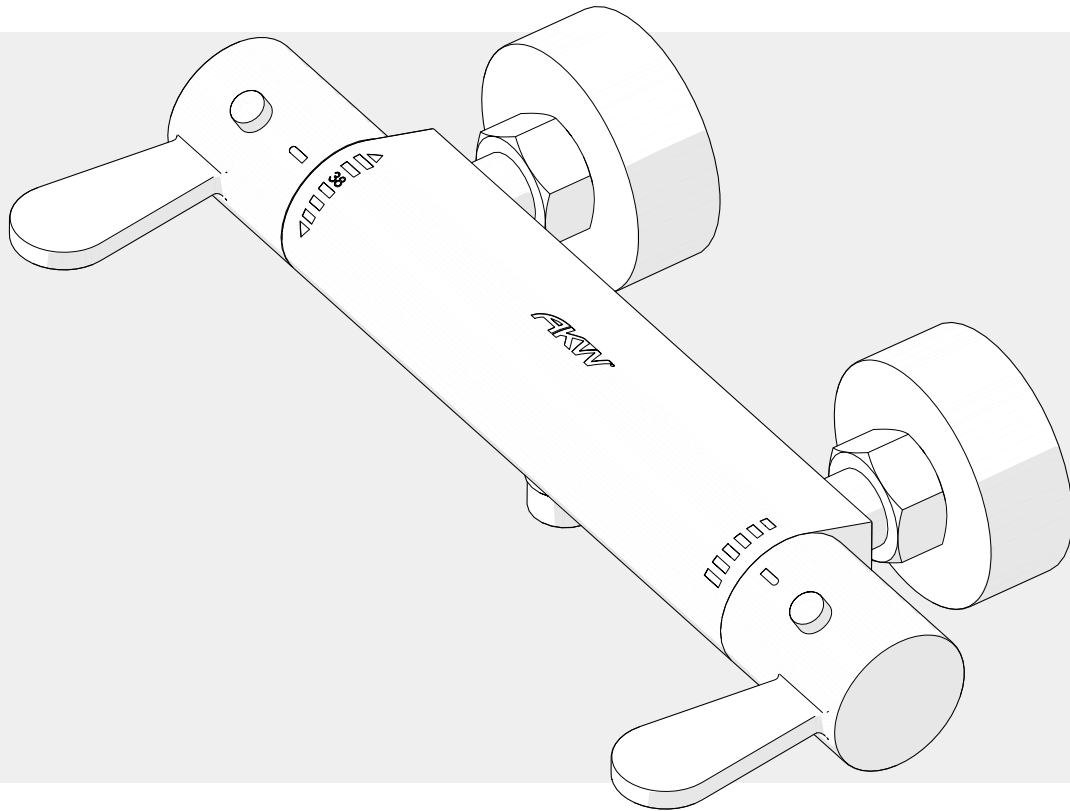


Arka Thermostatic Cool Touch TMV2 Mixer Shower

INSTALLATION INSTRUCTIONS

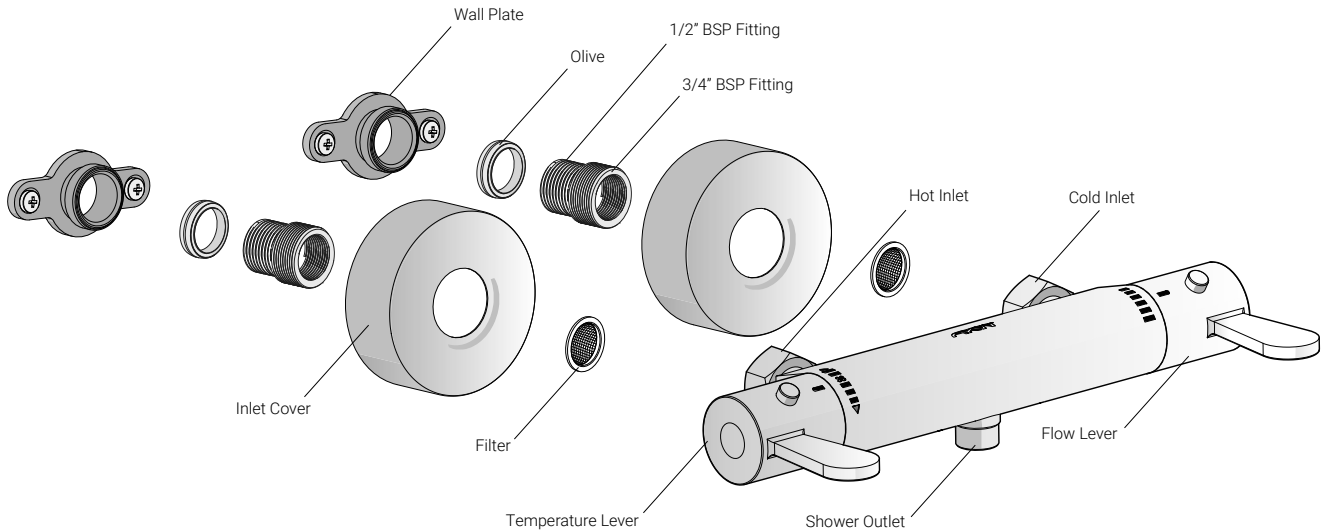


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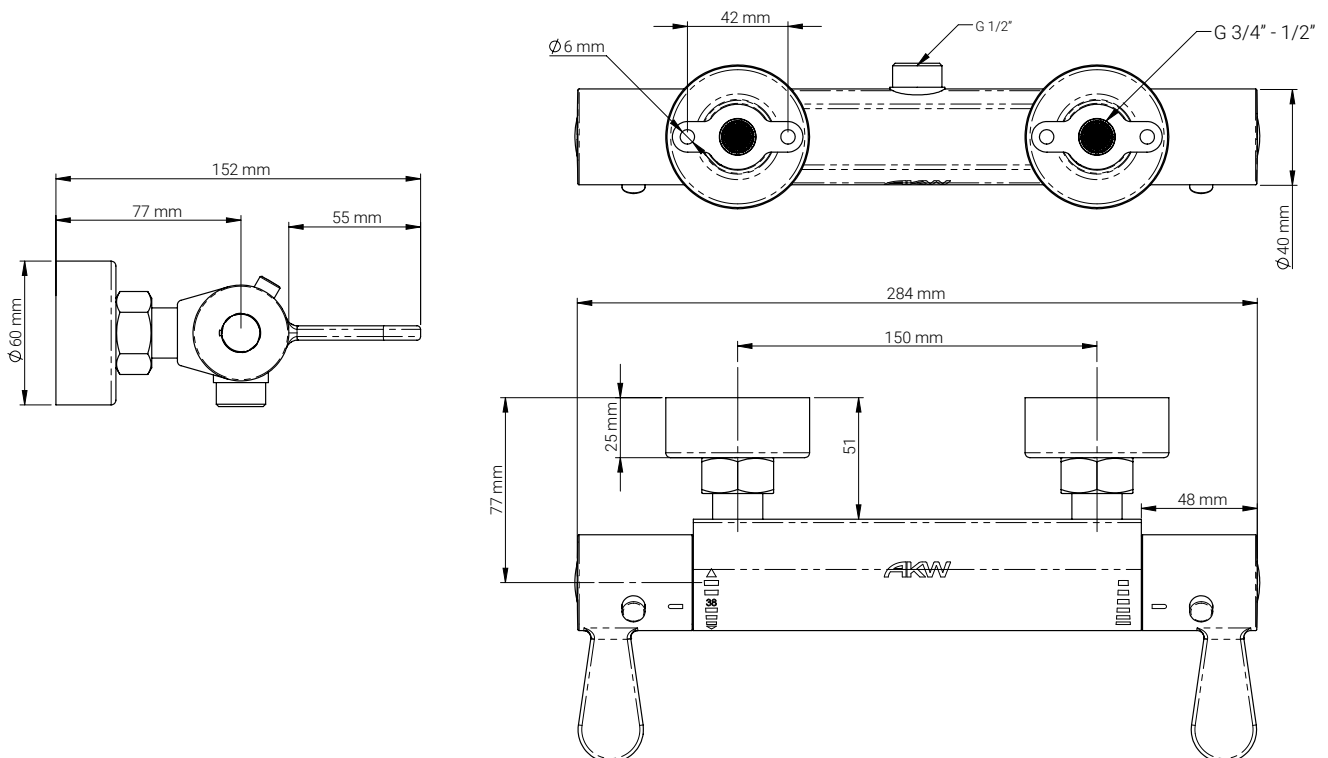
Please read all instructions before installation and leave this document with the end user for future reference as it contains important warranty information

Components & Dimensions

Components



Dimensions



Please check that all components are present from the packaging box prior to installation of this product. If anything is missing or damaged please contact General Enquiries - see back page.



