# In-line fresh water disinfection

**PROPER TREATMENT OF SWIMMING POOL WATER IS** ESSENTIAL TO PROTECTION OF THE PUBLIC HEALTH FROM DISEASES SPREAD BY MICROORGANISMS.

Brisbane based company, Australian Innovative Systems Pty Ltd (AIS) has researched and developed exciting new technology that revolutionised the whole approach to the freshwater swimming pool disinfection.

Ecoline<sup>™</sup> is a world first system able to harness the natural micro elements found in ordinary water and safely utilises these elements to disinfect water instantly covering the wide range of applications.

Since its launch in 2008, Ecoline™ has achieved international recognition as a reliable and cost effective system providing great return on investment.

Ecoline<sup>™</sup> is capable of increasing or decreasing production of chlorine in sync with proportional 4-20 mA signal sent from the Chlorine Analyser.



Swimming pools disinfected by Ecoline™ can have TDS as low as 250–500 mg/L and therefore the filter's backwash water could be used directly for irrigation or recycled. Also, the TDS of water disinfected by Ecoline™ do not have the tendency to increase, therefore less or no water is needed for dilution to keep the pool's TDS low.

The Ecoline<sup>™</sup> systems utilise leading edge technologies and are engineered



to very high standards, making them robust, modular, easy to install/retrofit and operate.

The Ecoline<sup>™</sup> system automatically adjusts to suit different TDS levels whether it is fresh or salt water.

#### **Benefits:**

- Eliminate the dependence on commercial chlorine suppliers;
- Avoid the risk inherent in the transport and handling of chlorine products;
- Lower the operating costs;
- Achieve a complete automatic process which required minimal operator's attendance.

To discuss the options Ecoline™ can provide, please visit Australian Innovative Systems' stand No.69 at the Splash Pool & Spa Trade Show.

#### UNIVERSITY COMPETITION OLYMPIC FRESHWATER SWIMMING POOL (FINA STANDARDS)

- Volume: 2.500.000 liters, Ecoline™ Model: FSRC-850 X 1;
- Open to weather, sub-tropical climate. operating 24/7. bather load 250 people/day, 4 hours filtration turnover;
- Ecoline™ maintains 2.0 3.0 mg/L of Free Chlorine Residual in the water;
- TDS: 1200 mg/L; Chlorides: 468 mg/L (39% of Chlorides in the TDS);
- FSRC-850 chlorine gas equivalent output: 1348 grams/hour.

#### Working examples:

#### HIGH SCHOOL FRESHWATER SWIMMING POOL

- Volume: 600,000 liters, Ecoline™ Model: FSRC-425 X 1;
- Open to weather, sub-tropical climate, operating 24/7, bather load 150 people/day, 2.5 hours filtration turnover:



- Ecoline™ maintains 2.0 3.0 mg/L of Free Chlorine Residual in the water:
- TDS: 400 mg/L; Chlorides: 156 mg/L (39% of Chlorides in the TDS);
- FSRC-425 chlorine gas equivalent output: 340 grams/hour.



large filters can be cleaned at a much slower water velocity. He quotes a velocity of only 25-30 m3/ hr/m2 for air scouring a sand filter, compared with 40-50 m3/hr/m2 for a water-only clean.

This leads to several benefits.

For a start, the time it takes to backwash a commercial filter is shorter, although the exact amount of time differential depends on how dirty the filters are. That of course means less energy is expended.

Equally important are the substantial water savings, even from simply considering the reduced water velocity during backwash.

Waterco's air scour filtration has been installed at the new Glen Eira Sports and Aquatic Centre in Melbourne. The system comprises laterals that can

# A filter on the *pulse*

called air scouring, has been used as a highly efficient cleaning process. It has proved particularly efficient for removing biofilm from pipework, especially for municipal operations

It basically involves mixing water with air to create a more effective cleaning medium than water by itself.

entrained in the water, it can also be more effective

"The filter can be effectively cleaned at sub-fluidisation levels, as opposed to water-only backwash,"

