Warning! Do not use alternative screws to secure cover. This can cause internal damage to appliance. Do not seal around any part of appliance.
Install the shower fittings. Refer to separate Installation and User Guide.
**Note:** Follow post installation requirements.

Bluetooth Pairing

Follow the steps below to pair the shower with a Bluetooth pump. If the shower has been paired previously and is required to pair with a different pump, it is necessary to unpair the shower first (see page 24).
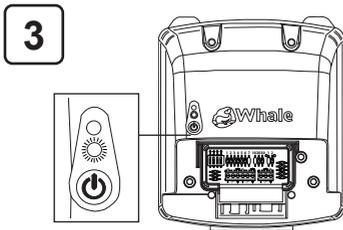
1

OFF   ON

1   BEAB CARE MODE
2   43 DEG C
3   45 DEG C
4   RESERVED 1
5   ECO
6   RESERVED 2
7   BLE PUMP ENABLE
8   WIRED PUMP MODE

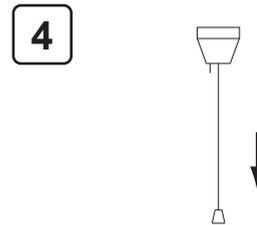Make sure that the **BLE PUMP ENABLE** switch is set to **ON**.

2
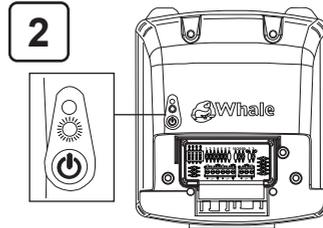
Turn on the power to the pump. The light will flash **red** every 4 seconds indicating that it is not paired.

3

Press the start button and hold for 5 seconds, the light will flash **green** and **red** indicating that it has entered pairing mode.

Note: You have 120 seconds to pair the shower.

4

Turn on power to the appliance using the pull cord.

5

Start | Stop

Status

If the shower has not been paired previously, the Status light will flash **blue** for a few seconds while the shower pairs. When the pairing processes has completed successfully the shower will beep to indicate that the shower and pump are ready for use, and the Start/Stop light will change to **white**. This procedure could take up to 1 minute. **Note:** If the shower doesn't pair check the correct parts are being used and make sure the transformer is within range.

If the shower is already paired when power is applied the Start/Stop light will show **white** rather than showing a **flashing blue** Status indication. If an error code 'B' is displayed (Start/Stop off with Status **flashing yellow**) on pressing the Start/Stop button, the shower may not be paired correctly. Unpair the shower (see page 24) and repeat the steps above.
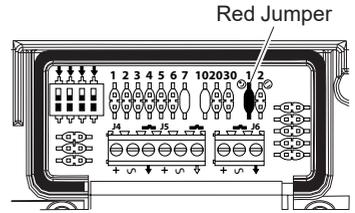
Bluetooth Unpairing (Transformer)

Some spare part renewal e.g. control PCB, may require the shower and pump to be unpaired and then paired again.
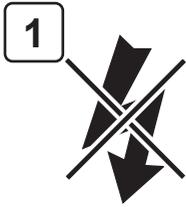
Red Jumper

Isolate the electrical supply to the shower.
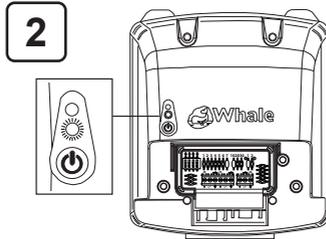
Leave the power ON to the pump. The light will flash **blue**, then remove the red jumper from the transformer.
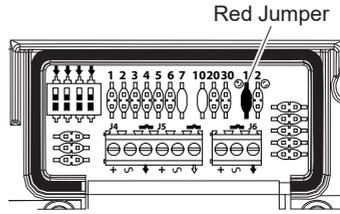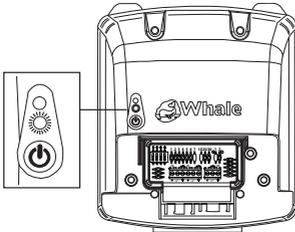
Red Jumper

Press the start button and hold until the light flashes **red** again.

