



- A sports promenade and community facilities;
- The existing 12,000-capacity Singapore Indoor Stadium.

The Sports Hub is expected to help create a critical mass of international, regional and local sports federations and associations, sports medicine and sports science service providers and sports related training, education and marketing service providers.

It will be well connected to major expressways, is only 15 minutes from the Singapore Changi International airport and will have the newly opened Stadium MRT station right at its doorstep. It will be located next to the Marina Bay area and is poised to ride on the wave of exciting developments at Marina Bay like the Marina Bay Sands Integrated Resort, Marina Barrage, Singapore Flyer and the floating platform at Marina Bay.

RLS launches online network

The Royal Life Saving Society's new Lifeguard Network (ALN) is an online community for pool lifeguards and aquatic professionals.

The ALN website has several features designed to build interest in the Network and lifeguarding, including a regular blog, news service and invitations to Lifeguard Challenge Series events.

In addition members will receive exclusive access to in-service training resources and online access to the Guidelines for Safe Pool Operation. If you have an existing online subscription to the Guidelines for Safe Pool Operation there is no need to register separately for the ALN – you're already a member.

For more information go to www.australianlifeguardnetwork.com.au or www.splashmagazine.com.au for a QuickLink.

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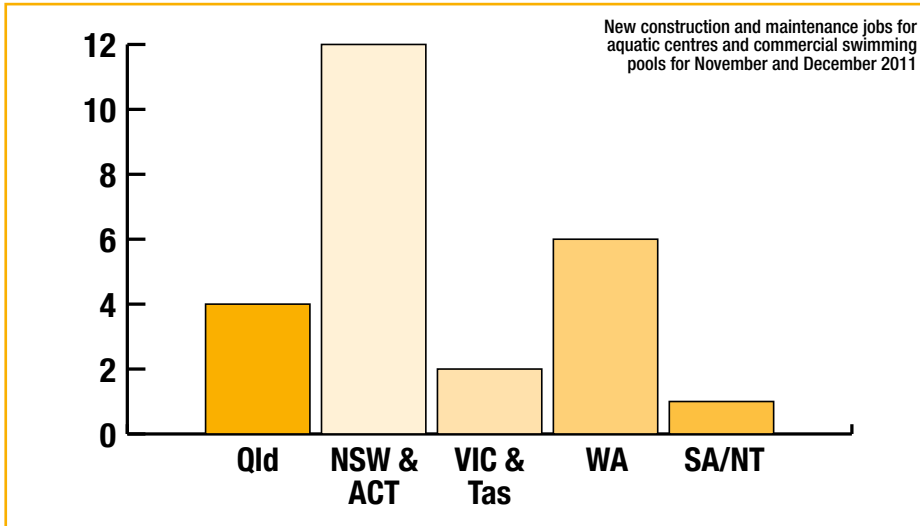
Splasher

Latest commercial tenders

Cordell Information has released data showing new tenders for public swimming pools and aquatic centres for November and December, 2011.

The figures show both construction and maintenance jobs for aquatic centres and commercial swimming pools. Only new business opportunities have been included, not jobs that have been previously advertised.

The figures show tender numbers at 25 in total compared with 44 for the previous period. New South Wales (12) and Western Australia (6) had the most tenders.



Tender of the month

Request for Tender: Upgrade of a public swimming pool filtration system and rectification works.

Location: Boyd Nattress Memorial Pool, South Grafton, NSW

Tender Number: T12/002

A Conforming Tender with all accompanying information must be lodged no later than 10am Wednesday, 29 February 2012.

Canvassing of Councillors or Council staff will disqualify the tender.

For any further information please contact James O'Hara Building Maintenance Coordinator on (02) 6645 0243.

Electronic copies of the Tender documentation can be downloaded from www.clarence.nsw.gov.au/tenderslive at no charge. Hard copies may be purchased for \$100.

For more information on Cordell Information's commercial tender reports, call 1800 674 120.

the children's hospital at Westmead



Kids can drown in inflatable pools too!

By law, all pools that can be filled with 30cm of water or more must have a fence. For more information on safe pool fencing, please visit www.kidshealth.chw.edu.au/projects/drowning-prevention/swimming-pool-fencing

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Better Filtration!

Wet'n'Wild Sydney clears another hurdle

The concept plan for Wet'n'Wild Sydney has been approved by NSW Planning and Infrastructure. Village Roadshow now has until early March to respond to the conditions of consent and go back to the Western Sydney Parklands Trust for what will hopefully be the final stage of approval.

A spokesperson for Village Roadshow said they expect to respond before March, however, with the park planned to open for the 2013 summer season.

The proposal for Wet 'n' Wild Sydney is to be built on a 25ha Prospect site 30km west of the CBD in the heart of the city's growth area and family demographic,



with easy access via close connection to nearby freeways.

It is planned to include the very latest in high-tech rides and features, including Australia's biggest artificial beach and wave pool.

Proposed attractions include Boomerang Bay Surf Wave Pool, Lazy/Adventure River, Extreme River, Tots Island Slides Pool, Tots

Island Giant Spray Pad, Giant Rainforest Waterplay, Double Python/Family Raft Ride, Whizzard Mat Racer (6 Lanes), Duelling Master Blaster, River Grotto/Waterfalls, Double Aqualoop, Freeloop and Freefall Complex, Double Flowrider, Innertube Slides (6 Flumes), Superbowl/Rattler/ High-Speed Drop/Constrictor, Family Boomerango and Abyss, Zip Line and Sky Coaster.

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A vibrant scene on a cruise ship deck featuring a large, multi-colored water slide. A woman in a red and white striped bikini is riding a red and white patterned inflatable ring down the slide, splashing through orange water. The slide is part of a larger structure with yellow and red sections. In the background, other passengers are visible on the deck, and a green slide is also present. The sky is clear and blue.

CRUISING for a splashing good time

A happy passenger on the Norwegian Cruise Line's Epic enjoying the Superbowl ride

Christina DiMartino looks at the swimming pools, aquatic facilities and water features on modern international cruise liners, and finds they are definitely keeping ahead of the times.



Modern cruise ships make the most of the upper deck – here the Norwegian Epic shows off its water park on the water

Until the middle of the 20th century, cruise ships offered passengers little more than shuffleboard, deck chairs, fancy cocktails and board games to help pass the days between ports.

That all changed in 1962 when the SS France hit the high seas. Owned by Compagnie Générale Transatlantique (CGT), a French firm founded in 1861 as a merchant marine company, the SS France was the envy of the cruise line industry. And she was a pacesetter in what was later to follow in ship design and amenities.

At the time of her construction in 1960, the SS France was the longest passenger

ship ever built. The length of 316.1 metres was a record that remained unchallenged until the construction of the 345 metre RMS Queen Mary 2 in 2004.

Using the ship's versatile design to its full potential, CGT could send the SS France on more cruises during the winter, which was off-season for the Atlantic trade.

