

Ecomix

4 Irons, Manganese, Hardness Tannins & Ammonium Treatment

Effective new treatment for all 4 forms of Iron, Manganese, Tannins, Ammonium plus extremely Hard water.

Five major problems are easily and extremely effectively solved with just one treatment unit

Problem – Extreme Hardness, Iron, Manganese & Tannins

- Water that contains high levels of dissolved calcium or magnesium salts, or both, is described as being Hard. The problems it causes - pipe scaling, water heater burnout, streaky glassware and difficulty in washing clothes can all be avoided by water treatment.
- High levels of Iron and Manganese create major problems of staining – laundry, bathroom fittings, showers & baths.
- The scale and staining mineral deposits build up in your hot water system, coating the element and the insides of the pipes and staining your laundry.
- The advanced multi-purpose system removes extremely high Hardness by means of an ion exchange bed and the Iron and Manganese with a range of other medias through which the water passes. When the capacity of the bed is exhausted it is regenerated with brine solution, made up in a Brine tank.
- The treatment tank is fitted with an electronic Metered control valve which regenerates completely automatically as programmed, based on the amount of water the system has treated. Typically regeneration is required approximately weekly.
- Prior to this media being available in NZ, separate treatment systems have been required to treat the 5 major problems – now all are dramatically more effectively reduced in a single pass through this highly acclaimed European treatment media.



Solution - An Automatic Water Treatment System

- This new-to-NZ filtration media is an advanced European patented homogenous blend of five natural and synthetic ion exchange plus adsorptive filtering medias used for reducing extreme Hardness, Iron, Manganese, Ammonium and Tannins from water in a single pass. – more effective than earlier conventional treatment methods using several units.
- It has the ability to reduce Ferrous, Ferric, Organic and Colloidal Iron.
- The new treatment media is significantly more effective than older Iron and Manganese removal methods. Levels of Iron and Manganese are higher (15ppm and 3ppm) with rejections rates up to 99%. Hardness as CaCO₃ up to 750ppm.
- Two year manufacturer's warranty.
- Regeneration is achieved with a mild brine solution from coarse salt.
- The technology is patented and thousands of systems are operating successfully for 12 years in Europe and around the world.
- We are proud to offer it to NZ.



Completely Automatic Control Valves

- **Whole House Water Treatment Systems**

- We have a range of these units, with completely automatic Metered control valves specifically programmed for your unique water conditions.
- The control valve is fitted onto a round FRP tank filled with the treatment media to soften the water and eliminate the staining to comply with the NZ Drinking Water Standards.
- The system is installed either between the well pump and the house or to a water storage tank. A pressure pump then delivers the treated water from the storage tank to the house or business.
- By installing a pair of solenoids connected to the valve treated water can be used to backwash, rinse and regenerate the media for optimum performance long term.



Water Treatment capacities

- The larger capacity units are best used for larger households, up to small commercial applications
- The small tank and the cabinet unit are more suitable for apartments and smaller households.
- Removable covers provides easy access to the Brine tank to replenish the coarse salt.
- 20Kg bags of coarse salt are readily available and inexpensive.



The composite water treatment media consists of 5 materials with different properties