The pump is now unpaired, now replace the red jumper.

After unpairing and if required, follow procedure for bluetooth pairing to pair.

Bluetooth Unpairing (Shower)

Isolate the electrical supply to the shower.

OFF	ON	
1	▭	BEAB CARE MODE
2	▭	43 DEG C
3	▭	45 DEG C
4	▭	RESERVED 1
5	▭	ECO
6	▭	RESERVED 2
7	▭	BLE PUMP ENABLE
8	▭	WIRED PUMP MODE
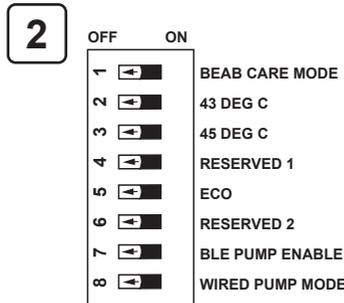
Move the **BLE PUMP ENABLE** switch to the off position.

Turn on the electrical supply to the shower. The shower is now unpaired.

Re-pair the transformer and the shower following the bluetooth pairing procedure.

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Post Installation Procedure

1 Turn on the electrical supply.
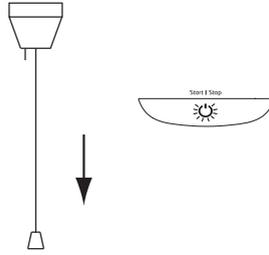
2 Turn on the power to appliance, check **Start/Stop** for white light.
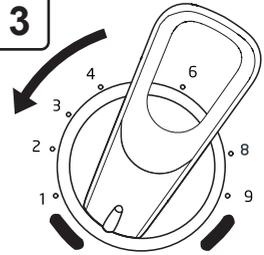
3 Turn the temperature to full cold.

4
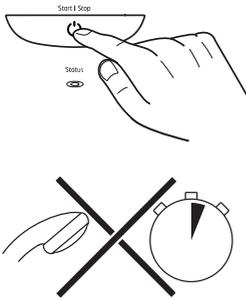
5 secs

Start the shower to test for water flow and run for at least 1 minute. If a shower drain pump is fitted, it should also start. If there is no water after 5 seconds, make sure that appliance has been primed.

5

x1

BEAB X 3
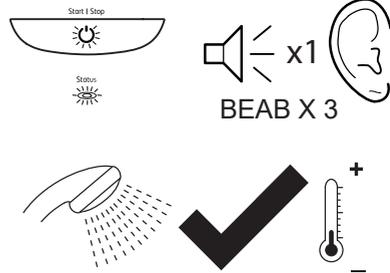
The shower will beep once when start/stop button is pressed (3 times for BEAB mode). The white start/stop and blue status light will pulse and shower will beep again. After a few seconds the shower will beep again and the lights will go solid. This will confirm flow and cold temperature.
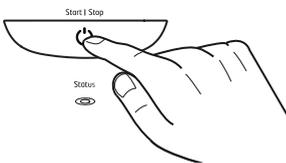
6 Push **Start/Stop** to turn off appliance. Pulsing start/stop light and "beep" indicates that appliance is shutting down.
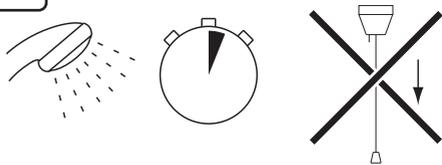
7 Appliance will purge water from heater tank for a few seconds.
**Important! DO NOT** isolate power until water has stopped.

Post Installation Procedure (Continued)

8

Turn on the electrical supply.

9

Turn on the power to appliance, check **Start/Stop** for white light. **Note:** The shower will beep 3 times if set to BEAB mode

10
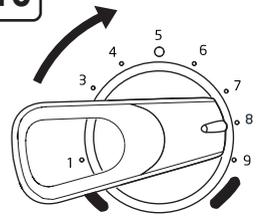
Turn the temperature control to number 8.