One design flaw, however, was revealed when the ship reached warmer waters: her two swimming pools, one each for first and tourist class, were both indoors. The first class pool sat deep within the ship's hull, and the tourist class pool on an upper deck, but covered with an immovable glass dome. The latter

is said to have been the more aggravating in hot weather. The ship also had limited outdoor deck space, with much of what was available protected behind thick glass windscreens.

These were useful on the North Atlantic, but frustrating when blocking cooling breezes in the tropics. The Queen Elizabeth 2 is reported to have also suffered from similar problems.

Despite these flaws, the SS France made history. Besides carrying many of France's film stars and aristocracy, she also carried the Mona Lisa from Le Havre to New York, where the painting embarked on an American tour. For two weeks in July 1967, she docked at the Île Notre-Dame in Montreal, Quebec,



The Superbowl is just one of the waterrides available to passengers on the Norwegian Epic



The astounding AquaTheatre is one of the key reasons passengers love to travel on the Royal Caribbean International's Allure of the Seas and Oasis of the Seas

Canada, acting as a secondary French pavilion at the 1967 World's Fair, Expo 67.

It must have been a sad day for those who knew the majestic ocean liner when she was scrapped in Alang, India in 2008.

Things are much different on cruise ships today than they were when the SS France first took to the seas. Now it's rare to find a commercial cruise ship that holds more than a couple of hundred people without at least one swimming pool or a spa – not to mention more exciting aquatic amenities. Today, people gravitate to cruising for the experience—not simply to get from point A to point B.

What's in a cruise ship design?

A lot, according to Marine Insight, an online publication that provides in-depth news and

articles on maritime, cruising, boating and offshore industry. A cruise ship designer needs to have innovative and non-repetitive ideas. This is because the interior and the various areas inside also matter a lot in terms of the vessel's popularity. The interior areas do not only mean the suites of the ship but also include the areas set aside for entertainment and other recreational purposes. The shipping design has to be such that the people and the tourists coming on-board have to be impressed and astounded by the overall utility and uniqueness of the vessel's design.

Today, cruise liners have become a source of great revenue for shipping companies. This is why it is imperative for the ship designer to create a design that will keep the tourist hooked. People choose their cruises

taking into account the facilities that the ship can offer. Therefore the ship designer has to ensure that the design has the best possible amenities without cluttering the ship or making it look shabby.

The cruise ship construction market is dominated by a small list of companies: one in Asia and the remainder in Europe. Ship design staff usually includes swimming pool and spa designers. These onsite experts know about ballast and how to build a body of water on a vessel that will itself float in a body of water.

The Royals

Royal Caribbean International's Allure of the Seas and Oasis of the Seas cruise ships are tagged "The Nation of Why and Why Not." They are two of the world's largest passenger ships. Each is approximately 362 meters



The result is an architectural marvel, The Oasis of the Seas is currently 50-percent larger than the largest cruise vessel in the world and said to offer a “complete sensory experience” for its passengers.

“With the design concept complete, the challenge to Crystal Fountains was to make it all work,” says Dilya Abushayeva, marketing specialist for the firm.

“Involvement on a ship considered revolutionary required tremendous collaboration in project management as well as ingenuity in product and systems design. For passenger safety, the design adhered to the most stringent health and safety guidelines including all water being in constant circulation.

“Modern shipbuilding uses prefabricated block construction techniques,” she says. “So, for example, the control panel had to be installed before any of the other work on the AquaTheatre – requiring comprehensive assumptions and design flexibility.”

The Oasis of the Seas’ swimming pool in the AquaTheatre is 5.5 metres deep. It was built with a 750-seat arena, two surf machines and many fountains. Suspended above it are two climbing walls, diving towers and even a trapeze.

The Stars

Star Cruises (Hong Kong) Limited, headquartered in Tsimshatsui, Kowloon, Hong Kong, has four fleet cruise liners. “They all have nice swimming pools and spas,” says Cat Choy, marketing and product development representative.

“SuperStar Virgo cruises the straits of Malacca, Andaman Sea and South China

Sea covering destinations across Singapore, Malaysia and Thailand. The SuperStar Libra breezes through the exotic paradises of Penang, Phuket and Krabi. SuperStar Aquarius cruises to the tropical paradises of Sanya, Halong Bay, Hue and Danang, and the passengers on the Star Pisces enjoy one-night cruising to the South China Sea.”

The SuperStar Virgo is 268 meters and can accommodate 1870 passengers. It also has 100-metre mega waterslide.

In January 2012, the SuperStar Virgo underwent a \$US25 million refurbishment, including revamp of her cabins, facilities and a new hull design. The three-week dry-dock renovation began on January 2 and the vessel returned to service on January 23: the first day of Year of Dragon.

“For more than a decade, she was an Asian icon,” says Choy. “Now this grand lady is ready for her next curtain call, keeping true to her essence. The open deck is a cruise ship’s magical portal to the celestial arena. Taverna, a stage designed for live music of all genres, will be added next to the Parthenon Pool. Serenading and upbeat tunes will add a new dimension to water fun and pool parties.”

The rejuvenation of the SuperStar Virgo follows the refurbishments of the Star Pisces and SuperStar Aquarius in 2011, with a combined cost of \$US13.6 million.

The Suns

For explorers and adventurers, Abercrombie & Kent’s numerous cruises take passengers to exotic, historical and exploratory destinations throughout the world. The Australian company, headquartered in South Mel-

with 16 decks and both have a capacity of up to 6318 passengers.

One of the spectacular features is the AquaTheatre at the stern of each ship. They are swimming pools by day, but in the evening they are transformed into a series of entertaining water shows—the first time a cruise ship has offered this feature.

The designers and contractors knew where to go to find the world’s experts in AquaTheatre. Their water feature designers, Fluidity Design Consultants in Los Angeles, California, worked closely with fabricator and choreographer, Crystal Fountains, which has offices in Toronto, Canada, and in Dubai, United Arab Emirates, to test stringent engineering and safety considerations and manufacture custom components suitable for the environment.



Most ships have more than one pool, to cater for the differing passenger demographics. Here we can see two of the pools on P&O's Oceana



bourne, has two cruise ships in its fleet that travel the Nile River in style fit for Cleopatra. These smaller-sized vessels are outfitted with elegant features and details, including luxurious pools and spas.

"Sun Boat III's elegant accommodation comprises 18 cabins in total," says Celeste Oehme, marketing representative for A&K. "Two Royal Suites with balconies are located on the Tower Deck, while there are two Presidential Suites on the Promenade Deck, and 14 Luxury Cabins on the Nile Deck. All are fully air-conditioned with panoramic windows and private bathrooms. Satellite television with in-house movies, CD player, direct-dial international phone, safe and mini bar are among the features of these luxury cabins and suites."

The Sun Boat III operates seven-night cruises between Aswan and Luxor, Egypt, and is featured on A&K's Land of the Pharaohs itinerary.

