

INSTALL GUIDE

for Poseidon i10 / HC



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This symbol means that according to United Kingdom and European Union member countries laws and regulations your product and/or its battery shall be disposed of separately from household waste.

When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/ or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.



1: PREPARING FOR INSTALLATION

- Always observe the water byelaws.
- Ensure there is only one rising main.
- Make sure you have allowed space for access to the unit for salt filling and for any possible maintenance in the future.
- Check the water pressure and locate the rising main, a drain facility and a power supply. Be aware of condensation occurring in warm environments.

2: SITING THE SOFTENER

- Where possible, the water softener should be close to the rising main.
- If applicable (see 4.), tee off mains hard water supply to kitchen tap (if above 400ppm of hardness).
- Wash's EaSi-Fit bypass includes 3/8" speedfit connections for a dedicated hard water supply i.e drinking water faucet. Faucet and tubing only, or faucet, tubing and filter can be purchased from Wash Water. Codes: Faucet & 5m tubing – WW38HN-MB or WW38HN-BN. Filter, faucet & tubing – CS-C30MB or CS-C30BN.
- Ensure the distance between the drain and the softener is as short as possible; this ensures that both the drain and overflow are not subject to freezing or temperatures over 49°C.
- If situating the softener in a kitchen cupboard, loft etc, make sure the softener is adequately supported. (Units can weigh 50kg+ once full of salt and water).
- For units situated in your loft, it is strongly recommended to have this in a 25-gallon plastic tank and insulate well. Wash does not take any

responsibility for any water damage if this recommendation is not followed.

- There should be an overflow running to outside installed on the tank below the height of the softener overflow and be a minimum 3/4" in size. Failure to install the softener in a suitable tank in your loft will void your warranty.
- Ensure outside tap remains on hard water where possible.

3: CHECK VALVE

Residential water softeners are in fluid category 2. Wash's EaSi-Fit Bypass includes a high flow check valve in accordance with this requirement. All other applications require a double check valve.

4: DRINKING WATER FACILITY

The Regulations require that 'All premises supplied with water for domestic purposes shall have at least one tap conveniently situated for the drawing of drinking water'. Drinking water must comply with the Water Supply (Water Quality) Regulations 2000, which stipulate a maximum limit of 200 mg/l (milligrams per litre) for sodium. The Department of Health recommends that this sodium limit should not be exceeded for infant feed preparation and for those individuals on a medically supervised low sodium diet. The provision of an unsoftened drinking water tap/faucet is essential where the hardness of the public supply and its sodium content as supplied would result in the softened water exceeding 200 mg/l sodium limit. For ion exchange softened water, this limit will be exceeded where the water is extremely hard, i.e. typically above 400 milligrams per litre as CaCO₃.