11
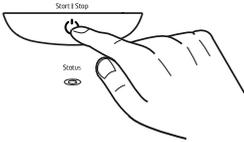
Start the shower to test for water flow. The shower will beep once (3 times when set in BEAB mode) and the white start/stop light and orange status light (green in BEAB Mode) will pulse. Wait until the lights go solid and the shower will beep again.

12
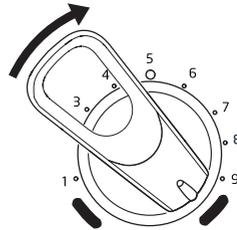
Turn the temperature control to the full hot position and continue to run the shower for at least 1 minute.

13
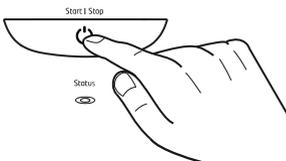
Push **Start/Stop** to turn off appliance. Pulsing start/stop light and "beep" indicates that appliance is shutting down.

14
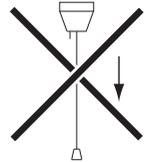
Appliance will purge water from heater tank for a few seconds. **Important! DO NOT** isolate power until water has stopped.

This completes the installation of the Mira Advance shower. Please advise the user how to operate their new shower.

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Operating the Shower

Read the section: **'Important Safety Information'**.
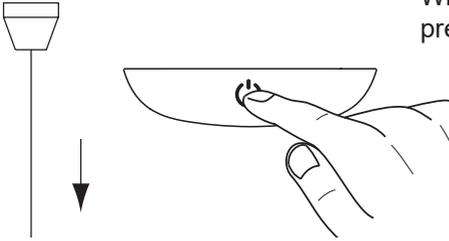
1 With the electrical supply turned on, press **Start/Stop**.

2
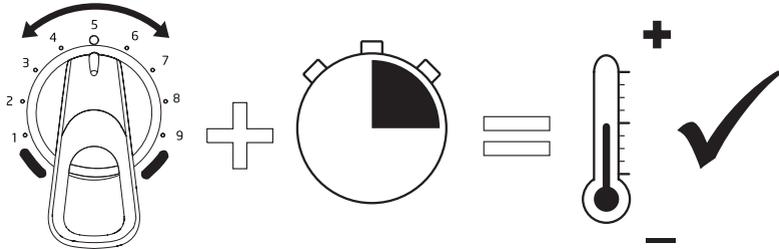
Adjust the temperature and allow approximately 30 seconds for any temperature adjustments to reach the showerhead.

The start/stop and status lights will pulse while getting up to temperature and the shower will beep once temperature reached.

3 Check water temperature before entering shower.

4
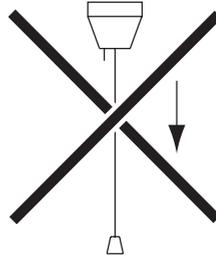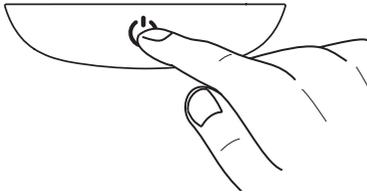
Press **Start/Stop** to shut down the shower. The pulsing start/stop light and "beep" indicates that the shower is shutting down.

Important! DO NOT isolate the power to the shower.

5
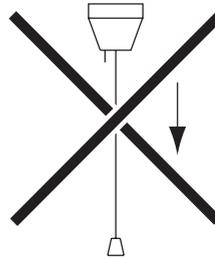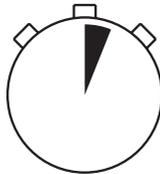
The shower will purge water from its tank for a few seconds.

Important! DO NOT isolate the power to the shower.

6
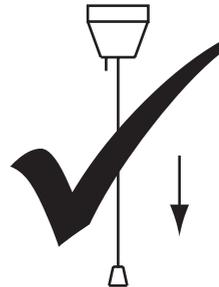
Wait until the water has stopped flowing and isolate the power to the shower, residual water may drain over a few minutes.