Sun Boat IV's superb accommodation consists of 36 luxury cabins and four suites. Two Royal Suites with balconies are located on the Promenade Deck, while the two Presidential Suites are situated on the main deck and the luxury cabins are scattered throughout the boat.

"The suites are beautifully appointed yet perfectly designed for maximum functionality," said Oehme. "It too cruises the Nile, operating three and four night cruises featuring A&K's Nile in Style and Egyptian Sojourn itineraries."

The Carnivals

Carnival Corporation has 24 cruise ships in

operation, and all have a lido deck outfitted with at least one swimming pool, and some have two or more.

James O'Shaughnessy is the director of the Interior Design and Architecture-Corp Ship Refit division for the company. He explained that a ship is a "flexible" construction, constantly moving and flexing with the forces imposed by the motion of the sea.

"Tiles have to be specially installed so as not to delaminate from the structural panels," he says. "Pools must have specially constructed wave breaks, as the motion of the ship transfers into wave motions within the pool itself, which if not properly designed, will cause water to spill out on decks.

"Various trunk lines run throughout the ship, and placement of facilities must take into account a number of vertical shafts and

portions of low ceiling height, to accommodate the intricate HVAC systems incorporated into a vessel," he says.

O'Shaughnessy says the shipyard builds the swimming pool tank as well as the basic spa infrastructure as part of the construction process.

"Subcontractors provide the pool machinery and any specified tile work," he added. "The shipyard has the resident expertise for the spa steel and technical infrastructure, while the rooms' décor is installed by a subcontractor, based on the owner's architect's designs."

The Silvers

All six of Silversea Cruises' ships are equipped with swimming pools and/or spas says Cait Gargett, Asia Pacific marketing and sales manager for the Sydney-based company.



The Sun Boat takes passengers down the Nile in opulent style – and the natural shape of the onboard pool makes the trip even more memorable, while providing relief from Egypt's hot climate

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Spas are just as important as swimming pools, and offer considerable relaxation on a voyage. This spa is on a Silverseas cruise ship



Aquatic facilities are used heavily in the marketing for cruises – this image from Star Cruises bristles with the promise of a good time

“Four of our vessels have a pool, two whirlpools and a spa,” says Gargett. “One has a pool, three whirlpools and a spa. Our expedition vessel has two whirlpools and a Jacuzzi spa.”

Silversea Cruises’ vessels travel world-wide. The Silver Cloud and Silver Wind carry 296 passengers each. The Silver Shadow and Silver Whisper each carry 382 passengers. The Silver Spirit, the largest of the fleet of ships at 199 metres can accommodate 540 passengers. The Silver Explorer, the smallest of the fleet, carries 132 passengers.

The Disneys

Mickey Mouse, Donald Duck, Goofy and Nemo and all their friends wouldn’t think of creating a cruise line without fun-in-the-sun water amenities.

Disney Cruise Line’s Disney Dream and Disney Fantasy ships offer the AquaDuck, a thrilling transparent tube water coaster that propels guests on an exciting journey off the side of the ships, through the forward funnels and down four decks into a lazy river.

And if passengers have any breath left, they can splash into more fun in the AquaLab aboard the Disney Fantasy. This 167m² water play area features pop jets, geysers and bubblers.

The Disney Dream and Disney Fantasy cruise ships are each equipped with a Donald’s Pool. Both pools are approximately 1.6 metres deep with a delightful picture of Donald Duck on the pool bottom.

Goofy’s Pool is a family pool located mid-ship aboard the Disney Magic and Disney Wonder ships. They are each four-feet deep with a charming portrait of Goofy on the pool floors. These pools also feature two whirlpool spas, which is perfect for parents wanting to relax while keeping a close eye on their children.

Mickey’s Pool was designed for children, and there is one on all of the Disney ships. The pools include a 600mm deep main pool with Mickey Mouse’s smiling face on the floor, and nearby is a twisting one-deck high slide.

Nemo’s Reef, on the Disney Dream and Disney Fantasy, is a whimsical water play area featuring pop jets, bubblers and fountains. It stars characters from the Disney-Pixar film Finding Nemo.

But Disney Cruise Line took extra care to ensure adults have some private time in the water. All four ships feature adults-only 1.6 metre deep main pools, ideal for those moments when parents want a relaxing escape in a subdued environment.

Disney Fantasy also offers Satellite Falls, an adult-only area for lounging in the sun or cooling off in the circular splash pools which features benches and a gently cascading rain curtain.

The Grands

All seven ships in the P&O Cruises fleet have swimming pools and spas. The Southampton, UK-based cruise ship line offers exclusively adult as well as family cruises that span the globe. The ships’ accommodations range from 710 passengers on the Adonia to 3100 passengers on the Azura.

“Our cruise ships travel to the Mediterranean, Norwegian Fjords, Baltic, Canary Islands, Belgium, Spain, France, Atlantic coast and the Caribbean,” says Jessica Reid, public relations executive for P&O Cruises. “In addition to this, once a year some P&O ships embark on world cruises. Currently the Arcadia, Aurora, Oriana and Adonia are on world cruises taking in destinations that include Alaska and Canada, USA and Mexico, the Pacific, the Caribbean and Bahamas, South America, India and Sri Lanka, South Africa, the Mediterranean, the Middle East,

Australasia, the Far East and the Orient.”

Reid says that the biggest challenge in building a swimming pool or spa on a cruise ship is the size and volume, and where to position them on the vessel.

“Too high in the ship, or too deep, it would result in significant movement of water with the movement of the ship,” she says.

The pools and spas on P&O ships are constructed in their entirety by the shipyard using off-the-shelf standard marine pool pumping and filtering equipment.

Minds behind the water features

WhiteWater West Industries Ltd, headquartered in Richmond, Canada, is internationally known for its waterparks and aquatic attractions. Its expertise extends to design, engineering, manufacture, project management, construction and supervision of projects.

Melissa Kaerne, marketing communications specialist, says the company has developed long-standing relationships with several of the world’s largest cruise ship companies.

“We’ve completed 25 cruise ship projects since the 1990s,” she says. “Carnival Cruise Lines was our first client. We developed water features for the Disney Dream vessel, and the Acrylic Master Blaster for the Disney Fantasy, which is scheduled to be operational in spring of this year.”

Kaerne says that designing a transparent Master Blaster was a feat of innovation due to the number of unique engineering challenges met throughout the development process.

“A fundamental test of this attraction was to ensure a complete view of the ship’s deck was not lost, but that is extremely difficult to achieve on a cruise ship,” she says.

“A regular waterslide on land requires a certain amount of slope to push guests through. To overcome the lack of slope, we



A swim up bar on a Star Cruises ship – many people would only expect to find this type of facility on dry land



Carnival's Champagne Bowl ride

realised the great need for acceleration and determined that a customised Master Blaster would solve this problem with our gravity-defying, patented technology.”

A second challenge was to accomplish a completely transparent flume with amazing views that could also withstand harsh and unpredictable conditions, including thermal expansion.

