

3yr
Warranty

RNIB
approved

WRAS
APPROVED
PRODUCT

BEAB
Approved

BEAB
CARE

Intertek

Intertek

 **Bluetooth**[®]
SMART

8
Water Inlet
Entry Points

8
Electrical Cable
Entry Points

Patents Pending, Registered Design

 **care**

Electric Care Shower

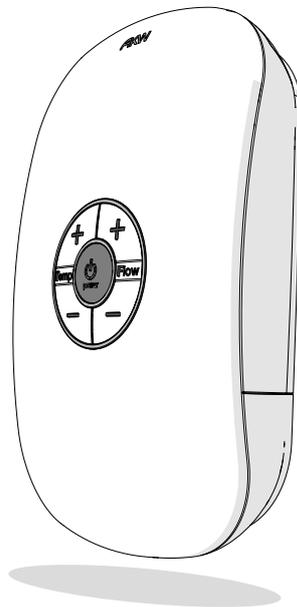
Installation and Instruction Manual

If you require these instructions in braille, audio or large print,
please contact us

CE

Installer - please read all instructions carefully before installation
and leave this manual with the end user for future reference

AKW[®]
life. style. choice.



Bluetooth
SMART

8
Water Inlet
Entry Points

8
Electrical Cable
Entry Points

The iCare Electric Care Shower has been designed to allow for easy operation. The large ergonomic interface clearly indicates the temperature and flow rate on the LED display, whilst generating audio/visual feedback for the user. The iCare Electric Care Shower also contains tactile information on the interface, for greater reassurance to any user.

Thermostatic Control - The outlet water temperature is thermostatically maintained

Automatic Shut Down - The shower automatically shuts down after 30 minutes operation (this can be bypassed 30 seconds prior to shut down)

Phased Shut Down - Flushes the shower with cold water to avoid the possibility of scalding if the shower is restarted within a short period of time

Bluetooth Smart[®] - The shower can be controlled by a AKW iShower Remote Control or the AKW iShower App for smartphones

Flexible Installation

- 8 Water Inlet Points
- 8 Cable Inlet Points

Dual power blocks for left or right wiring

Retro-fit footprint

3 year warranty

8.5, 9.5 or 10.5kW options available

Wireless connectivity to all AKW DigiPump shower waste pumps

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Failure to install this AKW product in accordance with supplied instructions or the making of unauthorised modifications will invalidate any warranty and may affect product safety.

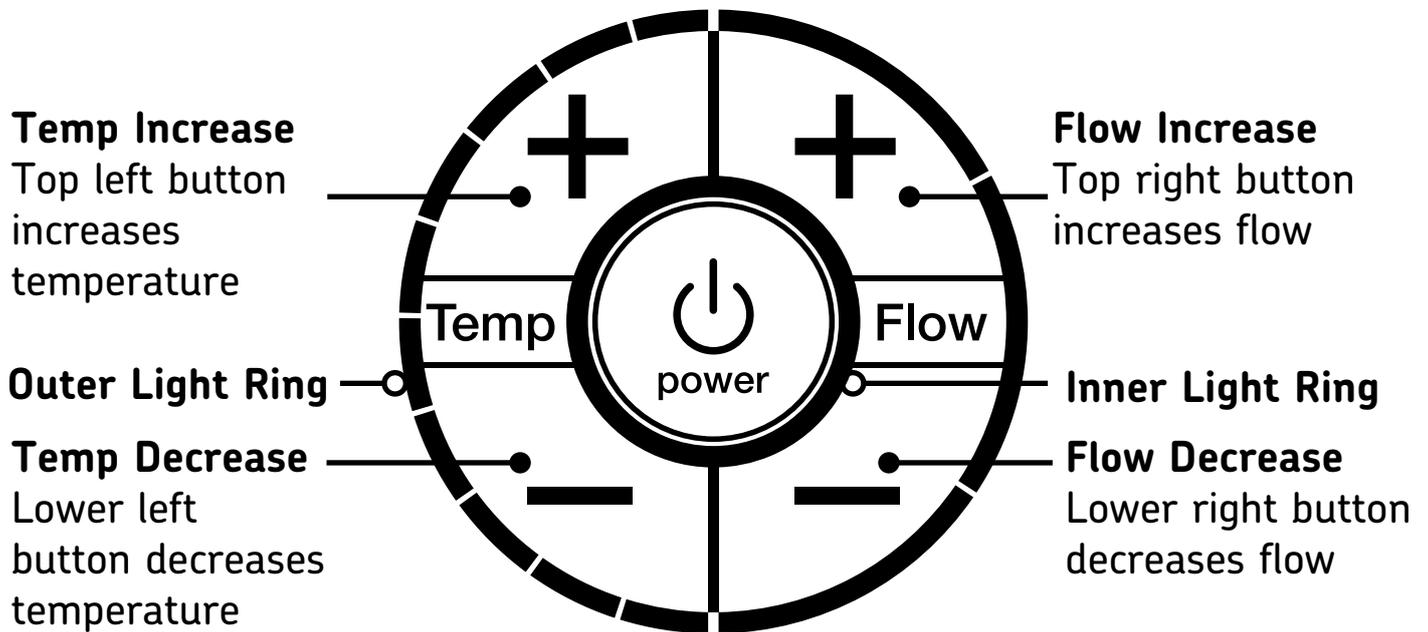
These instructions are provided to advise the minimum standards of installation and recommends the best practice for the installation. Due to the very wide variability of possible installation conditions AKW cannot provide all circumstances for the installation. AKW cannot accept any liability in connection with this information or its use. This information is provided on the condition that the person receiving it shall make their own tests to determine the suitability for their particular purpose. None of the foregoing affects your statutory rights.

This appliance can be used by any persons (including children from 8 years and above) with reduced physical, sensory, mental or intuitive capabilities or by any persons with a lack of experience and knowledge of showering, only if they are supervised or have had the correct instructions on how to operate the appliance correctly.

Do not operate shower if you suspect the water in the heater tank is frozen or the appliance has been susceptible to freezing conditions.

Do not operate the shower if the spray handset or hose is damaged or blocked.

Do not restrict flow out of the shower by blocking or obstructing spray handset.



Starting the Shower

Switch on the mains power at the isolating switch.

When the power is applied, the inner light ring will be dimly lit and the shower is in standby mode.

To switch on, press the power button. The inner light ring will be brightly lit.

The outer light ring will now indicate Temp/Flow settings (mode dependent)

Temperature and Flow Setting

Pressing and releasing

Temp '+' increases outlet water temperature

Temp '-' decreases outlet water temperature

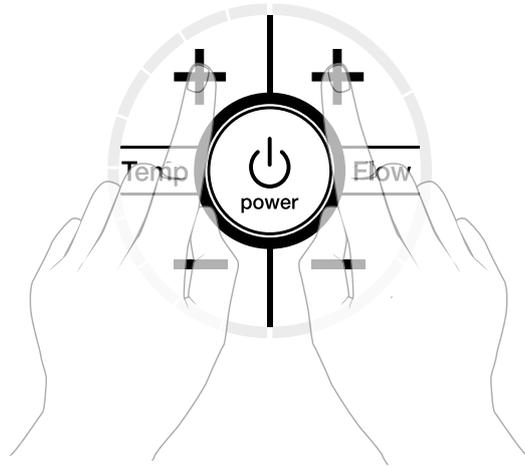
Flow '+' increases outlet water flow rate

Flow '-' decreases outlet water flow rate

Changes in the flow rate and water temperature may take a few seconds to reach the handset.

Step 1 Enter Volume Setting

Press and hold Temp '+' and Flow '+' simultaneously for 3 seconds to enter Volume Set Mode



Step 2 Adjust Volume Level



Mute



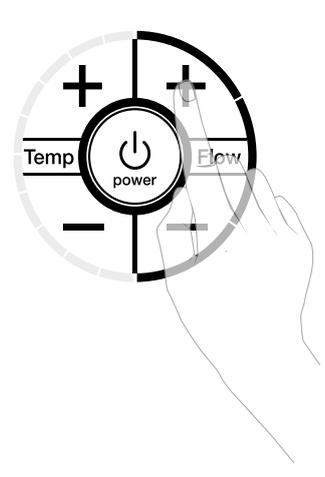
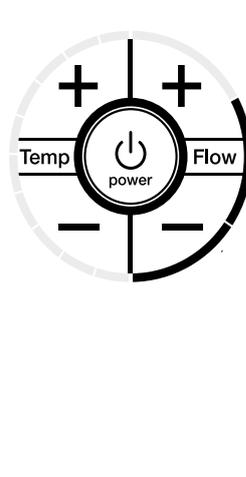
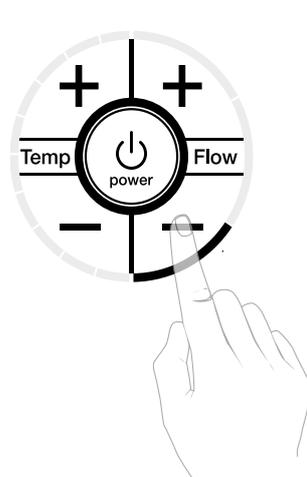
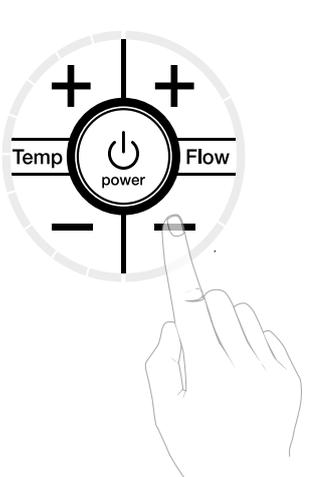
Min.



Default

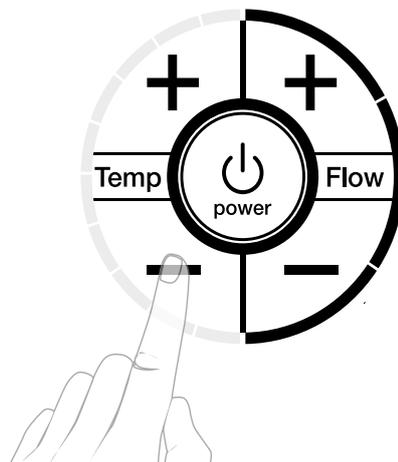


Max.



Step 3 Exit Volume Setting

Press Temp '-' to save the settings. The shower will revert to Standby mode when complete.



Always isolate power supply before cleaning.

The shower unit and surrounding areas should be cleaned periodically to remove any accumulation of dirt or other waste materials, using domestic bathroom and kitchen cleaning materials with a soft cloth.

After cleaning always wash down with water then wipe thoroughly with a damp cloth to remove any cleaning material residue.