User Maintenance

Always read the IMPORTANT SAFETY INFORMATION for your shower.

In the event of a malfunction of the shower, a fault finding table is provided in this guide detailing possible causes and remedies that may be carried out by non-qualified personnel.

WARNING! TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, INJURY OR PRODUCT DAMAGE:

1. There are no user serviceable parts inside the shower. Only qualified, competent personnel should remove the front cover, mains connections are exposed when the cover is removed.
2. Switch the shower off at the isolator switch before performing any user maintenance or before cleaning the shower.

Cleaning the showerhead

Many household and commercial cleaners, including hand and surface cleaning wipes contain abrasive and chemical substances that can damage plastics, plating and printing and should not be used. These finishes should be cleaned with a mild washing up detergent or soap solution, and then wiped dry using a soft cloth.

De-scaling the Showerhead and inspecting the hose:

It is IMPORTANT to keep the showerhead and hose clean and free from blockage to make sure your shower performs to its optimum. The showerhead MUST be regularly cleaned and the hose MUST be regularly inspected to ensure there is no internal collapse or blockage that could reduce the flow.
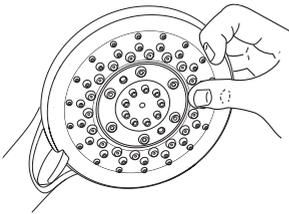
Use your thumb or a soft cloth to wipe any limescale from the soft nozzles

Unscrew the hose from the showerhead and the shower outlet.
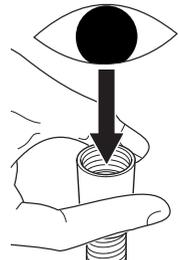
Inspect the hose.

Warning! Failure to keep the showerhead nozzles clear or inspect the hose for blockage or internal/external collapse can restrict the flow rate from the shower. This may cause damage to the shower or result in the temperature delivered to the user rising to unsafe levels with a risk of scalding. You MUST ALWAYS check the temperature before using the shower.

Fault Diagnosis

Warning! There are no user serviceable components beneath the cover of the shower. Only a competent tradesperson should remove the front cover. We recommend any maintenance work is carried out by a Mira service Engineer or similarly qualified tradesperson.

Installer Troubleshooting Guide

Refer to section: **'Important Safety Information'**.

The following troubleshooting solutions may require the removal of the cover of the shower. The cover should only be removed by a competent tradesperson and when doing so they should be aware of the following:

- Isolate the electrical and water supplies before initially removing the cover.
- Make sure Ribbon Cable is disconnected when removing the front cover and reconnect when maintenance is complete.
- Mains connections are exposed when the cover is removed.
- Refer to wiring diagram before making any electrical connections.
- Make sure all electrical connections are tight to prevent arcing/overheating.
- Make sure all plumbing connections are watertight.

When following these instructions, it is sometimes necessary to examine the appliance with the electrical and water supplies turned **on**. It is therefore essential that the appropriate safe working practices are followed in accordance with the current Health and Safety Legislation.

If conducting a continuity check using a multimeter, make sure the electrical supply is **ISOLATED**.

Diagnostic Procedure

1. Ensure the shower pull cord / isolator switch is initially turned **OFF**, then turn **ON** the pull cord / isolator switch.
2. Start the shower and observe light fault indication (if any) and refer to Error Codes to determine failure and rectify.
   Note: If the shower operates normally run the unit for at least 5 minutes at showering temperature and ensure the temperature remains stable.
3. Turn the shower off at the Start / Stop Button and observe 'phased shutdown'. **DO NOT** isolate the power at the pull cord / isolator switch until the water flow stops and the lights on the shower stop pulsing
4. **Show the user the correct start / stop procedure and general operation of the shower. Advise user that isolating the shower before the flow has stopped may damage the shower and will not start up correctly for the next use resulting in fault code M.**