“Our in-house team of experts put their

heads together and found a solution that has never been done before – not even on land,” says Kaerne. “It is a brilliant design with 10 acrylic sections held together with specialised connectors.

“The final and most critical challenge was ensuring ride safety. Countless hours were spent on testing the ride for any and every possible ‘what if?’ scenario. Not only were computational fluid dynamics’ studies com-

pleted to ensure that waves and ship movements would not affect the water coaster’s operation, but we even created a full-sized mock up in the WhiteWater parking lot.”

The serious side

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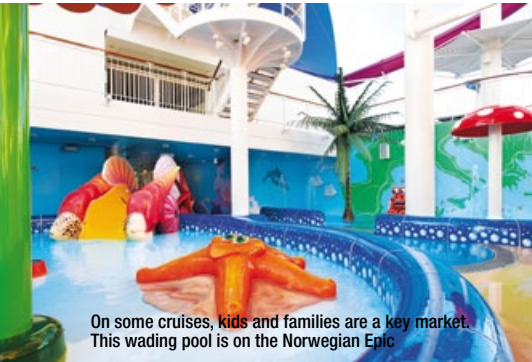
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WhiteWater West developed technology specifically for the cruise ship market – here we see Disney’s see-through ride where passengers zoom out over the ocean



On some cruises, kids and families are a key market. This wading pool is on the Norwegian Epic



There is also a need for a kids-free pool, so adult passengers can relax in a more demure environment.

The International Maritime Health Association, the sole international association concerned exclusively with maritime health, includes professionals from a wide range of disciplines who are committed to improving the health of seafarers by developing better approaches to health protection, health promotion and health treatment both locally and internationally.

It says that some cruise ships include more than five recreational pools and that spa pools are becoming increasingly popular because of the health benefits they provide.

However, its document on International Maritime Health also states that swimming pool water has been identified as a vehicle for diseases. “As on land, infectious agents can be easily introduced to a ship pool via bathers, from dirt entering the pool, or from the water source itself. Once in the spa pool, suitable conditions often exist for these infectious agents to grow and proliferate. There have been several examples of people contracting infections from spa pools, for example Legionnaires’ disease [as reported by the Health Protection Agency, 2006].

“Flowthrough seawater swimming pools on cruise ships and ferries may present additional risks if the source sea water is polluted [attributed to the World Health Organization, 2006],” the report continues. “Passenger ships often have extensive management and maintenance systems in place for the safe control of recreational water on board, such as automatic dosing of pool/spa water with halogen disinfectants. They can also have extensive systems for the control and monitoring of parameters such

as halogen (chlorine and bromine) levels, temperature, pH, and alkalinity, as well as routine backwashing, pool/spa cleaning systems, water filter checks, and the regular sampling of water quality.”

Awareness by the pool and spa industry

The National Swimming Pool Foundation offers its members a PDF form of the Centers for Disease Control and Prevention (CDC) Safety Regulations for Cruise Ship Swimming Pools and Spas. This document states that flowthrough seawater supply systems for swimming pools shall be used only while the vessel is under way and at sea beyond 20 kilometres from nearest land.

“The pool shall be drained before the vessel reaches port, and it shall remain empty while in port,” the document states. “If the pool is not drained before arriving in port, the pool’s seawater filling system shall be shut off 20 kilometres (12 miles) before reaching land, and a recirculation system shall be used with appropriate filtering and halogenation.

“No bathers shall be allowed to use the pool before a free residual halogen of 1.0 mg/L (ppm) is achieved.”

For cruise ship pools that use recirculated water, these specific rules apply: “Recirculated swimming pool water shall be filtered. Filter pressure differential shall be monitored, and the filter shall be backwashed as recommended by the manufacturer. Filter media shall be examined and changed as recommended by the manufacturer. Swimming pool filter pressure gauges and valves shall be replaced when they are defective.”

The document also states that operating manuals for all recirculating swimming pool components such as filters, pumps, and halogenation shall be maintained aboard the vessel in a location that is known by and is accessible to crew members who are responsible for the pool’s operations and maintenance.

The recirculated swimming pool water flow rates, pH, alkalinity, and clarity shall be monitored and adjusted as recommended by the manufacturer and to maintain optimum public health protection. A faecal accident response procedure shall be documented and available for review during inspections.

The document, available at splashmagazine.com.au, covers all other required operating procedures that could affect the health of cruise ship passengers, including filtration, chemical application, halogenation and includes rules that apply to whirlpools and spas, including the laws related to data keeping.

Swimming pool and sanitary piping is another big difference in cruise ships. With existing piping used for water supply, fuel and other purposes, cruise ships have added piping to maintain sanitation aboard the vessel. Due to the large number of crew and passengers on board, the vessel must be installed with a sewerage tank for storage of liquid and solid waste while on voyages, and vessels with swimming pools require an added swimming pool purification plant installed within the vessel.

Many cruise ship swimming pools are not big, but nevertheless they require purification plants to keep the pools clean and safe for passengers to enjoy. ☺

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LUXAFLEX has launched the Evo Range of contemporary designer awnings to help make the outdoors more comfortable, while improving the overall look of the poolside space.

The awnings are functional, attractive and come in five styles – providing different guiding options and a choice of motorised or manual crank control. The styles are the Evo STC, Evo Channel, Evo Cable, Evo Drop and Evo Pivot.

Jenny Brown, Luxaflex Marketing Manager, says that the new range was designed and engineered in Australia, with particular focus on Australian weather conditions – from windy coastal regions to enclosing an outdoor living space with no gaps to control insects.

The awnings come with new wider widths of up to five metres in the one piece, a choice of a modern sleek headbox or exposed fabric, and a selection of fabrics from EverScreen external screen fabric, acrylic, clear PVC or canvas.

The unique headbox design makes fitting easier, allowing the awning to suit more applications while the bottomrail fully encloses the fabric hem for a neat finish.

“The Evo STC is a tension system holding the fabric secure in the side channels. It is ideal in windy conditions as the fabric can’t blow out of the channel,” says Brown. “This is ideal for enclosing courtyards, patios or balconies, essentially adding an extra room.”

Both the Evo STC and Evo Channel Awnings provide privacy, UV protection and insect resistance. They feature a two piece side channel which covers any unsightly screws for a clean, modern finish.

“The Evo Cable Awning is a sturdy system which is very durable and

Evo Drop awning



is the best option when fixing a channel to a wall is not possible,” says Brown.

The Evo Drop Awning is designed for use when there are no posts or walls to mount to, and the awning cannot use side channels or guides. The awning is strapped to the ground or railing to secure it from swinging in the wind.

The Evo Pivot Awning is for homes with windows that open out and require air to flow behind the awning. A heavy duty spring in the pivot arms provide excellent fabric tension for awnings up to five metres wide.

