

## 300 - Non electric water softener INSTALLATION AND OPERATING INSTRUCTIONS



### Before you proceed

**Water hardness.** Before you proceed you must be sure the softener is capable of providing enough softened water for your needs. Call your local water supply company and they will advise the water hardness in your area, look up water in your telephone book.

**There are 2 sizes of softener; the hardness of your water governs which size you should have, a 750 is for hardness up to 400 ppm and a 500 is for above 400 ppm. The size is noted under the cover on the serial number plate on top of the softener.**

(500 usually supplied in parts of Norfolk & Suffolk)

**Water pressure.** This can be tested with a gauge, or again you can contact your local water supply company. The ideal daytime water pressure is 2 to 6 bar, but it must never be below 1 bar or above 8 bar.

**If the pressure is above 6 bar we recommend the installation of a pressure reducing valve set at 6 bar, this valve is available from your supplier.**

**Packaging.** Remove the softener carefully from the packaging, lift off the cover from the top of the softener and remove the packaging from the inside the cover and cabinet.

**Drinking water.** We advise that a drinking water tap is installed. Your supplier can provide you with an easy to install drinking water tap kit.

**Important: Softened water should not be used for baby food or drinks, also people on a low sodium diet should not drink softened water.**

**Find a place for your softener.** It should ideally be local to the water supply for the whole house, a drain, next to an outside wall for the overflow, and easily accessible for loading with salt. A good site is under the kitchen sink.

**Pipe size.** Your softener is supplied with a ½” inlet and outlet hose, together with 3m of drain tube (already connected) and 1.5m of overflow hose.

A ½” bypass valve kit is available from your supplier. Using the hoses provided and the bypass kit install the softener as per the plumbing section.

This shows an installation to a 15mm water supply pipe. If your water supply pipe is 22mm or larger, consult your supplier and he will provide you with a high flow hoses and bypass kit.

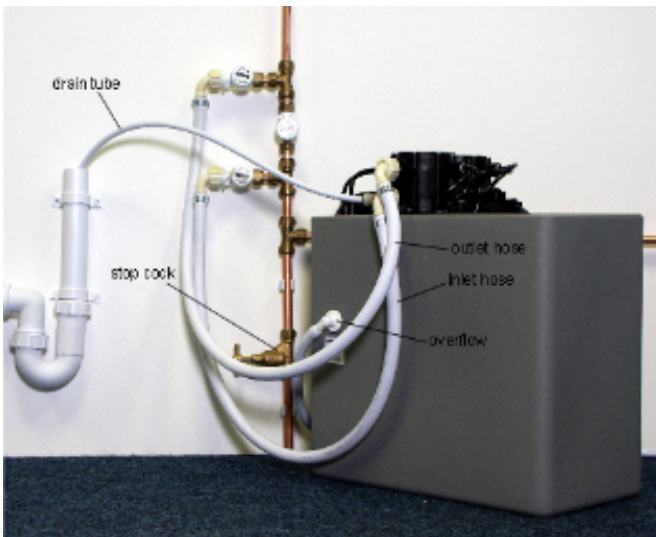
**Note : The ½” hoses and bypass kit are suitable for homes with a cold water storage tank, if however your home has a combination or direct hot water system we recommend you install the softener using the high flow hoses and bypass kit.**

Your supplier can provide you with a high flow bypass kit and high flow hoses.

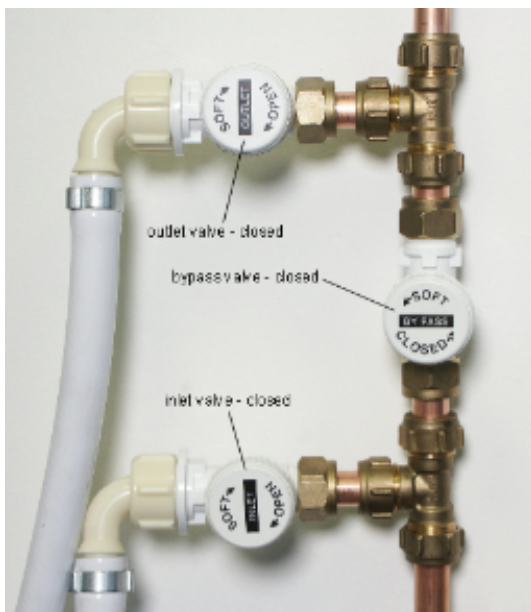
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### Plumbing.

