



# **EcoSoft Water Softener Installation & Maintenance Guide**



## **Congratulations on purchasing your EcoSoft Water Softener.**

The following guide is intended to provide you with general installation and maintenance information. We recommend you read it thoroughly before attempting to install your softener.

### **Planning Our Softener Installation**

Please observe any local or national regulations concerning the installation of your water softener.

Check that there is only one rising main and that sufficient space has been allowed for access to the unit for installation, possible future maintenance and salt addition.

After locating the rising main, check the water pressure (minimum of 20 psi required, maximum of 120 psi) - locate a drain and a 230V power supply.

Installation of this water softener will require plumbing work and may require an electrical outlet to be fitted near the softener, unless an existing softener is being replaced.

This should be installed by an experienced "DIYer" or competent plumber either or both should have the necessary skills.

### **Positioning Of Our Softener**

Our softener should be positioned as close to the rising main as possible. Allow "hard water" take off points for drinking water (if required) &/or an outside tap.

Ensure the distance between the drain and our softener should be as short as possible.

It is essential that both the drain-line and overflow will not freeze or reach a temperature above 40°C.



Placing our softeners within a cupboard is usual but please ensure that the base is adequately supported. It is not recommended to fit our softener in a loft - but if it is it should be installed within a "bund" for protection for "overflow".

## Use a Check List

Before you start the installation make sure ensure that all the necessary fittings are available.

Normally one of our standard installation kits will ensure that everything is to hand for a typical installation.

## Water Pressure

High or low water pressure can result in either damage to, or failure of our softener.

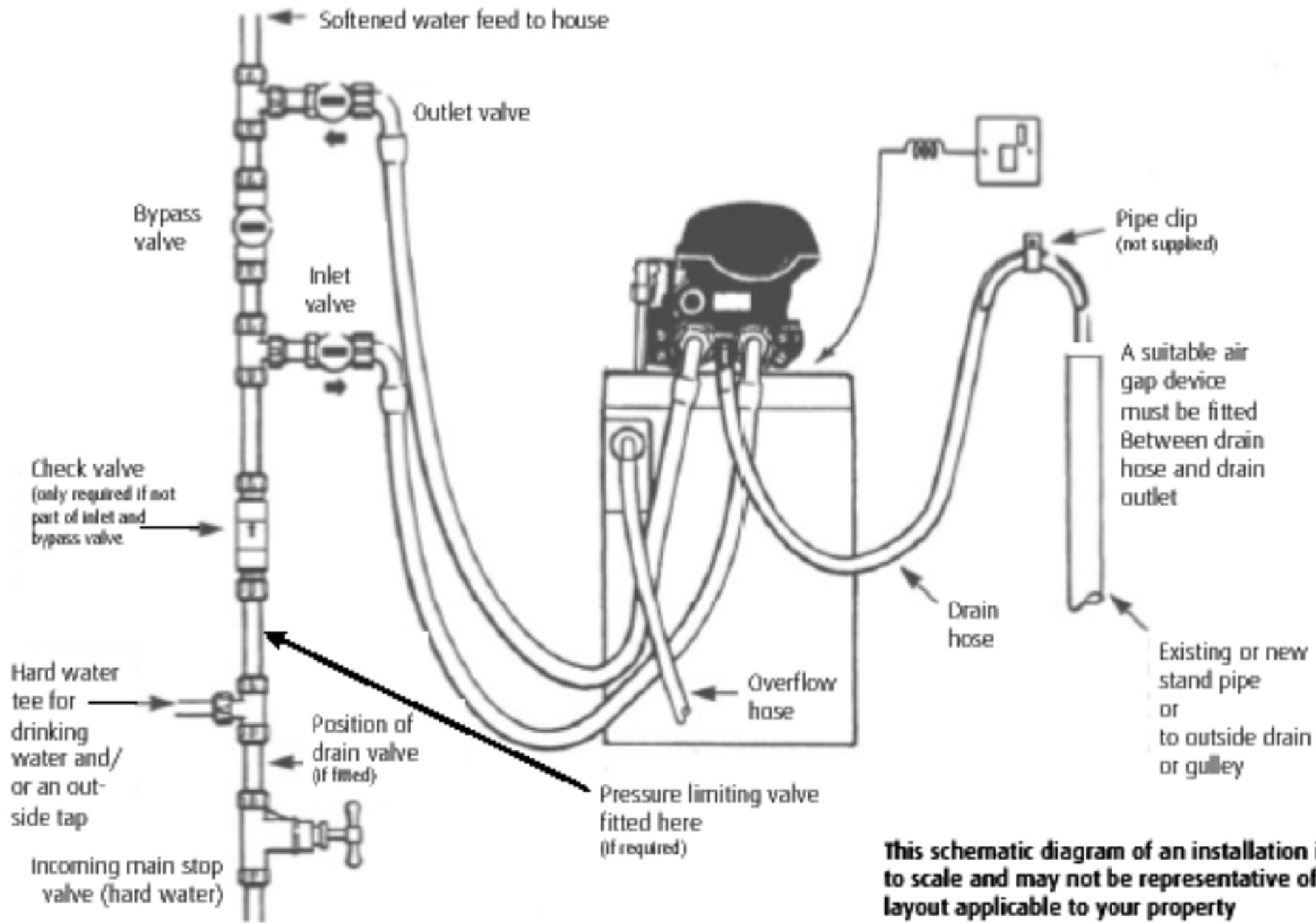
Our softeners are tested to a pressure of 8 bar (120psi), they have a minimum working of pressure of 1.4 bar (20 psi).