All awnings are available in various fabric options including the EverScreen External Screen Fabric range in 24 colours, which includes 12 new colours of which two are uniquely designed and exclusive to Luxaflex.

Luxaflex awnings are backed by a five-year warranty, excluding PVC fabric which has a 12 month warranty. For more information call 13 58 92 or go to www.luxaflex.com.au.

WINDSONG OUTDOOR COLLECTION

THE outdoor Windsong collection of teak seats, benches and ottomans celebrates cutting edge technology, combining smooth curves and comfort in sculptural masterpieces. The designs are shaped to match the form of the human body and take inspiration from organic shapes in nature.

Created in timber sourced from sustainable teak forests, these high quality products just get better with age, so if left outside and exposed to weathering, the wood will turn a beautiful silvery grey. High tensile marine grade stainless steel used for joinery ensures that the benches and chairs will stand the test of time.

They are suitable for both indoor and outdoor, and commercial and domestic use. Available with straight or curved backs, with shoulders or as benches, they are currently enjoyed in a wide variety of locations from residential courtyards to tropical island resorts.

For more information call Tokens on (02) 9979 3056, email office@tokens.com.au or visit www.tokens.com.au.



KIRV LOOKING FOR AUSTRALIAN DISTRIBUTORS

FEATURING organic curves, sweeping lines and eye-popping colours, the surprisingly comfortable ergonomically designed range of stainless steel furniture from Kirv can create a buzz in any residential or commercial outdoor space.

The seats are made from stainless steel, which is made from approximately 60 per cent recycled material. Stainless steel is also 100 per cent recyclable and requires minimal maintenance – a quick wipe down to remove dirt is all that's needed.

The seats are designed and handmade by Kirv in England. Be-

ing handmade means they can be adapted easily to complement existing schemes – curves, diameters and lengths can all be altered. The seats are then finished by either electro-polishing the metal, or powder coating them in a range of zesty colours.

As the Kirv seating is made from stainless steel, it's ideal for being used poolside. The seats can also be supplied in marine-grade stainless for coastal locations. They are good in the sun too, as the tubed surface of the seats means only a small surface area heats up. The powder coated finish also helps reflect the sun's heat.

Kirv currently ships around the world to commercial and residential customers, but they are keen to develop a relationship with someone in Australia to distribute their seating products.

For more information email Kim Moore at kim@kirv.co.uk, call +44 (0)778 685 2325 or go to www.mooredesigns.co.uk.

From left to right:
Hi-rise bench; Kirv Nest; Bench with tabletop;
Kirv Otto; Bench with tabletop and tree





BARGAIN PRICED FRENCH OUTDOOR FURNITURE

WOULD you like a 12-piece outdoor setting for \$10,000 or \$4444? Buying through newly launched French outdoor designer Osier Belle, you can get the suite for the latter.

Superior quality wicker, modules that are wider and deeper, solid framework that has a three-year warranty and to top it all, 17cm thick all-weather cushions that Osier Belle

proudly claim to produce exclusively in Australia.

For more information go to www.osierbelle.com.au or call (02) 9948 2626.



Behind the wall



The hose connection



The installed Safe'T'Suction when not in use

NEW FROM WATERCO

Davbroz Safe'T'Suction

THE innovative Davbroz Safe'T'Suction pool cleaner connection system is now available from Waterco.

The patent-pending wet-edge pool cleaner connection system is an Australian innovation and Australian-made.

“For standard wet-edge pools without a skimmer box, there’s no easy or safe way to install a suction pool cleaner or to manually vacuum the pool or catch tank,” says Waterco group marketing director, Bryan Goh. “The Davbroz Safe'T'Suction offers a great solution and is now available from Waterco right across Australia and New Zealand.”

Davbroz director Ray Davidson says that the Safe'T'Suction has been designed by pool builders for pool builders and addresses a real need in the swimming pool equipment market.

The Safe'T'Suction offers pool owners a safer way to clean wet edge pools where a skimmer box cannot be fitted, by providing a safe vacuum connection point for manual and automatic pool cleaners.

The Safe'T'Suction can also be combined with a skimmer box for more convenient pool cleaning and can be fitted anywhere on the suction line before the pump – in or out of the water – which makes the Safe'T'Suction perfect for manual cleaning water features, ponds, catch tanks and spas.

The Safe'T'Suction is designed and tested in Australia to meet Australian standards and guidelines for safety and efficiency, and carries the worldwide UL certification NSF/ANSI 50 mark for Swimming Pool Equipment.

“Safety is of paramount importance at Davbroz,” says Davidson. “With the Safe'T'Suction, there is no danger to swimmers if it becomes disconnected, as normal safe circulation resumes immediately.”

For more information go to www.davbroz.com.au.

Digiheat gets a makeover

WATERCO'S Digiheat inline electric heaters have been given a major makeover. The new digital heaters have a greater set of features than their predecessors – and at a lower price point.

Goh says they rebuilt the heater from the ground up, used a more durable heating element and increased longevity by replacing the steel housing with non-corrosive, UV-stabilised thermoplastic.

Digiheat's streamlined shape features a horizontal orientation and soft, rounded edges. Its compact versatile design enables it to sit unobtrusively in the spa equipment area. In addition, the weight of the heaters has been decreased.

A key feature is Digiheat's digital control panel, which provides 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.

The new Digiheat also comes with built-in safety devices which prevent overheating via a special sensor which shuts down the system in the event of no water flow.

The Digiheat is available in single-phase and three-phase models, which feature four-button programming. The polymer coated, Incoloy alloy heating element improves corrosion resistance, increases heating efficiency, and extends the product life.

It is available in a range of sizes: 4.8kW, 6kW, 18kW and 24kW.

For more information go to www.waterco.com.au.



Casena



CLEAR AS A SAUNA

GERMAN sauna manufacturer Klafs says the new trend in saunas this year is clear.

Transparent saunas made a splash at the imm cologne – the German furniture design fair held in January this year.

Klafs displayed two transparent saunas, which are suitable for either domestic installations or commercial applications.

The new designer sauna Casena has a frameless glass front, revealing a view into the interior. While the outer and inner cladding of the Casena is defined by dark, earthy tones of wengue wood, the ceiling of the sauna features a starry skyscape with myriad points of light.

A particular eye catcher of the Casena is the innovative bench concept. Without any visible substructure, the benches appear to float in the air. This gives the room lightness and creates space.

They also exhibited the designer sauna Lounge Q for residential interiors. Here, the glass was used impressively for a large-scale corner glazing element. For the interior of the Lounge Q is clad in hemlock. A special feature of this sauna is the coloured lighting with ‘liftlights’, which create different moods with various shades of colour and also have a positive, firming effect on the skin’s collagen.

For more information go to www.klafs.com.

Lounge Q





Aqua Black 3232 bikini from Vici

MORE BRANDS IN VICI CATALOGUE

VICI swimwear has recently added more stylish cuts and colours to its exhaustive range of quality swimwear.

