Installation and user guide

Purest Water Saltless Softener

For all 3 Vessel Purest Water Model Applications

Aquatiere

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System Main Component Contents

3 VESSEL MODEL

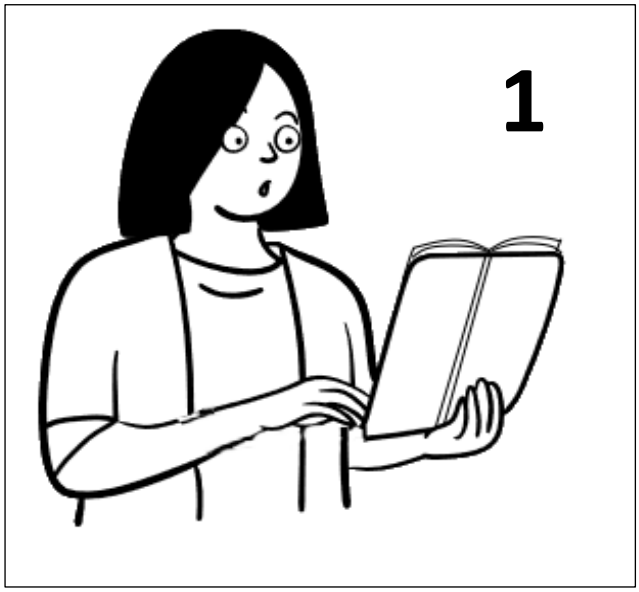
QTY 1) Cannister 1 (suspended housing) and carbon cartridge
(QTY 1) cannister 2 (Floor standing Pressure vessel,) Ceramet blend ceramics and resin fill
(QTY 1) Cannister 3 (suspended housing) and Carbon / Polyphos cartridge
(QTY 5) 22mm Pushfit– ¾" BSP male thread connector **(a)**
(QTY 2) ¾" BSP male - ¾" BSP male nipple **(b)**
(QTY 2) ¾" BSP female - ¾" BSP female collar **(c)**
(QTY 2) ¾" BSP female - ¾" BSP female 90º bend **(d)**
(QTY 2) ¾" BSP male – 22mm stem connection **(e)**
(QTY 2) Filter Mounting Bracket **(f)**
(QTY 1) Service Tool **(g)**
(QTY 1) Instructions **(h)**

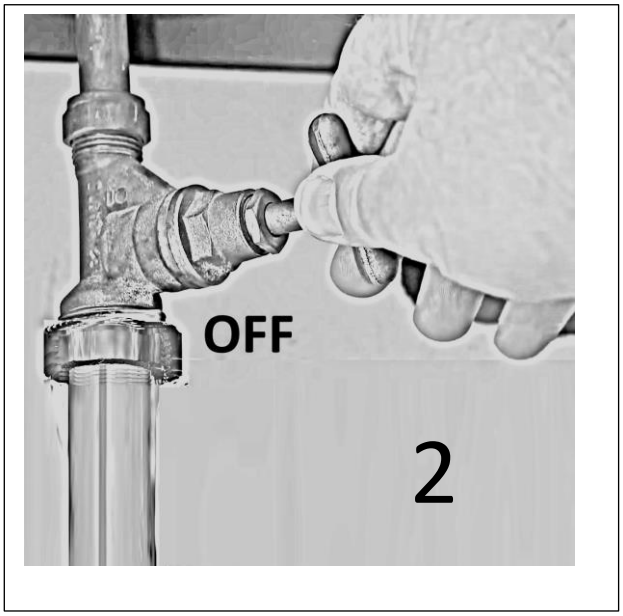
a	b	c	d	e	f	g	h
							

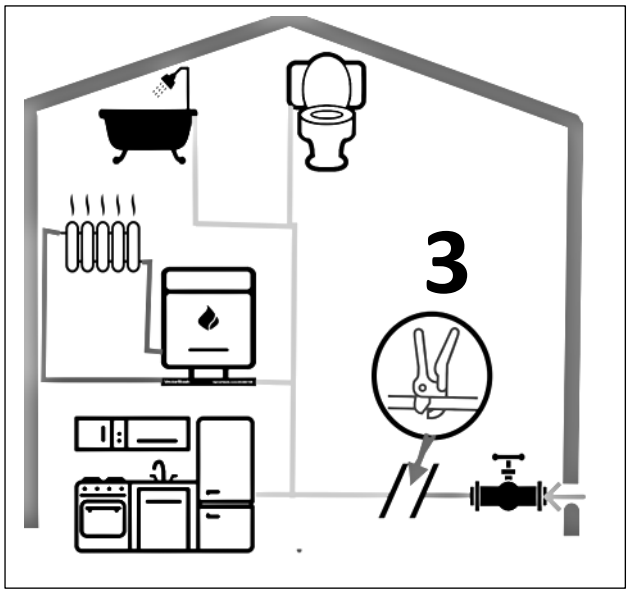
ADDITIONAL ITEMS TO BUY FOR INSTALLATION

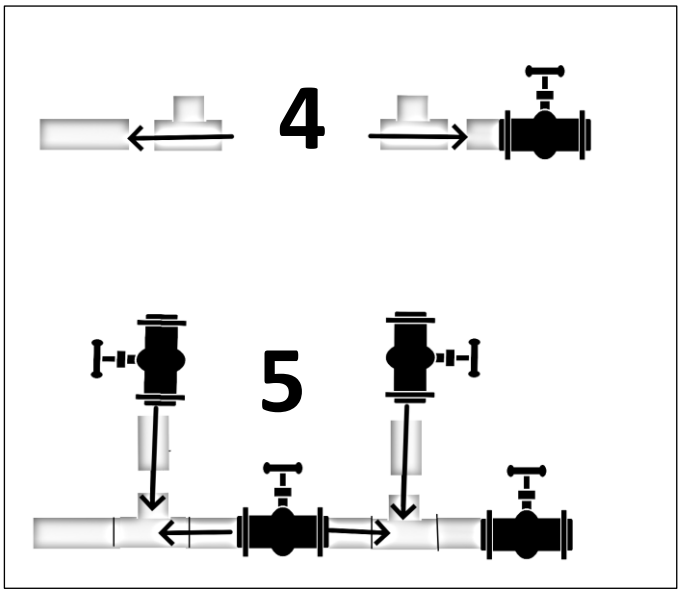
- 3 x pipe isolation lever valves
- Lengths of plastic (**non copper** pipe) and/or flexible braided hose (22mm)to adapt existing plumbing.
- Connectors to enable branching and direction of pipe run from existing plumbing to the filter location.
- Suitable wall mounting screws to mount side filter(s)