Do not use abrasive pads or cloths. Do not use strong or concentrated acidic, alkaline or other cleaning materials as these may damage or discolour the product.

Fault	Cause	Remedy
No Water Flow	Water isolating valve in off position	Turn on water supply
	Filter blocked	Turn off water supply, remove filter and clean
	Power supply not on	Turn on power supply
Water temperature too hot	Insufficient water flowing through the shower	Clean the handset Increase the flow by adjusting the temperature control knob to cooler setting.
		Reduce the power setting
Shower runs hot and cold during use	Water pressure is below minimum requirement. This may be caused by other appliances on the same pipework drawing water	Check running pressure (minimum of 0.5bar) (1bar Recommended) Wait until pressure increases
Water from pressure relief outlet-PRD activated	Obstruction in hose or handset	Call AKW Technical Enquiries
Fault LED's Display (See Page 32 for reference)	Low Flow/Low Pressure Inlet Thermistor Fault Outlet Thermistor Fault Uncontrolled over Temperature	Call a qualified service engineer and refer to Page 32

If the shower does not work as expected, switch off at the pull-cord or isolating switch, wait 30 minutes for the shower to reset then switch back on again.

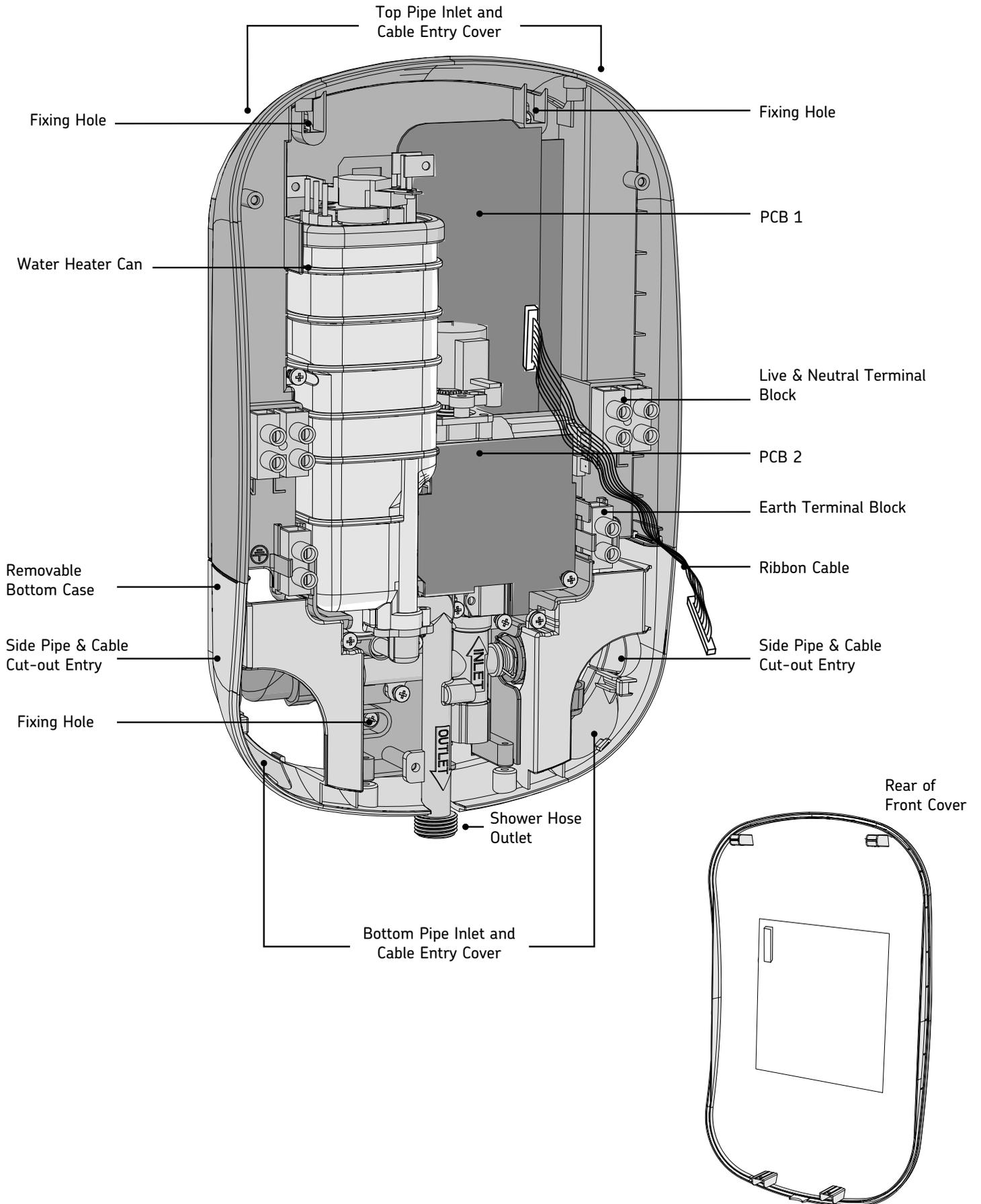
AKW guarantee your shower against any defects in manufacturing or materials for 3 years from the date of purchase. Within this period AKW will decide to repair or replace as we may choose. To be free of charge, proof of purchase is required. Work is to only be undertaken by AKW or our approved agents with prior agreement. Any action taken under this warranty does not extend the stated 3-year expiry date.

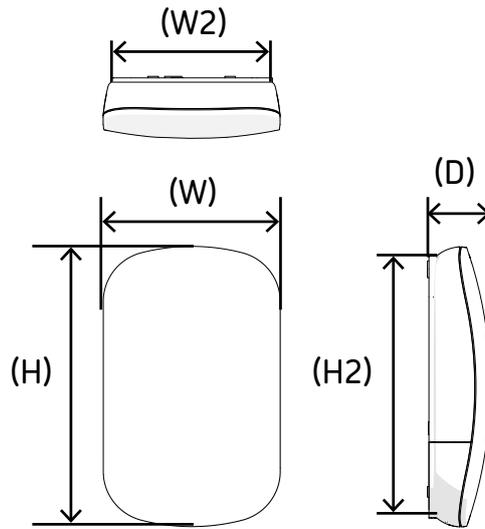
This guarantee is in addition to your statutory and other legal rights. None of the foregoing affects your statutory rights.

Not covered by this warranty:

- Damage or defects that result from inappropriate use or accidental damage, incorrect installation, or lack of maintenance including the build up of grime, dirt or lime scale, water-borne debris
- Failure to install in accordance with this installation guide
- Damage resulting from inappropriate cleaning or water ingress
- Damage resulting from water freezing
- Damage resulting from PRD activation from either blocked hose or shower handset
- Damage or defects that result from repairs, modifications undertaken by persons who are not AKW authorised service staff or agents

If you need any advice or if you have any questions please contact the Technical Enquiries with your model number and date of purchase.





PLUMBING SUPPLY	Supply Source	Mains pressure cold water only
	Minimum Dynamic Pressure	50kPa (0.5 Bar)
	Maximum Static Pressure	1000 kPa (10 Bar)
	Optimal Minimum Dynamic Pressure*	100 kPa (1 Bar) (Recommended to ensure high performance)
	Maximum Inlet Temperature	28°C
	Minimum Inlet Temperature	3°C
	Inlet Connection	15mm pipe
	Outlet Connection	1/2" BSP Male Thread Fitting
ELECTRICITY SUPPLY	Nominal Rating at 240 V	10.5kW, 9.5kW & 8.5kW
	Supply Fuse / Circuit Breaker Residual Current Device (RCD)	(10.5kW 45/50A), (9.5kW 40/45A) & (8.5kW 35/40A) 30 mA (must be fitted)
	Supply Cable	Refer to current wiring regulations and BS 7671 to determine minimum cable size. No larger than 10mm ²
	Isolation Switch (e.g. Pull Cord)	45 Amp Double pole with 3mm contact separation.
PHYSICAL	Height	(H) 380 mm
	Width	(W) 230 mm
	Depth	(D) 85 mm
	Footprint Height	(H2) 345 mm
	Footprint Width	(W2) 210 mm
	Water Ingress Rating	IPX4
	Water and Cable Entry Points	Top, bottom, side or back.
	Shower Drain Pump Connections	Suitable for M Series (Flow Sensor) or AKW A4 (Flow Switch)

*For Optimal Product Performance the recommended minimum dynamic water pressure should be 100kPa (1 Bar)

This product must only be installed and serviced by a competent and qualified person e.g. NICEIC qualified person in accordance with both the current edition of the Wiring Regulations BS7671 and the current Building Regulations and following these instructions. Any actions to remove, modify or fix this shower by non AKW appointed engineers or service staff will invalidate this warranty.

All products manufactured and supplied by AKW are safe provided they are installed, used correctly and maintained in accordance with these instructions.



ALWAYS

Isolate or turn off the power supply and water supply before any maintenance or cleaning is required.



ALWAYS

Read these installation instructions carefully before installing or servicing this product.
LEAVE THIS GUIDE WITH THE END USER FOR FUTURE REFERENCE & SERVICING ADVICE.



ALWAYS

Ensure the ribbon cable is correctly installed and no cables have become trapped. Ensure the front cover is correctly installed.



NEVER

Open the front cover whilst in use.
Do not block the flow of water from the shower head, by placing it (smothering it) on your hand or any other part of your body or foreign object. Do not crush or kink the shower hose, this could damage the hose, cause leaks and activate the Pressure Relief Device (PRD).

Installation Requirements

The shower must only be connected to the mains cold water supply.

The shower must not be positioned where it will be subjected to freezing conditions.

The shower must always be mounted on a finished flat, waterproof tiled surface or waterproof wall board.

The outlet pipe acts as a vent and must never be blocked, restricted or connected to any other parts or fittings other than the AKW shower handset and hose supplied with this appliance.

Before you start work:

Take care when you unpack the product and make sure that you do not inadvertently discard any small parts. Check the contents supplied against the contents page handout. If any parts are missing or damaged, contact AKW General Enquiries.

Check that finished walls are sound and free from cracks or loose tiles or grout. Make sure that all surfaces are clean, dry and free from loose debris or dust.

This product is not suitable for mounting into steam rooms or steam cubicles.

If it is intended to operate the shower in areas of hard water (above 200 ppm temporary hardness), a scale inhibitor may have to be fitted.

For ease of servicing, the unit must always be mounted on the flat surface of tiled walls. Never tile up to the shower unit.

Do not seal the shower to the wall with silicone or other sealant.

The flat surface must cover the full width and length of the back plate, otherwise difficulty may arise when fitting the cover and subsequent operation of the unit may be impaired.

Refer to the illustration below for correct positioning of the shower controls and shower handset.

Position the shower unit vertically.

Check there are no pipes or electrical cables inside the wall before drilling.

The height of the controls is dependent upon the type of installation.