Vici says it is rapidly becoming one of Australia's flagship swimwear brands. For the past decade, the locally owned and

operated company has focussed on providing the aquatics industry with quality garments at competitive prices.

For further information on the latest colours and styles contact sue@vici.com.au or go to www.vici.com.au.

CSIRO SAYS POLYSOFT IS SLIP-FREE

GOSFORD-BASED company PolySoft has reported that the CSIRO has awarded their Australian innovation a Class C for the wet/barefoot ramp test – the highest possible result for slip-resistance. Additionally, PolySoft achieved a rating of R10 for the oil-wet ramp test.

As well as the independent testing by the CSIRO, AMS Laboratories tested the surface's resistance to fungi. The result showed zero growth after 28 days of incubation, confirming that PolySoft does not support the growth of fungi and is therefore fungistatic.

PolySoft is manufactured using a combination of flexible and durable coloured polyolefin particle and an aliphatic polyurethane binder specifically formulated to meet strict quality guidelines.

The surface doesn't fade and the particles are designed to reduce surface heat for barefoot play. PolySoft can be pressure cleaned or chlorine-washed without damaging the integrity of the product.

There is an extensive choice of colour combinations for outdoor areas, giving designers, architects and clients the freedom to be creative.

Cable Beach Resort recently chose PolySoft when installing their new water park which included exciting interactive spray equipment for younger guests. North Star Big 4 Holiday Park in Hastings Point also recently installed the product, and PolySoft reports positive feedback from both locations – in particular, the cool comfort for little feet.

For more information call 1300 308 037 or email info@polysoft.com.au.



Cable Beach Resort recently installed PolySoft at their new water park



BLASTING WITH EASY-INSTALL WATER CANONS

CRAIG White of Water Park Toys says their new water cannon is much simpler to install than most aquatic play products, is easy for children to operate and can be used in a wide range of settings from backyard pools to community aquatic centres. Unlike traditional aquatic toys, it can be installed or retrofitted to a new or existing pool or aquatic facility without any alterations to the facility or surrounds, as it simply fastens to the ground with four fasteners.

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

The 1.14m high water cannon can be manipulated to spray water up to 7.6m in different directions and comes with interchangeable themed faces which can be custom designed. It is made of durable, long lasting fibreglass and 316 stainless steel accessories and has a 10 year structural warranty.

The water cannon is the first in a line of interactive children's aquatic toys being developed by Water Park Toys which require no electrical pump or piping to operate.

"In just 20 minutes the water cannon can be installed and the fun begins, whether it's in your own backyard or a community aquatic facility," says White.

For more information, go to www.waterparktoys.com.

NEW FROM BIOGUARD

Smarter stabiliser bags

BIOGUARD has improved its product packaging for stabilisers with a block bottom bag. The new solid block bottom enables the stabiliser bag to sit upright on the shelf, making labelling and consumer information clearly visible to consumers. It also enables BioGuard retailers to display and stack the product upright in two layers on each shelf.

This redesign was carried out in direct response to retailer feedback.

During the development phase, BioGuard undertook extensive product testing, including conducting a series of rigorous drop tests. As a result, the final product is made from stronger and more durable material than the original without over-packaging.

BioGuard Stabiliser is available in 1kg and 2kg bags and a BioGuard Salt Pool Stabiliser is available in 2kg bags. The latest supply of these products features the updated pack graphics and is ready for distribution.



Revamped water testing range

THE BioLab Water Testing range has been revamped, featuring more products, higher quality and better value for money than ever before.

BioLab says its water testing range is the most comprehensive in Australia and New Zealand and provides fast and accurate water analysis.

Two exciting new products in this range include a consumer-oriented at-home test kit and a new electronic TDS and salt meter for commercial use — half the price of previous versions and much simpler and quicker to use. The packaging across the entire range has been completely redesigned and the end result is a full-colour range with a fresh, modern look and feel.

New sales display boxes will accompany the delivery of every product to help retailers successfully promote this new range to consumers and boost sales.



Proguard range of commercial products

PROGUARD is BioGuard's new trade range of pool and spa care products. This range is specifically created to help service professionals keep commercial pools sparkling.

ProGuard supplies everything pool and spa professionals need to keep pools clear, inviting and free from algae and bacteria growth — the diverse range of products stretches from algaecides to sanitisers, oxidisers to balancers.

The range utilises the same high-quality BioLab technology with seven new sizes and the addition of a brand new product, Alum, for clearing cloudy pools. ProGuard is set to replace BioGuard's bulk products range and is packaged and ready to hit the shelves.

For a ProGuard product catalogue go to www.proguardpoolcare.com.au, email au.customerserviceenquiry@chemtura.com or call 1800 635 743.



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NEW FROM POOLRITE

POOLRITE National Brand Manager John Hardy says the release of their two latest products will revolutionise the process of pool and spa water care throughout the world.

Poolrite's two pieces of innovative new equipment, released to complement the award winning Ecosystem sanitation unit, are the Gemini Twin pump and the Outdoor Computer.

"These products really have a 'wow' factor; the Gemini pump is simply easy, energy efficient and super-intelligent, while the Outdoor Computer makes operation of this sophisticated technology as easy as the press of a button."

Gemini Twin

THE new Gemini Twin energy efficient multi-speed pump has been designed for ease of operation and reliability.

Hardy says it contains many unique features, possesses a seven star energy rating and is "future ready".

"Unlike the vast majority of multi-speed pumps using DC brushless technology that have proven to be somewhat unreliable and costly to repair or replace, the Gemini Twin is based on proven and reliable induction motor technology," he says.

Hardy says that perhaps the best advantage of the Gemini Twin pump is its remote control.

"We all know pool equipment is generally installed out of sight or tucked away in inaccessible places, which makes turning a multi-speed pump from 'high speed' to 'low speed' a chore. Often, once the novelty wears off, so does the effort to change the pump speeds," he says.

"However, the Gemini Twin Pump has a remote control range up to 25m, so changing pump speeds is just like changing the channel on TV. All functions and modes of the pump can be controlled via the remote including a 'stop' button in case of an emergency or suction entrapment."

The Auxiliary function is available for use with Poolrite's new Outdoor Computer to control the use of the power outlet socket in the base of the box.

"This means you can control lights, heaters or a water feature," says Hardy. "When these other types of accessories are powered through the Outdoor Computer, the pump is plugged into a second power source and the controller will remotely operate the pump."

The unique and patented operating modes of the Gemini Twin are designed to 'sync in' with all good pool maintenance regimes.

The Gemini Twin's Auto mode alternates between 'high' and 'low' speed each time the pump is powered up; for example, 'high' speed may be used in the morning to operate a suction cleaner, while 'low' speed in

the evening will achieve skimming, filtration and sanitation.

"This makes it perfect for operating Poolrite's Triphibian semi-automatic suction cleaner and MkII skimmer box with the twin weir doors," says Hardy.