Preparing your existing plumbing



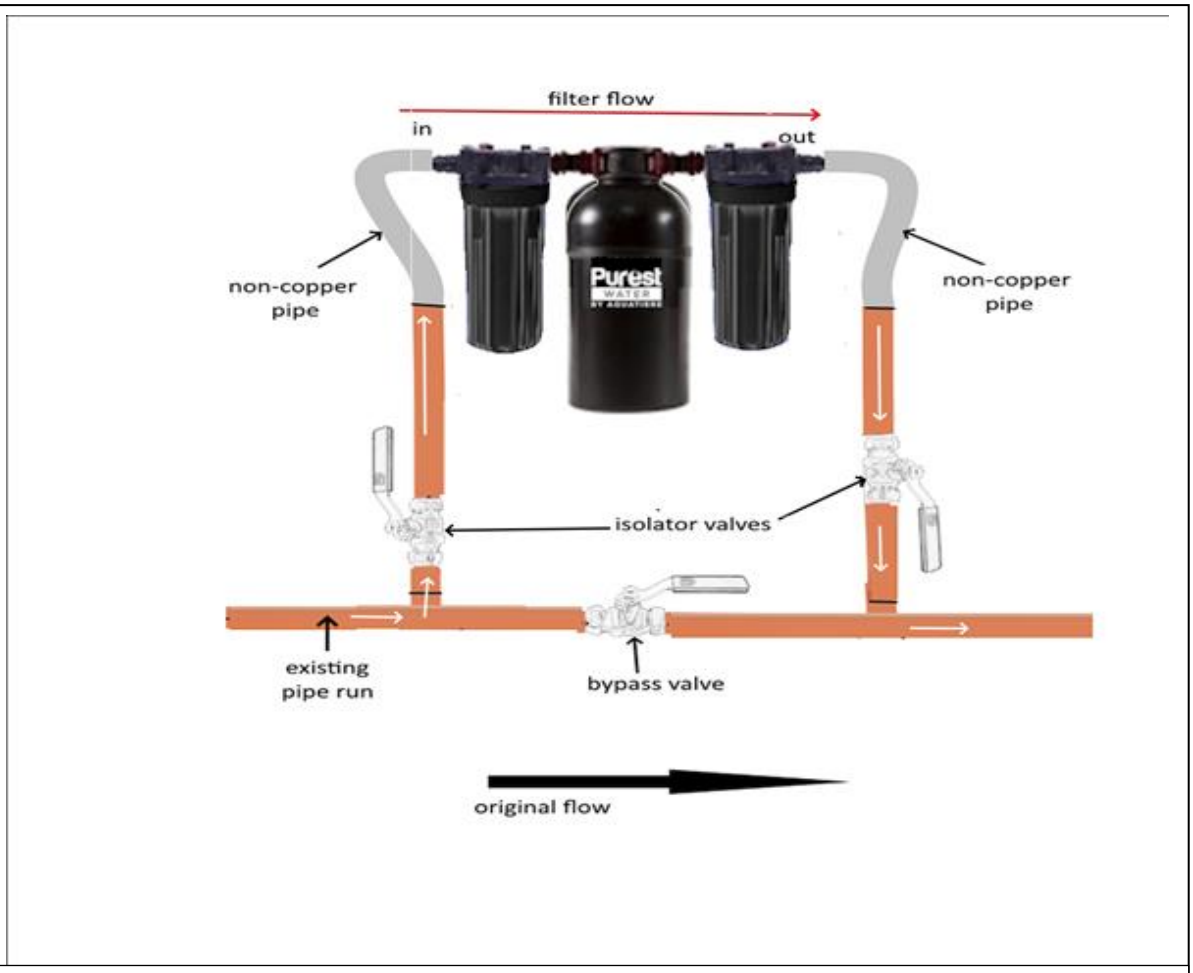




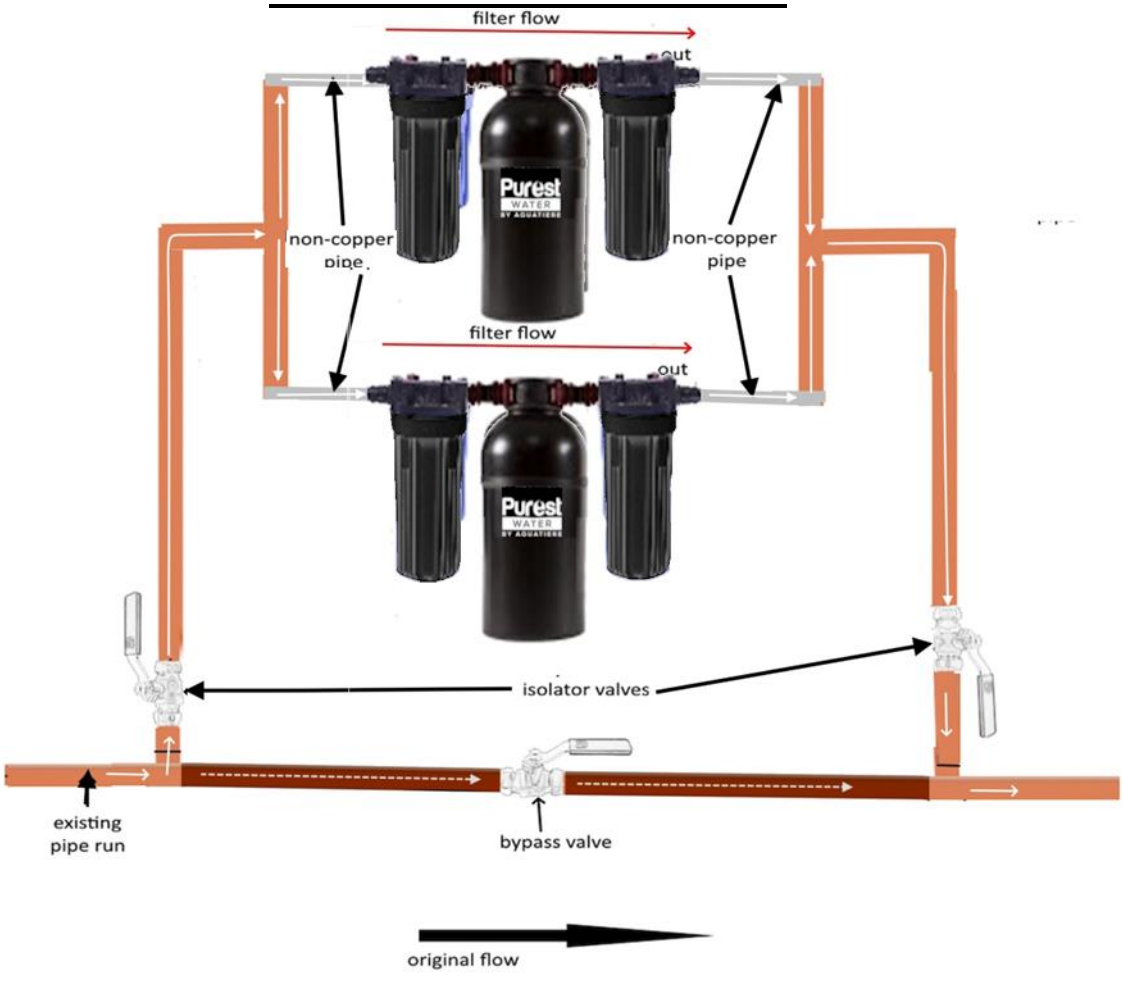


Refer to System plumbing diagrams on next page

System Plumbing Basic layout principle

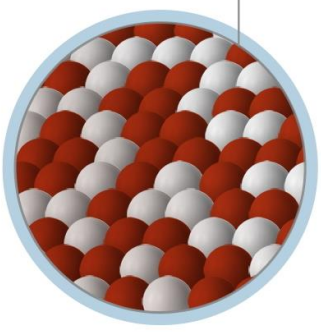


DUPLEX FITTING GUIDE



Or similar fast acting, silicone paste which is used as an effective external leak sealer and jointing compound, that never sets rock hard so joints can easily be undone and completely safe to use with drinking water installations.

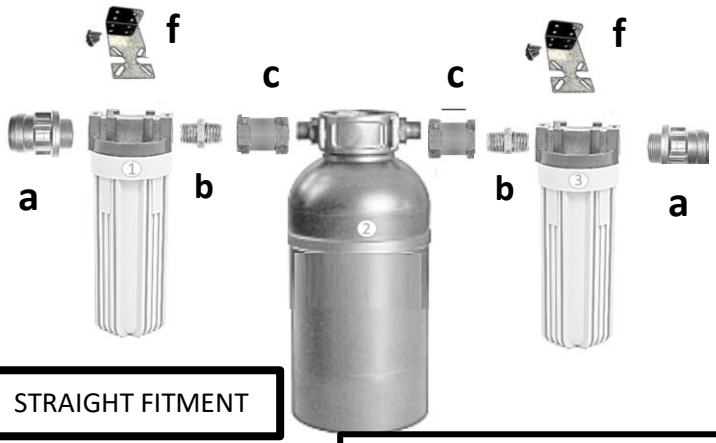
Main Tank Assembly



Ceramet purification

Our specially formulated ceramet naturally kills bacteria and produces alkalised, oxidised and energised super water.