Backwashing using air and water means that very

**AUSTRALIAN INNOVATIVE SYSTEMS Pty Ltd** www.aiswater.com.au info@aiswater.com.au +61733965222





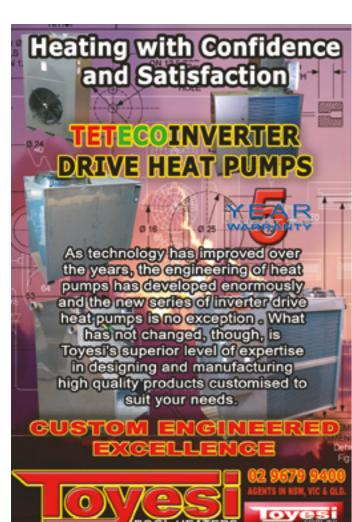
withstand the extra vibration from the air/water backwash phase. The filtration system was installed by water treatment specialist WJ Pratt, and incorporates an industrial air blower.

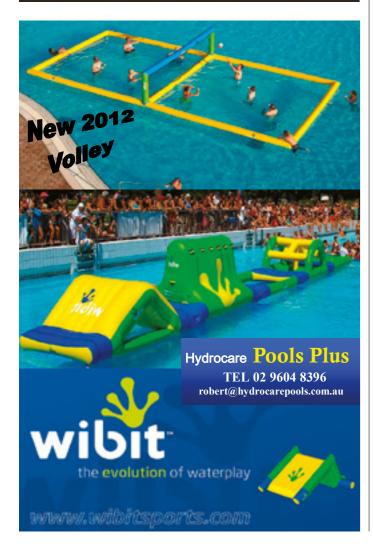
Schuckert believes Waterco's air scour filtration system will result in a saving of between 25 per cent and 35 per cent of the backwash water for all the filters. Waterco staff will be able to explain more about the air scouring system at their stand at the SPLASH! Pool and Spa Trade Show, on July 25 and 26 at Jupiters Gold Coast.

Main: The 25m indoor pool at the newly completed Glen Eira Sports and Aquatic Centre

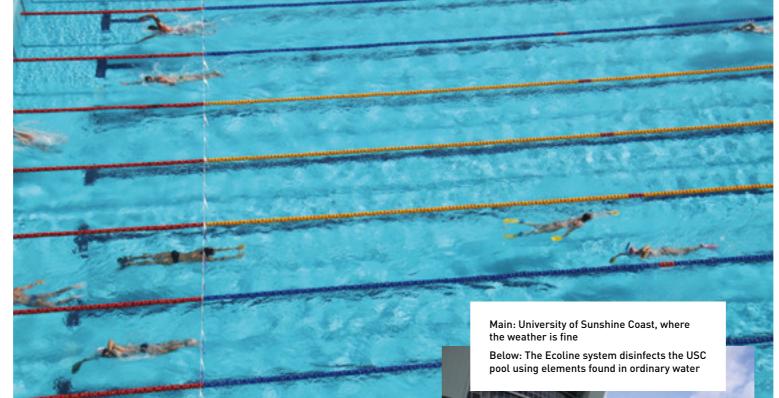
Below: Glen Eira's air scouring filtration system







commercial



## Sunshine & *clean water*

t the previous SPLASH! Environmental Awards held in 2010, the Sanitisation Product Award was garnered by Brisbane based company, Australian Innovative Systems (AIS) for their highly innovative Ecoline system.

At the time it was a concept that turned pool disinfection on its head. It was a world first – a system to harness the natural micro elements found in ordinary water and safely utilise them to disinfect water.

Now the technology has been put into practice at a Queensland university swimming pool.

The University of the Sunshine Coast (USC) opened in 1996 with 500 students, becoming the first greenfield university to open in Australia since 1971. Full university status was granted to the institution in January 1999.

Today, with about 8000 enrolled students, USC is on track to reach projected student enrolments of 12,000 by 2015. Located in one of the country's growth regions, it is one of Australia's fastest growing universities, serving the Sunshine Coast and extended region from north Brisbane to the Fraser Coast.

The USC opened its heated stadium pool in 2011. The \$2.1 million 10-lane, 50m Olympic pool was funded by the Queensland Government, the University and more than \$300,000 in community donations and in-kind support.

It is located adjacent to USC's Health and Sport Centre, sports stadium and athletics track.

AIS staff will be able to explain more about Ecoline and its application at the USC pool at their stand at the SPLASH! Pool and Spa Trade Show, on July 25 and 26 at Jupiters Gold Coast.