Error Codes

Fault Indication				
Start/Stop	**Status**	**Code**	**Cause**	**Initial Action**
Flashing ☀	Flashing Red	A	No water supply Low pressure Blockage or restriction	Confirm water turned on. Check water pressure. Check filter, hose, showerhead and bleed valve.
	Flashing Red Yellow	D	Over temperature detected by the outlet thermistor	Purge the flow valve 3 x 10 secs, ensuring cold water coming from the showerhead.
	Flashing Red Blue	F	Over temperature detected at the inlet	Cold water supply is above the maximum temperature.
	Flashing Red White	I	Software Error	Power cycle the unit.
	Flashing White	M	Incorrect Shutdown	Wait 15 seconds until the lights stop flashing before attempting to start the shower. Ensure shower always turned off correctly to prevent recurrence.
Should the fault remain after the initial action, press and hold the 'Start/Stop' button and note the Status light sequence.				
Off ⏻	Flashing Red Blue		Flow Valve fault	Contact customer services.
	Flashing Red Yellow		1. Check thermistor connection (CN3) to the relay board. 2. Thermistor failed in heater tank.	Contact customer services.
	Flashing Red White		Cover PCB failure	Contact customer services.

Fault Indication

Start/Stop	Status	Code	Cause	Initial Action
On ⏻	Flashing Red Blue	**G**	Start/Stop button stuck	Contact customer services.
	Flashing Red White	**J**	Relay Board failure	Contact customer services.

Should the fault remain after the initial action, press and hold the 'Start/Stop' button and note the Status light sequence.

Off ⏻	Flashing Red White		Cover PCB failure	Contact customer services.
Off ⏻	Flashing Yellow	B	Communication issue between the shower and pump	Confirm the transformer to the pump is switched on and it's power light should be flashing Green. Confirm the shower and transformer are with range. See Bluetooth setup. If the transformer is out of range a hardwire connection may need to be installed. Contact customer services.
	Flashing Yellow Blue	K	Shower and pump transformer not paired	Pair units, ensure the dip switches on both units are correctly set.
	Flashing Red Yellow	C	Thermistor fault	Check thermistor connection (CN3) to relay board. Contact customer services.
	Flashing Red Blue	E	Flow Valve fault	Contact customer services.
	Flashing Red White	H	Cover PCB failure	Contact customer services.
	Off	L	Electrical Fault	Check power to the shower

Should the fault remain after the initial action, press and hold the 'Start/Stop' button and note the Status light sequence.

Off ⏻	Flashing Yellow		Communication issue. If the transformer and shower can't be paired because of range issues a hardwired connection will need to be installed.	Communication issue. If the transformer and shower can't be paired because of range issues a hardwired connection will need to be installed.
	Flashing Red White		Cover PCB failure	Contact customer services.

Additional Notes!
Shower Temperature - If the shower maximum temperature is too cold or too hot, check the configuration of switches. Refer to section - **SET UP**.
Shower Tray Will Not Empty - If the shower is in running mode (water is coming from the handset) but the drain pump is not running, check that the pump has power and is operational. Refer to section - **SET UP**.

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BEAB Care In-Service Tests

The BEAB Care In-Service Tests apply to products operated and maintained within the BEAB Care approval requirements.

To maintain the validity of the BEAB Care mark, the installation and appliance should be inspected regularly. The purpose of the in-service tests is to monitor and record the performance of the shower. Any deterioration in performance can indicate the need for maintenance work on the appliance and/or the water supplies.

Frequency of Inspections

Upon the initial installation of the shower and after any major repair work, the in-service tests must be performed and the results recorded on the BEAB Care In-Service Test Record. The shower should be tested again within 6 to 8 weeks after installation or any major repair.

If there is no significant change in the outlet water temperature greater than ±1º C between the two inspections, the in-service test frequency may be reduced but must not exceed 12 months between any two inspections.