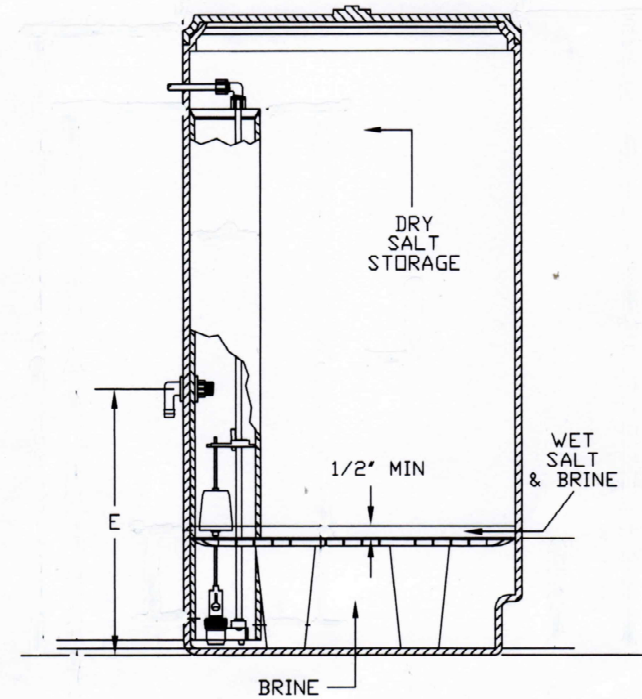
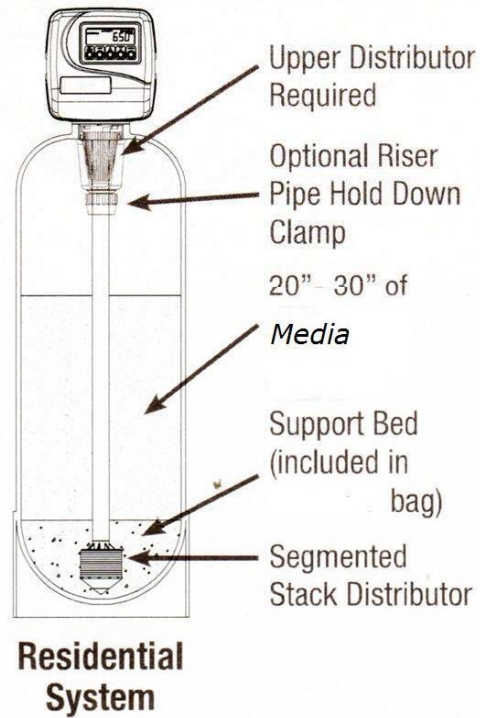
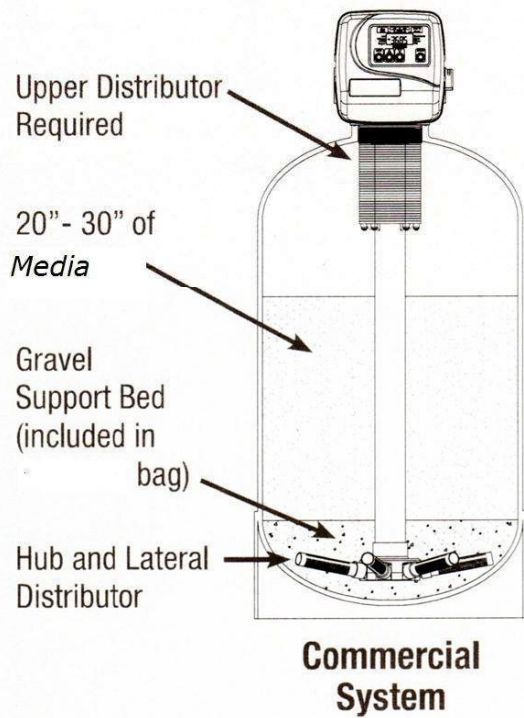
1. Enhances backwash
2. Reduces iron and manganese compounds
3. Reduces natural organic matter and organic iron.
4. Ion exchange resin to soften water
5. Support bed for even water flow in tank.