We do advise, as a precaution that a pressure reducing valve should be fitted to 6 bar (your 85 psi).



## Prior to Installation

Ensure mains water stop cock is closed - off position.



## Plumbing of your Softener

Complete the plumbing as per the above schematic – Use our fitting kits when ordered.

Please ensure that you select the correct kit for your requirements. Things to consider

### 1) Vented or Unvented Hot Water System?

Do you have a hot water tank system or a combi boiler? Unvented cylinders work directly from the mains water supply and are essentially a hot water storage cylinder, whereas vented cylinders are connected, via a vent pipe, to the cold water storage tank which is usually located within the loft space of most properties.

### 2) Mains pipe size - 15mm, 22mm or more?

### 3) Length of hose required? 0.75 m, 1m or 1.25m.

Finding the right kit for your home water softener:

- Standard 15mm Water Softener Installation Fitting Kit - use this kit where the plumbing system is standard 15mm main with cold water storage tanks in the loft.
- Hi-Flo 15mm Water Softener Installation Fitting Kit - use this kit where the plumbing system is standard 15mm main and where the plumbing system utilises a combi boiler.
- Hi-Flo 22mm Water Softener Installation Fitting Kit - use this kit where the plumbing system is 22mm main with an unvented (megaflow type) hot water system,
- Hi-Flo 28mm Water Softener Installation Fitting Kit - use this kit where the plumbing system is 28mm main with unvented (megaflow type) hot water system and softener has 1" connections.

Hose length options are available for each kit.

With the softener inlet and outlet valves closed - open the Bypass valve - now open the stop cock.

### **Installation of Waste/Drain**

The flexible drain/waste tubing provided should be connected to the drain/waste outlet and the tubing should be run to either an “up-stand” or “outside” drain – there should be a 20mm “air gap” to prevent backflow at the exit of the drain/waste tube.

The drain/waste tube should be as short as possible and should run upwards to a maximum of 1 meter. If an extended run of more than 6 meters is required, then it should be connected to a larger diameter pipe.

### **Connection of Overflow**

The overflow connection is “to the left handside” of the main body of our softener – run this downwards to an external drain.

Before the overflow can be connected the brine well need to be fitted to the side of the softener cabinet.

Step 1: Remove the float assembly from the brine well (the tubular object). Locate the hole in the brine well and position it against the side of the cabinet to match up with the hole for the overflow.