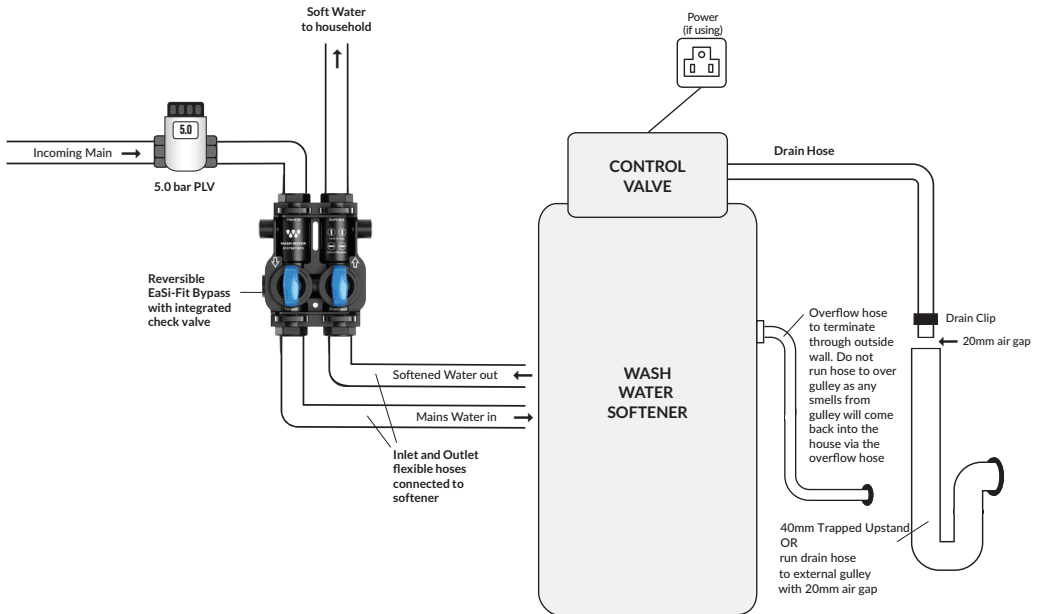
5: SOFTENER MATERIAL CHECK LIST

- ✓ Poseidon i10/HC come with Wash's EaSi-Fit Bypass plus Hi-Flow Hoses and full installation kit for 15mm and 22mm pipework. Suitable for all plumbing systems.
- ✓ For 28mm systems, a full upgrade kit is available - Codes: Poseidon - PSI1028UGLO.

6: WATER PRESSURE TEST

- A pressure test must be carried prior to installation.
- Low and high pressure can result in either damage to your softener, or the failure of your unit.
- Minimum dynamic pressure must exceed 1.5bar (20psi).
- If daytime static water pressure exceeds 3.5bar (50psi) a 5bar (70psi) pressure limiter must be installed. Failure to do so will invalidate your warranty. 3.5bar daytime pressure can easily reach 7bar (100psi) at night!
- If you have any questions, please call us on: +44 (0) 1379 873 070.

7: WATER SOFTENER INSTALLATION DIAGRAM - Fig 1



8: CHECK LIST

- Access to incoming water supply.
- 3 pin socket if transformer is being used with Poseidon i10.
- Drain connection available.
- Access to unit for salt refilling and any possible future maintenance.
- Water pressure test – 1.5 – 5 bar (20-70psi).
- Installation preferably on an outside wall for the overflow.

9: EASI FIT BYPASS AND INLET/OUTLET INSTALLATION

Inlet and outlet connections are embossed on to the EaSi-Fit Bypass.

Supply In – Hard water supply from mains.

Supply Out – Soft Water supply to your property.

To Unit – Connection to the inlet of the softener.

From Unit – Soft water connection from softener outlet to EaSi-Fit Bypass.

- The EaSi-Fit Bypass comes complete with speedfit connections for both 15mm and 22mm copper pipework. Simply attach the required size speedfit connections to the SUPPLY IN and SUPPLY OUT threads on the EaSi-Fit bypass, tighten to seal.
- Grease the copper pipe, attach the EaSi-Fit bypass to the copper pipe by firmly pressing the pipes into the speedfit connections. **IMPORTANT.** Use pipe cutters (not hacksaw) when cutting copper to length to connect to speedfit connections as pipe cutters automatically create a chamfer on the end of the copper.
- **Poseidon i10/HC** - (Hoses will be attached already) Connect the hose from the softener inlet connection to the 'TO UNIT' connection on the bypass and connect the hose from the outlet connection from the softener to the 'FROM UNIT' connection on the bypass, tighten to seal. Standard hoses come with washers pre-inserted.

IMPORTANT

It may be easier to remove the TO UNIT and FROM UNIT bypass connections first. Remove the clips from the bypass and pull the connectors out. Once the hoses are connected, re-insert the connectors, ensure the clips are reinserted.

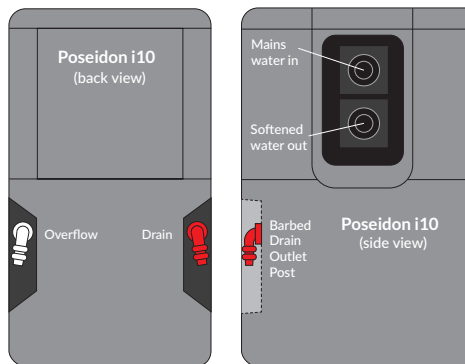
The connections on the EaSi-Fit Bypass and softener are designed to rotate to prevent excess stress on the connections.

10: CONNECTING YOUR DRAIN HOSE

- 3 metres of white low pressure drain hose is supplied with the unit. This is for both the drain and overflow connections.

Drain Connection Looking at the front of the unit the drain connection is the white barb at the rear left hand corner of the softener. Highlighted in red on the diagram below.

Fig 2



- Attach the drain hose to the drain barb using the jubilee clip (supplied).
- The drain hose needs to be ran to either a 40mm upstand or an outside drain, ensure a minimum air gap of 20mm exists at the end of the drain line.
- You can extend the drain hose by connecting to a 15mm piece of copper pipe. The pipe can run for a maximum of 4mtrs (minimum daytime pressure of 2.5bar (40psi) is required). Anything over 4mtrs, please use 22mm (or similar) copper pipe.
- Ensure the drain hose is securely fixed to the copper tube.