Sync mode will change or reverse the sequence of the Auto mode, and its alternation between 'high' and 'low' speed. Finally, the pump's Boosta mode immediately runs the pump on 'high' speed for 30 minutes for rapid pool cleaning prior to or after swimming. Following the 30 minutes the pump will revert to its previous operating state.

"To top off this long list of impressive features, the Gemini Twin is DRM (Demand Response Management) ready," he says.

"DRM relates to AS4755-3-2 currently being drafted specifically to control swimming pool pumps during peak electrical demand periods."

The Outdoor Computer

THE Outdoor Computer is a 'smart programming' drive system for a pool, ensuring users can efficiently and effectively control their systems' equipment operations, from sanitiser output to key functional settings and multi-speed pump run times. All options are available at the touch of a button.

Sanitiser control is delivered through the innovative Leonardo cell. Its unique roller coaster design provides low pressure and high velocity water flow compared with traditional sanitiser cells, thus requiring less energy to maintain flow and deliver superior cell performance.

"With Leonardo, you have the ability to mount it horizontally or vertically and, given its low maintenance robust design, you're guaranteed superior cell life through the use of nickel molybdenum alloy plates," Hardy says.

"We know for ourselves how reliable this product is. That is why we have no hesitation in offering comprehensive warranty on all products."

The Outdoor Computer functional control includes:

- pH Dosing: semi-automated probe-less pH control as standard.
- Six Programs: up to six run-times to control all pool sanitation and maintenance for any day of the week.
- Remote Pump Control: control the energy-efficient pump remotely, only when paired with the Gemini Twin pump.
- Sanitation Control: complete control of sanitation output
- Auxiliary Power: integrated 240V power supply socket to control pool accessories, only when Gemini Twin pump is controlled remotely.

For more information call your local Poolrite distributor or (07) 3323 6555, or go to www.poolrite.com.



NEW FROM DAVEY Eight- and six-star pumps

DAVEY Water Products has released two new energy efficient pool pumps.

An 8-Star Energy Efficiency Rating is offered by the Davey PowerMaster ECO series while the new Davey Silensor ECO series offers a 6-Star Energy Efficiency rating.

Mark LeGrew, Davey's Market Manager for Pool & Spa says this means up to a 70 per cent saving on running costs over traditional pool pumps.

"The Davey PowerMaster ECO series is an ingenious three-speed, brushless DC motor pool pump offering a choice of setting to suit the required application. This provides the capacity to choose between ECO Flow, Mid Flow and High Flow modes of operation giving the ability to maximise the efficiency of operation while still being effective for all pool tasks".

The ECO Flow mode is specifically designed for pool filtration; the Mid Flow can be used for automatic pool cleaning, water features and general operation; while the High Flow mode is for backwashing filters.

"Unlike some other three-speed pumps on the market, the PowerMaster ECO will run a pool cleaner with ease," says LeGrew. "The PowerMaster is popular for its robust and high performance capabilities, which are all retained in the ECO series."

It also features a large leaf basket, auto reset thermal protection, easy-to-use flow setting controls and a three-year Davey guarantee. The PowerMaster ECO series also runs very quietly at only 60.2 dBA on ECO flow.

As with the original Silensor, the Davey Si-

lensor ECO series uses a unique water-silenced motor design so it can operate any time of night and allow off-peak power usage, without disturbing the neighbours.

LeGrew says that this will add further cost savings to the already energy efficient 6-star pump. He also says the pump has enough power to backwash a 25-inch media filter and run an automatic pool cleaner.

The Davey Silensor ECO series pumps are available in two models to cover smaller pools while also being able to handle larger residential pools. The larger model features a huge leaf basket and both pumps provide manual overload with a built-in thermostat to prevent dry run damage and lower emissions output than traditional pool pumps.

Clevalink

DAVEY has also released a new Clevalink appliance control system.

"Clevalink allows you to work smarter, not harder," says LeGrew. "Linking up to 16 electrical appliances inside and outside the home, you can operate them all with the convenience of one hand held remote control."

The plug and play Clevalink system is simple to install and easy to use – so easy that you don't have to leave the comfort of your house to activate many outside appliances.

This smart system allows the end user to customise their ideal pool experience, providing control over pumps, sanitisers, lights and water features. It can also help them impress their guests when entertaining by using it to operate the TV and audio systems, security and outdoor lighting,

Clevalink can also manage the function of pumps connected to the rainwater tank, pond pumps, shed lights, compressors and fans.

One Master Control unit can operate four Link Control units but if that's not enough you can even run multiple Clevalink systems around the home.

The Davey Clevalink kit comes complete with a Master Control unit, two Link Control units and a remote control, or you can purchase individual units as needed.

For more information email sales@davey.com.au, call 1300 367 866 (Aust); 0800 654 333 (NZ) or go to www.davey.com.au.



INSTANT PROTECTION WITH LIQUID STABILISER

LO Chlor says there need be no more waiting for stabiliser to dissolve before it starts working, with their new Liquid Stabiliser.

Lo-Chlor Liquid Stabiliser is an easy and effective way to protect pool chlorine from UV damage, which can in turn lead to both unhealthy pool conditions and higher maintenance costs.

Liquid Stabiliser has been specially formulated for swimming pools and very effectively guards them from the harsh rays of the sun. Unprotected chlorine in swimming pool water can be 95 per cent degraded in just two hours of direct sunlight. LoChlor says chlorine will last 6 to 10 times longer in properly stabilised pool water.

Liquid Stabiliser is easy to use and its liquid formula can be added either directly into pool water or through the skimmer.

Unlike powdered stabiliser, Liquid Stabiliser is not an acid – it is a salt. LoChlor says that regular dry cyanuric acid has a very acidic pH of 2.8 and can take 4 to 7 days to dissolve. This can cause damage to the pool surface or circulation system depending on the method of application. Until it has dissolved, dry cyanuric acid will not protect chlorine from UV loss.

However, Liquid Stabiliser has a pool friendly pH of about 8.0 and dissolves immediately giving instant protection.

For more information call 1800 64 7665.



MANAGE POOLS ON YOUR IPHONE

TAP Quillity Software Systems has a new version of the PoolScribe iPhone and iPad app.

Tap Quillity's founder and chief developer Robert Heyen is also an active pool cleaner in Florida who has been using and refining his product for more than a year. He says the app was developed by pool cleaning professionals to help you answer the question: "Am I charging my customers enough to realise a profit?"

He says PoolScribe accomplishes this by recording the costs associated with providing a pool-cleaning service, including:

- The service vehicle's mileage,
- The service technician's over-head time,
- The technician's time in performing the service for each customer,
- And the amount of supplies dispensed at each customer's pool.

PoolScribe is the original stand-alone data entry and cost monitoring app for pool cleaning professionals



to quickly record vital information for each workday, vehicle refuelling and maintenance session.

Practical reports on all aspects of the costs associated in performing a roving maintenance service are provided along with export facilities permitting external data manipulation and analysis.