Equipment Required

The following equipment or suitable equivalent will be required in order for the tests to be performed:

Digital Multimeter

100 mm diameter plastic funnel

Digital liquid thermometer accurate to 0.1º C

2 - 22 l/min flow measure cup

Pass/ Fail Criteria

If the outlet water temperature measured in step 14 has changed by more than 1º C since the previous inspection. The shower, showerhead, hose and inlet filter should be checked for blockages and cleaned and descaled or if required renewed. Checks should also be performed to confirm that, the maximum temperature setting has not been changed, any check valves or other backflow prevention devices are working correctly and that any isolating valves in the supply pipework are fully open. The shower should be recommissioned and re-tested.

If either of the outlet water temperature measurements are more than 2º C above the maximum temperature setting this is considered to be a failure, **the shower must not be used**, until the fault has been rectified and the product successfully re-tested.

Test Procedure

This procedure should be conducted by qualified, competent personnel only.

WARNING! LIVE ELECTRICAL WIRES ARE EXPOSED WHEN THE COVER IS REMOVED.

1. Turn the temperature control fully anti-clockwise.
2. Start the shower and allow it to run for at least two minutes
3. Stop the shower and isolate the electrical and water supplies.
4. Remove the inlet filter and record the incoming water temperature. The temperature of the water must be within the range of 5 - 20º C.
5. Clean, or if necessary renew, and refit the inlet filter.
6. Switch on the electrical supply and record the voltage at the terminal block. The voltage must be in the range 230V ±10%. Isolate the electrical supply.
7. Turn on the water supply and check for leaks. Hold down the air bleed button to prime the shower (see Installation - Priming the Shower).
8. Remove the showerhead from the hose. Position the end of the hose to allow water to drain safely while the shower is running, if necessary secure the hose in this position. Ensure the ribbon cable is connected to the cover.
9. Turn the temperature control fully clockwise.
10. Switch on the electrical supply. Start the shower and allow it to run for at least 10 seconds, then record the supply voltage at the terminal block.
11. Stop the shower and isolate the electrical supply.
12. Refit the showerhead to the hose and reattach to its holder.
13. Switch on the electrical supply to the shower and start the shower.
14. Using a plastic funnel, catch all the water flowing from the showerhead and record the temperature of the water flowing from the funnel. Using a flow measure cup, record the rate of water flow from the funnel.
15. Slowly restrict the water supply to the shower by closing the isolating valve gradually until the shower shuts down.
16. Switch off the electrical supply and open the isolating valve by a small amount. Hold down the air bleed button to expel all hot water from the tank.
17. Switch on the electrical supply to the shower. Run the shower for at least two minutes, then record the water temperature and rate of flow as described in step 14. If the shower will not run continuously, return to step 16.
18. When all tests have been performed and recorded, stop the shower. Isolate the electrical supply and open the isolating valve fully. Ensure the cover is correctly fitted and secured with screws then set the temperature control to position 5.

Maintenance

Tradesperson Maintenance - Inlet Filter Cleaning/Replacing
Read the section **'Important Safety Information'** first.
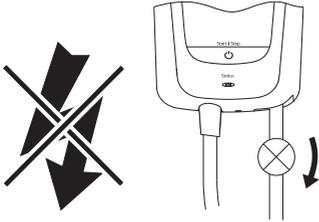
1	**2**
Electrical and water supplies to appliance are turned off.	Remove cover screw, cover and splash guard. Disconnect ribbon cable from cover
3	**4**
Hold a spanner or other suitable grips across flats of the metal connector. Unscrew filter using another spanner as shown. Clean or replace filter as necessary. Refit filter making sure it is screwed fully home. **Do not overtighten**.	Make sure all plumbing connections are sealed before restoring water supply. **Re-prime appliance** (refer to **'Installation'**) before restoring electricity supply. Refit splash guard, ribbon cable and cover.
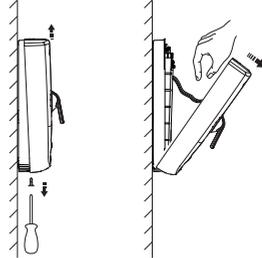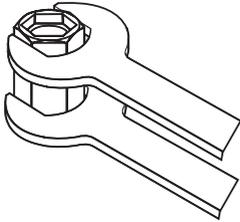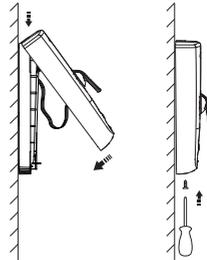
Spare Parts

Warning! If the wiring layout is changed or amended, the product functionality and safety may be affected. In the interests of safety, spares requiring exposure to mains voltage should only be fitted by competent persons.

