

# How it works



**Swimming in fresh clear water should be every pool owner's joy. The Bioniser pool purifier will deliver you an algae free and pure pool day in day out with the bare minimum of effort and expense.**

**0% Salt. 6% Silver 94% Copper Virtually Chlorine Free**

**Like all good clean technology - the more simple the operating system, the more effective it is.**

The Bioniser pool and spa purifying system works by passing a safe, low, DC electrical current between two Copper and Silver **anodes** (electrodes). This creates an abundance of **natural mineral ions** that are swept into the pool or spa where they remain on patrol guarding your pool and spa water from impurities.

- **SILVER – Nature’s Antibiotic** – over 640 pathogens and virus – fast. Potent Bactericide.
- **COPPER – Nature’s Algaecide** – kills all algae including black spot. Also a bactericide.
- **+ IONS – Benign but Powerful** – created by passing low DC current between the two silver and copper anodes – they purify the water and have a high residual.
- **HYDROGEN PEROXIDE – Much Preferable** to chlorine as a pool oxidiser. Low toxicity – high residual.

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- **CHLORINE – A Known Carcinogen** – it is bio-accumulative and mutagenic. Low residual – Environmental risk.
- **SALT – Becomes Chlorine Gas** when passed through the electrodes on a salt chlorinator – See Chlorine and Stabiliser.
- **STABILISER – Cyanuric Acid (Cyanide)** – Extends the chlorine life in pools. Toxicity category 1. USA, EPA list. Illegal in indoor pool.
- **TRIHALOMETHANES – Cancer Causing Substance** – Formed when chlorine and organic matter (leaves etc.) interact.

## The Bioniser complies to All Australian Health and Safety Standards

**No stabilizer** is required (**unlike chlorine**) as these natural ions will remain in the water for weeks - even if your Bioniser was switched off. The mineral ions produced are unaffected by high water temperature (unlike chlorine) and prefer a pH range between 7.0 and 7.4 (as does chlorine). They do not ruin bathing suits, dry out hair and skin or leave an unpleasant odour on your person after swimming. Nobody wants that!

An oxidizer ( hydrogen peroxide, potassium mono-persulphate or chlorine) will be required from time to time to polish the water free of oils like suntan lotion, hair oils, perspiration etc.

In Australia – The APVMA recommends that a registered sanitiser be used to the directions on the label in conjunction with Bioniser.

The Bioniser Mineral Anodes are approved for use in Australia by the APVMA. The Bioniser is approved for use anywhere in the World.

In the USA many public pools employ ionization as the primary method of sanitation with over 97% of swimmers expressing much higher levels of satisfaction and enjoyment with this method over the traditional chemically controlled pools.

Bioniser anodes are sacrificial and will require replacing. The **anode change-over process** is quick and easy. The average size pool (50,000 litres) will change anodes about **every two years** with normal use and at a cost of around \$2 per week. Do the maths! You will know when to change anodes as the Bioniser tells you it's time.

The Bioniser owner need only perform **three simple tests per week** and **three tests every three months** to enjoy a consistent level of pool/spa water quality that has, until now, been unachievable without moderate to high chemical use and expense.

Do these tests and use the “boost” feature on the Bioniser when the water is under environmental stress - ie. heavy rain/wind - and we will virtually guarantee you a trouble free pool or spa. These three tests every week will take about 5 minutes. Now how is that for confidence!

Power usage is negligible. The Bioniser has two timers one for the pool pump and one for the ionizer. It is an automatic set-and-forget system. A software program controls the unit and it is dead simple to set up. Just choose the filtering times/cycle and set the ionizing period. That's it. Turn it to Auto and the Bioniser will do the rest.

Now you can rest easy knowing you have the best pool and spa system available today. You will be taking care of three things: The Planet, Your Pocketbook and Your Peace of Mind.

## Benefits

There are the obvious benefits such as your health and safety having been enhanced plus economically frugal and eco-safe operation including the Bioniser using recyclable materials where at all possible. Then there is the not so obvious things like time saved on pool maintenance, swimming enjoyment and family fun.

These things can't be underestimated when the overall benefits of pool ownership are tallied.

You will experience the convenience of a sophisticated clean-tech system that will just keep working with only minimal pool care from you.

Easy well spaced anode changes and the option of a chlorine free operation – the list goes on. No more sore red eyes and no more corroded screens or rotted faded swimwear. No more dry skin or hair that splits when dried.

Bioniser (unlike most other ionisers) is compatible with the latest Zeolite filter medium.

It is built to last and last so you have peace in your mind and joy in your soul.

Bioniser **attaches to your pool /spa system** easily and quickly – even the most inexperienced person will be able to fit and set up the Bioniser for operation within minutes – 15 minutes at most.

Unlike many Salt Chlorinators the Bioniser needs no cleaning and will work on any AC power supply (110V/230V) wherever that power supply be located. It detects what voltage is available and switches automatically to match it.

## Features

- Automatic operation. Set & Forget.
- Two Inbuilt Timers allow the pump to be controlled by the unit.
- A Super- Ionise or “Boost” facility for periods of bad weather.
- A large, bright, backlit LCD to enable you to see the set-up commands and program whether in a darkened or brightly lit environment.
- A single screw on, screw off action to facilitate the fast, easy **change-over of worn anodes** -without mess or fuss.
- A 2 year full replacement warranty (not including anodes, LCD or freight).
- A 5 year pro-rata warranty.
- A Salt Free and Chlorine Free Operation. (optional)
- A model to suit all pool sizes.
- Anode deterioration monitor and change anode notification.
- Microchip Controlled - Software Driven Reliability.
- Fully Tested Approved for use World-Wide.
- APVMA approved and Registered Anodes.
- Water Conductivity Monitor with Indicator.
- Robust UV treated and weatherproof plastic enclosure. IP24 Rated
- Easy and quick to install.
- Back-up battery to retain the operating program in case of power loss.
- Self Cleaning
- Designed for both Swimming Pools and Spas