Minimum Dynamic Pressure	0.5 Bar
Maximum Dynamic Pressure	5 Bar
Maximum Static Pressure	10 Bar
Dimensions for Fitting	150 mm
Concealed & Exposed Water Entry	Back
Inlet Connectors	3/4" - 1/2" BSP
Valve Type	Thermostatic Bar Shower Mixer with Independent Flow & Temperature Control
Approvals	TMV2, WRAS
Maximum Pre-Set Temperature	38 °C
Maximum Pressure Difference (Between Hot & Cold Water Supply)	1 Bar
Maximum Flow (@ 3 Bar)	19.5 L/Min

Do not choose a position where the shower could become frozen. Do not connect this mixer shower to any form of tap or fitting not recommended by the manufacturer. Do not allow the inlet pressure or flow rates to operate outside the guidelines laid out in 'site requirements'.

This product is precision-engineered and should give continued superior and safe performance, provided that:

1. It's installed, commissioned, operated and maintained in accordance with the recommendations given in this manual and must be conducted by designated, qualified and competent personnel.
2. Installation must comply with all local/national water supply authority regulations/by-laws and building and plumbing regulations.
3. Periodic attention is given, as necessary, to maintain the product in good functional order. This product is designed to deliver water consistently at a safe temperature. In keeping with every other mechanism, the mixer shower cannot be considered as being functionally infallible therefore it cannot totally replace the vigilance of nursing/supervisory staff where that is necessary.

Provided it is installed, commissioned, operated and maintained within these recommendations, the risk of failure is not eliminated but can be reduced to a minimum.

Installation

Installing the Fast Fit Kit

1. Identify all components are present prior to starting installation.
2. Mark the position for the pipework and the fixings supplied.

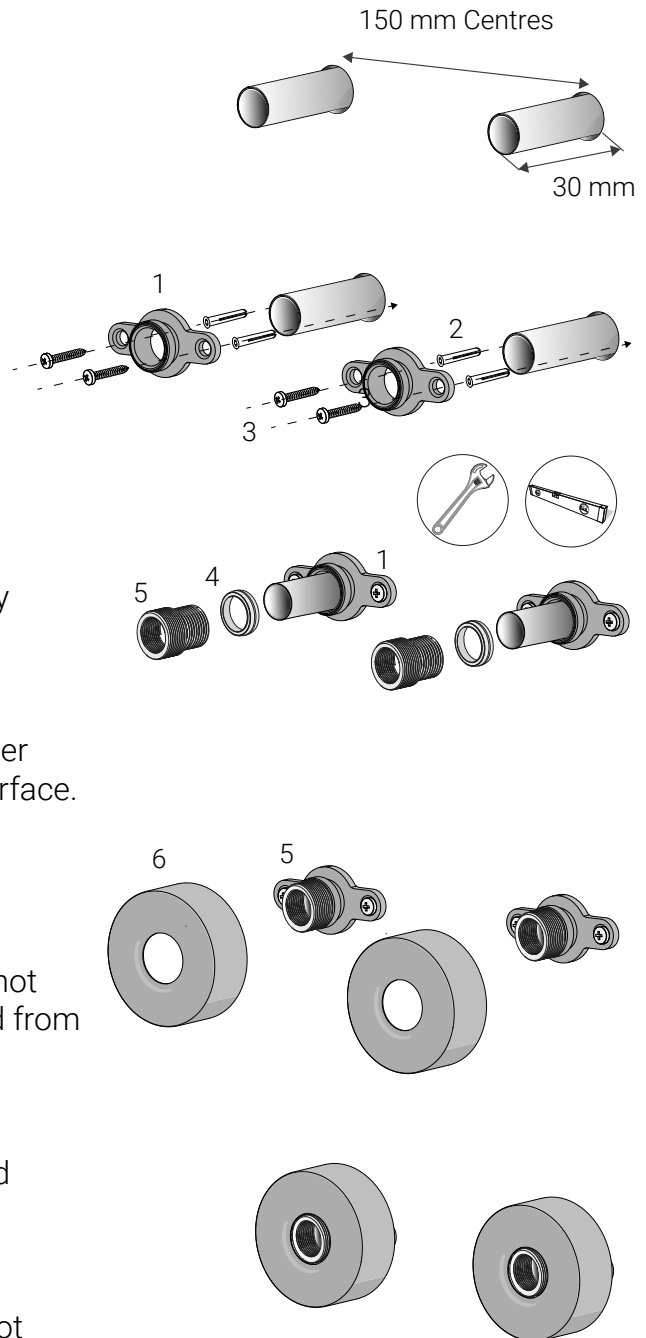
Note: The Pipe centres required for this thermostatic mixing valve are 150 mm. Before drilling into walls, check that there are no hidden electrical wires, cables, or water supply pipes. This can be done with the aid of an electronic detector.