1785.590
Relay Board

1643.103
Terminal Block
Earth Wire/Neutral Wire

1643.277
Earth Wire Harness

1643.149
Flow Valve
Assembly

1785.628
Pump Connector
Male

B

B

B

1643.100
Thermal
Switch

1785.591
Service Inserts

1643.101
Tank
Assembly
9.8 kW
1643.325
Tank
Assembly
8.7 kW

1829.062
Filter Assembly

1829.063
Inlet Connector

A

A

A

416.38
Clamp
Bracket

B

1785.596
Control PCB
Screws

1785.592
Service Tunnel

1785.593
Cover Assembly
(Std)
1785.594
Cover Assembly
(Flex)
1785.595
Cover Assembly
(Flex Extra)

1785.597
Control PCB
1785.598
Control PCB
(Flex Extra - with Bluetooth)

1785.591
Service Inserts

1643.113   *Component Pack (components identified 'B').*
1643.148   *Seal Pack (components identified 'A').*

BEAB Care In-Service Test Record

mira SHOWERS

Installation Address: _____

Location of Shower: _____

Installed by: _____

Maximum Temperature Setting: _____
(maximum of 41 °C for showering)

Date: _____

| Date / Signature | Not Operating | | Normal Operation | | | Restricted Supply | | Equipment Details (make, model, serial number, calibration date etc....) |
	Terminal Block Voltage (V)	Inlet Water Temp. (°C)	Inlet Filter Cleaned	Terminal Block Voltage (V)	Outlet Water Temp. (°C)	Flow Rate (l/min)	Outlet Water Temp. (°C)	Flow Rate (l/min)	

Please record all test results on this form, including details of all measurement equipment used. This form is available to download at **www.mirashowers.co.uk**.

Notes

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Customer Support

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.

Activating Your Guarantee

Registering your guarantee is quick and simple. To ensure your product is covered, please register online .

Scan the QR code to activate your guarantee now or call 0800 5978551 within 30 days of purchase (UK only).

What is Covered:

- The guarantee applies solely to the original installation under normal use.
- 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.
- 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.
- Routine maintenance or replacement parts to comply with the requirements of Building / Plumbing / Electrical Standards or Schemes.
- 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.
- Accidental or wilful damage.
- Products purchased ex-showroom display.
- Disinfection or descaling to reduce bacterial growth or contamination.

What to do if something goes wrong

If your product is not working correctly please refer to this manual for fault diagnosis and to check that it is installed and commissioned in accordance with our instructions. If this does not resolve the issue, our Customer Services team are here to help get you back up and running. To help us solve your problem quickly, please have your product name, power rating (if applicable) and date of purchase to hand.

Visit www.mirashowers.co.uk

Visit our website to register your guarantee, book a service visit, diagnose faults and purchase products.

Spares and Accessories

We stock a full range of spare parts and fittings and are all available to purchase either online or over the phone. Our online spare parts selector tool will help you quickly and easily identify the spare part for your product.

Visit www.mirashowers.co.uk/parts-accessories

Replacements and Repairs

In the unlikely event that your product needs a repair, our nationwide repairs and installation team are here to help. You can book a convenient date and time online.

Scan the QR code to book a service visit now or visit www.mirashowers.co.uk/ support/repair-services/repair-service

We also offer a comprehensive replacement service for when your product needs a little refresh, visit our website or contact our team for more information on our replacement services.

Help us improve

Your experience is important to us and your review (whether good, bad or otherwise) will be posted on Trustpilot.com immediately to help other people make more informed decisions.

Visit uk.trustpilot.com/review/www.mirashowers.co.uk

Need to get in touch?
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