



Water Softener

Installation Manual



Introduction

Thank you for purchasing your eSoft Pro Water Softener. The Clack CI valve with which your water softener is fitted has been selected to provide the best efficiency & performance possible. **Only attempt this installation if you have been trained on the installation of water softeners.**

Packing List

Your water softener comprises of:

1. Assembled eSoft Water Softener
2. Transformer
3. $\frac{3}{4}$ " quick connect fittings
4. Overflow adaptor



Installation Instructions

Firstly, the area needs to be level, have access to electricity and an open drain. Your water softener has been designed to operate between 1.7 and 5 bar pressure. If your water pressure falls outside these parameters it may be necessary to fit a booster pump or a pressure reducing valve to prevent damage to the unit. The operating temperature range of the appliance is 3°C and 45°C. Follow the instructions supplied to connect the $\frac{3}{4}$ " quick connect fittings.

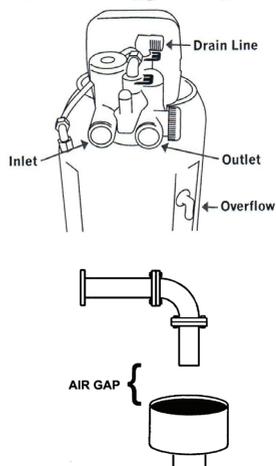
Please observe local regulations concerning the installation of your system. Check that you have allowed space for access to the unit for possible future maintenance. This installation may require plumbing work and will require an electrical outlet to be fitted near the system. If the system is installed externally, take necessary precautions to prevent frost damage.

Inlet: This is the water supply from the mains or other. Always install a suitable prefilter on well water supplies.

Outlet: This is the softened water leaving the softener to supply the rest of the house.

Drain: This is the water used during regeneration which is flushed to drain. This water will be at mains pressure and must be taken directly to a waste-pipe with an air gap.

Overflow: This is used in the event of an over-fill of water to the salt cabinet. This should always be taken directly to a waste-pipe with an air gap. Install the supplied overflow fitting by drilling a 20mm hole. Its recommended to install the overflow 2-3 inches below the salt lid of the cabinet.



Programming your water softener

To connect the power cable you need to firstly remove the cover, then remove the drive bracket assembly by pressing up on the drive brackets release tabs and pulling towards you. (Fig 1)
Feed the cable through the back plate (Fig 2) and connect to PC board (Fig 3). Its important that the bracket is reapplied with a loud snap to ensure the gears meet the drive gear.

1. Press "Set Clock" button, hours will flash.
2. Use up and down buttons to set hours.
3. Press "Next" button, set minutes and press "Next".
4. Press "Next" and "Up" buttons together and hold until screen changes.
5. Set hardness based on raw water hardness of water supply.
6. Press "Next". Leave next setting at 2 - 0.
7. Press "Next". Set the day override (preset at 4).
8. Press "Next". Set the regeneration time (preset at 2am).



Fig 1



Fig 2

Commissioning your water softener

1. With the softener now programmed, press & hold "Regen" until the motor begins to turn. When the motor stops, the screen will appear as in Fig 4. Now, open the inlet valve slowly to allow the softener fill with water. At this point water will discharge to the drain and purge any air from the system.
2. Manually fill the internal salt tank with 10 litres of water. When the air is purged from the system, press "REGEN" once to advance to the next cycle, the screen will appear as in Fig 5. The system is now drawing water from the internal tank and slowly discharging to the drain. Take the time to observe the water level dropping (which happens very slowly). This is vital as it ensures the system can regenerate and operate correctly. If the system will not draw water from the internal tank ensure the fittings are tight and re-do steps 1 & 2.
3. Press "REGEN" once, when the motor stops, the screen will appear as in Fig 6. Monitor this cycle for a moment to ensure water flows well to drain.
4. Press "REGEN" once, when the motor stops, the screen will appear as in Fig 7. At this point the system is refilling the internal salt tank. Take a moment to ensure the water level rises sufficiently.
5. Press "REGEN" once, when the motor stops it the system is in HOME position and ready to offer softened water.
6. Fill the unit with salt. Monitor the salt level on a regular basis & fill if required.



