



GREAT WATER

AB-I AllBoost Pump

Product Owner`s Manual

Intelligent permanent magnet variable frequency pump

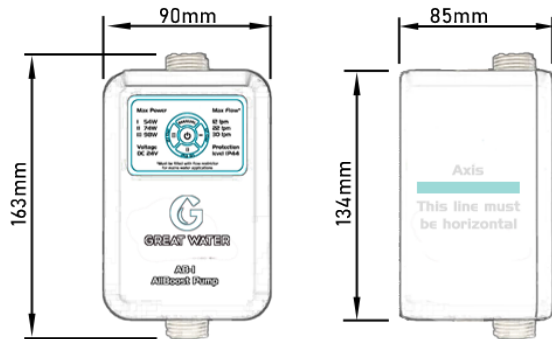


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Please read the product manual before installation and use

Specifications

I II III – Three speed adjustment low medium high – One pump multi-purpose



Overload protection



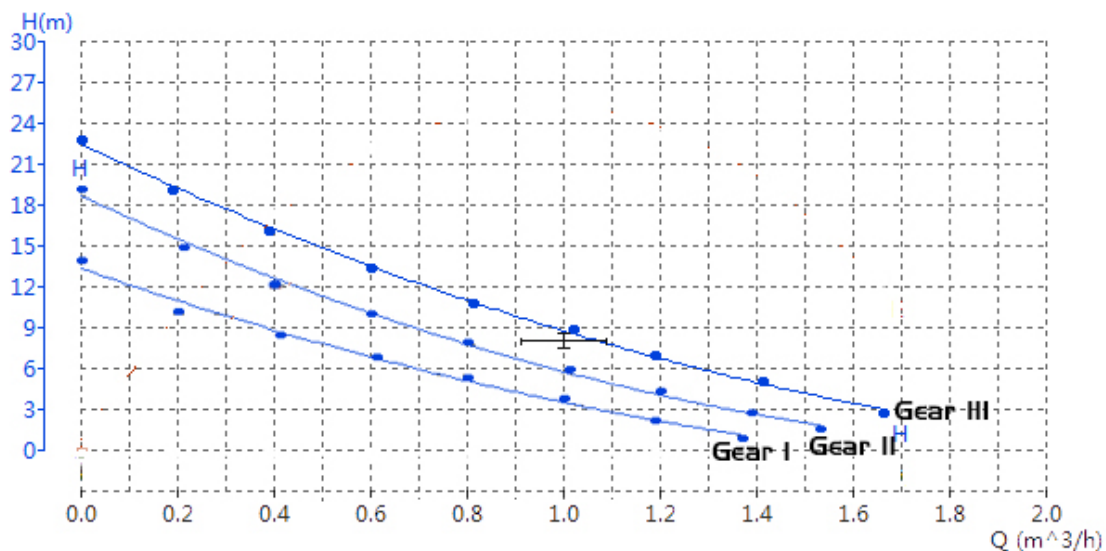
Run dry protection



DC 24V Power

Suitable for:

- Mains water boosting (Max. 12 lpm)
- Gravity hot or cold supplies (+VE head)
- Hot supplies to mixers
- Combi boilers
- Improving flow and pressure



AB-I AllBoost Pump		
	Mains Water Supply	Gravity Water Supply
Rated head	1.6 bar	
Maximum head	2.1 bar	
Rated flow rate	12 lpm	18 lpm
Minimum flow rate	0.5 lpm	
Maximum flow rate	12 lpm	28 lpm
Rated voltage	24V	
Rated current	3.5A	
Maximum power	100W	
Maximum speed	3000r/min	
Inlet & outlet diameter	½" Male Thread	¾" Male Thread
Protection level	IP44	
Maximum water temperature	60°C	
Ambient temperature	40°C	

Manufactured & assembled in China to UK Specification of Great Water Ltd

Installation

Thank you for choosing Great Water products.

These instructions are aimed at plumbing professionals and installation should only be undertaken by a competent person.

This AB-I Pump is designed to be used for either Mains Water or Gravity fed applications.

It is essential to fit the Flow Controller provided when fitting to Mains Water pipework. We also recommend fitting isolation valves before and after the AllBoost pump.





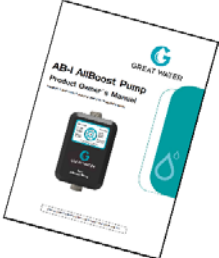

This unit is not designed to operate in conjunction with accumulators or other pressure devices.

