

# WATER SOFTENERS

*A Luxury that saves you Money*

# Problem - Hardness

- Water that contains high levels of dissolved calcium or magnesium salts, or both, is described as being hard. It is desirable that domestic water supplies contain less than 100ppm (mg/L) hardness. The problems it causes - pipe scaling, water heater burnout, streaky glassware and difficulty in washing clothes can all be avoided by water softening.
- A softener removes the calcium and magnesium by means of an ion exchange bed which the water passes through.
- When the exchange capacity of the bed is exhausted it is regenerated with a brine solution, made up in a brine tank.
- Time Controlled automatic regeneration or Metered regeneration based on the amount of water the softener has treated.
- Typically regeneration is required approximately weekly.
- Perhaps the most important benefit is to the life expectancy, and running costs, of your hot water system.
- The same scale that clouds your clean sink, builds up in your hot water system, coating the element and the insides of the pipes, tank, and boiler.
- The average hard water home builds 1/16" of scale per year, eventually the whole system becomes clogged and useless, in need of total replacement - very expensive. Until then, you are paying to heat the scale, before heating the water. After five years you could be wasting as much as 70% of your fuel bill on heating scale.



# Solution -

## An automatic Water Softener

- Softened water, over a period of time, will dissolve and reduce the scale build up in pipework.
- You will you'll feel the difference. Easy on your skin and hair leaving it soft and smooth, healthier and shinier. Softer on your clothes as well - they will be fresher and fluffier.

You will see a reduction in your shampoo and detergent bills.

Hard water is chemically opposed to the good lather you want whenever you use soap or detergent. To overcome this, you use a lot more - up to twice as much. With soft water the lather comes easily and stays longer. You will also see a difference in the time you spend cleaning showers, baths, sinks and taps.

- Hard water is hard work! Soft water is scale free, so you will save time and effort on cleaning and money on products
- It's never too late to save yourself money and worry.



# Control Valves

- Whole House Water Treatment Systems
- We have a range of these units, with completely automatic control valves.
- The control valve is fitted onto a round FRP tank filled with ion exchange resin to soften the water and comply with the NZ Drinking Water Standards.
- The system is typically installed in the garage onto the cold water pipe to the house.
- For rural properties, installation is after the pressure pump that delivers the water for the house or business.



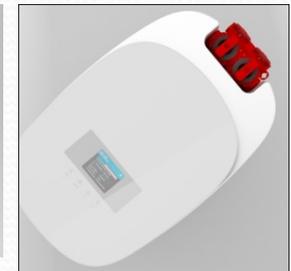
# Water Softener capacities

- These larger capacity water softeners are best used for larger households, or up to small commercial applications.
- 12" x 52" tank and round brine tank
- 10" x 54" tank with 15" x 17" brine tank
- The Windsor and Canature cabinet units are most suitable for average and smaller households.



# Cabinet Softeners

- The American Windsor (left) is 111.8cm high, 57.2cm deep and 34.3cm wide.
- The Canature (right) is manufactured in Shanghai and is 104cm high, 51 cm deep, 32cm wide.
- Both accommodate a mineral tank 10" x 35" inside the outer cabinet.
- The Canature model has "Holiday mode" feature for a rinse and backwash to keep it fresh while you are away.
- Removable cover provides easy access to controls and mineral tank on the Windsor.
- Periodically replenish the coarse salt for the regeneration process into the brine compartment.

