

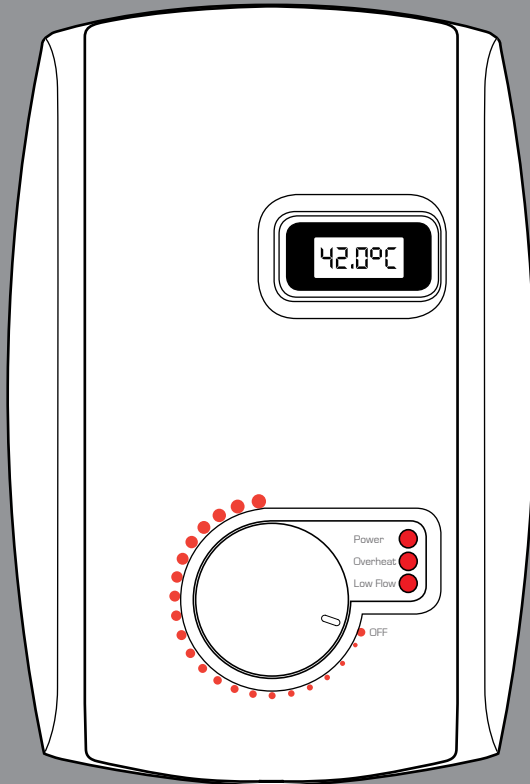
ATMOR

Hot Water on Demand

Installation Manual

INSTANT WATER HEATER

BW 404, BWA 404



Made in China

Siting of the shower

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

FOR EASE OF SERVICING, THE UNIT MUST ALWAYS BE MOUNTED ON THE SURFACE OF TILED WALLS. NEVER TILE UP THE UNIT.

Refer to **Fig.1** for correct siting of shower.

Position the unit where it will NOT be in direct contact with water from the sprayhead.

Position the shower unit vertically.

Allow sufficient room between the ceiling and the shower to access the cover top screws.

If a showerhead can sit within a bath, basin or shower tray, you must fit a double check valve in the supply pipe work to prevent back siphonage.

Pressure relief safety device

A pressure relief device (**PRD**) is designed into the shower unit which complies with European Standards. The PRD provides a level of appliance protection should an excessive build up of pressure occur within the shower. **DO NOT OPERATE** the shower with a **damaged or kinked shower** hose, or a blocked sprayhead.

When commissioning, the sprayhead must be removed from the flexible hose, while at the same time the temperature control must be at the minimum flow position.

Ensure the shower is positioned over a bath or shower tray because if the PRD operates, then water will eject from the bottom of the unit.

Should this happen, turn off the electricity and water supplies to the shower at the isolating switch and stop valve. Contact Customer Service for advice on replacing the PRD.

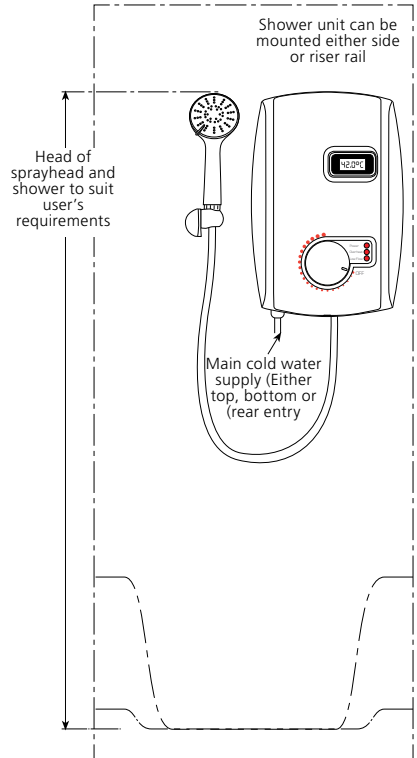


Fig.1 Diagrammatic view (not to scale)

Important: The unit must be mounted on a flat surface which covers the full width and length of the backplate. It is important that the wall surface is flat otherwise difficulty may be encountered when fitting the cover and subsequent operation of the unit may be impaired.

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Planning your installation

Plumbing

The installation must comply with all water authority and building bye-laws and regulations.

To ensure the correct operation of the shower it must be installed to a mains water cold water supply with a **Minimum** running pressure of 0.3 bar (3.2 PSI) using standard 1/2"Ø compression inlet connection.