For non-dwelling locations refer to Building Regulations Document M diagram 23 (Min 750mm, Max 1000mm) and for the shower head (Min 1200mm, Max 1400mm).

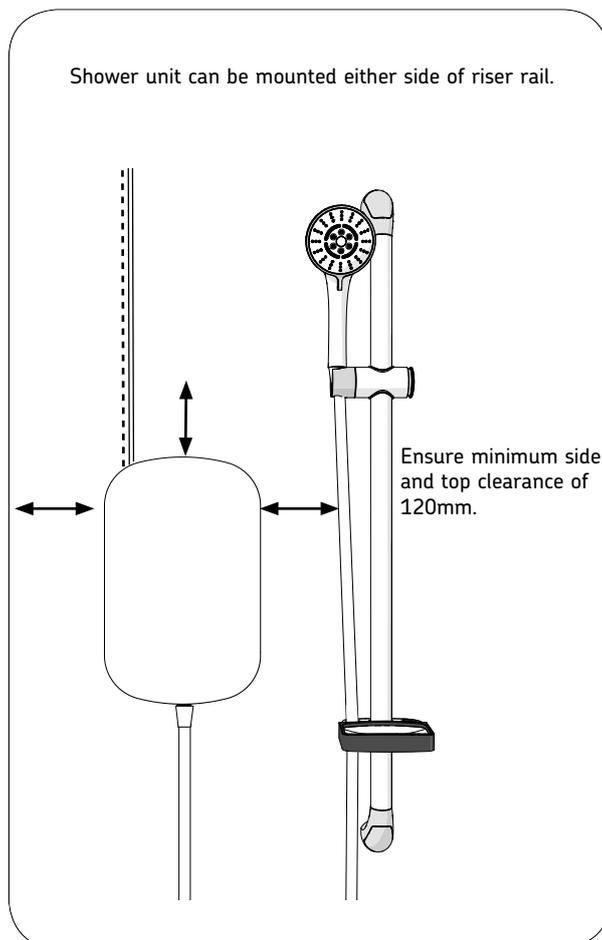
Further reference may also be made to BS8300:2009 (Non-dwellings) or DD266:2007 (dwellings).

Alternatively, a height for both as specified by an Occupational Therapist to suit specific user needs may be required.

DO NOT obstruct the back and sides of the shower as this will prevent the Pressure Relief Device (PRD) from operating.

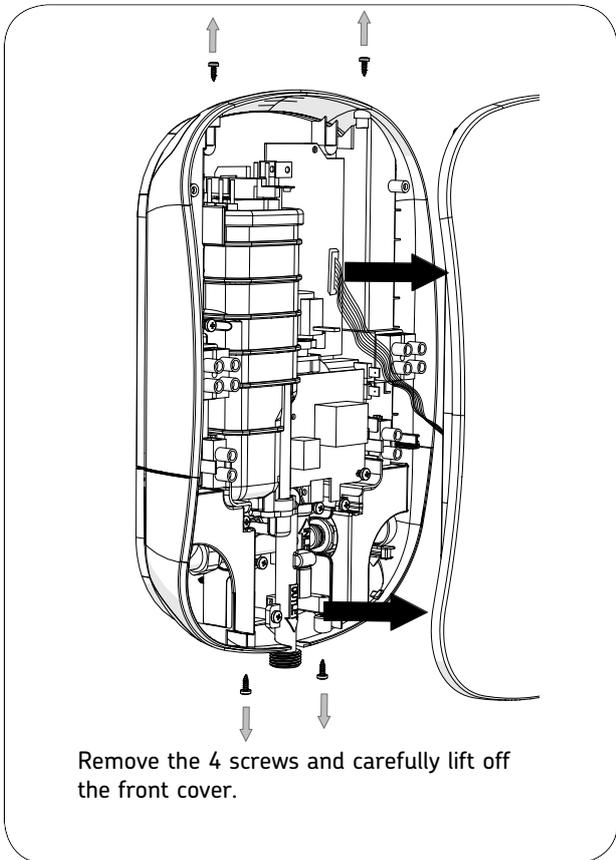
Ensure the shower unit is positioned over a bath, shower tray or wet floor.

The showerhead must be directed away from the shower unit, during normal use the showerhead must not spray directly on to the shower unit.

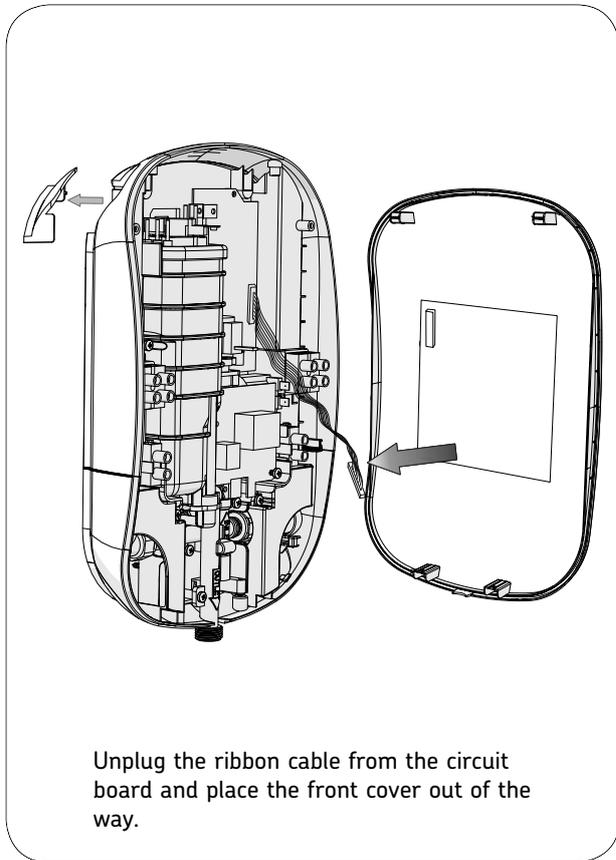




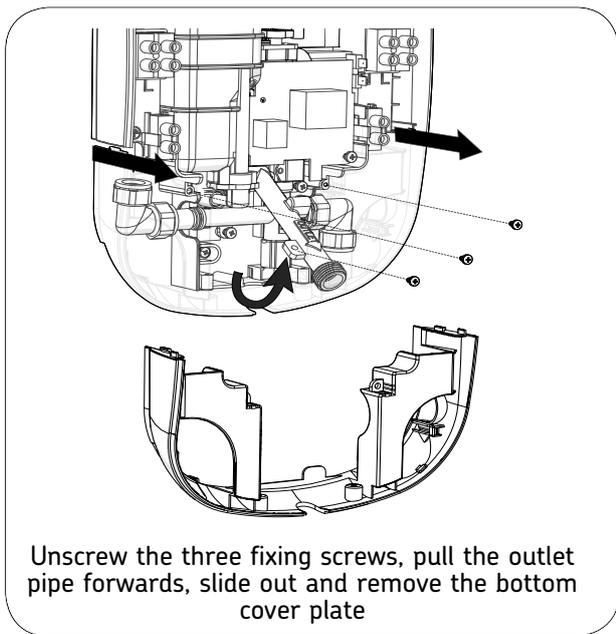
Ensure that the electrical supply is switched off at the mains.
Ensure that the water supply is turned off.



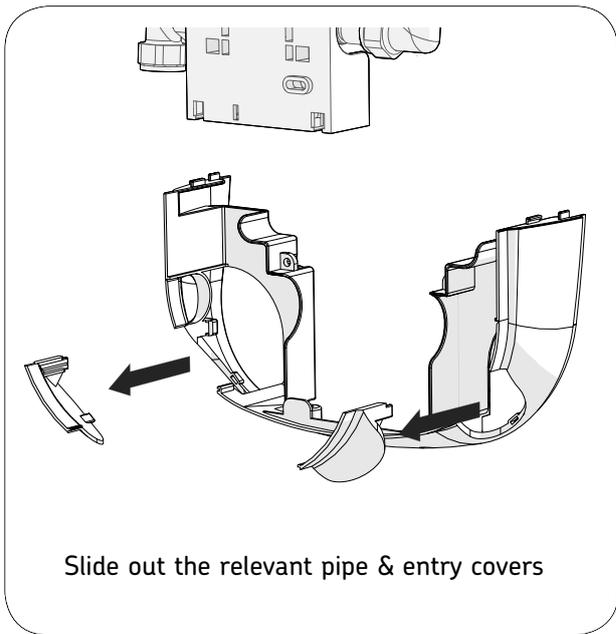
Remove the 4 screws and carefully lift off the front cover.



Unplug the ribbon cable from the circuit board and place the front cover out of the way.

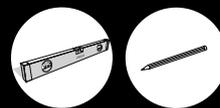


Unscrew the three fixing screws, pull the outlet pipe forwards, slide out and remove the bottom cover plate

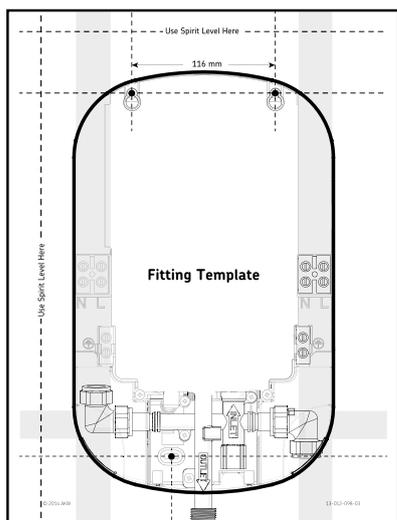


Slide out the relevant pipe & entry covers

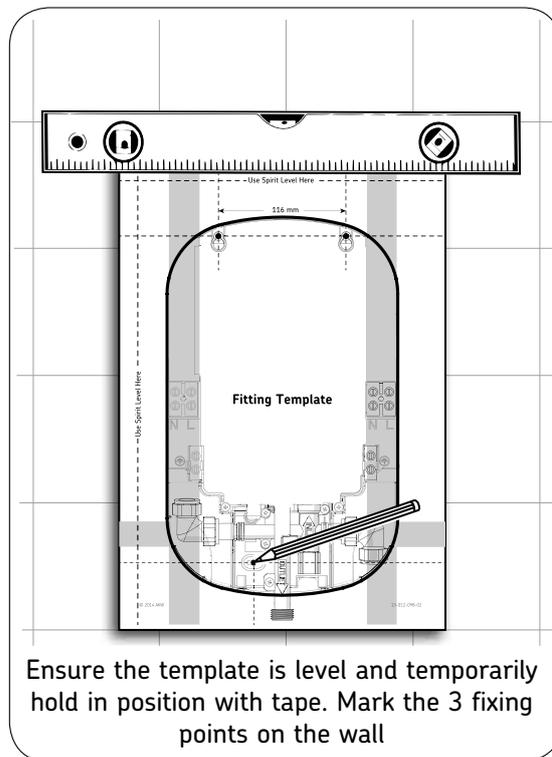
Note the unit can be temporarily hung using the top screws fixings whilst the cable and pipe work entries can be connected.



