

PLUMBSOFT WATER SOFTENER - PROGRAMMING & INSTALLATION INSTRUCTIONS

Effective December 2010.

Thank you for choosing a Plumbsoft Water Softener. Please read the following carefully, which if followed correctly, should ensure the installation is trouble free.

If you have any queries please call Monarch Water on 01986 784 759.

Model No: SOLO / SOLO ULTRA

PLANNING THE INSTALLATION

Always observe the water byelaws. Ensure there is only one rising main, that you have **allowed space for access to the unit for salt filling and for any possible maintenance** in the future. Check the water pressure; locate the rising main and a drain facility.

SITING THE SOFTENER – Fig 1

Where possible, this should be close to the rising main. Take care to allow hard water take off points for a drinking water facility and/also an outside tap. The distance between the softener and the drain should be as short as possible. Ensure that both the drain and the overflow are not subject to freezing or over 120 degrees F.

If the softener is being installed in your loft, 1st, 2nd floor etc, it is recommended to house the softener within a 25-gallon plastic tank and insulate well. The overflow on the plastic tank should be below the overflow of the softener and a minimum of ¾” in size. Failure to install the softener in a suitable tank will void the Guarantee

NON-RETURN VALVE

In single dwellings a single check valve should be fitted All other applications require a double check valve.

DRINKING WATER FACILITY – Fig 1.

In compliance with U.K. Water Regulations a tap for drinking water purposes should be left on the hard water supply.

MATERIAL CHECK LIST

The softener includes an installation kit suitable for the appropriate installation.

WATER PRESSURE TEST

It is **IMPORTANT** that a pressure check is carried out. Low and high pressure can result in either damage to, or failure of the softener. If **daytime static water pressure*** exceeds 3.5 bar (50psi) a pressure limiter should be fitted. Minimum dynamic pressure must exceed 1.4 bar. If in any doubt please call us on 01986 784 759.

*50psi daytime pressure can reach over 70psi nighttime pressure!

If in any doubt a pressure test gauge may be borrowed from Monarch Water

INSTALL BYPASS VALVES & NON-RETURN VALVE

Use the valves provided to form an installation as per Fig 1.

INLET, OUTLET & DRAIN CONNECTIONS – Fig 1

Using the hoses provided connect the braided hoses to the in/out connections on the softener – it is recommended to use the ‘elbow’ connections here. The Inlet and Outlet are clearly marked adjacent to the connections on the softener control valve. Under no circumstances use washing machine hoses or plumb in the softener in solid copper.

DRAIN CONNECTION – Fig 1

Connect the white drain hose to the yellow barbed connection on the side of the cabinet and fix with jubilee clip.

Run the drain hose to either an upstand or an outside drain. A minimum air gap of 20mm should exist at the end of the drain line. Softened water will have no adverse effect on a septic tank. If you need to extend the drain hose this can be done by connecting to a 15mm copper tube for a maximum run of 5 metres with a minimum daytime pressure of 40 psi. Ensure that the drain hose is adequately fixed to the copper pipe. The drain hose must not dip or be kinked in any way as this will lead to an overflow of the machine.

UPHILL? The white flexible drain hose can run uphill internally for a maximum of 3 feet with a minimum water pressure of 40 psi.

FAST FLOW DRAIN KIT

Where a drain is not readily available. A Fast Flow Drain Kit may be used and is available from your supplier. Ref: FFDK Please note that the Fast Flow Drain Kit cannot be used on overflow connections.

OVERFLOW CONNECTION –No clip required

The hose for the overflow should be cut from the drain hose provided. The overflow connection is the ½” white barbed hose spigot on the side of the cabinet. No clip is required. The overflow must be run downhill through an outside wall without kinks or restriction. It is recommended the overflow hose be visible when it exits the outside wall. A 22mm copper protective sleeve through the outside wall will help prevent kinking of the hose.

TEST INSTALLATION FOR LEAKS

Close Inlet and Outlet valves to the softener and open Bypass valve. Open mains stopcock slowly and flush the new pipe work and connections via an adjacent mains tap. Ensure the tap used is not a hard water tap. Check all connections for leaks.