### University of Sunshine Coast Competition Olympic Pool

- Volume: 2,500,000L
- Ecoline Model: FSRC-850 X 1
- Open to weather
- Sub-tropical climate
- Operating 24/7
- Bather load 250 people/day
- Filtration turnover: four hourly
- Ecoline maintains 2.0 3.0 mg/L of Free Chlorine Residual in the water
- TDS: 1200 mg/L: Chlorides: 468 mg/L (39% of Chlorides in the TDS);
- FSRC-850 chlorine gas equivalent output: 1348g/hour.



#### Origami inspired lounging

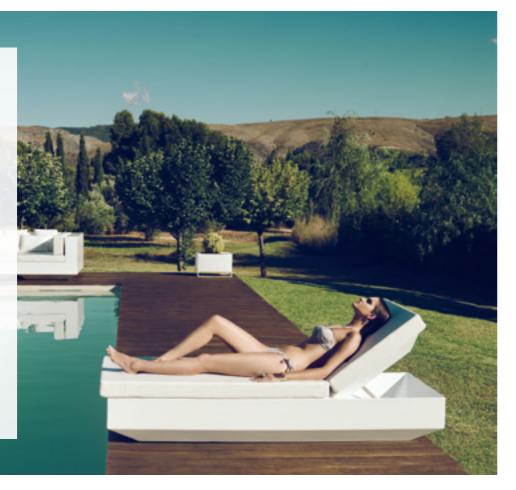
The Vondom Rest sun lounger designed by A-Cero was inspired by origami. The result is a modern, clean and dynamic look.

The Rest collection is a bold collaborative venture between A-Cero, Joaquin Torres Architects, Rafael Llamazares and Vondom.

The collection also includes a series of side tables, dining tables, dining chairs and a modular sofa offered in a sophisticated range of muted tones and vivid white.

The Rest collection is available from Ke-zu. Since its founding in 1992, Ke-zu has focused on delivering an extensive range of residential and contract furniture that reflects living in today's better environments.

Contact: www.kezu.com.au





Fantastic fibre

Who'd have thought fibre cement could be so stylish?

The Swiss E Form range of all-weather outdoor furniture is made from lightweight fibrous cement, consisting of natural materials such as powdered limestone. Because the colour goes all the way though, it lasts much longer and is free from chipping discolouration. Not only does the furniture have a very long life, it can be completely recycled.

The furniture has a substantial appearance, but is actually very light and comfortable. Each item is handcrafted, and you can find the signature of the artist on the inside.

It is designed and made in Switzerland but is ideal for standing up to the tough Australian climate. It is suitable for all indoor and outdoor living. The furniture comes with a five-year guarantee and is available from Mosarte in Sydney.

Contact: www.mosarte.com.au



#### Inflatable brainstorm

Everyone in the pool industry must be familiar with the inflatable plastic concept. But the ingenious Polish architect and designer Oskar Zieta has come up with a new concept: inflatable metal furniture.

Two sheets of 0.5mm stainless steel are laser-cut to shape and joined together. After flat-pack shipping, they are simply inflated with a hand-pump similar to a bicycle pump, and hey presto – super styl-ish outdoor furniture.

Visually arresting, the stools and chairs are comfortable and colourful; and even though they're lightweight, they're incredibly strong and durable. Pictured here is the Plopp stool design.

Textura is the exclusive distribution partner of Zieta Prozessdesign in Australia.

Contact: www.textura.com.au



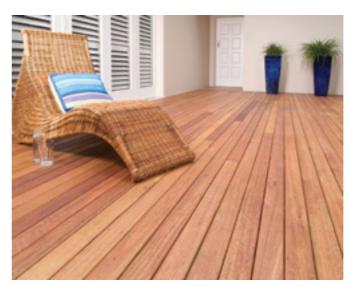
#### Awash with Swash

International Quadratics (IQ) is now distributing Maytronics' Swash robotic pool cleaners.

Eddie Lloyd, Marketing Manager of IQ says that after having the experience of selling the Maytronics commercial cleaner range, they are very happy to take on their domestic cleaner.

"Extensive testing of the Maytronics units has proven to us that these are the most reliable cleaners on the market today," he says. "That fits well with our commitment to only offer high quality products."