(See Fig.2)

This shower can be supplied from a cold water storage tank provided there is a maximum static head of 3 metres from the base of the tank to the handset position. If this is taken it must only be on a totally dedicated supply to the shower.

The shower must not be installed in an area subject to freezing conditions.

DO NOT USE THIS SHOWER IF YOU SUSPECT IT IS FROZEN.

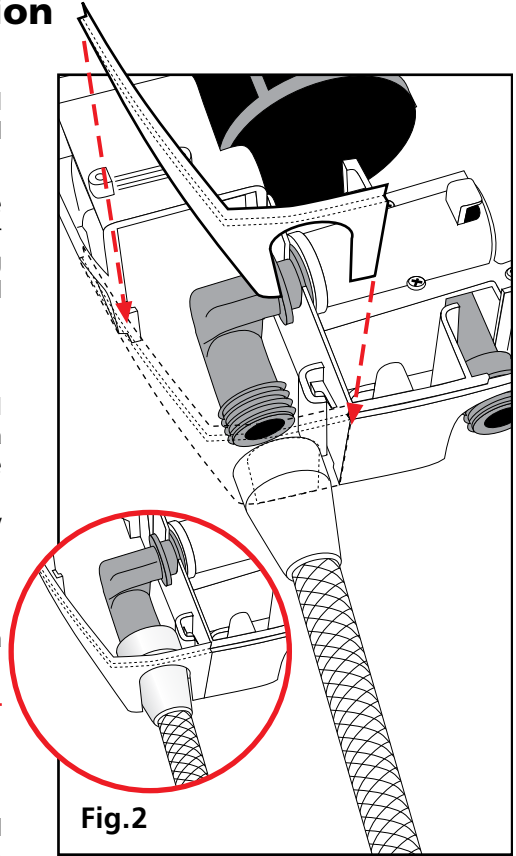
An additional service valve must be installed in the water supply to the shower as an independent means of isolating for future servicing requirements.

Do not exceed the maximum inlet pressure.

Maximum pressure 10 bar

Minimum pressure (running) 0.3 bar

Rated pressure 0 bar



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Model		Voltage/Power			Recommended	
		220V	230V	240V	Cable size (mm ²)	Fuse rating (Amps)
404	2.0	2.0kW	2.2kW	2.4kW	2.5	16
404	3.5	3.2kW	3.5kW	3.8kW	2.5	20
404	5.5	5.0kW	5.5kW	6.0kW	4/6	25
A404	7.7	7.7kW	8.4kW	9.1kW	6/10	40

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

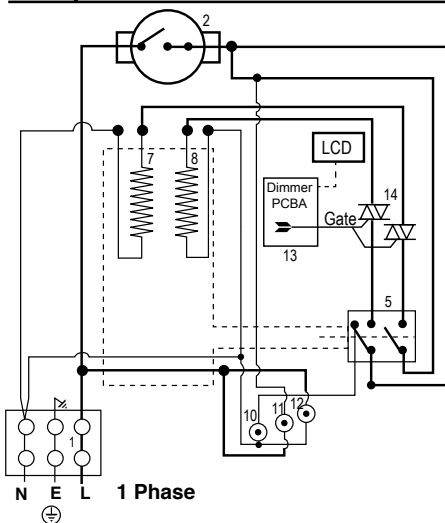
The instructions for the appliance connected to the water mains by detachable hose-set shall state that the new hose-set supplied with the appliance are to be used and that old hose-sets should be not be reused.

The spray head must be descaled regularly.

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

Ordinary polychloroprene sheathed cords.

One phase 404 model



1. Terminal block
2. Thermal cut-out (main)
3. Thermal cut-out (outlet)
4. Start/Stop push button
5. Pressure switch
6. Power selector
7. Low element
8. High element
9. Solenoid valve
10. Low flow LED indicator
11. Overheat LED indicator
12. Power LED indicator
13. Dimmer PCB
14. Triac

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The electrical installation and circuit protection of this shower must comply with IEE wiring regulations and should be checked by a qualified electrician prior to use.

Please note: It is important to switch off the power supply at the main switch at the consumer unit before connecting the cable. Please also check for the proximity of hidden pipes or cables before drilling the wall.