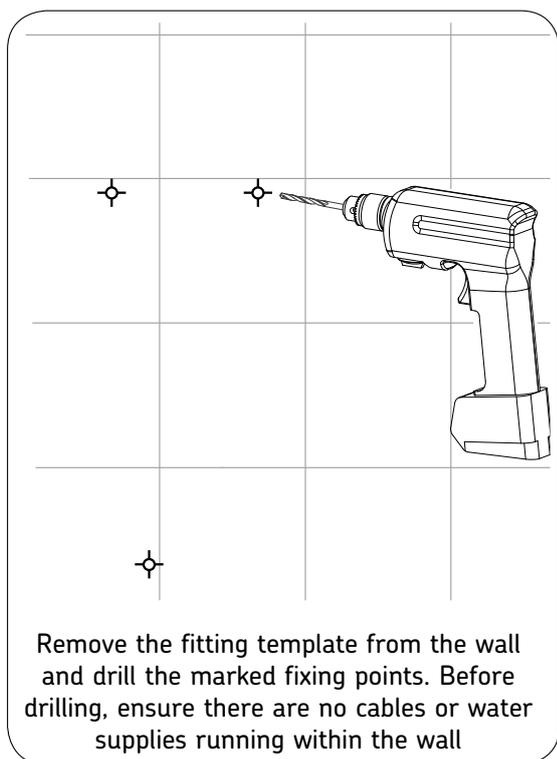
It is essential to remove any debris and/or brick dust that could otherwise damage the unit. Do not make any alternative or additional fixing points, as this will invalidate the warranty. Please check for hidden cables and water pipes.



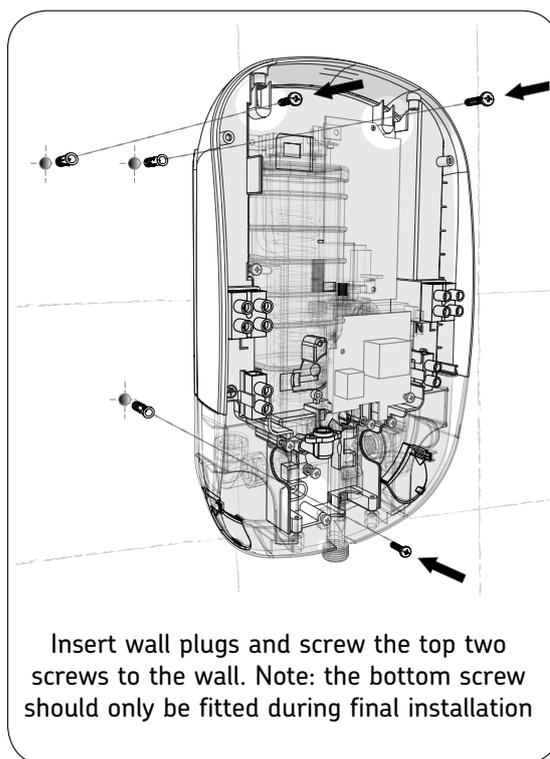
Use the fitting template provided



Ensure the template is level and temporarily hold in position with tape. Mark the 3 fixing points on the wall

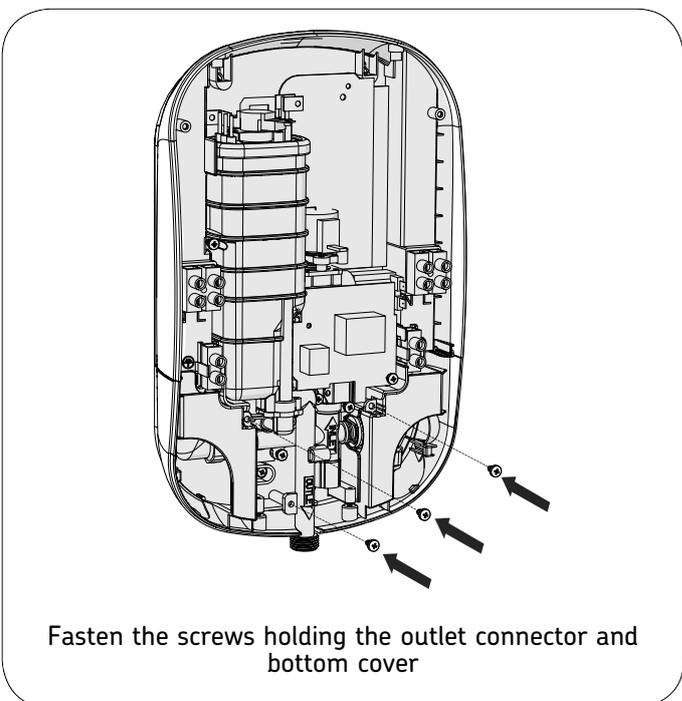
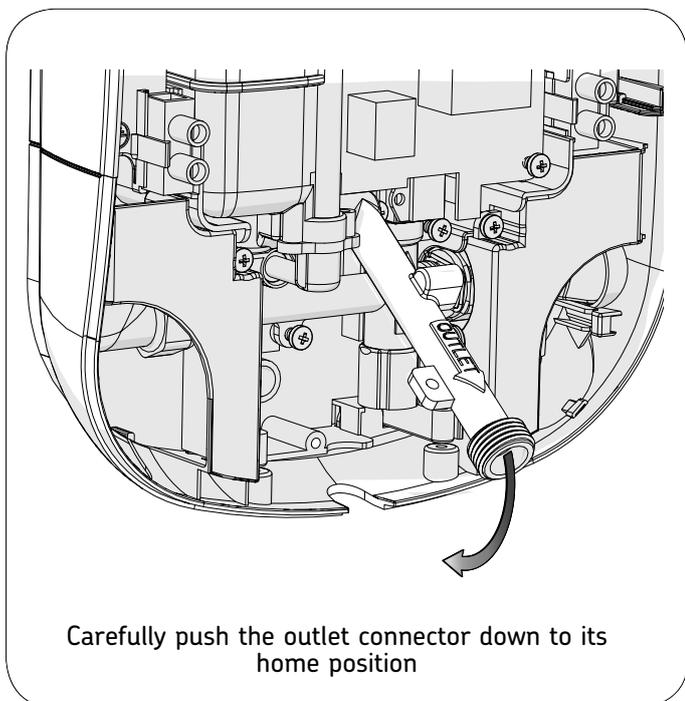
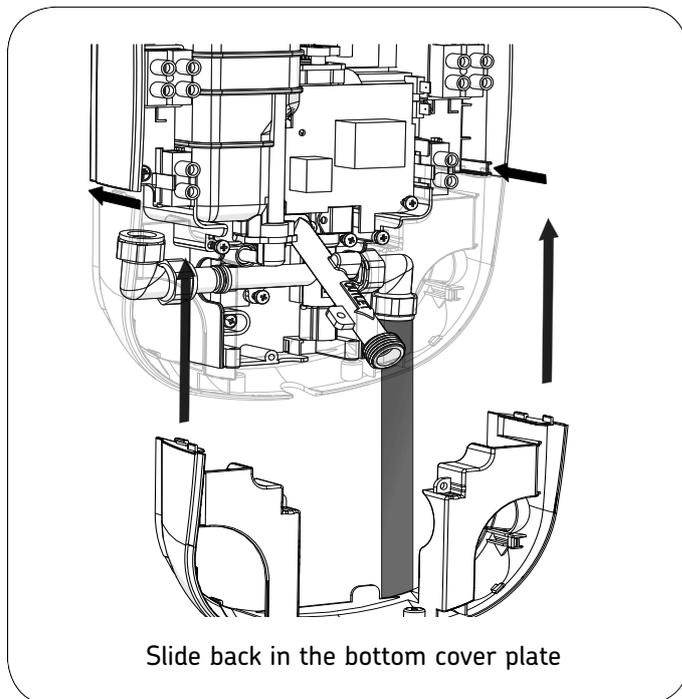
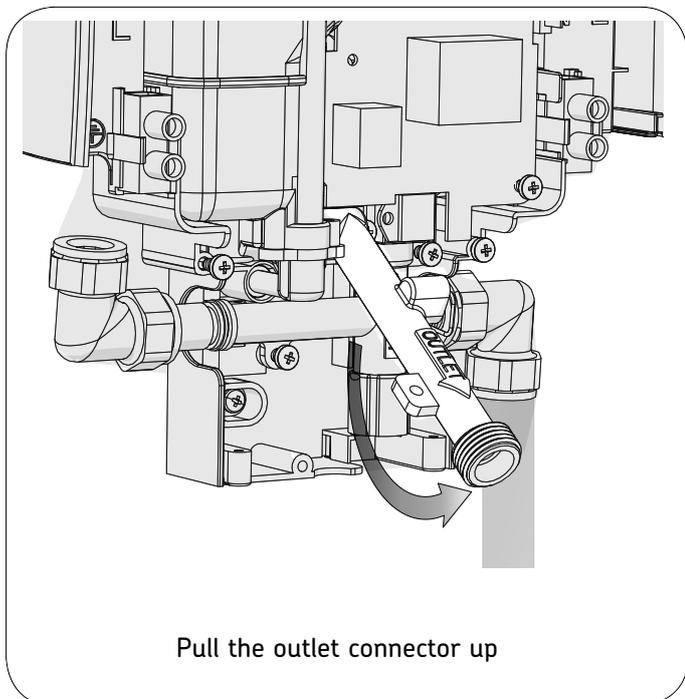


Remove the fitting template from the wall and drill the marked fixing points. Before drilling, ensure there are no cables or water supplies running within the wall



Insert wall plugs and screw the top two screws to the wall. Note: the bottom screw should only be fitted during final installation

Once the cable and pipe connections have been made, reassemble the bottom cover plates.