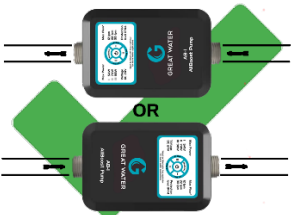
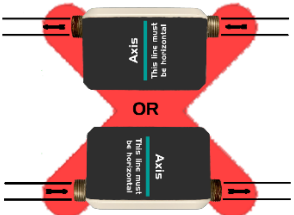

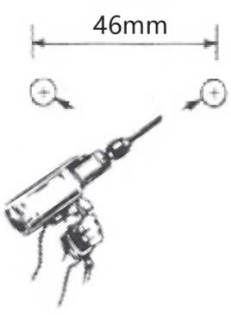


The AllBoost system is designed to boost clean mains or tank water supply. Use in other applications may invalidate the warranty. For advice on particular applications please contact Great Water on 01932 245 783.

All fittings and pipework used in conjunction with this installation must be suitable for potable water and a minimum operating pressure of 5 Bar.

Connect the pipework as shown for your application.

Contents of box

 <p>AB-I Pump</p>	 <p>Tail Adaptors</p>	 <p>Flow Restrictor</p>
 <p>Power Adapter</p>	 <p>Manual</p>	 <p>Screws & Plugs</p>

<p style="text-align: center;">IMPORTANT</p> <p>When connecting to horizontal pipework the pump must be oriented as shown.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Correct</p>  </div> <div style="text-align: center;"> <p>Wrong</p>  </div> </div> <p> The axis must be in a horizontal position.</p>	 <p>Step 1: Mount the pump, hole spacing of 46mm.</p>
 <p>Step 2: Fit the flow restrictor on to the outlet of the pump. Flow restrictor is required for all mains water applications. Paying attention to the direction of water flow, connect the 15mm pipe to the inlet and outlet of the pump respectively.</p>	 <p>Step 3: Remove the rubber plugs on the back and mount the pump into position.</p> <p>Step 6: Proceed to the commissioning instructions on page 7.</p>