- Make sure the drain hose is not dipped or kinked in any way. This could lead to your machine overflowing and the voiding of your warranty.
- **NEED TO RUN UPHILL?** If you have a minimum daytime pressure of 2.5bar (40psi), your drain hose can run uphill internally for a maximum of 3 feet.
- Softener water is fine to use with a septic tank.
- At no point, should the drain and overflow hose share the same pipe. This could lead to foul smells entering the brine tank from the main drain via the overflow. Also, if drains ever get blocked, during regeneration the water may re-enter the brine tank through the overflow hose.

11: CONNECTING YOUR OVERFLOW HOSE - IMPORTANT

- The overflow hose should be cut from the low-pressure white hose supplied with the unit. It is to be used for both the overflow and drain hose applications.
- Looking at the front of the unit the overflow connection is the white barb at the rear right-hand corner of the softener..
- Slide the drain hose on to the barb, ensuring it is fully pushed on. No need for a jubilee clip here.
- The overflow hose **must** run downhill and terminate immediately through an outside wall without any restrictions or kinks.
- The use of 22mm (or similar) copper pipe can act as a protective sleeve when putting the hose through a wall. This will also prevent any kinking.

12: CHECKING YOUR SYSTEM FOR LEAKS

- Put the EaSi-Fit Bypass into Bypass (see Fig. B). Open the mains stopcock slowly to flush the pipework. This can be done by opening a tap on the soft water side if your system. Shut tap off and check for leaks.
- Once no leaks have been confirmed, turn the bypass to Service. Water will now flow to the softener. Check the unit for leaks now and once the unit is pressurised.

13: POSEIDON POWER CONNECTION

Poseidon models are powered by either a plug in transformer or single 9V long life battery. Both are supplied with the unit.

If using the transformer, we advise installing the battery as well. This will ensure the softener continues to operate in the event of a power cut.

To install the transformer:

- With the plug turned off, connect the transformer to a 3 pin socket.
- Coming out the side of the cabinet is a fly lead. Firmly insert the jack plug from the transformer in to the fly lead.
- Turn the plug on.

To install the 9V battery:

- Remove the salt cover from the Poseidon by lifting it up.
- On the left hand side of the PCB is the battery compartment. Press this to unclip the compartment.
- Firmly connect the 9V battery to the battery cable located in the compartment.

14: GETTING YOUR WATER HARDNESS LEVEL

- Your softener comes with a water hardness test kit which these instructions refer to.
- Run a hard water tap for 1 minute (if a hard water tap isn't available, put the EaSi-Fit bypass on to bypass).
- Fill the test tube up to the 10ml level (indicated on the side).
- Add 2 drops of the titrant solution and mix gently. If the water sample contains hardness it will turn red.
- Add the solution in batches of 5 drops by holding the bottle at a 45 degree angle.
- Mix gently after each 5 drops.
- Count the drops needed until the colour of the sample in the test tube changed from a dark red to a dark blue/green.

Up to 30 Drops	Advance Electronic Display to 300 (recommended min setting)
31 - 35 Drops	Advance Electronic Display to 350
36 - 40 Drops	Advance Electronic Display to 400
41 - 45 Drops	Advance Electronic Display to 450
46 - 50 Drops	Advance Electronic Display to 500



15: SETTING YOUR WATER HARDNESS

- Ensure the unit is switched on. If using the battery press any button. If using the transformer, check this is switched on at the wall.
- The display will rotate between 'Time' and 'Hardness'. When the display shows hardness, press the 'UP' arrow.
- Apply your drops total from table (above left) and set the number required i.e. 31-35 drops set display to 350.
- Press 'SET/REGEN' to save this setting.



16: SETTING THE TIME OF DAY

- When the display screen shows the time, press the 'UP' arrow.
- Set the hours by pressing the 'UP' and 'DOWN' arrows (this is a 24hour clock). Once the hours are correct, press 'SET/REGEN'.
- Set the minutes by pressing the up and down arrows. Once the minutes are correct, press 'SET/REGEN'.



17: REGENERATION

- Your unit is programmed to automatically calculate when it needs to do a regeneration when your water hardness level is entered.
- During a regeneration you will still be provided with soft water as only one vessel regenerates at a time.
- Regenerations can happen at any point, if you see your softener doing a regeneration at 7am or 7pm, this is fine and means your water softener is working.
- Regenerations on your Poseidon softener are fast and only last around 21 minutes.
- Your Poseidon unit is now programmed.