The Swash cleaners are now added to the IQ range which includes more than 1000 swimming pool and aquatics products and chemicals. **Contact:** chris@interquad.com.au or (02) 9774 5550



#### Rosy red decking

Boral Timber has access to many sought-after native Australian hardwoods. From the blondes of blackbutt, stringybark, messmate and the unique grain features of spotted gum, tallowwood and Australian beech, to the rich reds of Sydney blue gum, red mahogany and the beautiful pink blushes of New England oak and flooded (rose) gum.

Boral Timber's River Reds decking, pictured here, is pale pink to soft red brown with straight grain and a moderately coarse and even texture.

River Reds has a Janka rating of 7.5. The Janka Hardness Test measures the hardness of wood, and 7.5 is around the middle of the rankings.

Contact: www.boral.com.au

## Accurate pool shop water testing in just 60 seconds

LaMotte's new WaterLink Spin® has revolutionised pool shop water testing. Pool shop owners no longer have to sacrifice accuracy for speed. WaterLink Spin® is a laboratory-grade photometer that analyses a sample of pool water in just 60 seconds.

- Spend less time testing water and more time talking to customers.
- Print reports with results and recommendations using your chemicals.
- Make a more comprehensive analysis of water quality by testing ten different parameters rather than the usual six.
- Three simple steps and no messy preparation means less operator error and hardly any need for operator training.

For more information call Vendart now on (02) 9450 0466 or email us on info@vendart.com.au for more information.



#### Water Quality Testing

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free

For the best FREEBIES at SPLASH, be sure to visit Lo-Chlor at Stand 38.

1800 64 7665 www.lochlor.com.au

...because it works



#### Snake water cannon

Water Park Toys has released a new range of interactive aquatic toys including three new water cannons.

The cannons are much simpler to install than most aquatic play products, are easy for children to operate and can be used in a wide range of settings from backyard pools to community aquatic centres.

They can even be located on a dock above a lake making it a great addition to cottages, cabins and houses located on the water.

#### Zebra water cannon

Unlike traditional aquatic toys, these cannons can be installed or retrofitted to new or existing pools or aquatic facilities without any alterations to the facility or surrounds, as they simply fasten to the ground with four fasteners.

The new water cannon designs are additions to a line of interactive children's aquatic toys being developed by Water Park Toys which require no electrical pump or piping to operate.

#### Red light for go

Schmalenberger says its new LED splotlights last 10 times longer than other products, while only using half the energy.

The German company participated in an innovations program with the German Ministry of Economy and Technology, developing the new underwater LED lighting systems with a power range of 250W to 600W.

The modular underwater spotlights are formed from hexagonal LED diodes, enabling a variety of individually controlled







#### Cheetah water cannon

The 1.1m-high water cannons can be manipulated to spray water up to 7.6m in different directions, and come with interchangeable themed faces which can be custom-designed. They're made from durable fibreglass and 316 stainless steel and have a five-year structural warranty.

The cannons provide an interactive option that lets children learn, innovate and be engaged in the aquatic experience. Contact: www.waterparktoys.com

colours. Schmalenberger says the spotlights are more than just beautiful lights, because compared to energy-saving lamps they are completely divested of mercury, making them particularly environment-friendly.

Additionally, they say that while a halogen spotlight illuminates for less than 5000 hours, the Schmalenberger spotlights have a lifespan of 50,000 to 100,000 hours, and draw much less power.

Contact: www.wfdasia.com



## Cordell

#### Find all the Pool information that you need!

Cordell Information has been reporting on construction industry information for over 41 years. We can tell you **where new pools are being built right** now so you can contact people in your area and get your name in front of potential customers. Cordell also has **historical pool information** as well so that you can directly target people in your industry.

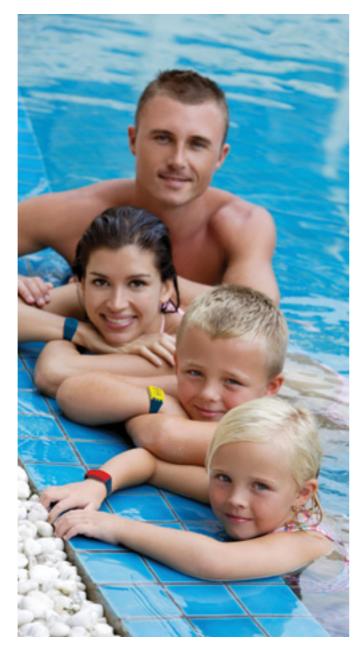
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#### new products



#### Versatile safety

The BlueFox pool safety system is a practical and affordable solution to assist lifeguards.