A separate and permanently connected cable must be taken from the consumer unit directly to the shower via a multi pole switch with a minimum contact separation gap of 3mm. It is recommended that a residual current device (RCD) formerly known as an earth leakage circuit breaker (ELCB) with a tripping current of 30mA is incorporated in the circuit. Attached proper cable with ELCB inside the package

In domestic installations you must ensure that the electrical supply and existing fuse board are adequately rated.

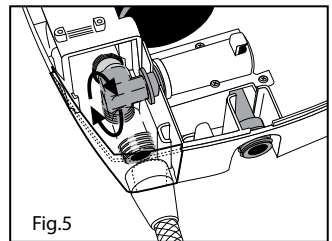
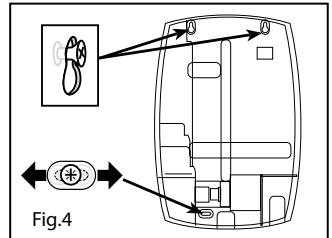
Important: Voltage drop in the supply to the household will affect performance.

This shower incorporates a Pressure Relief Device (PRD). We advise that the main unit is positioned over a bath or within a shower enclosure to ensure that in the unlikely event of the PRD operating it will discharge water without damage to surrounding fittings.

Fitting your shower

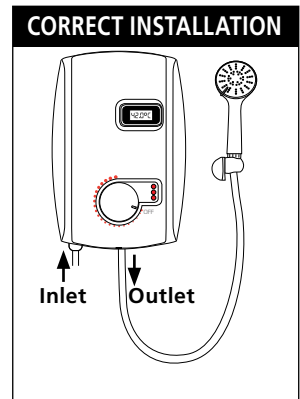
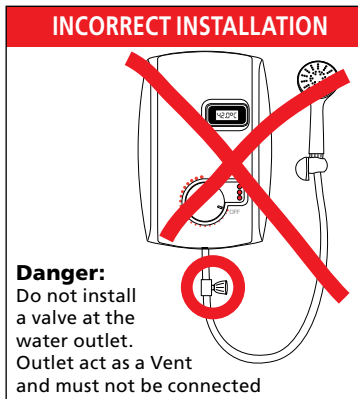
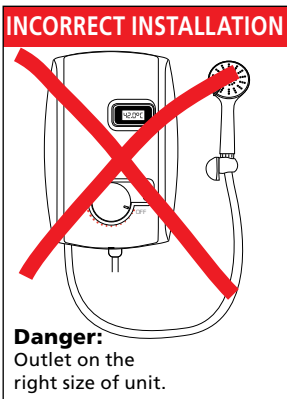
Fixing the shower to the wall.

Select the desired position for the shower unit ensuring all users can easily reach the controls. Offer it up to the wall and mark the three fixing points (**Fig 4**). Drill holes, insert wall plugs provided and screw the shower to the wall.



Plumbing connections

Connection into the unit is with standard 1/2"Ø thread inlet connection.



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Supply pipework can enter the unit from above, below or behind and entry is into the **bottom left hand corner** of the unit. The bottom left hand corner of the base moulding is removable to access the inlet elbow and assist plumbing (**Fig. 5**).

The outlet acts as a vent and must not be connected to any tap or similar fitting.

All plumbing connections must be completed before electrical work is undertaken.

Use the hoses supplied with the appliance, do not re-use old hoses

An additional service valve must be fitted to enable future servicing requirements. Flush out pipework before connecting to the shower.

Electrical connections.

Warning: This appliance must be earthed.

Ensure the earth continuity conductor is securely and permanently connected to all exposed metal parts of other appliances or components within the bathroom.

All cables must conform to the relevant tables within the IEE regulations. The supply cable can be surface mounted and clipped, recessed or enclosed within conduit.

Connection to terminal block (fig 6):

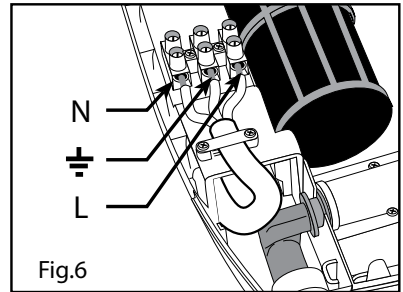
Live (cable coloured brown or red)	Terminal marked L.
Neutral (cable coloured blue or black)	Terminal marked N
Earth (cable coloured green or green/yellow)	Terminal marked (earth symbol) ⊕

The earth cable, where stripped must be sleeved prior to connection to the terminal block. All terminals must be carefully tightened to avoid trapping the cable insulation with retaining screws.