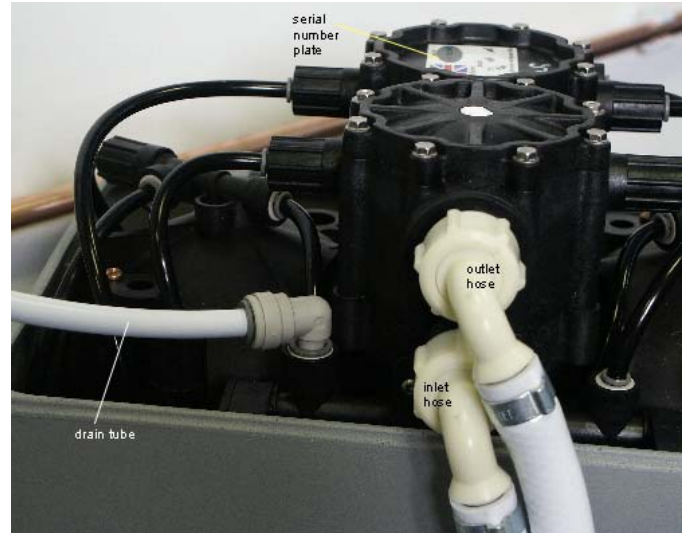
1. Turn off the mains water supply to the house by closing the stopcock. Then drain the pipe by opening the kitchen tap.
2. Cut the pipe after the stopcock and install the inlet, outlet and bypass valves. To comply with regulations a check valve must be installed between the stopcock and the softener, the inlet valve of the ½" bypass kit includes a check valve.
3. Connect a hose between the softener inlet and the inlet valve, then, connect a hose between the softener outlet and the outlet valve.



4. Turn off the inlet, outlet and bypass valves.



5. The drinking water tap connection and the garden tap connection should be made in the pipe between the stopcock and the bypass valve.
6. Run the drain tube (which is supplied, connected to the softener) to the nearest waste pipe, typically a washing machine type standpipe. Cut off the excess tube. Secure the pipe so that it cannot fall out of the standpipe.



7. Push the overflow hose on to the overflow connection on the side of the cabinet and run it downhill to the outside of the house, keep the hose as short as possible.

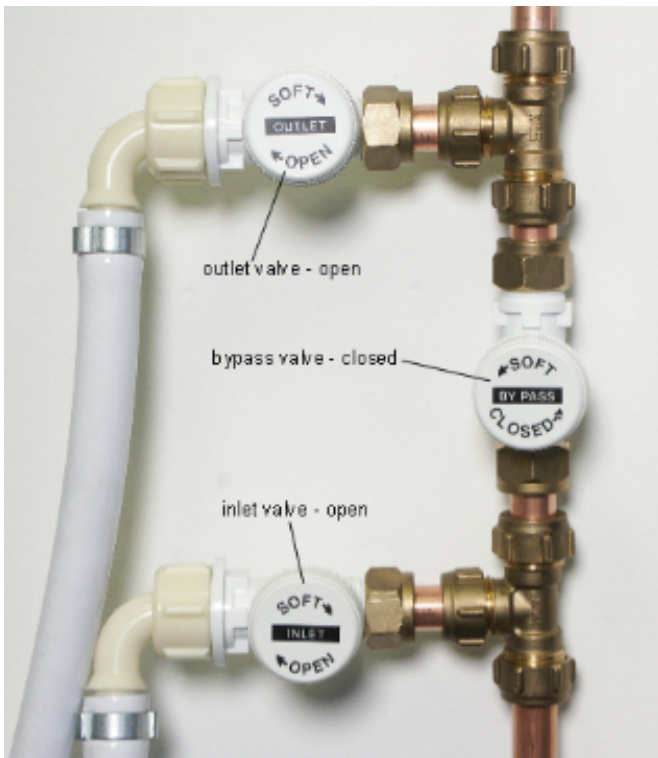
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### Setting to work.