Made in Switzerland, the BlueFox system comprises two basic components; a submerged wall-mounted ultrasonic sensor and personal monitoring wristbands.

The colour-coded wristbands monitor the behaviour of the wearer and sound an alarm if they get into difficulty. They can operate in any pool fitted with the sensors.

The key point of difference with this system is that the bracelets monitor depth and the time spent at that depth. They are programmable by the pool operator from a minimum depth of 50mm and five seconds, to a maximum depth and time of 1.25m and 95 seconds.

If a swimmer exceeds the programmed time at a certain depth, the bracelet transmits an alarm signal to the underwater sensor and an alarm sounds.

Normal swimming behaviour varies dramatically between different age groups and swimming capabilities, and this system enables more accurate monitoring of a pool's varied clientele.

Contact: chris@deepbluemarine.com.au or (02) 9968 9902



#### BioGuard seasonal kits

BioGuard has launched the first in series of new seasonal maintenance kits designed to make pool treatment easier and more convenient for its customers.

Each kit comes with an A5 brochure, pool protection advice and tips, and suggested products suitable for the season.

BioGuard has also issued updated Technical Information Bulletins for Flooded Pools and Mustard Algae to ensure its pool technicians and retailers provide appropriate advice and are updated with the latest treatments.

The Bulletins are available through the exclusive Retailer Log In area of the BioGuard website.

Contact: bioguard.com.au



#### New handheld range

A new premium range of BioGuard handheld pool accessories was unveiled at their Fiji conference in June.

Most of the range has been specially designed for BioGuard by Pool Systems — Australia's leading manufacturer and distributor of swimming pool and spa equipment and accessories.

BioGuard says its plan was to create first-class products with genuine unique design features. To do this, they partnered with a specialist company that had experience in the design and manufacturing of these products.

The product range includes brooms, leaf rakes and scoops, floating dispensers, thermometers and other measuring products, as well as brushes and flexible vacuum heads.

Contact: bioguard.com.au



### INTRODUCING THE Dolphin Hybrid Robot Cleaner



#### DOLPHIN HYBRID - WORLD 1st -ROBOTIC HYBRID POOL CLEANER

- Robot hybrid technology Exceptional Pool Coverage
- Systematic control never gets stuck in corners
- Wide openings strong suction and leaf grabbing ability
- Active Scrubbing Brush for ultra cleaning



- Using your Dolphin will:
- Save Water, chemicals and energy
- Make your life easier to keep your pool clean
- Saves you time





#### World's first cordless robot

Maytronics' Dolphin Liberty Pro is the world's first cordless robotic pool cleaner. Powered by a lithium ion battery, the robot has maximum suction power and working life with minimal charge times.

"Customers no longer need to struggle with hoses or cables, while difficult-to-reach pool areas are now covered," says Dan Kwaczynski of Maytronics Australia. The Liberty is designed to work individually in pools up to 15 metres. Additionally, multiple cordless cleaners can work in tandem to provide exceptional coverage in larger pools.

Key stats include: 1-1.5 hours cycle time; 2-4 hours recharge time; 15-metre pool size per cleaner; 17,000 litres per hour suction power; cleans floor, wall and benches; uses a gyroscopic optimised scanning pattern.

Contact: www.maytronics.com.au



### Heat from the air

Zane Heating's Adam Shelley says its new Waterco Electroheat MKIII heat pump ticks the environmental, energy efficiency and cost effectiveness boxes.

"It's been built with ozone friendly R410A refrigerant, described as the refrigerant of the future, which has dual benefits. Not only is it kinder to the environment, but it also improves the heat pump's performance," he says.

Additionally, its LED control panel features a continuous digital pool temperature display and incorporates a self diagnosis system. In the event of a problem, the control panel will display diagnostic error codes. Its high density titanium heat exchanger has a long life expectancy and provides total protection against erosion and corrosion.