Purest Water Supreme Assy

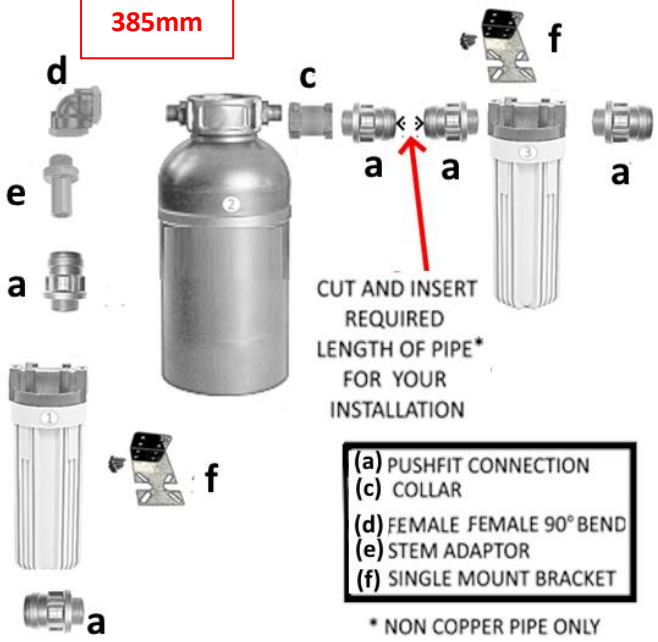


STRAIGHT FITMENT

(a) PUSHFIT CONNECTION
(b) MALE-MALE THREAD
(c) FEMALE-FEMALE COLLAR
(f) MOUNTING BRACKET

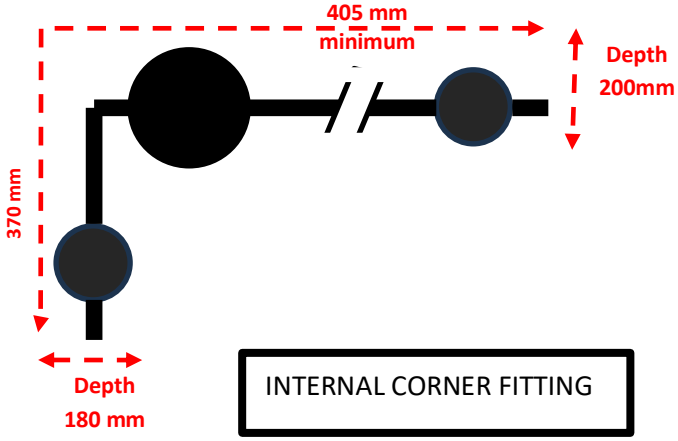
Depth 200 mm
Width 588 mm
Height 385 mm
without bracket

Height 385mm



(a) PUSHFIT CONNECTION
(c) COLLAR
(d) FEMALE FEMALE 90° BEND
(e) STEM ADAPTOR
(f) SINGLE MOUNT BRACKET

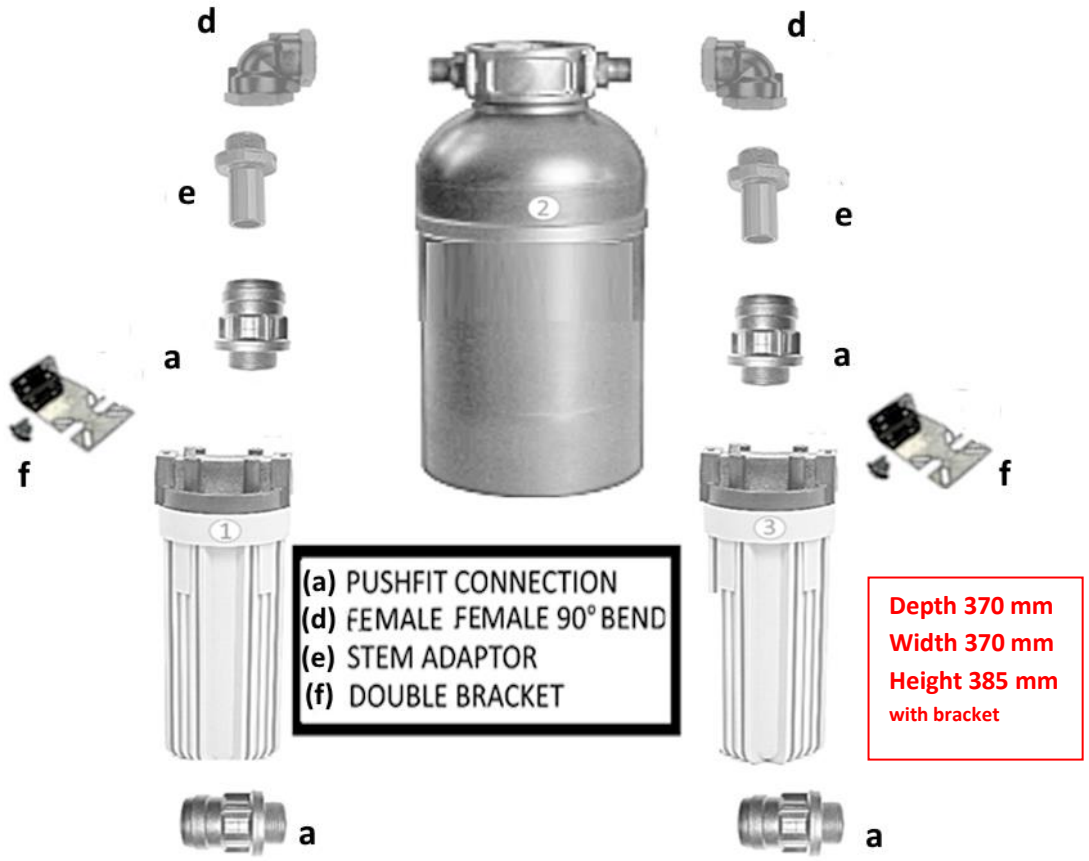
* NON COPPER PIPE ONLY



INTERNAL CORNER FITTING

Side Cannister Assembly

Lubricate with silicone plumber's grease



COMPACT RETURN 180^{O} MOUNT CONFIGURATION

PLEASE READ PRIOR TO INSTALLATION

If vessels are to be mounted for a custom install, additional pipes and connectors will need to be planned and sourced to achieve this. We have a range of connection adaptors that can be purchased from our website in our spares section www.aquatiere.co.uk

We supply the system with connectors to take 22mm pipework on a ¾" BSP port, fittings to connect pipework larger than 22mm are not supplied, This is a custom adaptation and will require the plumber's assessment on what additional fittings will be needed.

Caution must be taken when considering brassware connections on such installations as the plastic threads can easily be damaged by the harder brass threads. Using a gel type sealant such as Fernox LS-X is recommended to reduce this risk. **Do not use PTFE tape**.

INSTALLATION

Before installing, please ensure you have the correct model with regards to the properties plumbing demand and the water source conditions (Mains or private water supply). *Aquatiere can advise if required.*

- Consider the location to mount the actual filter, is the fixing point going to be sturdy to take the cannister weight when filled with water?
- Is the location going to allow easily access for cartridge changing?
- Where will the feed and return plumbing run and where can the system isolation and bypass points be located for ease of use?