18: PUTTING YOUR SOFTENER INTO BYPASS

Current Bypass



Fig C. Unit in use

Fig B. Unit in Bypass mode

19: ADDITIONAL REGENERATIONS

- If your unit is asleep, press any button to turn it on.

Press the 'SET/REGEN' button and this will start a regeneration.

If you wish to cancel this, keep pressing the 'SET/REGEN' button until the screen get back to the time and hardness.



Fig 4



Fig C. Unit set for green/blue scale mode

20: FLUSHING YOUR SOFTENER PRIOR TO USE

- Place the EaSi-Fit Bypass in to the 'In Use / Service' position.
- Check the system for leaks.
- Leave a soft mains tap to run for 5 minutes, this will purge any air and 'resin dust' from the softener (resin dust may appear orange in colour).

21: FILLING WITH SALT

- On all models, add water in to the salt compartment to 2cm above the platform on initial installation only.
- Poseidon softeners can be used with either Block or Tablet Salt. We recommend the brands UniBlocks or UniTabs.
- In all cases the softener should be kept full of salt at all time.
- The Poseidon softeners are wet salt softeners, this means there will always be some water in the cabinet. If you ever see excess water in the cabinet going down the drain, call us on 01379 873070

22: WATER SOFTENER BLEND (BLUE/GREEN STAINS) – Fig 4

- All of our water softeners are set to produce 100% soft water. It is recommended for Combi / Condensing boilers and areas of hard water which have a green/blue build up of scale to have slightly blended water.
- On the EaSi-Fit bypass slightly rotate both blue handles on the EaSi Fit bypass until the water hardness test on a soft water outlet takes 6/7 drops to turn from dark red to dark green/blue (See Fig. C).

23: GOING ON HOLIDAY?

- Your Poseidon water softener has a built in holiday mode.
- If you are going away there is nothing you need to do. If less than 3ltrs of water is used a day for 7 straight days the softener will perform a rinse cycle.
- This will ensure the resin is kept fresh and ready upon your return.
- **Alternatively**, you can bypass your water softener and switch it off.
- To bypass your unit see Point 18 How to Bypass your softener Fig. B.
- We also recommend unplugging the transformer (if used) and disconnecting the battery.
- Upon your return, reverse the steps above and flush your softener for 10 minutes by opening a soft water tap.

24: SOFTENER SYMBOLS

- Low Battery Indicator - There is a light on the front screen which will come on when the battery is low. Also, an alarm will sound between 06:00 - 08:00 and 18:00-20:00. To cancel replace the battery or press any key twice.



Softener is being powered by the battery and also shows battery level



Softener is being powered by the transformer



Metering symbol, when spinning your softener is in use and producing soft water

▶▶▶1# Which vessel is due to regenerate next 1# or 2#

WASH WATER RESIDENTIAL WATER SOFTENER GUARANTEE – EFFECTIVE APRIL 2026

This water softener is covered by a 7 year parts and 2 year labour 'at home' guarantee for installations within the hard water regions of mainland England and Wales. Installations outside this area are covered by a 7 years parts only 'exchange' guarantee*.

PLEASE NOTE – The warranty has the following conditions, and is not covered by the following:

- Damaged caused by high water pressure. A 5 bar water pressure limiting valve is required on the inlet where daytime static water pressure exceeds 3.5bar (50psi).
 - The water softener is suitable for mains water supplies only.
 - The majority of debris in water is caused by the local authority work on the water main. If notified in advance by your local water authority, put your softener on to bypass. (See Fig. B).
 - Resin exchange is not covered under warranty, if caused by degradation, blinding and/or chlorine attack.
 - Callouts due to incorrect installation. If you have any questions when installing your softener, please call us on 01379 873070.
 - Wash recommend the brand UniTabs or UniBlocks for their softeners. In all cases use only PDV TABLET SALT which is produced to BS EN 973 Grade A Standards.
 - The use of any other hoses than those supplied with the unit. Under no circumstances should washing machine hoses be used. Longer hoses can be purchased from Wash Water – Tel: 01379 873070.
 - Under no circumstance should the softener be hard plumbed with copper pipe.
 - The installation kit (Including EaSi-Fit Bypass) is covered by a 12 months parts 'exchange' warranty only.
 - Repairs necessary due to incorrect installation, misuse or damage are not covered by the warranty. Any appointments missed, or not cancelled with at least 24 hours' notice; Wash Water reserves the right to make a charge to cover their costs and will be charged at our standard rates.
 - Any callouts within the warranty period that are due to external influences affecting the operation of the softener will incur a charge.
 - Poseidon battery is not covered under warranty. Nor is any damage which is the result of the battery going flat. Please ensure you replace your battery often.
- The above does not affect your statutory rights.