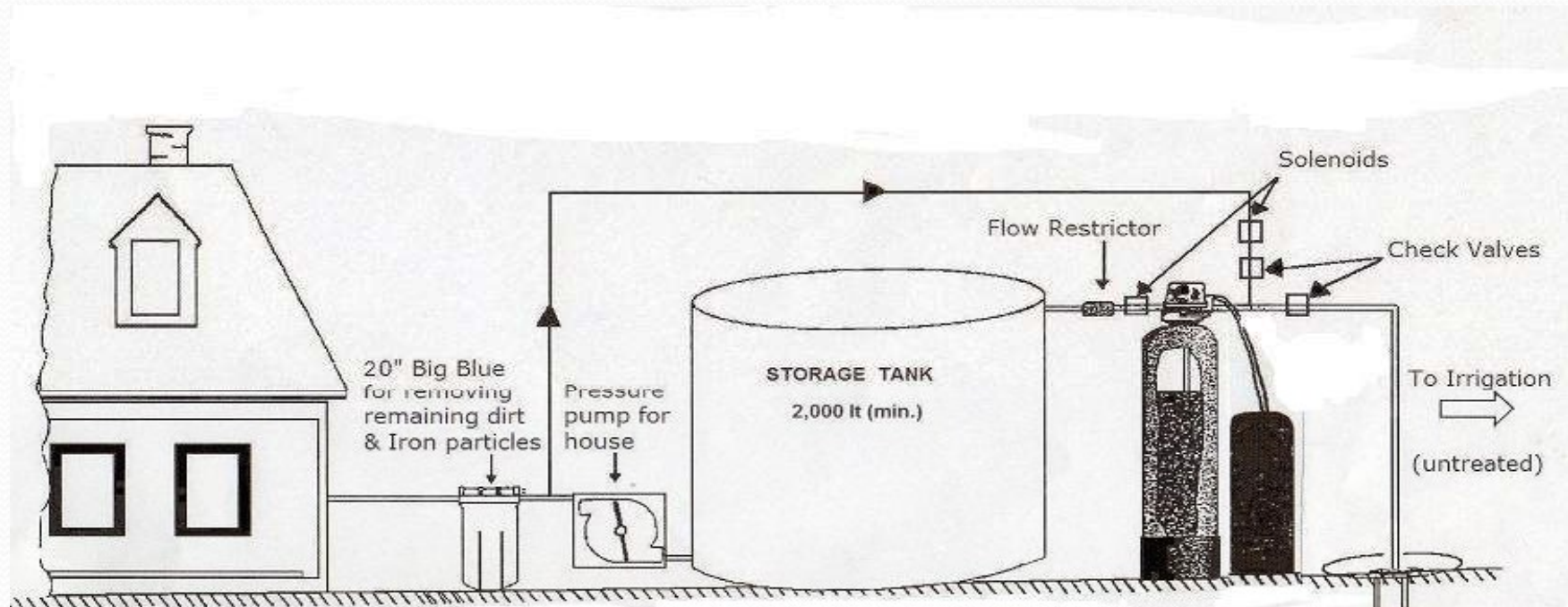
2 & 3 are unique components invented by the European manufacturer.

- Existing Softeners can be converted to this advanced media – for significantly improved operation when iron and manganese are present.



Media Tank & Brine Tank Assembly





4 Irons, Manganese & Extreme Hardness Treatment - Typical set-up

*This new treatment is a patented blend of natural and synthetic ion exchange adsorptive filtering medias used for reducing Hardness, Iron, Manganese and Tannins from water in a single pass.

*It has the ability to reduce Ferrous, Ferric, Organic and Colloidal Iron.

*Regeneration is achieved with a brine solution from coarse salt.

*The media is not affected by Hydrogen Sulphide and may partially reduce the rotten egg smell.

*The use of a storage tank, allows the treated clean water to be used to backwash, rinse and regenerate the media - for optimum cleaning performance - long term.

*The pair of solenoids fitted to the automatic control valve operates automatically.

Sue Kelly
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Client Comments

- 'Sue, Just a note to thank you for solving our water problems. As you know we have had serious iron and more lately manganese problems with our water for months if not years. Eventually the manganese levels approached toxic levels that would have damaged our health. The iron was staining our washing, our dishes and even the side of the house where the sprinklers wet the house. Your water softening system has solved the problems completely and we can now drink the tap water again. Many thanks'. **C&A Leeston**
- '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**
- I have to say the water is really fantastic. That new media really works and the taste has got better and better actually, so thank you!
All is well with the water – tastes way better and no staining on the shower at all !!! We gave the ensuite shower a super scrub and no staining has returned!!! **SK Ladbrooks**



Sue Kelly

Water Systems Ltd

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