The point of connection to the existing plumbing is discussed below in **Point 2.** and **Point 6**.

1. INITIAL INSTALLATION CONSIDERATIONS

- Observe water byelaws.
- Ensure there is only one incoming water mains.
- Be aware of condensation issues in warm areas. Locate away from heat sources, protect from freezing temperatures, direct sunlight , wildlife and areas where physical impact is a risk. If an outside location is chosen, the system must be in an enclosed cabinet and fully lagged along with pipework to protect it from environmental damage in summer and winter.

2. BEST PLACE TO FIT THE UNIT

- Fit the unit in a location with plenty of access for servicing.
- Pipe connection onto the existing plumbing should be close to the mains feed after the stopcock inside the property and before the distribution around the building.
- The filters can be mounted independently if the space allocated demands it on adjacent walls or even different places, however, filter sequence must be maintained, and the feed and return must connect onto the existing plumbing as advised in the previous bullet point. Fittings to allow connection of additional pipework between the individual units are available on our website. but additional pipes and connectors will need to be planned and sourced to achieve this.
- If possible, it is recommended not to supply any outside garden tap from the filter.

3. NON-RETURN VALVE

- A single check valve should be fitted.

4. DRINKING WATER

- As the unit produces drinking water, no separate tap supply is required.

5. WATER PRESSURE

- Maximum regulated water pressure – 4 BAR
- Minimum water pressure – 1.5 BAR
- It is important to fit a pressure reducing valve if pressure is likely to exceed 4 BAR

6. PIPE WORK

<u>Do not use any copper pipework</u> <u>immediately adjacent to the filter housings</u>

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Plastic pipe or non-copper pipe work (including braided flexible hoses) **MUST** be used adjacent the filter on the feed and return, and between any runs of pipe between the cannisters. This is to provide a protective zone around the filter to avoid copper leaching by ionic draw.

- Pipework should integrate with the main household plumbing after the stopcock on the incoming water main where it has entered the property and before the plumbing separates to the various feeds to taps, boiler and hot water feed, toilets etc.
- Ensure to fit a bypass loop and isolation valves (not supplied) for servicing and maintenance.
- As a safety measure ensure any continuity of earth bonding on existing pipes is restored if a break in the copper pipework is created that breaks the continuity to the earthing point.
- In new builds or new copper pipe work installations 6- weeks should be allowed to Pass prior to commissioning the system to be live, this will allow some oxidisation of the new pipework and flush any copper particles out of the new plumbing.

7. NON-MAINS WATER SUPPLIES

- In the event of the water supply being from a well or other natural source, Aquatiere must be contacted before installation as additional measures must be taken to ensure the water has been tested and the right additional equipment is in place.

8. ASSEMBLY

Assemble the units in order, refer to the fitting kit diagram (see pages 2-3). All vessels must be mounted in a vertical position Note the flow arrow and filter sequence. The 2 suspended cannisters will require a clearance underneath of a minimum of 6 cm to allow clearance for the bowl when it is undone to change a cartridge from canister Ensure that the mounting brackets are anchored to a firm load bearing surface and sited so access for cartridge changing of each cannister is easy.

As the connections supplied are tapered threaded plastic joints, it should be sufficient to assemble and screw the connections fully home using a semi hardening gel like Fernox LS-X that's WRAS approved for potable water. **DO NOT use any PTFE tape or solvent glues** on the threads as this will damage components. Check all joints to ensure proper seal.

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ATTENTION
Due to the nature of production of the resin-based medias there may be a high moisture content which may seep out of the cartridge during transit.

ADVICE ON DIFFERENT LAYOUTS FOR THE FILTERS TO BEST FIT YOUR SPACE

Please note with any altered layout being made on our system the feed and return must originate and return to the pipework just after the stopcock inside the property before it distributes around the home , the designed filter sequence must remain the same and filter housings must mount vertically . and any additional plumbing between separated vessels must not be copper. By buying additional connections and non-copper pipe the vessels can be separated into alternative locations to get around obstacles or fit in awkward spaces, remember that ease of access for servicing will be required so fitting the unit in a corner kitchen void might make access awkward for cartridge changing.

TO HELP WITH CUSTOM INSTALLS THE FOLLOWING INFORMATION WILL HELP

The individual canister dimensions.

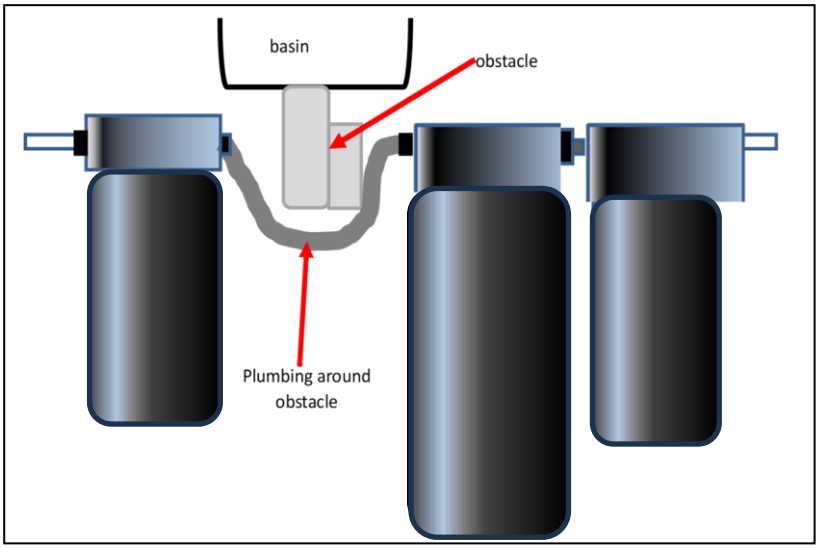
- The suspended vessel(s) on a **Purest Water** - DIMENSIONS: H 327/ W 129/ D 150 (mm)
- The central canister on a **Purest Water** - DIMENSIONS H 483/ W 183/ D 173 (mm)

Allow 100mm for the mounting bracket although this can be inverted so just 30mm can be allowed for access to red button on vessel top.