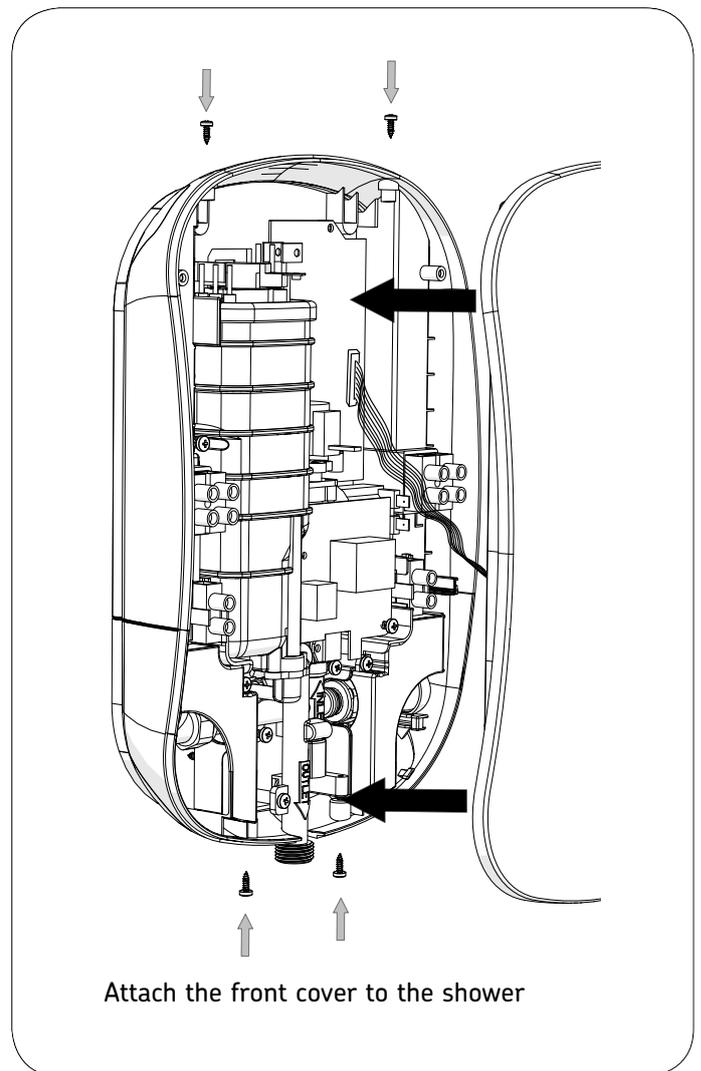
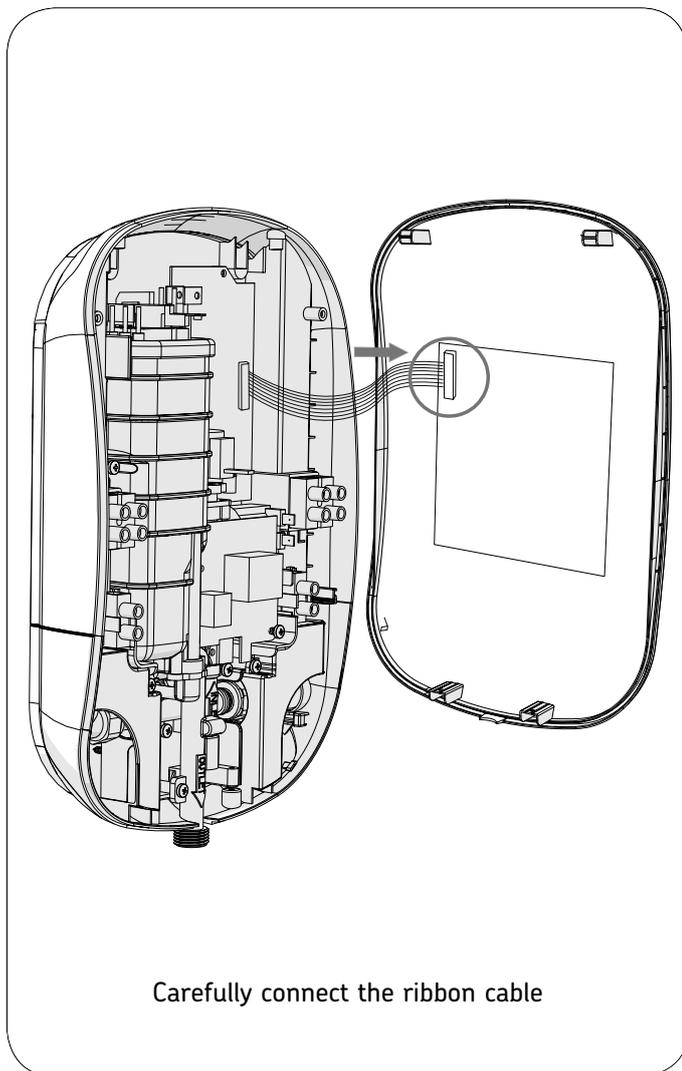


Ensure all connectors are correctly inserted before the cover is refitted.

Refit the Front Cover taking care not to trap the ribbon cable or any other wires.

Only use the supplied screws to secure the front cover. Failure to do so, can cause internal damage to the appliance.

Do not seal the shower to the wall with silicone sealant.



The shower hose retainer (supplied in the accessory pack) should be used. The installation should comply with Water Regulations and prevent water supply contamination.

To ensure activation of the heating elements, the shower must be connected to a mains cold water supply with a minimum running pressure of 50kPa (0.5 bar) with a maximum static pressure of 1000kPa (10 bar).

For optimal product performance the recommended minimum dynamic water pressure should be 100kPa (1 Bar). Dynamic pressure should not fall below 50kPa (0.5 bar) for example when other draw off's are used, such as a flushing the toilet as this can cause the shower temperature to fluctuate dramatically.

Note: An isolating stop valve must be provided on the cold water feed before connecting to the shower. We recommend the isolation valve (not supplied) should be fitted as close as is practicable to the water supply inlets of the shower heater whilst being accessible for maintenance and servicing purposes.

Do not install this appliance in a position where it can freeze.

Never fit the appliance to the hot water supply.

Note: If the stated flow rates are not available, it may not be possible to achieve optimum performance from the unit throughout the year.

Note: If the Pressure Relief Device fails, then call the installer in first instance as there may be a dynamic pressure problem.

Note - The manufacturer's rigorous quality systems may require operating the shower with water at the factory. Any water will be removed where possible, however there may be a small amount of water residue left in the shower. Sealing caps are used to prevent any excess water from entering and damaging the unit.

The plumbing installation must comply with Water Fitting Regulations, Building Regulations and should be in accordance with BS 6700. Plumbing work must be completed before any electrical connections are made.

Make sure there is a cold water feed near to the installation with a local service isolation valve.

Before assembly, flush the water supply pipes thoroughly to remove debris in the pipework (allow the water to run with the main stopcock open for about 3 mins), to prevent debris and dirt particles from blocking the filter which might affect the function of the shower.

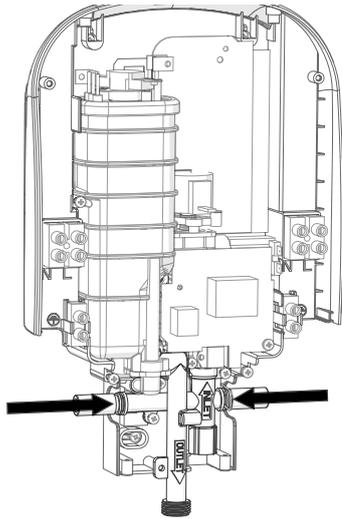
DO NOT solder pipes or fittings within 110mm of the shower appliance.

DO NOT fit any form of outlet flow control to the water heater.

DO NOT use excessive force when making connections to the water supply inlet, the flexible hose or the spray head.

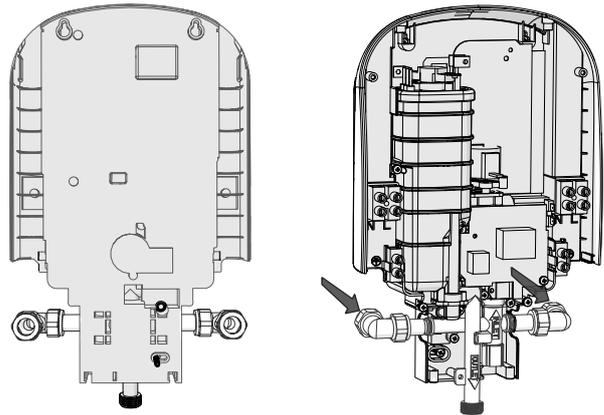
Determine pipework position and select the inlet option most suited to your situation. Always prime pipework and flush clear of debris.

Side Entry



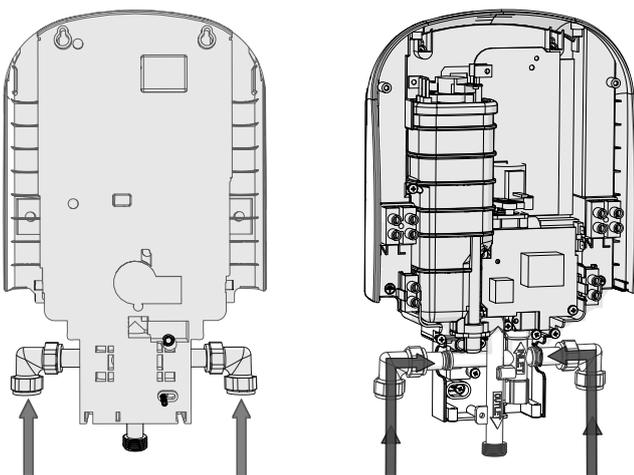
Left or right side inlet entry. Use blanking plug for the side which is not used. You may need to remove thin areas of plastic cover to facilitate pipe entry.

Offset Rear Entry



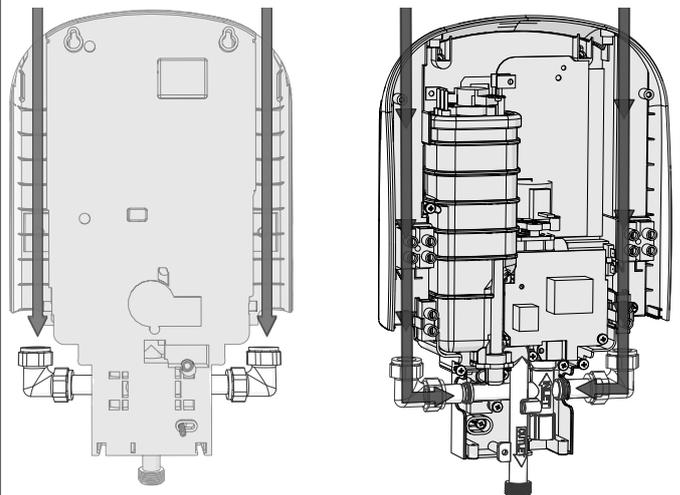
Left or right side offset inlet entry. Use blanking plug for the side which is not used.

Bottom Entry



Left or right side bottom inlet entry. Use blanking plug for the side which is not used.

Top Entry



Left or right side top inlet entry. Use blanking plug for the side which is not used.

Note - Some water from the factory testing may escape when the blanking plugs are removed.

Connect pipework and secure the appliance to the wall

Determine the pipe inlet connection from the 8 entry points.

Separately flush the pipework to remove any debris before connecting to the shower

Note - For ease of installation and servicing, rear entry pipe is only recommended if the top, side or bottom entries are not possible. This pipework must not apply strain to the elbow fitting on the shower. Failure to observe this essential precaution will invalidate the warranty.