Step 2: Using the nut and washer provided, fix the brine well in position as below:



Step 3: Reinsert the brine float assembly. Attach the elbow fitting to the tubing and replacing the lid of the brine well.



### Connection of Electric Power

The transformer should be connected to an electrical power supply (continuous) using the transformer and plug supplied and fitted.

How to connect the power cable:

Step 1: Take the front panel of the valve off using the clips on the back side as shown below:

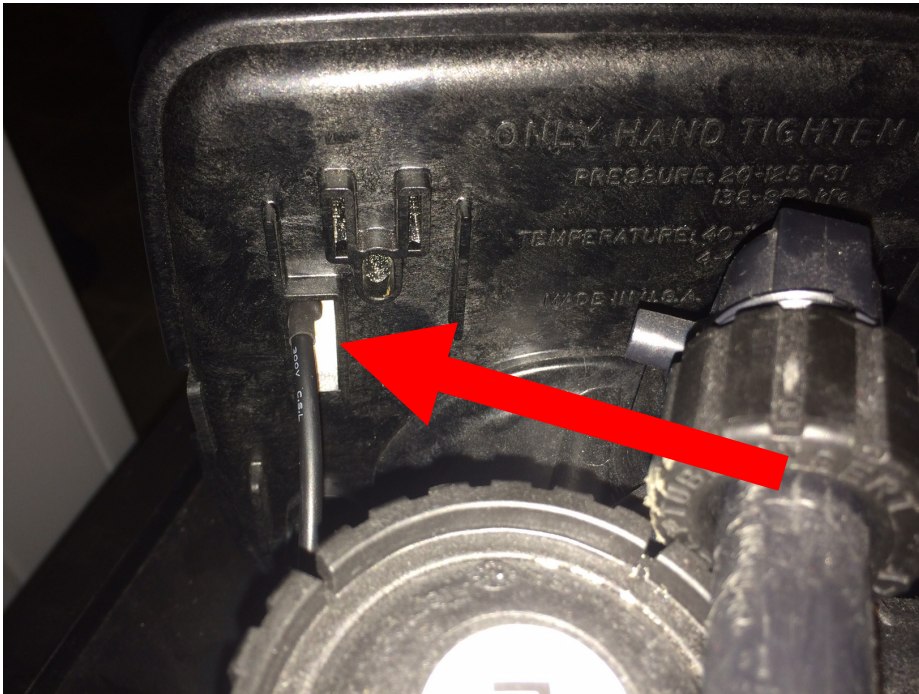


Step 2: Unclip the circuit board panel by lifting the two plastic clips which will unclip the board and allow it to come off