3. Drill suitable holes in the wall surface at the marked positions to accommodate the supply pipework and fixings.
4. Terminate the pipework in the wall, ensuring that there is at least 30 mm of 15 mm diameter pipework protruding from the finished wall surface.

Important

Match up the water supply pipes with the thermostatic mixer valve. The must be with the hot on the left and the cold on the right when viewed from the front.

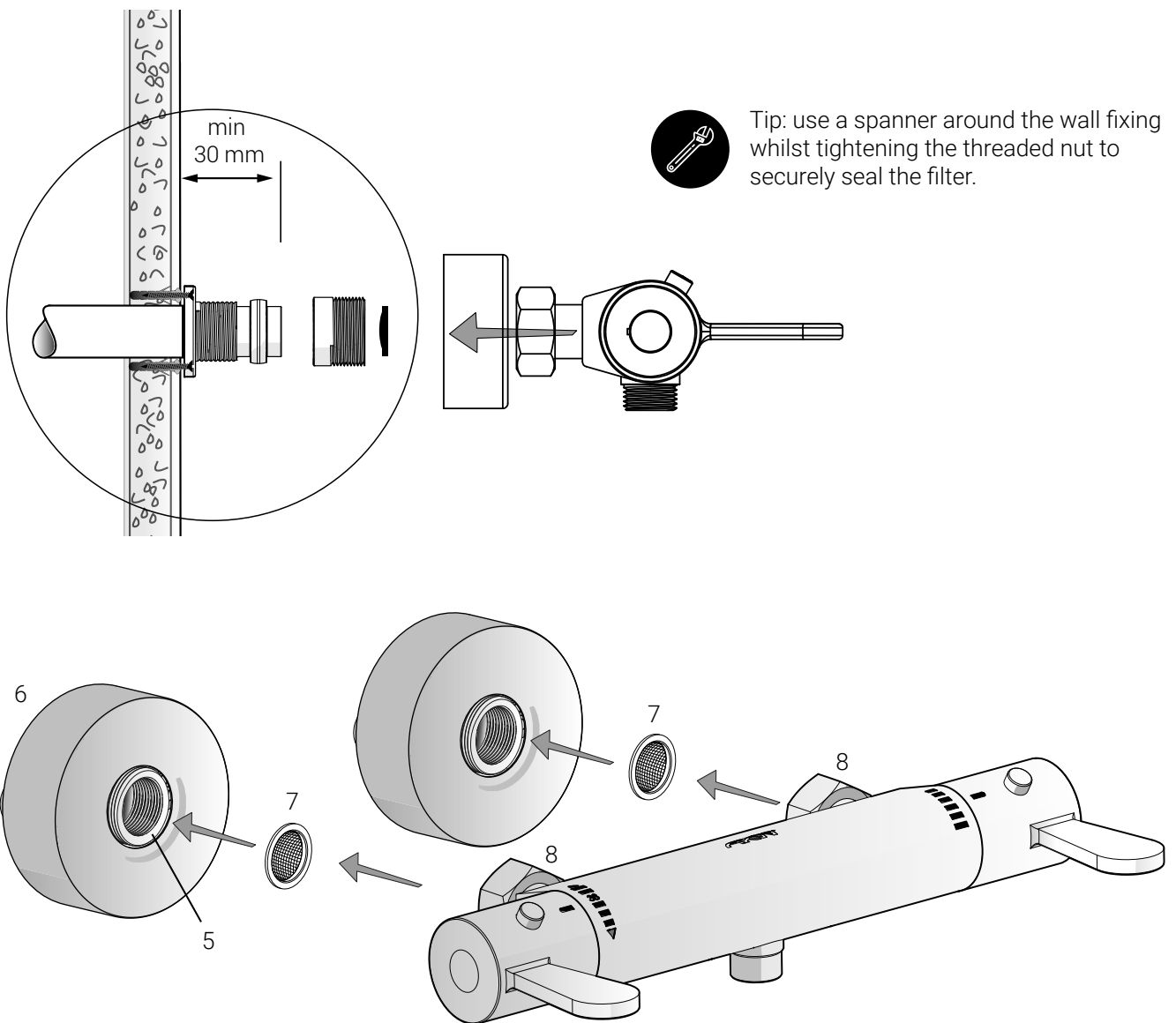
5. Place the inlet cover (1) over the supply pipe. Use the wall plugs (2) and screws (3) provided to fix the wall plates to the wall.
6. Place the olive (4) onto the protruding pipework. **IMPORTANT:** The pipework must not protrude past the olive (4) by more than 5 mm.
7. Screw 1/2" - 3/4" BSP fitting (5) onto the wall plate (1) using a 24 mm spanner. Repeat this step on the other side.
8. Screw the covers (6) over the wall plates / 1/2" - 3/4" BSP fittings (5) so that they are flush against the finished wall surface.