Securely fix the shower appliance to the wall and make sure it is vertical.

Connect the hose, but not the handset at this time. Point the hose into the bath, shower tray or wet floor without the handset connected.

After commissioning, ensure the shower filter is clear from any debris before leaving the installation site.

Plumbing Check List

- ✓ Check that finished walls are sound and free from cracks or loose tiles or grout. Make sure that the appliance and all surfaces are clean, dry and free from loose debris or dust.
- ✓ The unit must be mounted onto the finished wall or tiled surface (on top of the tiles). DO NOT tile up to or seal around ANY PART of the unit using silicone sealer after fixing to the wall. Special care must be taken NOT TO BLOCK OR SEAL ANY PRD VENTS ON THE UNIT.
- ✓ Turn on the water supply and check there are no leaks - no water should flow through the shower at this point. The maximum static water pressure is 10 bar - The minimum operating dynamic pressure must be at least 0.5 bar. Recommend that for optimum performance this is 1 bar.
- ✓ Place absorbent material around the inlet areas in case of leaks.
- ✓ Checked that there are no leaks
- ✓ Turn off the supply, dry off any water in and around the appliance before connecting or reinstating the electricity.



Caution - Danger of Death 230V AC
Lethal Voltage present on the AC supply.

WARNING - THIS APPLIANCE MUST BE EARTHED

The installation, supply cable and circuit protection must conform to the current wiring regulations and be sufficient for the amperage required and length of cable run. Before making electrical connections within the installation, ensure that the electrical supply has been isolated.

The shower must be connected to its own independent electrical circuit.

DO NOT connect any other device to the power source.

Check your consumer unit (main fuse box) has a main switch rating of 80A or above and that it has a spare fuse way which will take the miniature circuit breaker (MCB) necessary for the shower (see schematic of installation circuit). If your consumer unit has a rating below 80A or if there is no spare fuse way, then the installation may require a new consumer unit serving the property or just the shower. Contact the local electricity company if in any doubt.

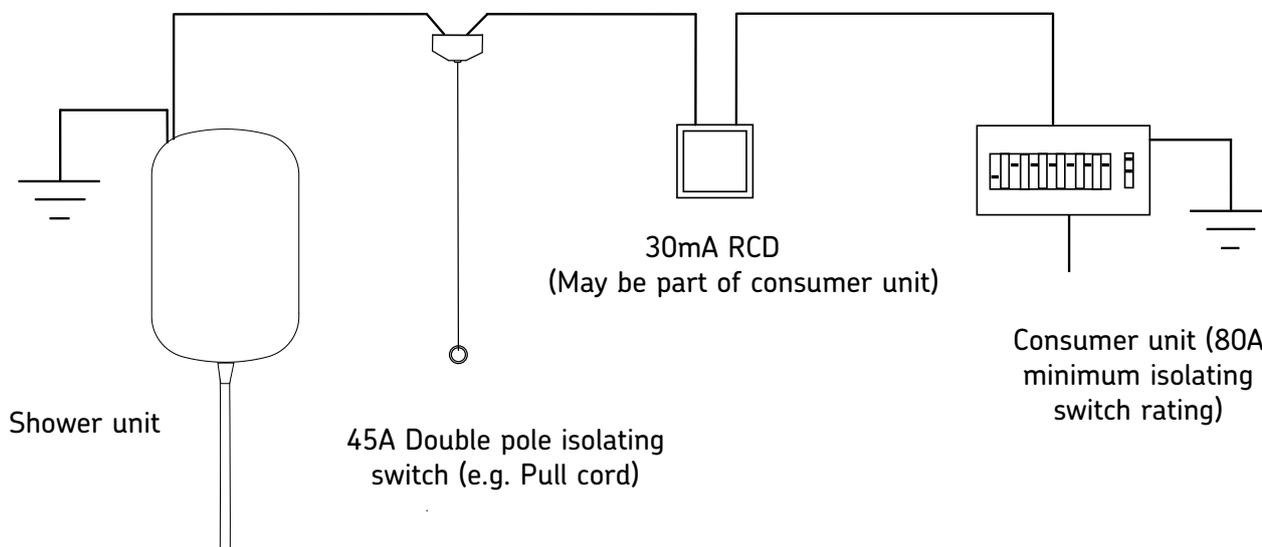
The current carrying capacity of the cable must be at least that of the shower circuit protection. Refer to the current wiring regulations BS 7671 to determine minimum cable size. A maximum of 10mm² can be fitted to the shower. Site conditions must be assessed by a competent electrician to determine correct cable size and permissible circuit length.

Shower circuit cable separation from other circuits must meet wiring regulations.

This appliance is only intended to be permanently connected to the live dedicated 230/240V 50Hz AC power supply and has an independent double-pole isolation switch. Other electrical equipment must not be connected to the same shower circuit. A 30mA residual current device (RCD) MUST be installed in all UK electric and pumped shower circuits. This may be part of the consumer unit or a separate RCD unit.

This appliance must be earthed.

All components must be rated and installed in accordance with wiring regulations. This appliance must be earthed.



For adequate circuit protection DO NOT use a rewire-able fuse. Instead use a suitably rated miniature circuit breaker or cartridge fuse.

A 30mA residual current device (RCD) must be installed.

A 45 amp double pole isolating switch with a minimum contact gap of 3mm in both poles must be incorporated in the circuit.

The isolating switch must have a mechanical indicator showing when the switch is in the OFF position, and the wiring must be directly connected to the switch.

The isolating switch must be accessible and clearly identifiable, although out of reach of a person using a fixed bath or shower. The cord of a cord-operated switch should be placed so that it is not possible to touch the switch body whilst standing in a bath or shower cubicle.

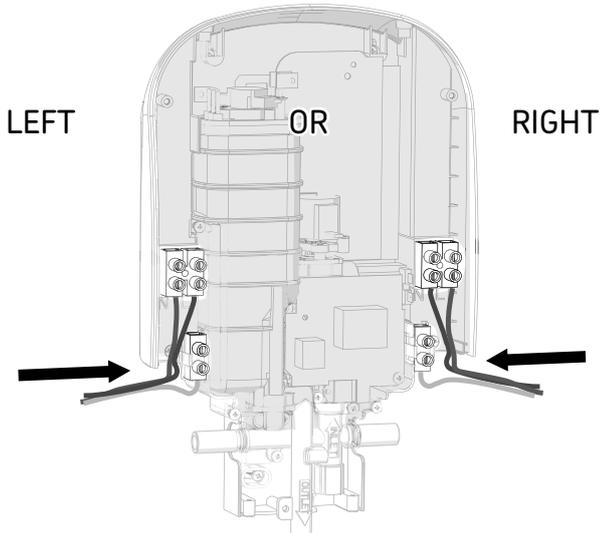
Where shower cubicles are located outside of a bathroom, all socket outlets in the room must be protected by a 30mA RCD. Consult the wiring regulations.

It is recommended to use the shortest cable route possible from the consumer unit to the shower.

Determine cable entry position

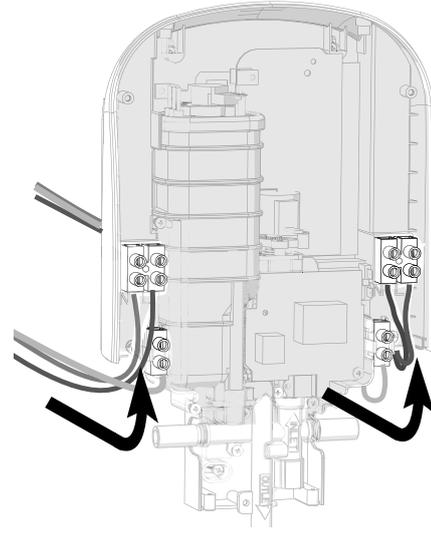
L=Brown
N=Blue
E=Green

Side Entry



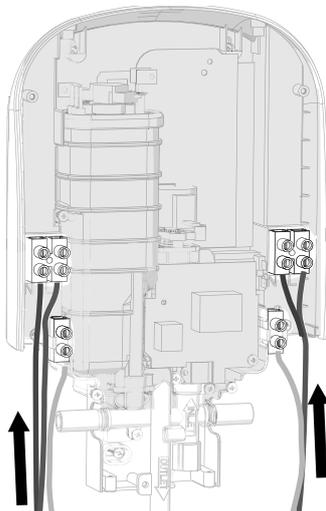
Left or right side cable entry, you may need to remove thin areas of plastic cover to facilitate Cable entry.

Rear Entry



Left or right side rear cable entry.

Bottom Entry



Left or right side bottom cable entry.

Top Entry

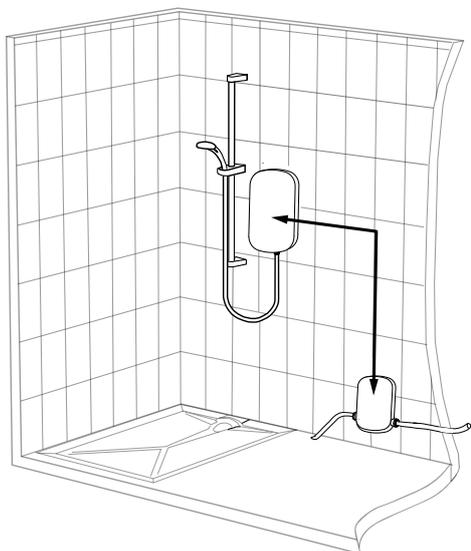


Left or right side top cable entry.

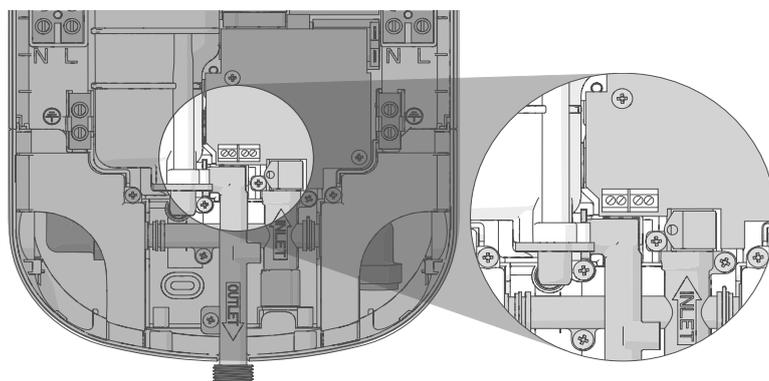
Trim and replace pipe and cable entry covers.

Note: Depending on cable size and entry point used, it may be necessary to strip back the outer cable sheath sufficiently to allow cables to be directed to the terminal connection block within the unit.