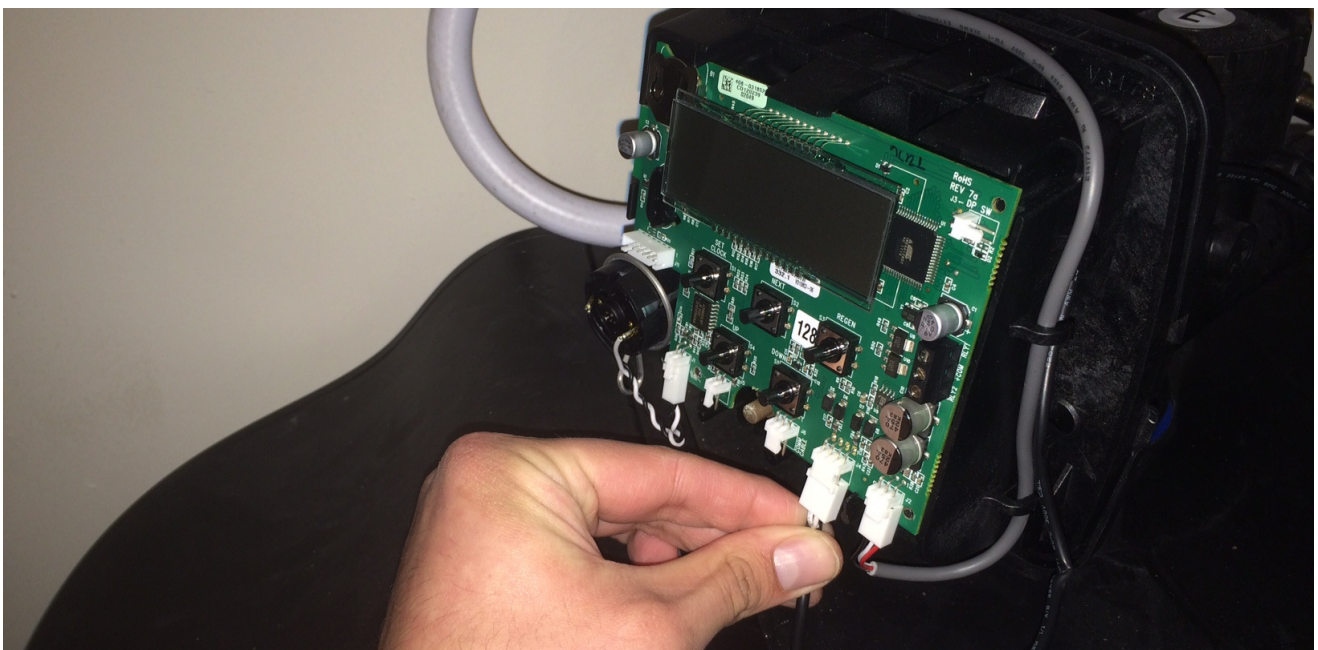




Step 3: Insert the power cable through the back panel on the left hand side slot as shown below



Step 4: Feed in enough of the power cable to reach the connector onto the circuit board and connect the white end to the circuit board. Then re-clip the front panel of the circuit board back in original position. The cable can then be neatly clipped into the valve assembly. Once this is complete simply clip the front panel back on.



Our softener is pre-programmed so all you need to do is set the clock; see programming instructions for setting the clock below.

### **Commissioning Our Softener**

Add some salt into the “brine” tank, do not allow the salt level to exceed the overflow level (this is usually around the middle height of the cabinet) then put/pour 5 -10 litres of water into the brine well and allow this to soak to create brine for 2-3 hours, then set the clock on our softener.

Press the “Regen” button, this will put our softener into an immediate Regeneration – this initial regeneration will purge air from the system and confirm that all cycled are being followed.

### **Setting the time**

Our range of EcoSoft Water Softener comes in 8, 10 or 20 litre cabinets. There are also two different types of Clack Valve – either a metered or a time clock version. Each has its own way of setting the time.

Difference between metered and time clock:

- 1) Metered Based Water Softeners – This type measures the amount of water consumption and only regenerates when necessary. This saves both salt and water that is used during the softener regeneration process. While costing slightly more than timer (clock) based softeners, metered units will lead to savings over time.
- 2) Time Clock Based Water Softeners - Time clock water softeners are different from metered water softeners, as they regenerate on a calendar basis when you set it to do so rather than automatically.

#### **How to set the time:**

##### **Time Clock Version –**

Press & hold “SET” then

Up or Down to set hours (24 hr) then “SET”

Up or Down to set minutes then “SET”

Back to clock

### **Metered version –**

Press & hold "SET TIME" then

Up or Down to set hours (24 hrs) then "SET TIME"

Up or Down to set minutes then "SET TIME"

Back to clock

### **Aftercare of Our Softener**

There is little or no aftercare – The most important is to ensure that salt is added and that the "Brine" tank is never completely empty.

### **Salt Usage per Regeneration**

Please see EcoSoft Product Range Details below.