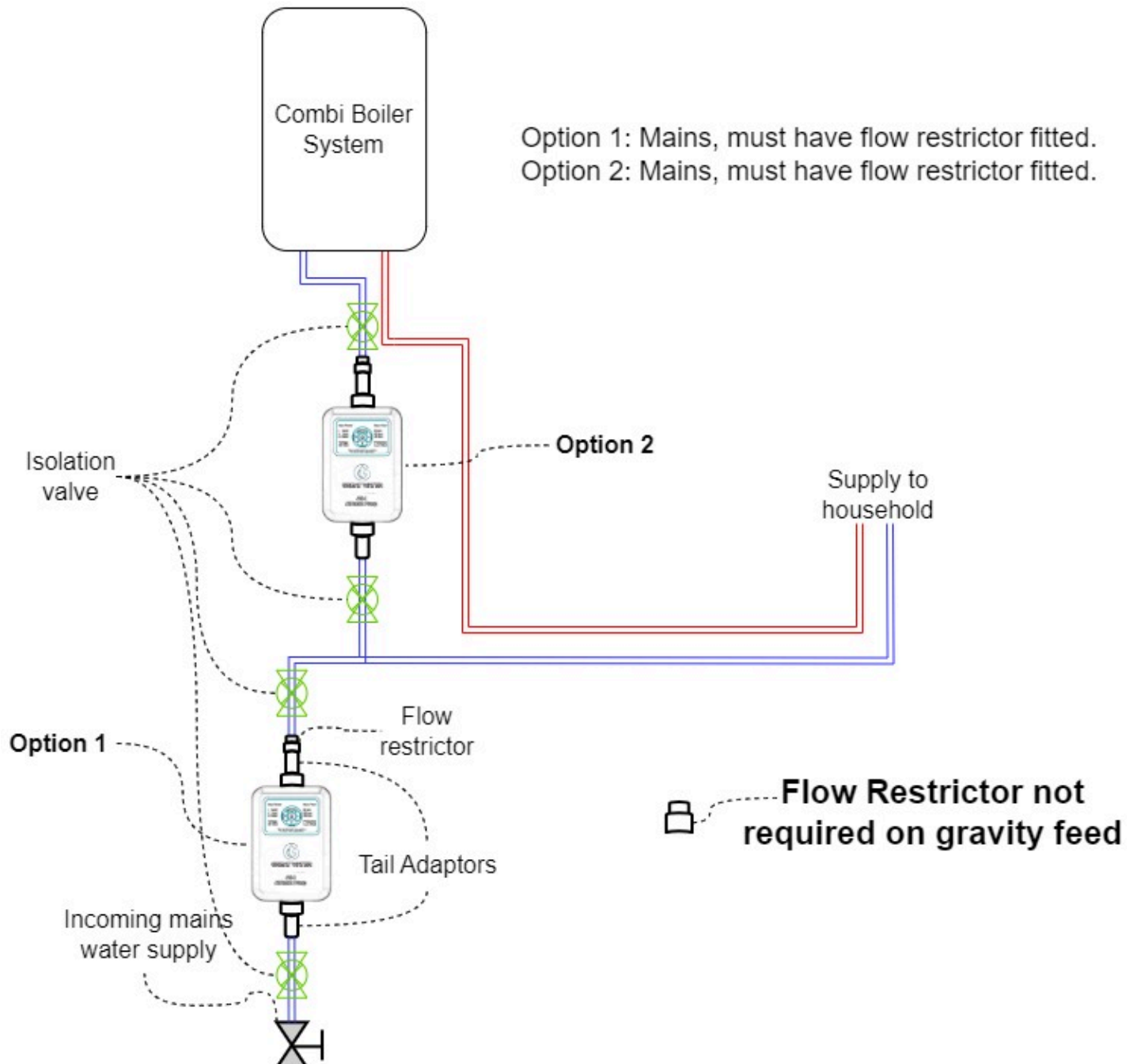
Installation examples

On the next couple of pages are a few examples of how you might install the AB-I AllBoost

Installation applications

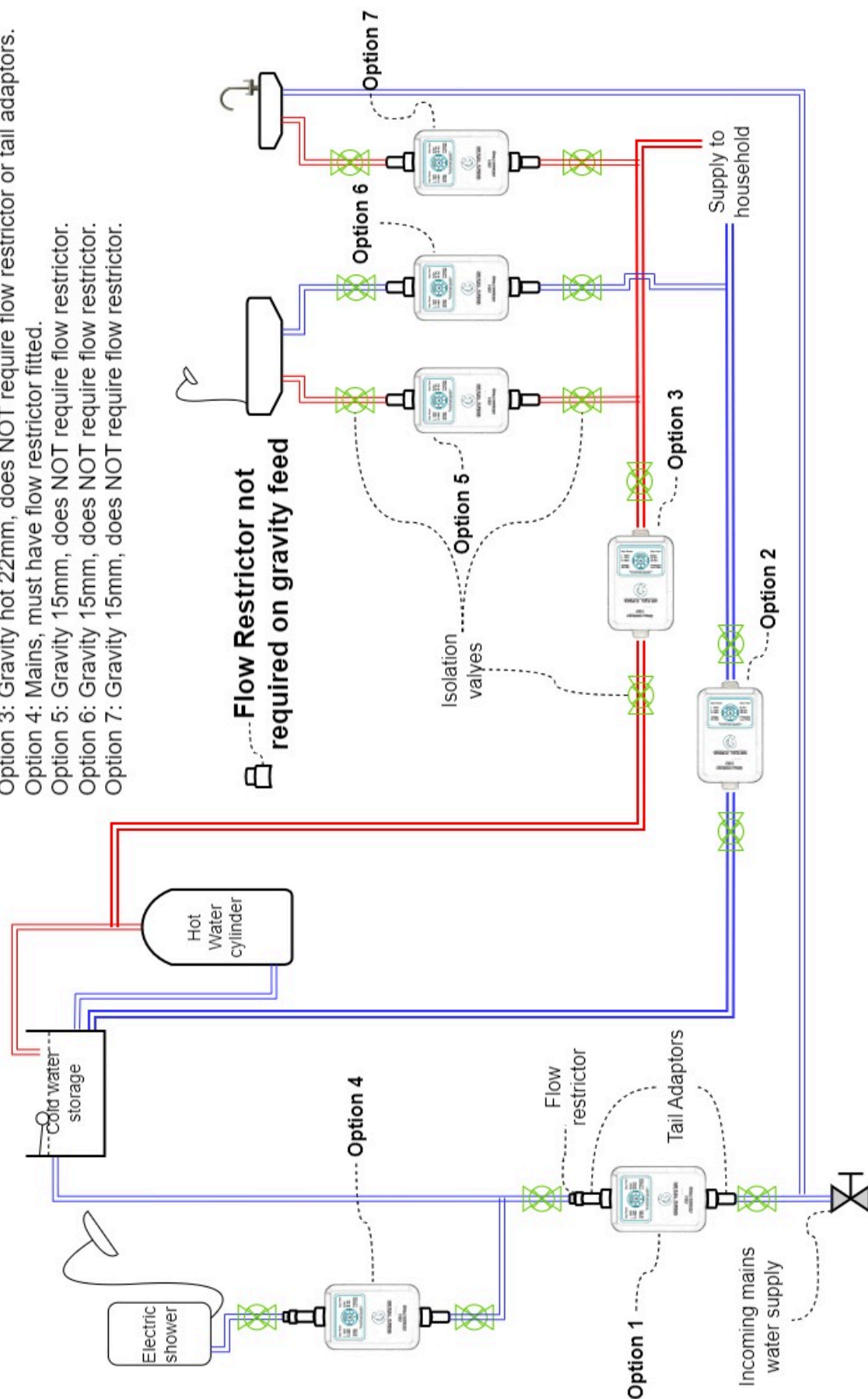
Examples of how they should be installed.