Open the mains stop cock then the inlet, outlet and bypass valves. Open the kitchen sink tap for a few minutes to remove all the air and any colour from the water, and then close the tap. Leave for 10 minutes, checking for leaks.

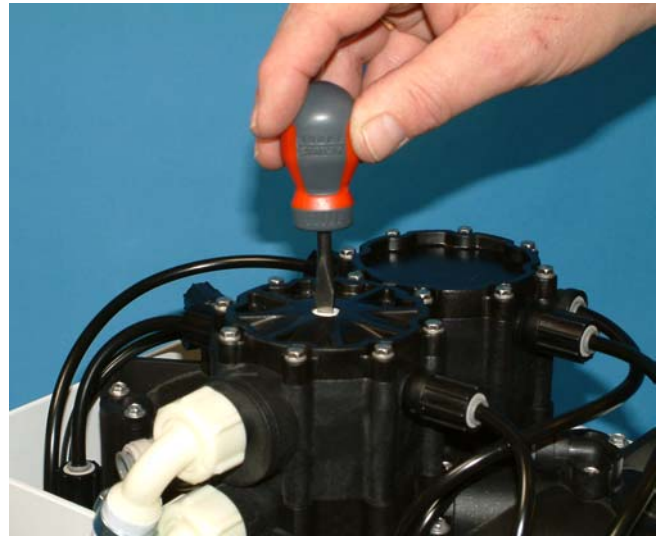
**Note: the inside of the cabinet will start to fill with water, don't worry this is normal, it will stop just above the top of the platform inside the cabinet. If it does not fill with water simply fill to just over the platform using a bowl.**

Close the bypass valve.



Now manually regenerate the softener by inserting a bladed screw driver into the white button under the cover and depress. Rotate slowly one complete turn clockwise, adjusting the position until the button pops back up.

**Make sure the white button pops back up into the D.**



Water will now go down the drain for about 10 minutes removing the water from above the platform in the cabinet. Then the cabinet will refill above the platform.

Now manually regenerate the softener again.

**Make sure the white button pops back up into the D.**

The softener will now start softening the water. Taps directly connected to the softener will give softened water immediately. It will take a while for softened water to fill your storage tank and work its way through your hot water system. You should have partially soft water in a few days and completely soft water in a week or so.

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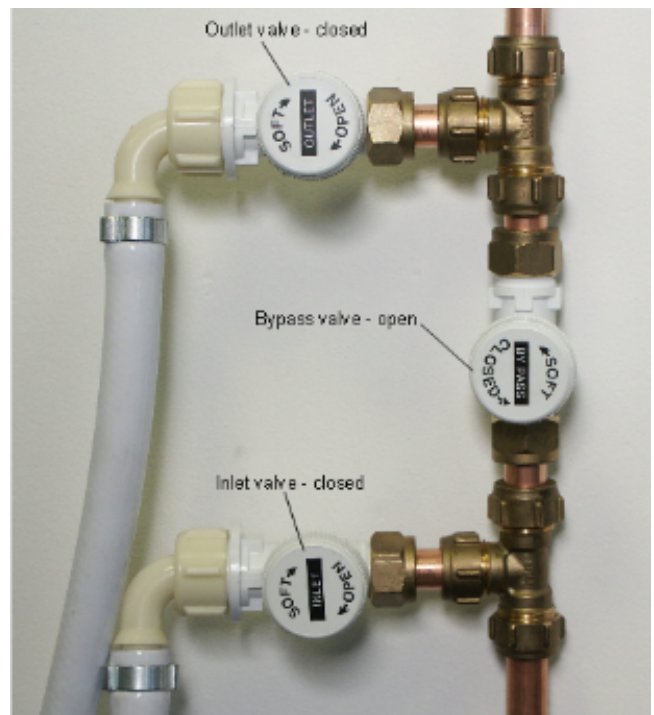
### Filling with salt.

This softener is designed to use tablet salt. Fill the bin with tablet salt as shown.



### Operation.

1. **Checking salt.** Regularly check there is salt in the salt compartment. If it is getting low, top up with salt tablets or blocks.
2. **Turn off the softener.** If you ever want to turn off the softener you must, close the inlet and outlet valves, and open the bypass valve. **The softener will no longer operate.**



3. **Turn on the softener.** To start the softener operating again follow the instructions under **Setting to work.**