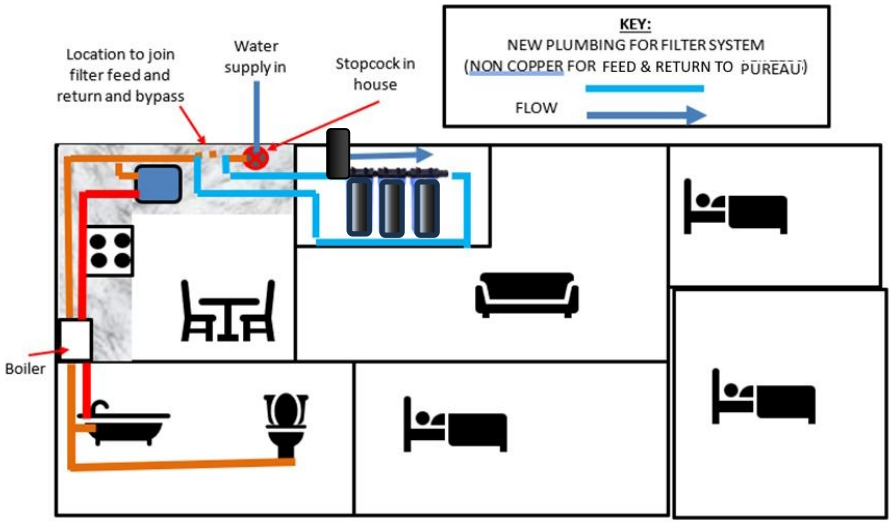
Allow 60mm clear space below suspended vessels for sump removal during servicing.

Allow up to 150-200 mm for plumbing connections to vessel each side in straight configuration however width can be very effectively reduced in custom installs using tight 90° connectors available from the Philmac range of plastic threaded connections. Additional connections can be purchased on our website.

