

# Deluge of orders from hotels

AUSTRALIAN Innovative Systems has received a deluge of orders from hotels in Australia and around the world after the launch of their Ecoline System; the first system in the world which can use electrolysis to sterilise fresh water.

**T**he Ecoline was showcased at the Australian Hotel Engineering Conference and recently won the gold GAIA award at the Big Five Exhibition in Dubai.

Ms Elena Gosse, executive director of AIS, said the response from hotels locally and internationally had been overwhelming.

“Our factory has been inundated with orders and we are busily custom building Ecoline systems for clients here in Australia and overseas,” said Elena Gosse.

“The recent expos here and in Dubai have generated huge demand from the hotel industry, even the Grand Hyatt in Dubai where the Big Five Exhibition was held, has ordered an Ecoline System,” she said.

“Now more than ever hotels understand the need for water conservation and the importance of using safer, cleaner and greener ways to sterilise their water,” Ms Gosse said.

The Ecoline system is the world’s first electrolysis system to disinfect fresh water; a cleaner, greener and safer way to purify water. The new system does not need any chemicals to be added, the system makes and regulates the chlorine levels needed to sterilise fresh water, eliminating the risks involved with manual chemical handling, transport, storage and dosing.

The system can be used for any water sterilisation application including swimming pools, water features, cooling towers, spas and Jacuzzis, drinking water, waste water, recycled water, grey water, sewerage, irrigation, food processing plants, reverse osmosis and desalination.

Ms Gosse said their Autochlor system had paved the way for the groundbreaking Ecoline system.

“Many hotels have trusted and used our Autochlor system, which treats salt water, for many years and are excited we have invented a new system for their fresh water sterilisation needs,” said Ms Elena Gosse.

“The Autochlor system has been used commercially for more than 15 years and has led the way for electrolysis treatment of salt water and now our Ecoline system is leading the world in fresh water treatment,” Ms Gosse said.

## More about Ecoline

The Ecoline system can be retro fitted to any water treatment system. It is an



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← on-site, in-line chlorine generation plant capable of producing chlorine in fresh water from the small amount of natural salts and minerals present in the water.

The catalyst for being able to use electrolysis for fresh water sterilisation is based on more than 15 years of leadership in commercial salt water treatment with their Autochlor system and now they have produced the first electrolysis system for fresh water. Because the Company manufactures their own anode material they were able to refine the process of producing chlorine via electrolysis and develop a way to convert the trace salts and minerals naturally occurring in fresh water into chlorine instantaneously. The fresh water passes through the Ecoline's electrode and leaves with the required chlorine residual. All the system requires is water and electricity.

In close fresh water systems, such as swimming pools, Ecoline has an added advantage; it also manages chlorine build up. As chloramines pass through the Ecoline system they are oxidised and converted back into natural salts. It effectively recycles the chloramines back into their natural state, restoring the natural balance of the water.

## Some questions engineers ask about Ecoline:

### How did you manage to make this work with fresh water?

The anode material is coated with a highly active catalyst. It is this unique coating which allows us to use such low voltage and allows the system to utilise the small amounts of salts and minerals in fresh water. Making the entire process energy and cost efficient.

### Do you need to add any extra salt to the water?

No, salt does not need to be added to the fresh water. Ecoline is completely unique in being able to use the natural salts and minerals in fresh water to convert into chlorine.

### How long does it take to install?

Installation can be completed in less than one day. The system is delivered fully assembled and tested. It only requires an electrician to permanently wire the system to the switch board and a plumber to connect a couple of pipes. Typically it can be installed within two hours. It does not need to be tested after installation; it can simply be switched on.

### Does it fit with existing infrastructure?

Yes. We have designed it to retrofit with existing infrastructure for all applications. The signal from the chlorine analyser, which used to drive dosing pumps and gas regulators, is fully compatible with our system. It is also simple to install in existing systems. We have a skid mounted design which can be lifted into place with a fork lift. We have also produced modular systems. Modules can be safely lifted by two people and can fit

through small, narrow manholes. They can be installed into very confined spaces anywhere within an existing system. Connecting the modules together can be done within 10 or 15 minutes.

### How quickly does the system pay for itself?

Generally the system pays for itself within two years. Eliminating the need to buy chemicals, rental costs on bottles, transport costs, dosing equipment, alarm systems, maintenance costs, labour costs to train staff members in chemical handling and public liability is reduced due to no more dangerous goods being stored onsite makes the system more economically viable than manually adding chlorine.

### What is the life expectancy of Ecoline?

Ecoline is designed to be easily maintained and repaired. The electrodes are replaceable parts and have a life expectancy of eight or ten years. The power supply expectancy is 10 or 12 years. Every part in the power supply is replaceable, so you will not have to replace the whole power supply. Everything has a three year warranty.

### What maintenance is required?

We recommend a basic check and clean of the system once every six months, which takes approximately 20 minutes.

### How much power does it use?

On average, Ecoline uses 15 kW of power to generate 1 kg of pure chlorine gas. If your power cost is \$0.16/kW then 1 kg of chlorine, made on-site safely, is only \$2.40; effectively halving the normal power cost. Add to that saving the savings you also make on delivery and handling and it is the smarter economic option.

For treating salt water, the Autochlor system is even more energy efficient. The more salt content in the water the less energy is required. Autochlor uses only six watts of power per gram of chlorine.

### Does it work in salt water?

AIS has a commercial treatment system specifically for salt water, the Autochlor. This product has a 15 year track record treating salt water systems. It is currently operating in more than 300 commercial installations overseas. In Australia, it is being used in City Council pools and lagoons, private and public schools and many five star resorts.

The demand for this product is gaining significant momentum as fresh water in many countries is increasingly restricted. This system is perfect for hotels with access to seawater. ■

## About AIS

### *Perfected water, through perfected science*

Established in 1974, Australian Innovative Systems Pty Ltd is a manufacturing company specialising in the disinfection of water via electrolysis. AIS currently employs more than 50 staff throughout its three manufacturing facilities in South East Queensland and exports to more than 50 countries worldwide. [www.aiswater.com.au](http://www.aiswater.com.au)