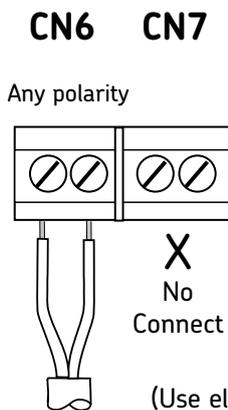
Connecting Waste Pump



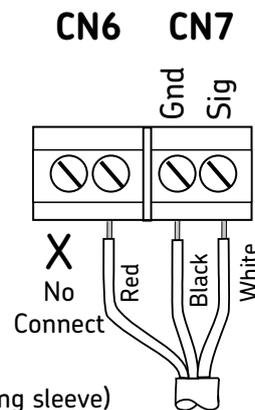
To connect the pump using wired connectivity, please follow the diagram shown. If you wish to connect the pump to the shower wirelessly, an optional wireless pump module is required. Please enquire using stock code: 29014 as a reference.



Fixed Speed Pump Connections



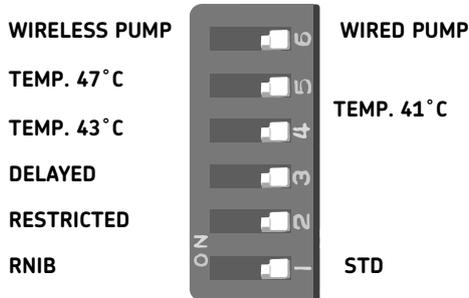
Digital Pump Connections



Electrical Check List

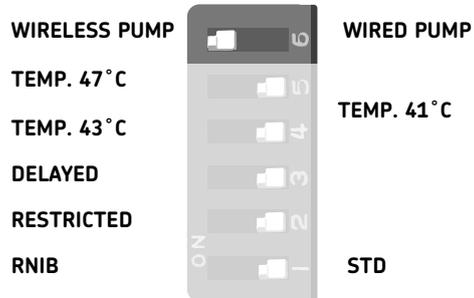
- ✓ Make sure the shower unit is fixed firmly in correct position and the mounting screw fixings are fully tightened.
- ✓ Ensure electrical connections are tightly secured.
- ✓ This shower appliance must be earthed: The earth conductor must be sleeved.
- ✓ The shower must be connected to its own independent electrical circuit connected to RCD consumer unit 30 mA (must be fitted) and in-turn have a dedicated isolating switch near the shower appliance.
- ✓ DO NOT connect any other device to the same power source as the shower.
- ✓ The current carrying capacity of the cable must be at least that of the shower circuit protection.
- ✓ Trim and replace the pipe and cable entry covers.
- ✓ DO NOT connect any other fittings to this shower.
- ✓ DO NOT use silicone sealant to seal the shower appliance to the wall.

Factory Settings



The shower is set in its factory setting when delivered.

Pump Setting



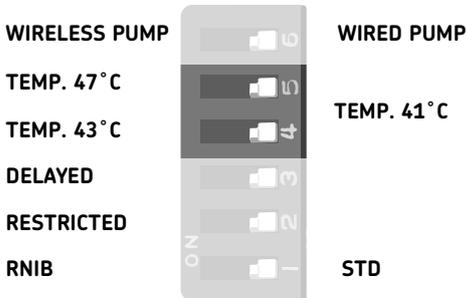
Refer to Pump Installation instructions for further detail.

Temperature Settings

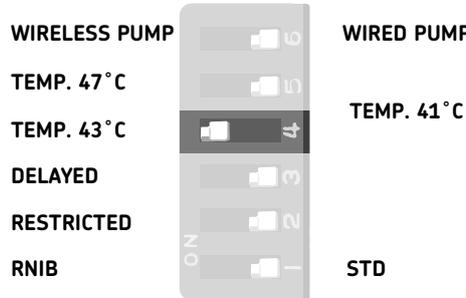
The shower maximum water temperature can be set to either 41°C (Factory), 43°C or 47°C by setting the DIP switches located on the control PCB inside the front cover.

Note- to comply with BEAB Care standard the shower MUST be set to 41°C maximum temperature

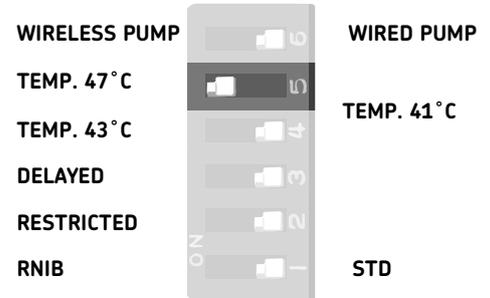
MAX. TEMP. 41°C



MAX. TEMP. 43°C

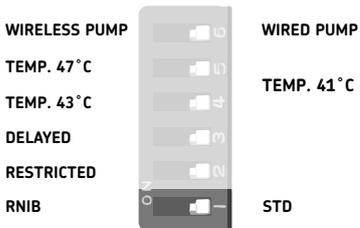


MAX. TEMP. 47°C



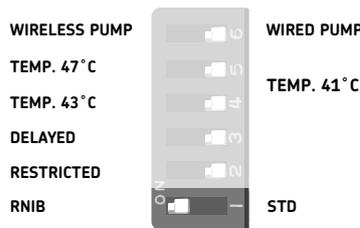
Mode Settings

STD Mode



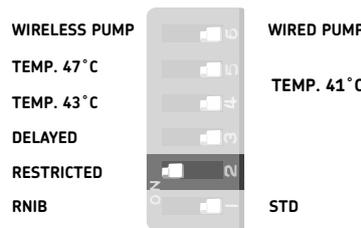
The shower will start at the temperature and flow settings last used when the shower was turned off.

RNIB Mode



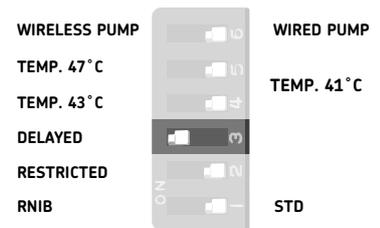
When started, the shower setting will be at a temperature of 38°C. The shower will start at the flow setting last used when the shower was turned off.

RESTRICTED Mode



User cannot set the temperature below 38°C. User cannot set the flow below medium

DELAYED Mode



If shower is turned off by remote control or smart device, the shower cannot be restarted manually within 2 minutes. The shower can be restarted immediately by the remote control or smart device that turned it off.

Before operating the shower, it must be primed with cold water using the cold flush setting

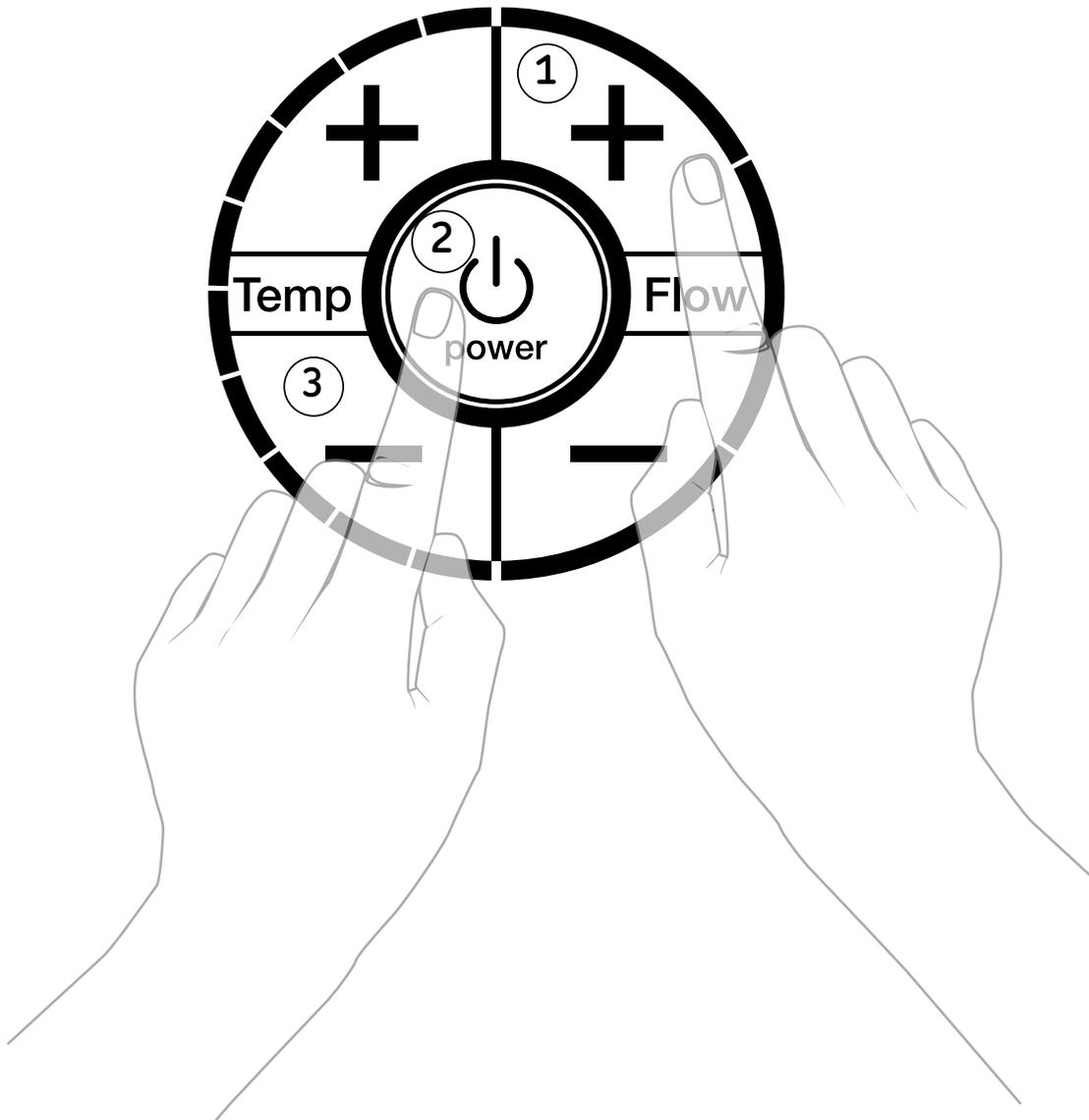
Turn on power at pull cord/switch

Press the Flow Increase button (1) and the Power Button (2) simultaneously for 3 seconds

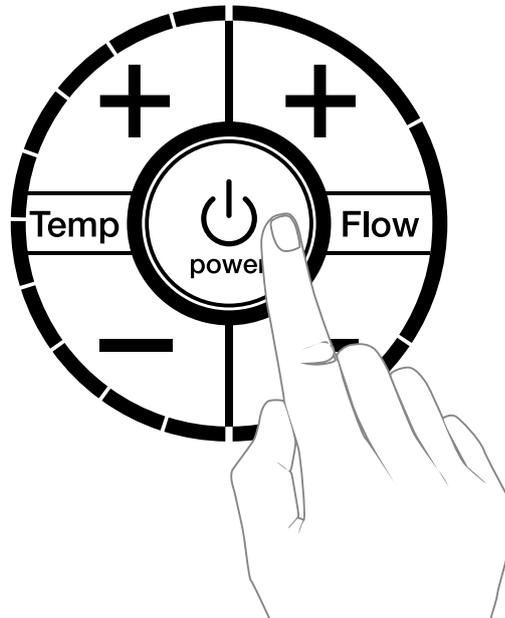
Release both buttons and cold water will then flow through the unit.