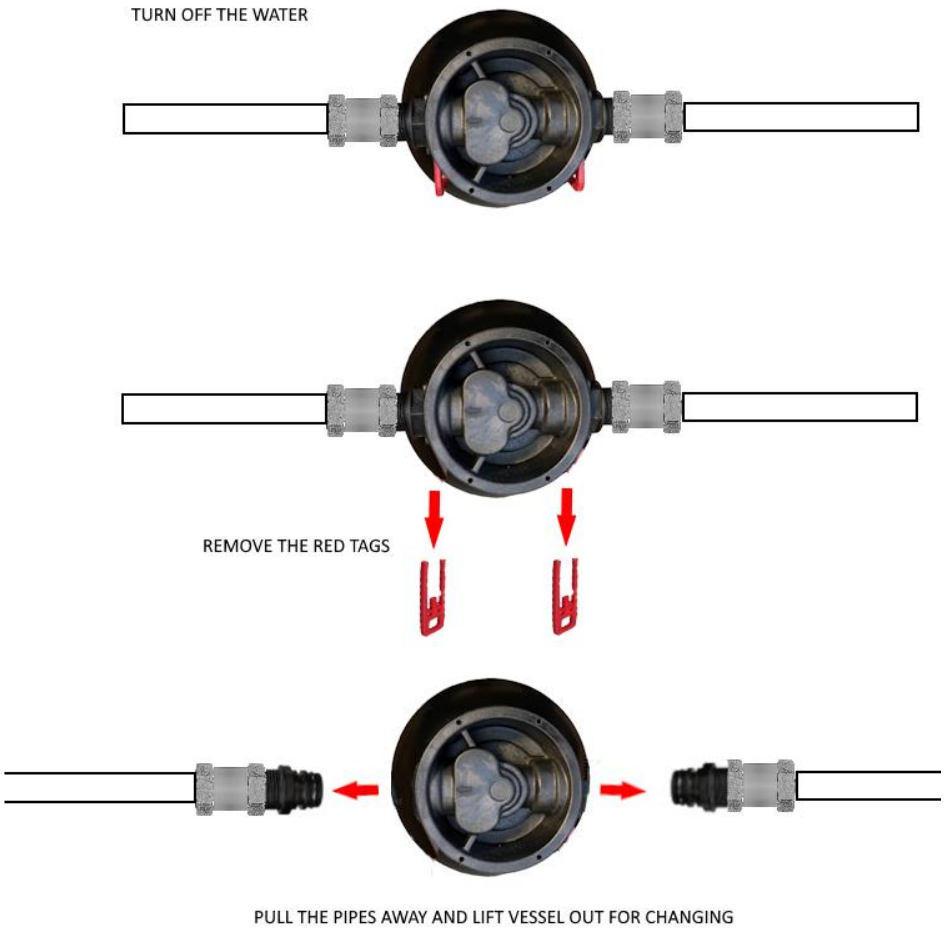
Fitting around an obstacle



Remote locating a system from plumbing

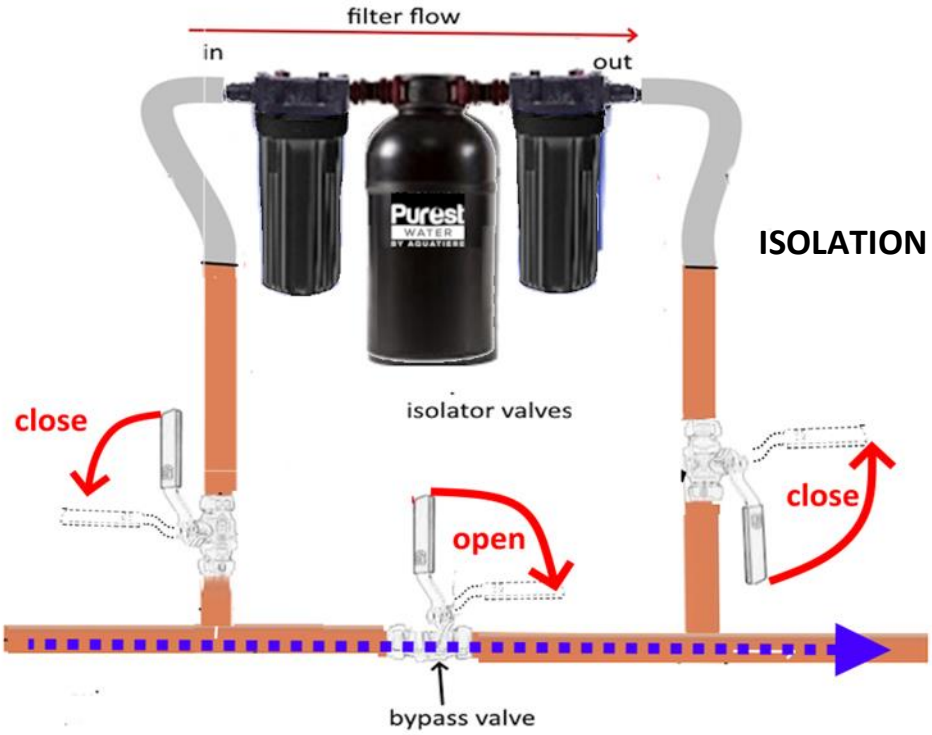


Main Vessel Replacing



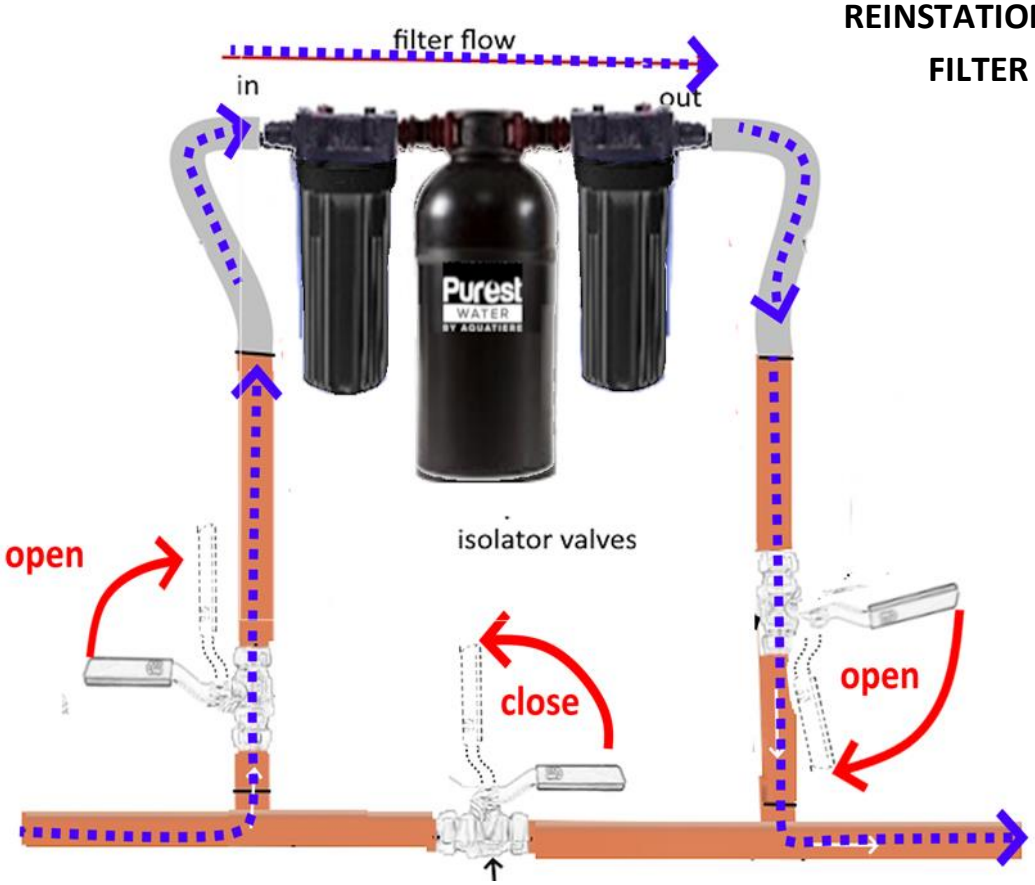
Refitting is the reverse procedure, to ease pipes in to the head lubricate the rubber seals on the connectors with silicone grease and ensure the connection fits fully home into the vessel then you can lock them in with the red tags.

Cartridge Changing (Side Filters) with bypass



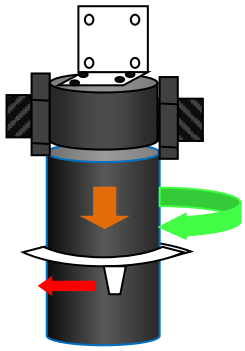
ISOLATION OF FILTER

REINSTATION OF FILTER



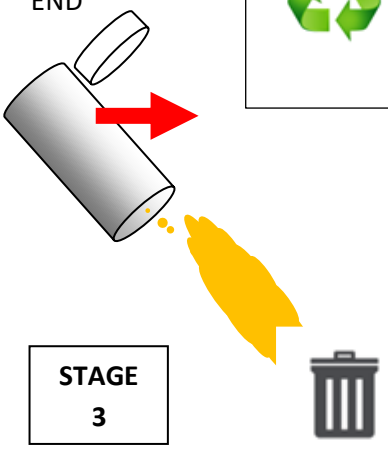
Important: If a byepass has not been fitted, turn off the incoming mains stopcock fully, then turn on the nearest cold water tap (often on the kitchen sink). Go upstairs to a second or third floor and turn on a cold water tap in a bathroom or toilet. Return to the tap nearest the filter to check water has stopped flowing. In some cases there will be some water discharge when opening but it will not be pressurised so have a bowl ready to catch any spills.