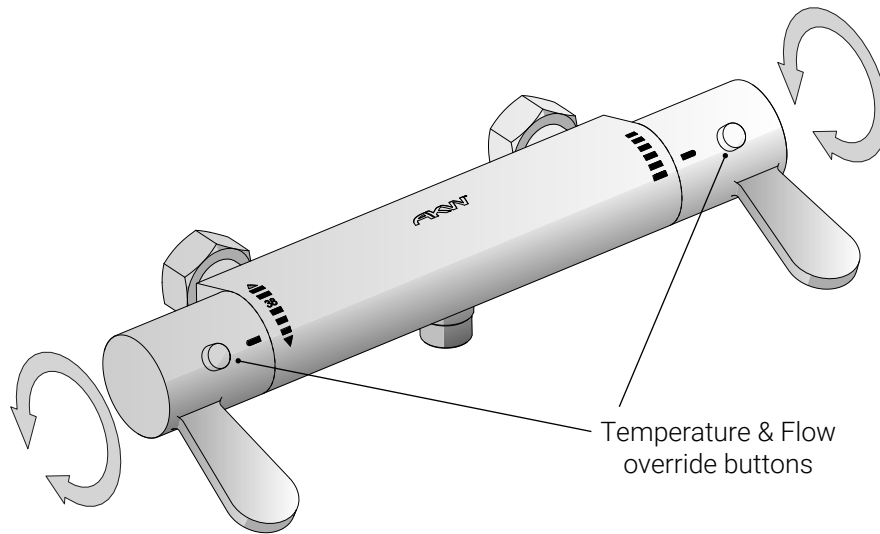


Installing the Arka Care Cool Touch Thermostatic Mixer Valve

1. Place the filters (7) into the 1/2" - 3/4" BSP fittings (5).
2. Position the shower valve threads (8) against the 1/2" - 3/4" BSP fittings (5) and carefully tighten the shower valve threaded nuts onto them. Do not overtighten.

Note: take care not to damage the finish of the shower valve fixing nuts. Protect the chrome plated surfaces with a cloth.





This product incorporates a cool touch feature. When the shower valve is in use, the body of the shower will not get hot and will remain cool to touch.

Adjusting the Flow

The flow is controlled by rotating the flow lever on the right side of the mixer. To obtain a higher flow rate, press the override button on the flow lever and continue to rotate the lever.

Adjusting the Temperature

The temperature is controlled by rotating the temperature lever on the left side of the mixer. The temperature is limited to a comfortable showering level of 38 °C. To obtain a higher temperature, press the override button on the temperature lever and continue to rotate the lever.

Do not rotate the levers to obtain maximum flow and temperate rates without depressing the override buttons.

Table 3: Mixed Water Temperature

Application	Abbreviated Designation	Mixed Water Temperature (°C)
Shower	HP-S	38

Purpose

Since the installed supply conditions may be different from those applied in the factory, it is appropriate at commissioning to carry out some simple checks and tests of the product.

Procedure

Check that:

- a. The designation of the mixing valve matches the intended application.
- b. The supply pressures are balanced and within the range of operating pressures for the designation of the valve.
- c. The supply temperatures are within the range of 55 - 65 °C for the valve for the prevention of legionella etc.