Contact: www.waterco.com.au



## Incomparable finishing for luxury pools and spas.

Flolux is a must for all luxury pool and spa projects.

The first-class, marine-grade stainless steel fittings are revolutionising the industry in Australia, New Zealand, the Middle East, Europe and Asia. The range now includes the FloJet (return jet), FloJetThreaded (to be used with a threaded faucet), FloFloor and FloAir (air infuser). The soon-to-be-released FloSafe2 (safety suction) will provide builders with a comprehensive suite of incomparable, finished fittings.

For high quality design and construction, it makes sense to finish with Flolux.

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luxury pool & spa fittings



#### **Balou** chair

Satara has launched an extensive new selection of outdoor chairs, including include new rattan pieces ideal for the Australian verandah or indoor/outdoor spaces.

Satara's extended range of rattan chairs now includes the Dania, Balou, Folding Roxy and Wing chairs. The natural rattan has been woven into comfortable designs that reflect a more relaxed era, reminiscent of colonial Asia or early Australia.



#### Dania chair

The comfortable low set Dania chair is ideal for relaxing with gin and tonic while reading a Graham Greene novel or perusing the South China Post

Inspired by international trends but personalised for the relaxed Australian lifestyle, Satara's products provide Australians with stylish products that complement our great lifestyle.

## Aqua-Quip's Innovative **Pool Solutions**

EVO2 - LED FLUSH MOUNTED FOR NEW POOLS

- Variable Voltage 12v AC ~ 32v AC
- no need to change the transformer.
- for easy installation on any cable.

#### There's virtually nothing this cleaner cannot swallow!

- The huge 115mm throat picks up twigs, large leaves, dirt, even golf balls and goggles.
- Large capacity bag compacts up to 3.5 litres of rubbish.
- Automatic reversing mechanism means fewer moving parts.

Relax... your pool has never looked more inviting!



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#### Wing chair and foot stool

The Rattan Wing chair with its accompanying footstool is the ultimate in post-Colonial relaxation

As well as the Rattan range, Satara also stocks a wide variety of outdoor and indoor chairs and other lifestyle furnishings for those with a desire for contemporary style as well as for those with a longing for heritage appeal

Contact: www.satara.com.au



#### Combination sauna room

German sauna manufacturer Klafs has come up with another futuristic design with the Tangram. It elegantly combines a sauna, steam bath, shower area and a relaxation zone

Klafs says that interior architectural trends in Europe are moving in the direction of open room structures where individual areas merge into each other to become beneficially connected living units.

Such is the case with the Tangram, which opens up transparently and provides an interplay of different temperature zones and bathing forms.

Open yet separate, the Tangrem enables the bather to have a sauna and a steam bath, followed by cooling down with a shower and then freshening up in the relaxation area.

The large glass front provides a view of the attractive interior, dominated essentially by the strict geometric structures and the material characteristics of glass, metal and stone.

Contact: www.klafs.com



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Aquafresh is a three-step chlorine-free pool care system from Lo-Chlor. It includes

Aquafresh Sanitiser, Aquafresh Enhance and Aquafresh Performance, designed to be used together on a weekly basis.

Lo-Chlor says Aquafresh Sanitiser contains neither chlorine nor bromine and can be used without any of the inherent side effects such as smell, stickiness and sore eyes associated with those products. It is ideal for allergy sufferers, including those who endure asthma or skin problems.



## **Pool Sentinel**

Pool Sentinel is a patented water care solution that removes biofilm from the walls and floors of pools with one simple treatment each week

Lo-Chlor says that 99 per cent of all bacteria and algae spores live and thrive within the biofilm membrane – a slimy substance that lurks unseen on every surface of a pool, including the walls, ladders, grouting, linings, skimmer baskets, pumps and especially in the pipe work.



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#### Sunscreen Tabs

Sunscreen Tabs are uniquely designed tablets that protect chlorine from ultra violet light thus reducing chlorine demand and allowing it to work more effectively and economically.

The product comes in easy-to-use, fast dissolving and pre-measured 500g tablets which you add directly to the skimmer.

See these products at the Lo-Chlor stand at the SPLASH! Pool and Spa Trade Show on the Gold Coast

Contact: www.lo-chlor.com.au

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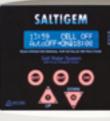
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