Fitting your shower (continued)

Warning: Do not turn on the electrical supply until the front cover is replaced.

Before refitting the cover ensure both the power selector (**A**) and temperature control (**B**) spindles are aligned with their respective knobs. (**Fig.7a or 7b**) Close cover with 2 screws. (**Fig.7**) When the installation is completed and the power switched on to the unit the 'power' warning and "Low Flow" lamp should be illuminated.



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User instructions.

Without supervision the use of the appliance by young children or infirm person is forbidden.

Playing with the unit by young children is forbidden.

Shower operation:

Ensure that both, the water and electrical supplies, are turned on. The 'Power' lamp and 'Low Flow' should be illuminated.

A- Temperature Knob

Turn the temperature dimmer knob (A) clockwise to increase the temperature.

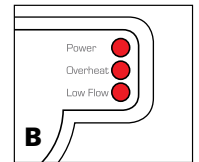
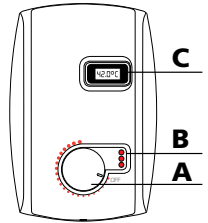
Turn the knob (A) anti-clockwise to reduce the temperature.

B- Led Indicators

If the **overheat lamp** is illuminated then the temperature of the shower is too high and the automatic temperature thermostat has switched off the heating elements in the shower. Reduce the shower temperature and allow it to run for a few seconds until they have cooled sufficiently.

If the **Low flow** is illuminated the supply water pressure is too low and the heating elements will be automatically switched off to avoid user discomfort.

C- Digital Temperature Display



User instructions.

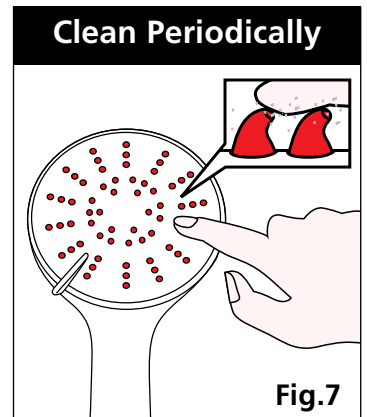
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If the **Low flow** is illuminated the supply water pressure is too low and the heating elements will be automatically switched off to avoid user discomfort.

Using the handshower

In order to achieve the maximum efficiency from the unit please use the 3 spray positions to adjust the required temperature and the water flow to the user's comfort.

For enjoyable use and in order to **avoid scale**, the **shower-head rub niddle** should be periodically cleaned by **finger brush**. (Fig. 7)



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Trouble shooting

Warning: Before carrying out general repairs or testing ensure the electrical supply is turned off at the mains and the correct circuit is removed or MCB is switched off.

Problem / Symptom	Probable cause	Action / Remedy
Power light not on, no water flow.	A. Fuse blown or tripped. B. Power supply interrupted	A. Reset MCB or replace fuse. If this fails again consult an qualified electrician. B. Are other appliances working. Contact electrical supply company for advice.
No water flow but power light is on.	A. Isolating valve not turned on. B. Interruption to water supply.	A. Turn on isolating valve. B. Check if other outlets are working. Contact water supply company for advice.
Low flow light is on.	Water pressure has fallen below minimum requirement.	Check pressure. Supply pressures vary throughout the day and the shower may work at a different time. Adjust shower head to Jet position. (Fig. 10)
Water temperature is too high	A. Insufficient water flow through shower unit. B. Incorrect installation.	A. Increase the flow by reducing the temperature (B) (anticlockwise) and/or reducing the power settings (3 or 2). A1. For Model 404, turn the dimmer anticlockwise B. Clean the handset. C. Adjust shower head to spray/massage position.
Shower runs hot and cold during use.	Water pressure is at minimum requirement.	A. Adjust shower head to spray/massage position. B. Check pressure. Supply pressures vary throughout the day and the shower may work at a different time.
Overheat light is on.	A. Insufficient water flowing through unit. B. Incorrect installation.	A. Increase the flow by reducing the temperature. B. Reduce the power setting. C. Adjust shower head to spray/massage position.
Water running from bottom of unit.	Pressure relief device operating	A. Clean handset. B. Check if hose is not blocked.

Note: The Pressure relief device is self-resetting.