

E N H A N C I N G
THE WORLD'S MOST
P R E C I O U S
R E S O U R C E



SOFTERWATER
SOLVING WATER PROBLEMS AROUND THE WORLD

who we are

AUSTRALIAN OWNED & OPERATED

Manufactured in Australia Softerwater Conditioners have been installed globally since 1983.

We are committed to manufacturing quality products that deliver results.

APPLICATIONS

Residential applications include whole house, showers, washing machines and dishwashers, hot water systems, swimming pools, evaporative air conditioners, caravans and Rv's.

Commercial applications include pumps, bores, irrigation systems, hydroponics, drill rigs, mining

equipment, hot water ring mains, evaporative air conditioners, chillers, cooling towers, steam cleaners, ice machines and all other water carrying system. There is a Softerwater Conditioner to suit your requirements.

We have a range of water conditioners or we can custom manufacture a unit to your specifications.

WORLDWIDE DISTRIBUTION

Softerwater Conditioners are distributed globally through a network of distributors and local dealers.

We look forward to solving your hard water problems!

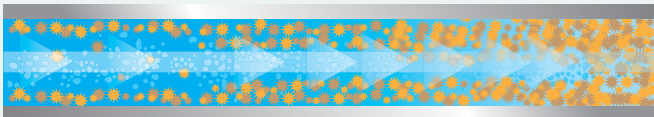


Earl Mathieson

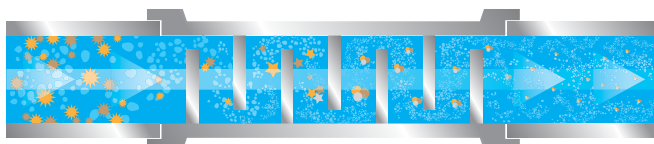
Chief Executive Officer
Softerwater Conditioners



A SIMPLIFIED LOOK AT OUR ADVANCED TECHNOLOGY



STANDARD WATER SYSTEM scale-causing minerals have a high electrical charge, repel each other and 'stick' to pipes and equipment causing costly hard water problems.



WITH SOFTERWATER CONDITIONER the softerwater alloy produces a turbulent mineral-attracting galvanic action reducing the electrical charge of minerals. Non-sticking nano sized colloids are formed and flow through the system in suspension significantly reducing hard water problems.

SOFTERWATER
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- ✓ **Eco-Friendly**
- ✓ **Chemical & Salt Free**
- ✓ **No Moving Parts**
- ✓ **Non-Sacrificial**
- ✓ **No Power Source Required**
- ✓ **Maintenance Free**
- ✓ **Lifetime Warranty***

* Refer to website for further information
softerwater.com.au

technical information, results and advantages

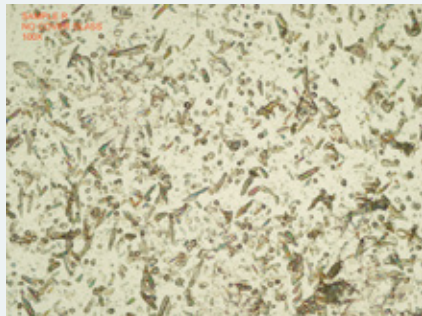
THE CHEMISTRY

- Blended in a specialised foundry process, each alloy core is made up of a number of dissimilar metals scientifically selected from the anode and cathode galvanic scale. The alloy is not a sacrificial anode (i.e. does not need replacement).
- On contact with water thousands of intense galvanic electrochemical reactions occur along the length of the alloy core.
- Minerals are attracted to these galvanic sites as they flow through the system.
- The electrical charge or zeta potential of the minerals in the water is reduced allowing the minerals to aggregate and form nano sized colloids which remain in suspension rather than precipitate on pipes and associated equipment.

THE PHYSICS

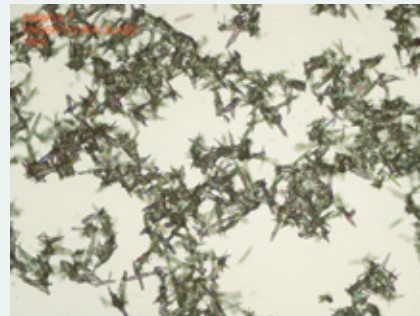
- Each alloy core has been designed and engineered for a specific flow range.
- Each core has offset discs so that there is no direct route for the water to travel. There is a definite water alloy contact.
- Water velocity is increased as water is squeezed through the disc apertures and on through the chambers along the length of the core.
- High and low pressure areas are developed either side of each disc.
- Extreme turbulence is generated in each chamber along the length of the core.
- The increase in water velocity and turbulence combine and create a mechanical washing action which prevents minerals building up on the core.

RAW WATER



Zeta potential is considered to be the electric potential of the minerals in water.

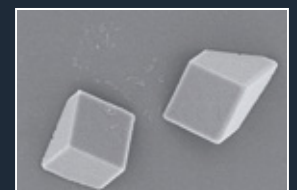
SOFTERWATER



Softerwater lowers the Zeta potential of water by a factor of almost 2.

Nuclei are introduced into the system providing an attractive site for minerals to combine as nano sized colloids. These remain in suspension and flow through the system rather than precipitating on pipes and equipment. The subtle changes to the electrical charge of the minerals in water have significant effects on reducing downstream costly problems.

- ✓ Lowered water surface tension
- ✓ Reduced hard water problems
- ✓ Investment in capital equipment is protected
- ✓ Improved equipment efficiency
- ✓ Reduced scaling and corrosion problems
- ✓ Soaps, detergents and shampoos mix and lather better
- ✓ Swimming pool water is clearer, softer, backwashing is reduced, saltwater chlorinators work more effectively, and chemical usage is reduced
- ✓ Ability to irrigate with brackish water



Minerals with high zeta potential (negative or positive electrical charge) are electrically stabilised, repel each other and precipitate on pipes and equipment.



Colloids with a low zeta potential tend to aggregate and remain in suspension rather than precipitate on pipe and associated equipment.

applications



Showers



Washing Machines & Dishwashers



Residential, Caravan & RV



Swimming Pools



Drill Rigs



Commercial



Cooling Towers



Irrigation



Static Mixers



Australian Customers

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International Customers

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