### **Changing when the Softener regenerates**

The softener will be pre-programmed to regenerate at 2am. You can change this time to whatever time you prefer by following the following steps:

- Press "NEXT" & "UP" together/simultaneously for 3 seconds
- Display will show hardness in ppm
- Press "NEXT"
- Display will show hardness 2 – ignore
- Press "NEXT"
- Display will show Regen Day – this an override – ignore
- Press "NEXT"
- Display will show Regen time – hour will flash
- Press "UP" or "DOWN" to alter
- Press "NEXT"
- Display will show Regen time – minutes will flash
- Press "UP" or "DOWN" to alter
- Press "NEXT"
- Display will return to Normal Mode

### **IMPORTANT NOTE:**

**The reason that most softeners don't perform to their maximum is due to faulty pipework – i.e. restrictions in service flow, drain and brine lines – these should be fitted without these restrictions.**

### **Need Help?**

Call or email us:

Osmio Water Sales & Support Line: 0800 002 9533

Email: [info@osmiowater.co.uk](mailto:info@osmiowater.co.uk)

Web: [www.osmiowater.co.uk](http://www.osmiowater.co.uk)

## Ecosoft Product Range Details

### PRIMO 8 LITRE



Our smallest, most tried and tested high efficiency water softener perfect for kitchen cabinet installations. With excellent reliability, ease of use and energy efficient, the EcoSoft Primo is one of most popular softening systems. The EcoSoft Primo Water Softener is perfect for installation in the kitchen cupboards and an ideal water softening system for small to medium size homes.

#### Specification:

8 litre Cabinet Softener Unit  
 8 x 17 Mineral Tank NSF Certified  
 Mineral Tank  
 Clack 1" Time Clock or Metered  
 Softener Valve  
 8 litres Cation Softener Resin  
 BSP Adaptor Kit  
 Cabinet dimensions: Width 240mm,  
 Length 435mm, Height 612mm  
 (including valve), with brine well and  
 float assembly.  
 8 litre – service flow, 0.35 m<sup>3</sup>/hr –  
 capacity between regeneration @  
 300 ppm, 1.32 m<sup>3</sup> – salt usage,  
 1.2kgs

### PREMIER 10 LITRE



Our medium sized system with a larger capacity cabinet for greater salt holding capacity and ideal for installation under counter or utility rooms in medium sized households. This model uses the same system as the 8 litre except it has a 10 litre cabinet which means the cabinet can be topped up with a larger volume of salt for greater convenience.

#### Specification:

10 litre Cabinet Softener Unit  
 10 x 17 NSF Certified Mineral Tank  
 Clack 1" Time Clock or Metered  
 Softener Valve  
 10 litres Cation Softener Resin  
 BSP Adaptor Kit  
 Cabinet dimensions: Width 331mm,  
 Length 583mm, Height 630mm  
 (including valve), with brine well and  
 float assembly.  
 Service Flow, Capacity & Salt Usage:  
 10 litre – service flow, 0.4 m<sup>3</sup>/hr –  
 capacity between regenerations @  
 300 ppm, 1.65 m<sup>3</sup> – salt usage,  
 1.5kgs

### PREMIER-LUX 20 LITRE



The biggest cabinet size in our range. Perfect for installation in garages, lofts, utility rooms for larger households. This model uses the same system as the 8 and 10 litre except it has a 20 litre cabinet which means the cabinet can be topped up with a larger volume of salt for even greater convenience.

#### Specification:

20 litre Cabinet Softener Unit  
 10 x 24 NSF Certified Mineral Tank  
 Clack 1" Time Clock or Metered  
 Softener Valve  
 litres Cation Softener Resin  
 BSP Adaptor Kit  
 Cabinet dimensions: Width 331mm,  
 Length 583mm, Height 810mm  
 (including valve), with brine well and  
 float assembly.  
 Service Flow, Capacity & Salt Usage:  
 20 litre - service flow, 0.8 m<sup>3</sup>/hr –  
 capacity between regenerations @  
 300 ppm, 3.30 m<sup>3</sup> – salt usage,  
 3.0kgs

**Installed by:**

Name:	
Address:	
Telephone Number:	

Notes:
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