Fig 3



Fig 4



Fig 5



Fig 6



Fig 7

Controller Features

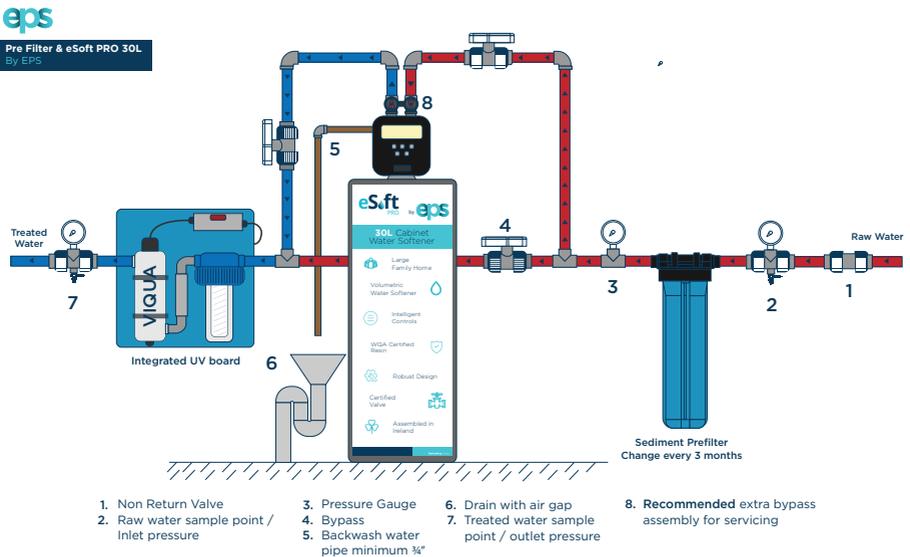
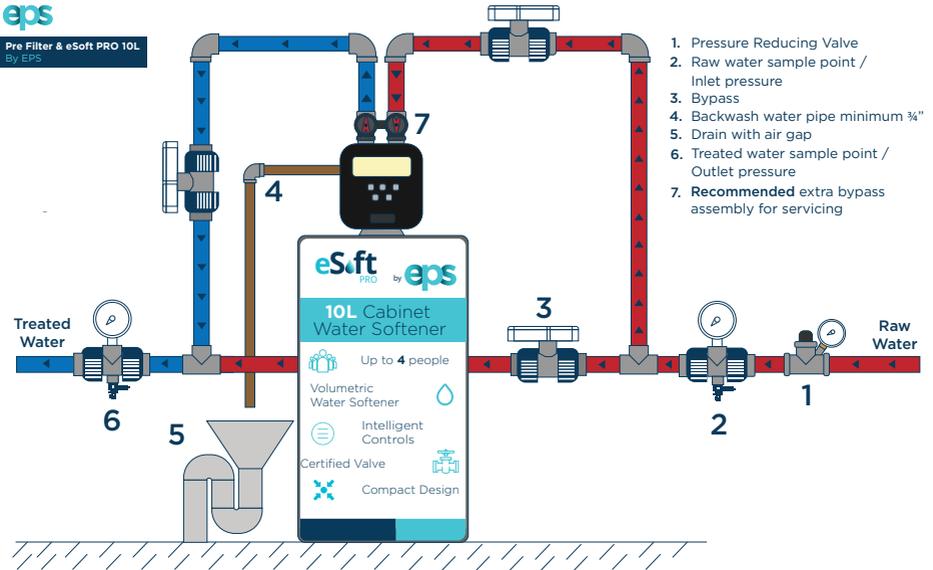
While in the service position, pressing the "Next" button will toggle between the time, current flow rate in litres and the capacity remaining. Press and hold "Regen" to force an immediate regeneration. When the valve is regenerating, it will show a countdown clock for each stage. Press "Regen" once to skip stages.

Warranty

This product is guaranteed for the period of one year from the date of purchase against mechanical and/ or electrical defects. This guarantee is only valid if the unit has been installed and used in accordance these instructions.

Schematic

This schematic outlines the best way to check the correct layout and installation of your eSoft water cabinet.



Specification

Softener Specification	8 x 13	8 x 17	8 x 24	10 x 35
Total Height	523mm	625mm	800mm	1095mm
Total Depth	440mm	440mm	440mm	580mm
Width	240mm	240mm	240mm	350mm
Maximum working pressure	5 bar	5 bar	5 bar	5 bar
Minimum working pressure	1.7 bar	1.7 bar	1.7 bar	1.7 bar
Service flow rate	10L/min	10L/min	15L/min	23L/min
Pressure drop at service flow	0.2 bar	0.2 bar	0.35 bar	0.55 bar
Resin Volume	5 litres	8 litres	20 litres	30 litres
Minimum supply flow rate	5L/min	8L/min	8L/min	8L/min
Salt use per regeneration	0.75 kgs	1.2 kgs	3.0 kgs	4.5 kgs
Inlet / Outlet / Drain connections	¾" BSPM	¾" BSPM	¾" BSPM	¾" BSPM
Overflow connections	¾" hose sigot	¾" hose sigot	¾" hose sigot	¾" hose sigot
Softening capacity @ 300ppm	830 litres	1330 litres	2500 litres	5000 litres

Note: It is not recommended to install any water softener in an attic.

Installer Information

Installed by: _____

Date: _____

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