Note: the final stabilised mixed water temperature during installation should not exceed the values in Table 3. If there is residual flow during the commissioning or the annual verification (cold water supply isolation test), it is acceptable providing the temperature of the water seeping from the valve is no more than 2 °C above the designated maximum mixed water outlet temperature setting of the valve. Temperature readings should be taken at the normal flow rate after allowing for the system to stabilise.

Maximum Temperature Setting

The maximum blend temperature obtainable by the user should be limited to prevent accidental selection of a temperature that is too hot.

Make sure that an adequate supply of hot water is available at the hot inlet of the mixer. The minimum temperature of the hot water must be at least 10 °C above the desired blend. However, during resetting, this should be close to the typical storage maximum to offset the possibility of any blend shift due to fluctuating supply temperatures. Make sure that both inlet isolating valves are fully open. Temperatures should always be measured using a thermometer with proven accuracy.

Troubleshooting

Problem	Cause	Solution
No flow or low flow rate and / or varying temperatures	Partially closed stop or service valve in water supply pipework to the mixer valve.	One stop or service valve.
	Instantaneous water heater cycles on and off as the flow rate or pressure is too low.	Increase water flow rate or pressure through system. Contact the boiler manufacturer.
	Head of water is below the minimum required	Refer to specifications section.
	Inlet filter is partially blocked.	Clean or replace. Flush pipework before refitting.
	Hot or cold water being drawn off elsewhere causing pressure changes or instantaneous boiler changes.	Do not use other water outlets when using the shower valve.
	Imbalanced inlet pressures.	If pressures are unbalanced a pressure reducing valve should be used.
	Airblock or partial blockage of the pipework.	Flush pipework to ensure removal of debris and any airlocks.
	No hot or cold water reaching the shower valve.	Check hot and cold feeds (the valve will shut down if either supply fails).
Water leaking from shower head	This is normal for a short time after turning off.	Adjust the angle of the shower head as necessary to vary draining time.
	Shower flow control valve failing to close fully, possibly due to water borne debris.	Remove flow control valve assembly and check.
	Flow control valve seals damaged.	Check condition of flow control valve and replace as necessary.
Maximum water temperature is too hot or cold	Maximum water temperature is set incorrectly	Reset maximum water temperature.
Outlet water temperature is too hot or cold	Inlet filter is partially blocked.	Check inlet filters for any blockages and clean as necessary.
	Installation conditions are outside operating parameters.	Refer to Important Information section.
Water supply temperature is too cold	Hot water temperature is less than 10 °C above the required blend temperature.	Adjust hot water temperature or wait for water to reheat if stored system is used.
	Instantaneous water heater is not igniting because water flow rate is too low.	Increase water flow rate through the system. Check cartridge inlet filters and clean or replace. Contact the manufacturer.
	Instantaneous water heater is not igniting because water pressure is too low.	Refer to Information for system requirements. Increase water pressure through system. Contact the manufacturer.
Only hot or cold water from TMV outlet.	Inlet water supplies are reversed (hot to cold supply).	Connect the water supplies correctly. Hot on the left and cold on the right when viewed from the front. Rework pipework as necessary.
	Inlet filter is partially blocked.	Clean or replace. Flush through pipework before refitting.

Contact Us

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Warranty

Warranty applies only to manufacturing or material defects, conditional on the one-time correct installation of the product. It does not apply to:

- Inappropriate use or accidental damage.
- Damage or defects that result from incorrect installation.
- Lack of maintenance including the build up of grime or damage resulting from inappropriate cleaning.
- Damage or defects that result from repairs or modifications undertaken by unauthorised persons.
- General wear and tear through usage and does not apply to surface finishes.

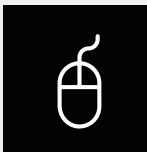
Warranty period starts from the date of installation.

To activate your warranty, you must register your product within 30 days of installation. See the T&Cs on our website for further information.

Select 1 of 3 ways to activate your warranty



1. Scan using your Smart Device



2. Visit Online

akw-ltd.co.uk/warranty-information



3. Warranty Card

Fill and complete warranty card and post using the prepaid envelope supplied

What to do if something goes wrong?

In the event that you encounter a problem with this product, follow the trouble shooting guide if applicable, then contact your local installer. If the issue is still unresolved, contact AKW Technical Enquiries who will provide further advice and arrange for a maintenance engineer to visit if necessary. None of the foregoing affects your statutory rights.