"PoolScribe has become an essential tool for my business at two important points," Heyen says. "Having the history of previous observations, actions and dispensations on hand at each pool provides useful feedback on what methods are working to keep the water healthy; while the cost reports that I view at the end of the month tell me exactly what I have spent to maintain each customer's pool."

The app is available from iTunes for \$5.49.



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TWO NEW LIGHTS FROM GLOW & FLOW

GLOW & Flow has released their Over the Edge portable light and the Flow-Through light.

When it is not practical to install a light in a pool, the Over the Edge portable light may be the answer. The light bracket enables the light to be fitted over the coping – it can then be mounted permanently or temporarily in the pool. It has a 10m throw of light.

Pool shops can rent these out to their customers and pool builders can use them to work out the optimum location for a permanent light.

The Flow Through Light (FT33) is designed to help avoid the complaint of pool owners about light problems.

It is a big LED light that still allows water to return to the pool. It is so bright it is the equivalent of a 100W halogen, yet burns only around 4W. The light can be incorporated into other lights in the range including the Easyfit, Echidna 33 wall light and Echidna 33 replacement globe.

For more information call (07) 5562 0043, email glowandflow@iprimus.com.au or go to www.glowandflow.com.



NEW AQUACHEK SPA 6-IN-1 TEST STRIP

HACH has released a new AquaChek Spa 6-in-1 test strip developed specifically for testing in the hot tub environment.

AquaChek Spa provides spa/hot tub owners an efficient and comprehensive means of testing the water.

The new 15-second, dip and read AquaChek Spa test strip includes tests for six chemistries: Total Chlorine, Total Bromine, Free Chlorine, Total Alkalinity, pH, and Total Hardness.

Spas and hot tubs present unique challenges to manage healthy, balanced water. The higher temperatures and lower water volume can cause faster chemical reactions and increased evaporation rates. Maintaining ideal levels of active and total sanitiser (Bromine or Chlorine), pH, Total Alkalinity, and Hardness will help ensure that the water is clean and healthy. In addition, it will protect the spa/hot tub against damage from fluctuations in pH, and a build-up of scale formation.

For more information see your local AquaChek distributor.



the children's hospital at Westmead

Protect Your Pool, Protect Your Kids

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THE PH BOSS

BIONISER says that their new pH Boss will keep the pH levels perfect day-in, year-out in any sized pool from 5000L to 500,000L – you simply have to just adjust the dose settings to suit the pool volume.

It includes features such as One Point Probe Calibration, Buffer Delay and Manual Dosing. It has a long lasting quality probe and pump, and robust construction. The Boss takes only 20 minutes to fit and program.

The RRP of the pH Boss is \$1085, which Bioniser says is about \$500 cheaper than other comparable systems – and it comes with a Bioniser 90 day money back guarantee plus a three year parts and labour warranty.

For more information go to www.phboss.com or call Bioniser on 1800 10 62 74.

UNDERWATER SWIM CAMERA VIDEO SYSTEM

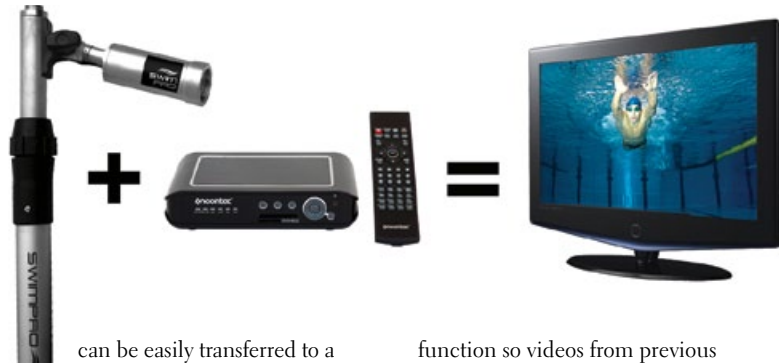
THE SwimPro Basix underwater swim camera video system and SwimPro 4cam system are designed to help swim instructors view their charges' performance in the water, and help with their improvement.

The entry level SwimPro Basix consists of a 420TV line static wall bracket swimming camera and a hard disk recorder (HDR) with delayed playback. If you are looking for a camera that will simply sit on the side or end of your pool

wall, this is the system for you.

The SwimPro 4Cam is made up of one to four SwimPro swimming training cameras. Depending on your combination of SwimPro cameras, SwimPro 4Cam can turn your swimming training centre into an advanced swim training powerhouse.

The SwimPro 4Cam recorder has analysis functions such as rewind, pause, slow-motion, delayed playback, frame-by-frame analysis, zoom and pan and more. The SwimPro 4Cam Recorder is extremely easy to operate and is made easier with the step-by-step operations guide. Video files



can be easily transferred to a computer for storage or for further analysis in software such as Dartfish.

Swimming Videos can be easily selected through the calendar

function so videos from previous meets can be quickly found, played, analysed and stored.

For more information contact IQ on (02) 9774 5550 or go to www.interquad.com.au

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Is there an adequate amount of desiccant in the container? *Insta-Test® containers have 6 grams, though the industry standard is only 3 grams.*

Is the desiccant fitted in such a way that it can't fall out or be touched by wet hands? *In an Insta-Test® container the desiccant is protected by a liner,*

which is an integral part of the container.

Is the cap permanently attached to the container so that it can't be lost or fall into the water? *If not, there is a risk you will lose it.*

Is the container strong enough to withstand cracking? *Insta-Test® containers are made of tough HDPP, rather than the usual HDPE.*

LaMotte Insta-Test® strips are made with either multiple tests on a strip (different combinations of pH, free and total chlorine, total alkalinity, calcium hardness, and cyanuric acid), or single tests on a strip.

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Ad Index

Allans Trade Warehouse.....	87
Aquamaid.....	89
AstralPool	41
Australian Spa Parts	36
Automatic Pool Cleaners (Aqua-Quip).....	29
BioLab.....	6
ClevaQuip.....	IFC
Compu Pool Products	73
Cordell	64, 88
Emaux Water Technology	26
Enviroswim	38
Evolution Water & Lighting Solution	87
Focus Products.....	insert
Heliocol Solar.....	37
Herborner Pumpenfabrik	54
Hot Water Heat Pumps.....	40
Hydrocare Pools.....	65
International Quadratics	12, 75
Maytronics Australia	14, 63
Pentair Water Australia	OBC, 8, 35
Piscine (GL Events)	25
Pool Controls	IBC
Pool Ranger	17
Poolrite	46, insert
Pro-Am.....	67
Reltech.....	33
Remco.....	19
Rheem	39, 55
Sancell.....	15
Spa Electrics.....	21
Sunbather	4
Sunlover.....	32
Supreme Heating.....	27
Swimplex	64
Toyesi.....	65
Vendart	89
Waterco	10, 60
Waves Magazine.....	77
Westmead Hospital.....	66, 88
Zeolite.....	66
Zodiac.....	52

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