Combi Boiler System






Hybrid System

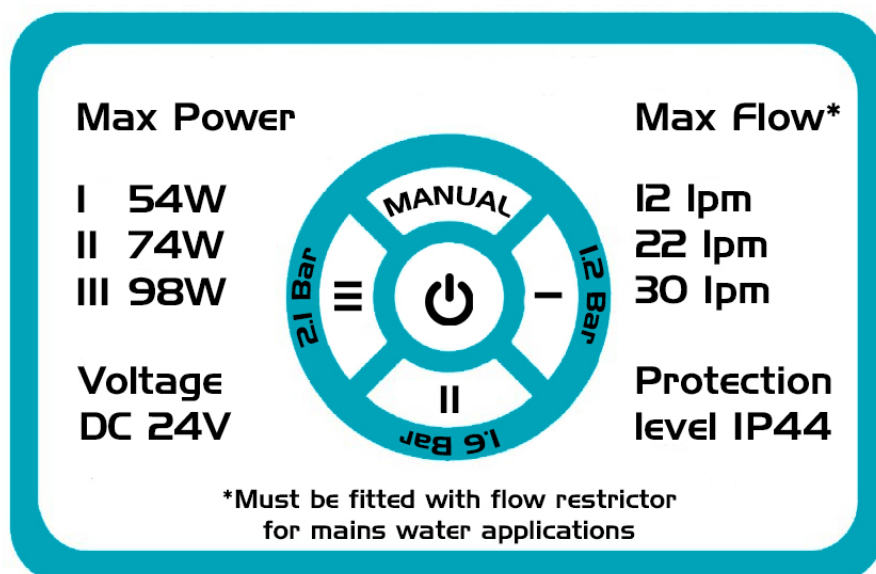
- Option 1: Mains, must have flow restrictor fitted.
- Option 2: Gravity cold 22mm, does NOT require flow restrictor or tail adaptors.
- Option 3: Gravity hot 22mm, does NOT require flow restrictor or tail adaptors.
- Option 4: Mains, must have flow restrictor fitted.
- Option 5: Gravity 15mm, does NOT require flow restrictor.
- Option 6: Gravity 15mm, does NOT require flow restrictor.
- Option 7: Gravity 15mm, does NOT require flow restrictor.



Commissioning Instructions and Checks

1. **IMPORTANT** – do not switch on the pump for the first time until the pump and pipework have been completely purged of air and filled with water.
2. Check all pipework and connections for leaks before starting pump.
3. Connect the power supply to start the pump. Select the required speed/pressure setting by pressing the central  button repeatedly. The pump will display a green flashing light to indicate the setting. The pump will not start until water is flowing at a minimum of 0.5 lpm. The pump will display a solid green light when running and will automatically revert to stand-by (flashing green light) mode when the water flow stops.
4. To manually start the pump and override the automatic start stop mode press and hold the  button for 5 seconds. The Green light will illuminate under the word manual and the pump will run in setting III. **The pump should NOT be left in Manual mode as it will run continuously.** Press the  button to return to automatic Start/Stop mode.

Display Panel functions and operation



Troubleshooting Please turn off the power supply before attempting any repair to the pump.

Fault:	Checks:	Solutions:
Pump does not operate	<ol style="list-style-type: none"> 1. Power adapter not plugged in. 2. No output voltage from power adapter. 3. Short circuit protection for plugs. 4. Impeller jamming. 5. The electric pump is burned. 6. Not working automatically. 	<ol style="list-style-type: none"> 1. Re-plug the power adapter to ensure good contact. 2. Replace power adapter. 3. Check for water accumulation at the plug. 4. Disassemble the pump and clean the internal impurities. 5. Replace pump. 6. After cleaning, reinstate the automatic setting.
Insufficient water supply	<ol style="list-style-type: none"> 1. The pipeline is too long or has too many bends. 2. Blockage in the pipeline or pump chamber. 3. Damaged impeller. 	<ol style="list-style-type: none"> 1. Shorten the pipeline to make it straight. 2. Remove internal blockage. 3. Replace impeller/pump.
High vibration noise	<ol style="list-style-type: none"> 1. Foreign objects inside the pump chamber causing friction. 2. There is air inside the pipeline. 3. Internal parts damaged. 	<ol style="list-style-type: none"> 1. Clean internal impurities. 2. Clean the internal air. 3. Replace damaged parts/pump.

Warranty

Our AB-1 AllBoost comes with a great 2-year warranty as standard.

Your new AB-1 AllBoost Pump has been designed to give you many years of trouble-free service and is guaranteed against faulty materials and workmanship for a period of 24 months from date of purchase. Under provision of this warranty agreement the warranty limited to the repair or replacement of the unit only and is subject to the terms and conditions, available on great-water.co.uk/ab-1warrantyterms or scan the QR code below.



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