Fill softener with tablet salt to within 2” of the top of the cabinet **before** you turn on the water supply. Alternatively, block salt may be used

Turn on the water supply to the softener by closing the Bypass and opening both the Inlet and Outlet valves. Check for leaks and leave your soft tap to run for a short time to purge any air from the softener. There is no need to put any water in the cabinet, as the softener will fill to a pre-determined level automatically.

THERE ARE NO PROGRAMM SETTINGS TO BE MADE ON THE SOLO MODELS!

IMPORTANT

It is important that the softener is kept full of either tablet or block salt at all times. This goes in the chamber under the curved lid at the front of the machine.

BLENDING CONTROL

All our water softeners are factory set to produce water that is 100% soft. If you require slightly blended water – recommended on Combi/Condensing Boilers in areas of hard water that have a green/blue build up in the scale – open the Bypass valve slightly – until it takes 6/7 drops of the dark liquid to get a red to green colour change as per the original water hardness test and fit the Monarch MX2000 dual action scale and corrosion inhibitor to the system on the supply 'leg' to the boiler after the softener connection

Fig 1

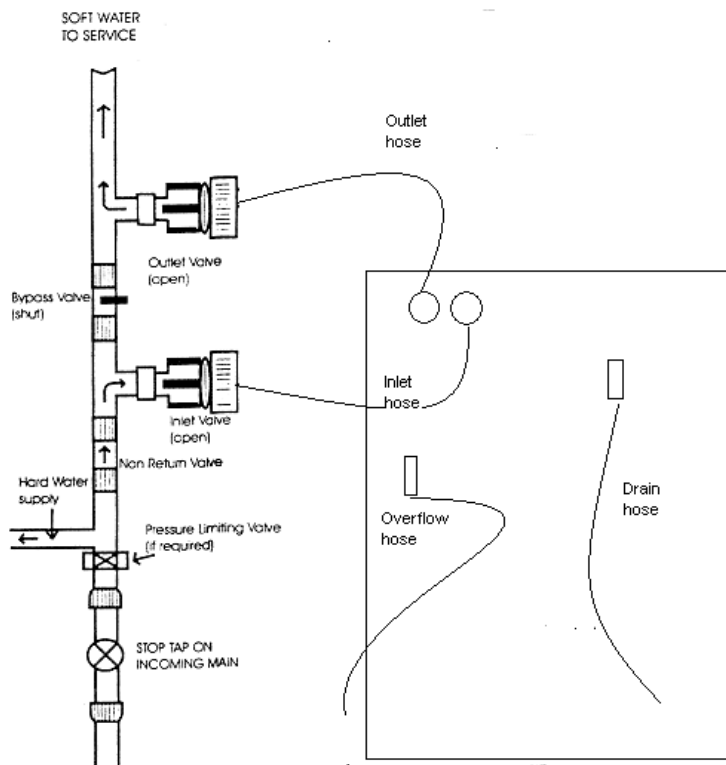


Fig 2



Inlet and Outlet connections clearly marked on the softener

Installation Kits Check List:

Solo – for 15mm pipe work with storage tanks in the roof:

- 2no 15mm x 3/4" MI Inlet/Outlet valves
- 1no 15mm x 15mm Bypass valve
- 1no 15mm x 15mm non return
- 1no Jubilee clip
- 2.5mtrs Drain/Overflow hose
- 2no Inlet/Outlet hoses

Solo Ultra – for 15mm pipe work to Combi boilers and 22mm pipe work:

- 2no 15mm x 3/4" MI Inlet/Outlet valves
- 1no 15mm x 15mm Bypass valve
- 1no 15mm x 15mm non return
- 1no Jubilee clip
- 2.5mtrs Drain/Overflow hose
- 2no Maxflow hoses c/w fibre washers
- 3no 22mm x 22mm In/Out/Bypass valves
- 1no 22mm x 22mm Non return
- 2no 22mm x 3/4" MI

Please note: On your guarantee card there is a section that asks you 'Drops'? Please note that this question does NOT apply to the Solo models.