Allow the shower to run until a smooth flow is achieved (approx. 1 minute)

Press the Temp Decrease (3) button to stop the water flow and return the shower to standby mode. If the flow decrease button is not pressed within 3 minutes, the shower will revert to standby mode.

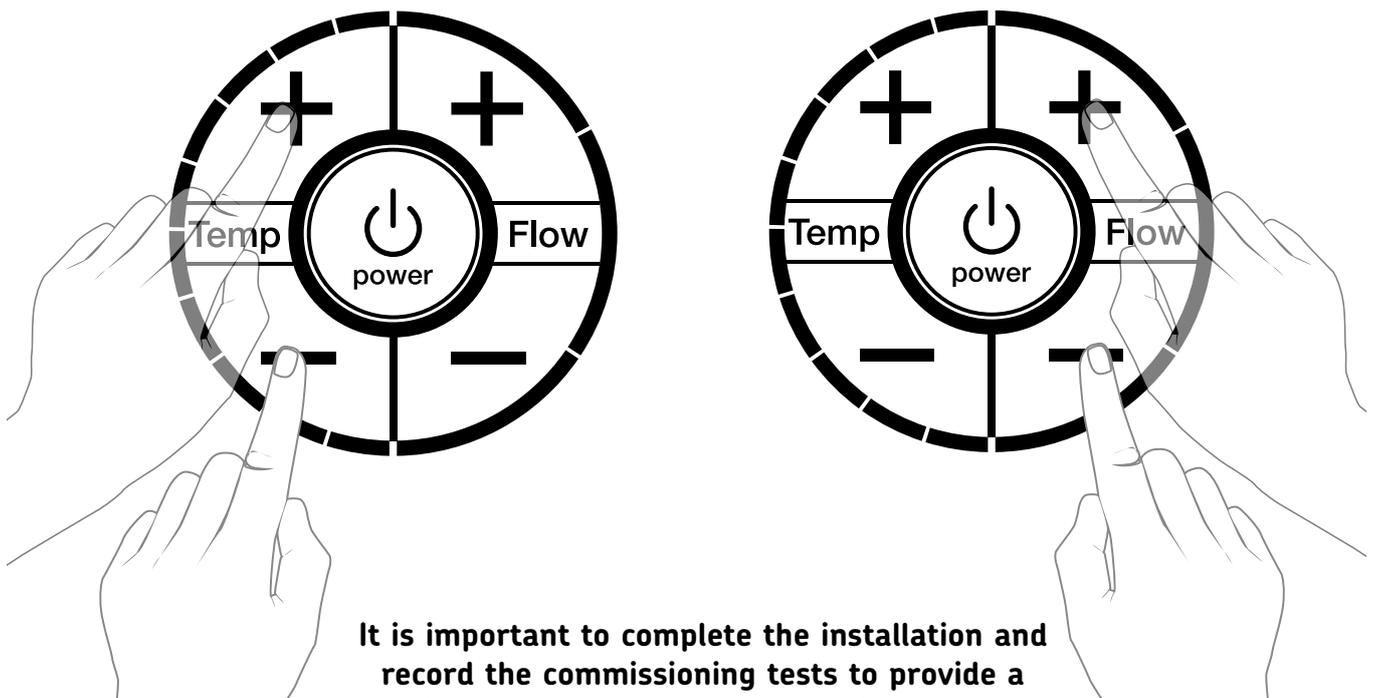


Switch on the shower by pressing the power button.



Confirm the operation of the Temperature and Flow increase and decrease buttons, whilst ensuring all lights are functioning

Press the Power button to revert to standby mode



It is important to complete the installation and record the commissioning tests to provide a performance reference point for future tests

Note:
All installation, commissioning and in-service testing must be undertaken by a suitably qualified engineer.

COMMISSIONING TESTS

Record the following information to provide a performance reference point for future in-service tests.

Shower Serial Number (SN) _____

Date of Commissioning ____ / ____ / ____

Max temperature setting is set to _____ °C

Mains Water supply Running Pressure _____ Bar

Water supply temperature _____ °C

Mains terminal Voltage _____ Vac

With shower turned on at Max flow and Max temperature setting,
record the water temperature when it is stabilised _____ °C

Record details of test equipment (brand, model, serial number and calibration information) used to provide the above information, if necessary record on separate paper and attach to this instruction booklet.

Record the performance of the shower to monitor the need for service work on the appliance and/or the water supply. Service records can be completed by your local installer.

FREQUENCY OF IN-SERVICE TESTS

The first in-service testing is required 6 months from installation. If no significant changes of greater than 1°C in outlet water temperature are recorded then the in-service test can then be completed annually.

IN-SERVICE TEST RECORD

		Date of Installation	6 Month Test		2 Year Test		4 Year Test
Date ____ / ____ / ____							
With voltage supply isolated remove the cover and check	Max temperature setting is set to 41°C (YES / NO)						
	Internal components condition (YES / NO)						
	Remove, check and clean or replace inlet filter (YES / NO)						
Mains Water supply Running Pressure (bar)							
Water supply temperature (°C)							
Mains terminal Voltage (Vac)							
With shower turned on at Max flow and Max temperature setting, record the water temperature when it is stabilised (°C)							
Serviced by:							

This page may be reproduced for continued recording of in-service testing.

Use the same test equipment as previously used for commissioning tests.

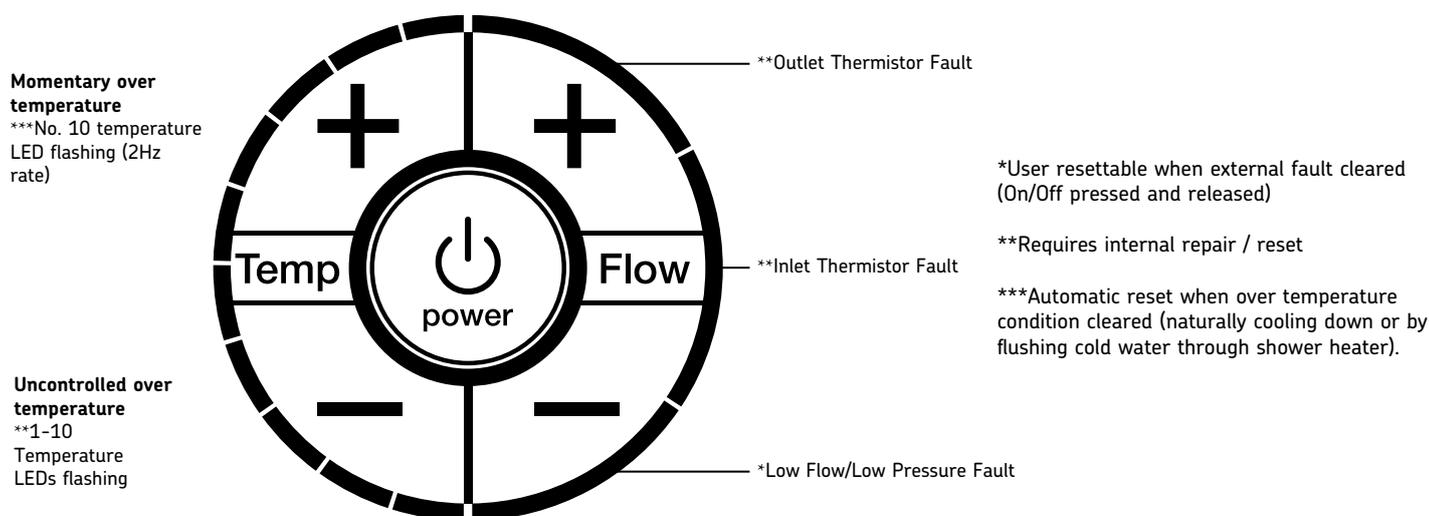
Measure the shower outlet water temperature by placing a funnel under the flow of water from the shower head. The funnel shall collect all the water from the shower head and the water temperature of the collected water flowing from the funnel shall be recorded.

If the set maximum outlet water temperature changes significantly by more than 1°C between commissioning and in-service testing, then check:

- a. Isolating valves in the mains water supply to the unit are fully open.
- b. The shower hose and shower head are in good condition and are free from restrictions/obstructions or lime scale.
- c. The inlet filter is free from blockage.

In the event that the shower fails to respond to any push-button instruction or exhibits unusual performance characteristics during operation, turn off the electrical supply by operating the pull-cord switch or isolating switch. Wait for a few seconds for the shower to reset, then turn the power back on and push the on/off button. If the problem still persists, note which fault LED is lit/flashing, then refer to the Fault Finding section.

Note: Fault signals are assigned to these LED's



Overheating

The shower is fitted with an over-temperature indicator and a safety cut-out device. In the event of abnormal operation which could cause unsafe temperatures within the unit, the device will disconnect the heating elements and switch off the shower. The flow and the over temp LED will then flash.

If the water temperature rises above the desired maximum temperature setting momentarily then ***No. 10 temperature LED will flash at a (2Hz rate). The shower will control the water temperature back to the desired level.

If the water temperature rise is uncontrolled the shower will turn off to prevent an unsafe temperature and the **Temperature LEDs 1 to 10 will flash immediately. The shower will not turn back on until the water inside the unit has cooled to a safe level. Perform a COLD FLUSH to cool the heating elements quicker, see page 28. If the fault persists the a reset or internal repair may be required. Ensure all electrical connections are tight to prevent overheat.

Low Flow/Pressure Failure

The shower contains a 'LOW FLOW/LOW PRESSURE' indicator which will operate, if the following conditions occur:

- Low water pressure (below 0.5 bar maintained) for optimum performance a minimum constant 1 bar is recommended
- Blocked or partially blocked spray plate
- Blocked inlet filter
- Supply flow rate is below 2 litres per minute

If any of the above low pressure conditions occur, the unit will STOP as this will cause the shower to be over temperature and the over temp LEDs will flash. Turn off the electrical supply by operating the pull-cord switch or isolating switch, then turn the power back on and instead of waiting for the shower heater element/tank to cool down, perform a COLD FLUSH see page 28. If the problem still persists then refer to Fault Finding. Ensure all plumbing connections are watertight. Check the hose and shower handset. If the filter is suspected to be blocked, clean it. If the problem still persists, contact AKW Technical Enquiries.

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