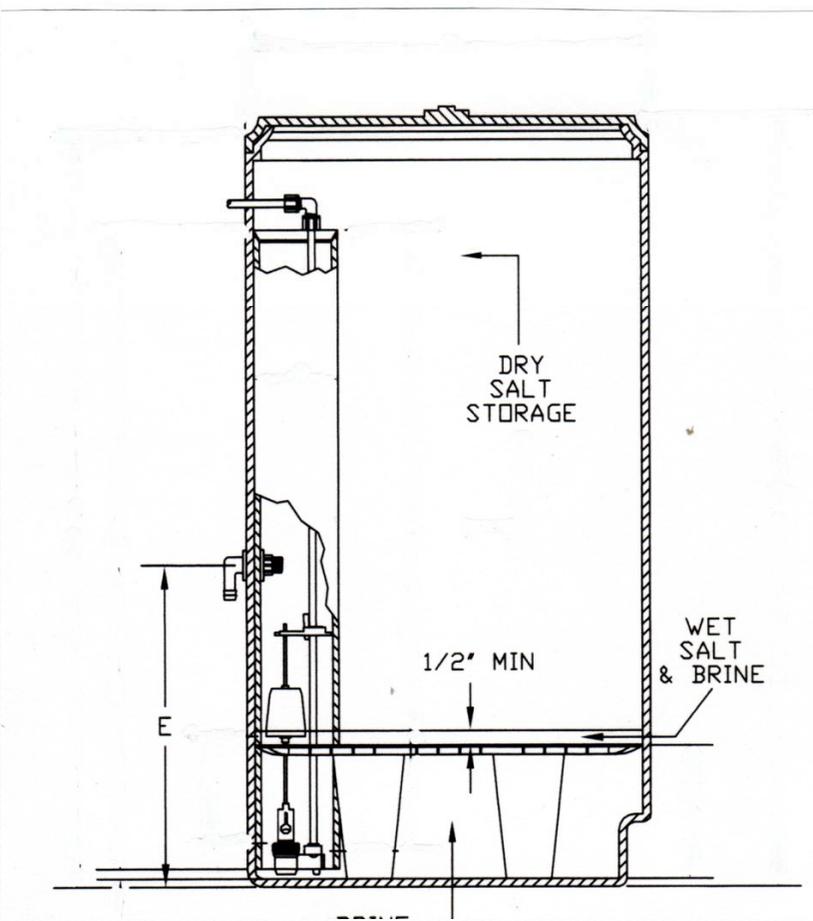


# Cabinet Softener Versus 10x44 with Separate Brine Tank

The 10"x44" Tank and Valve is 250mm higher and the space is 250mm wider than the Canature Cabinet Softener for greater capacity in a similar footprint – a great idea with teenagers in the household.



# Brine Tank Assembly



# Client Comments

- Water in Amberley is recognised as being hard.

I needed to de-scale my glass kettle every 7-10 days. I couldn't see thru the kettle in 2 weeks.

Unfortunately I believed the rhetoric from a Nation-wide Company promoting a Total Filtration system for water. It included some filters and a Magnetic Ioniser - "which makes the water behave as though it has been softened".

There was no discernable difference and the kettle de-scale continued weekly. I repeatedly asked this company to provide me with scientific or clinical data to show that the Magnetic Ioniser actually will soften hard water - so far this has not been forthcoming.

I was advised to continue with a product "we know it is cleaning out the pipes and will reduce scale over time". However after 5 months and still no benefit, I removed it from my system, took some helpful advice and replaced it with a Salt Based Water Softening Treatment plant as supplied by \_\_\_Sue Kelly Water Systems Ltd.

This worked from the first day and I have not had to de-scale my kettle in over 1 year.

I use a bag of HydroSoft salt \$16.07 every 5 - 6 weeks.

**My message is - use proven technology not unproven. RSB Amberley**

- 'Thanks for your follow up call today to see how we feel about our new Softener. There is a HUGE difference! We specially notice the soft water in the shower - so much easier on our skin. Many Thanks.' **A&S Waipara**
- 'You asked us to let you know about your quality of service and to date we have been unable to fault it. The plumber you arranged to install the water filtration was more than helpful and very clear when giving us information about ongoing use of the system. Overall a flawless service!' **K&J Amberley**
- "At last a solution to our hard water problem. Sue's service was second to none and our water feels better now".  
**A&V Genet, Leithfield**

The logo for Sue Kelly Water Systems Ltd is centered at the top of the slide. It features the name 'Sue Kelly' in a large, black, cursive script font. Below it, the words 'Water Systems Ltd' are written in a smaller, black, sans-serif font. The entire logo is enclosed in a thin, light blue rectangular border.

# Sue Kelly

Water Systems Ltd

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