* All parts to be sent back to Wash Water at the expense of the sending party, with the approval from Wash Water before return. All repaired or replaced items will be returned to the sender on a no charge basis whilst covered under the parts exchange warranty. For parts outside of the warranty, Wash Water reserves the right to charge for any postage/delivery, labour and parts costs deemed necessary. Wash Water will endeavour to keep these costs to a minimum.

HINTS AND TIPS ABOUT YOUR NEW WASH WATER SOFTENER

- 1 Battery** The biggest user of the battery power is buttons being pushed to check settings/time etc. Therefore to optimise battery life, please only check the display when absolutely required.
- 2 Electricity supply** Make sure the electricity supply is not turned off.
- 3 For appliances used during 'Economy 7' time,** these can be used as normal due to the twin tank system of the Poseidon softeners.
- 4 To ensure your softener operates at the highest efficiency** it is recommended that you top up the unit weekly (easier to remember than doing it monthly) with Wash Water UniTabs salt. If Wash Water salt is not available, ensure you use PDV salt that meets BS EN 973 Grade A standards. Wash Water does not recommend the use of solar evaporated salt.
- 5 Regenerations** can happen at any point, this is completely normal.
- 6 Never let the salt** go down more than half way.
- 7 In the event of a power cut,** check the time and hardness settings are correct (Refer to No's 15 and 16 to reset if necessary).
- 8 Bath and shower surfaces** will become smoother – be careful, in particular the young and infirm. Why not buy a bath mat?
- 9 Cut your washing powder usage down** by at least 1/3rd, or you'll go in to your kitchen/utility room full of suds.
- 10 Soft water will become available** throughout your system in varying time spans. Conventional systems (tanks in roof) will take anything from 4-10 days, while mains fed pressurised systems with give soft water within 2-3 days.
- 11 Dishwashers** On most installations dishwashers will be connected to the soft water. We recommend that you continue to add dishwasher salt to the appliance as before, as this helps the salt holder in the appliance stay clean. We do not however, recommend that crystal glass, solid silver and silver plated items are washed in your dishwasher as etching may occur. Less dishwasher liquid may be required and in certain cases this will also apply to rinse aid. On dishwashers connected to hard water, you should continue to put salt into the dishwasher's own softener. If in any doubt if your machine should have either soft or hard water, please contact your dishwasher manufacturer, but remember they want to sell you spare parts damaged by hard water.
- 12 Steam Irons** we do not recommend the use of soft water in your steam iron as most are designed for hard water and to be de-scaled periodically. Alternatively you could use di-ionised water.

13 Outside Tap It is recommended to leave your outside tap on mains hard water. Additionally, in the wintertime we recommend that this tap is isolated via an internal valve to prevent freezing.

14 Existing Scale Soft water will immediately begin to de-scale your pipes and appliances. Your hot water cylinder will take longer to de-scale than your pipework. Therefore, you may notice different levels of soft water for some time while the system is de-scaling. This is particularly noticeable in the bath and shower. In a severely scaled system it can take approx 18 months to fully de-scale which has had no previous soft water protection.

15 Every boiler has two sides to its operation. The radiators are classified as the 'primary system' and the hot water through the taps etc is called the 'secondary system'. All the benefits of soft water are enjoyed in the secondary side of the system i.e. cold and hot water in your shower, baths, toilets, appliances, your hot water cylinder etc. The majority of boilers primary side are designed to be used with hard water. Therefore, in compliance with the BS7593, the HHIC and boiler manufacturer guidelines, place the softener onto bypass and fill the primary system (radiators) with hard water and the appropriate inhibitor. The inhibitor is designed to keep the radiators operating at maximum efficiency and prevent corrosion caused by the oxygen within the filling water. Once the radiators are filled with hard water, place your softener back into service. This will return the remainder of the system (secondary) to soft water throughout.

16 Accumulators please ensure that the softener is installed on the outlet of an accumulator.

17 Lastly... soft water is a life style change. It makes your skin softer, your clothes softer, reduces usage of cleaning products, shampoo etc, prolongs the life of your appliances and helps save you money. So enjoy it.



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