OPENING FILTER AND REMOVING CARTRIDGE ALL FILTERS



STAGE 1

STAGE 2



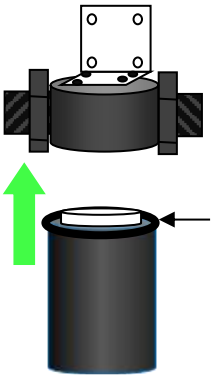
STAGE 3

STAGE 4

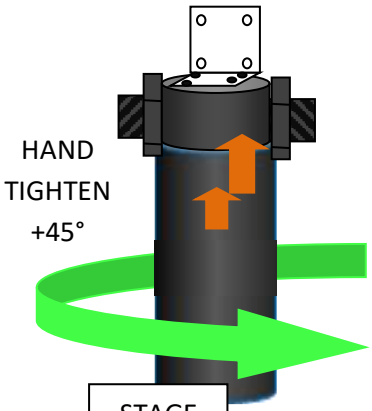
INSERTING CARTRIDGE AND CLOSING FILTER

Silicone grease the O-ring seal

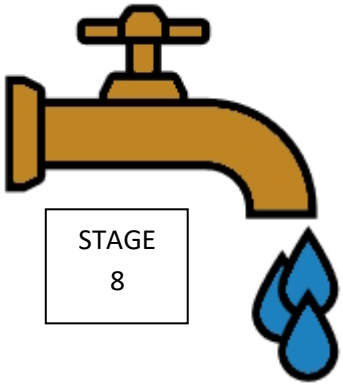
STAGE 5



STAGE 6



STAGE 7



STAGE 8

CARTRIDGE CHANGE

1. Turn off water supply. Press red pressure relief button (if present) to release residual pressure in the vessel.
2. Unscrew housing sump from the head of the filter. Remove sump O-ring, wipe clean and set aside. ***Hint: - If the vessel is difficult to release the sump seal, heating the area where the thread locates the sump to the headstock with a hairdryer will in most cases make the seal easier to release. Other tips are provided in the links below***.
3. Discard used filter cartridge; if you wish to recycle it, the plastic cartridge housing must have the media inside removed. *(The Ceramet media ceramic balls can be reused as plant pot drainage for house plants*. *All other resins and carbon can safely go to landfill*).
4. Wash blue outer housing with washing up liquid and warm water using a non-abrasive sponge or cloth. Rinse thoroughly. Fill 1/3 with water. Add 1 tablespoon of bleach and scrub to disinfect. Rinse thoroughly.
5. Lubricate the O-ring on the top of the blue sump liberally with clean silicone grease. ***(do not use petroleum jelly as it can damage the o ring and taint the water when installed)***. Insert O-ring into the groove where the O-ring locates on the sump
   Note: *this step is important to ensure a proper housing seal. Make certain the O-ring is seated level in the groove, and no foreign bodies are fowling its seating.* Insert new filter cartridge. Cartridges with tapered ends need to be specifically installed with the tapered end towards the thread of the housing. ***Note: - High flow carbon block cartridges are sealed at one end which must be placed downward in the vessel sump***
6. Screw housing sump onto the cap and hand tighten. Nip a quarter turn with the service tool. ***Do not over-tighten.*** Make sure the cap standpipe slips into cartridge.
7. Turn on water supply. Check for leaks before leaving installation.

NOTE: - *A carbon cartridge may contain carbon fines (very fine black powder). After installation, flush cartridge for 5 minutes before using the water. It is recommended that you run the tap at least 20 seconds prior to using for water for drinking or cooking purposes.*

WARNING: - *Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system*

CAUTION: - *Protect against freezing to prevent cracking of the filter and water leakage.*

IMPORTANT

- Make certain that installation complies with all local laws and regulations.
- This replacement cartridge has a limited service life. Changes in the taste, odour, colour, and flow of the water being filtered indicate that the cartridge should be replaced.
- The contaminants or other substances removed or reduced by the cartridge are not necessarily in your water.
- After prolonged periods of non-use such as during a vacation (Carbon filter only) it is recommended that the system be flushed thoroughly. Let water run for 5 – 6 minutes before using.
- To prevent costly repairs or possible water damage the plastic filter housings are recommended for replacement every 10 years. It is advisable to check over for stress fractures especially if the housing has been exposed to adverse environments or where it is known water pressure has been higher than recommended. If you find any signs of stress cracks replace the vessel.

INSTALLATION DATE

FITTED :……MODEL.....……

INSTALLATION YEAR		
Filter number 1 change date	**Filter number 2 change date**	**Filter number 3 change date**
N/A	N/A	
Notes:-		
YEAR 1		
Filter number 1 change date	**Filter number 2 change date**	**Filter number 3 change date**
	N/A	
Notes:-		
YEAR 2		
Filter number 1 change date	**Filter number 2 change date**	**Filter number 3 change date**
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YEAR 3		
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YEAR 4		
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YEAR 5		
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YEAR 6		
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YEAR 7		
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YEAR 8		
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YEAR 9		
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Notes:-		
YEAR 10		
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Notes:-		

PLEASE LEAVE THIS DOCUMENT WITH THE CUSTOMER FOR FUTURE REFERENCE

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