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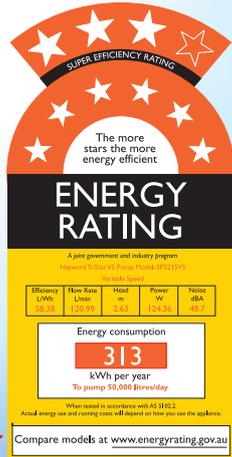
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FROM THE EDITOR

There's no doubt that children love water. A wise man once told me that children are attracted to water like bees to honey and when families are looking for a fun day out or a holiday location, access to water parks or child-friendly pools is a must. In this edition of *Pool+Spa* we have discussed the ins and outs of planning a water park, as well as the maintenance involved, with the team from Waterplay Solutions.

Others within our community who enjoy the water are people with disabilities. The buoyancy provided by water can relieve the pain felt in joints by sufferers and provide others with a sense of freedom from their wheelchairs or walking frames. However, if a facility doesn't provide adequate access, then a facility is useless to those with a disability. There are laws in place to ensure that public facilities undergoing renovations as well as newly constructed public pools incorporate a hoist or ramp for disability access. You can read more about this inside.

Also inside, you will find our two product features. The first looks at pool heating options when solar pool heating is not sufficient on its own. Three of Australia's top pool heating companies discuss recent projects where heat pumps have provided a solution to the problem.

The second feature looks at pool covers. No matter how large a pool, regardless of its shape or location, there is a suitable pool cover. Besides the fact that changes to the building code require many pools to install a pool cover, the savings that can be made in terms of water loss, pool chemicals usage and heat loss are well worth it for your clients.

I hope you enjoy this edition of *Pool+Spa*.



Rebecca Brennan - Editor
ps@westwick-farrow.com.au

LET'S PLAY!

WATER PARKS FOR ALL AGES
AND SPACES



Children love to play in and with water. Water parks provide a safe and exciting experience for children of all ages and can be installed in just about any space. *Pool+Spa* spoke with Shanley Hutchinson from Waterplay Solutions about how to plan and care for a water park.

When considering a water park, all potential projects should start with the same questions. Who are we building this play pad for? What effect do we want it to have in our community or business? Do we want to create something to generate revenue or simply create an enjoyable and inviting play space that enhances the community or space around it? Do we want the ability to create a space that can change over the years or a fixed environment that requires no additional work other than maintenance?

Play spaces that will be used to generate revenue should be contained within an enclosure to encourage the park goers to enter through a specific area where attendance can be coordinated. While being large enough to accommodate multiple patrons at one time, the play space should also feature an exciting, sustainable design full of engaging, interactive play features to encourage new and return visitors.

An aquatic play space can be designed to change over the years by including plumbing attached to a 'detach and exchange' anchoring system on the play pad. These systems are built flush to grade and allow you to add new play features to your current design or swap out existing play features for something new. 'Detach and exchange' anchoring systems also allow you to change the purpose of your play area to accommodate season changes; one example of this is removing the play features to create an ice skating rink in the cold winter months.

All age groups play differently. The best way to choose equipment for any particular project is to understand who will be using the play area and choose features that are specific to that play style.

Toddlers tend towards smaller play features with soft, predictable spray patterns so that they feel comfortable exploring their surroundings. Older children aged around five to eight enjoy playing in collaborative environments where they can engage with their family and peers. The water in this part of the play pad encourages imagina-

tive play by splashing from above or below and also spraying from the side, which is suitable for the largest age range and which typically makes it the main area of the play space.

When kids reach their adolescent and teenage years, they look for big fun and excitement. Suitable equipment for this type of high-action play includes larger-than-life dumping buckets and quick-changing sprays with enough room in between the equipment to allow for a higher energy play style.

Water management

There are many things to consider when thinking about how to manage water through an aquatic play area. The three main solutions are:

1. Recirculation - a closed water management unit that continually processes chemically treated water to and from the play area;
2. Retain and re-use - a multifaceted system that works with the existing infrastructure to push water to the play area, then captures, filters and repurposes the used water for alternative use in the community; and finally,
3. Flow-through - a basic system that works with existing infrastructure to push water to the play area and then drains the used water into the local sanitation system.

The type of water management system that is chosen relies heavily on local health and safety codes, the initial and ongoing budget of the project, as well as the water ideals of the community or business sourcing the project.

A high level of water efficiency can be obtained through incorporating a recirculation system to your play pad design - a high initial capital investment will quickly turn into savings with low water consumption and low running costs. If your budget is limited, a flow-through system works with the existing infrastructure in your community to reduce initial costs.

Pumps, which must be used for recirculation as well as retain and re-use systems, are included in the overall cost of the system, if required. Recirculation and

WATER PARKS

retain and re-use systems also require a holding tank, which can be accessed by a manway located near the play area.

Water park maintenance

Ultimately, the climate a water park is built in will determine the specific maintenance schedule and any additional or special care requirements that would need to be applied in order to keep your project in top shape.

For safety reasons, a daily inspection of a play area should be carried out to ensure it is free of debris and that no water is accumulating on the play pad. Everyday play pad maintenance is typically carried out by a maintenance worker who should ensure that the play pad is functioning safely in terms of equipment and water pressure. Additionally, the working equipment should receive a daily, gentle surface clean.

Most outdoor aquatic play areas are in full operation for three seasons: spring, summer and autumn. For these types of installations Waterplay Solutions suggest 'start-up', 'mid-season' and 'shutdown' maintenance procedures to be carried out accordingly.

Seasonal maintenance involves a thorough cleaning and inspection of all play equipment and working parts, as well as care requirements specific to the spring opening and also the closing of an aquatic play area. The most common concerns surrounding maintenance in the aquatic play pad industry arise from poor seasonal shutdown - these types of issues can be avoided by following the specific maintenance requirements supplied by the equipment manufacturer.

Shutdown maintenance is required if the play area will be inactive for a week or longer. This maintenance requires protecting the equipment against harsh elements by detaching all removable facades, and ensuring that play pad grates are tightly secured and the area is free of litter and debris. The main water line should be turned off and drained, and all supply lines cleared of standing water by method of compressed air. Additional maintenance requirements may be necessary depending on the existing equipment on-site.

Getting the most from your equipment

When building an aquatic play area, ensure that all installation documents are being followed for each piece of equipment and



that you are working with a reputable installer to fit the components and lay the pad material. By following these steps you will ensure that your aquatic play area will function as the designer intended and adhere to the industry safety standards.

Long-lasting aquatic play pad equipment should be built from high-quality materials. Reputable companies manufacture equipment with high-grade stainless steel and other robust materials to ensure that the equipment will stand up to years of heavy use in multiple climates. There are many plastics and synthetic materials that are incorporated into aquatic play pad designs - reputable manufacturers will only choose material that is known to stand up to severe weather and the demands of aquatic environments.

Consumers can recognise quality products by identifying the grade of stainless steel being used, inspecting any welds to confirm they are seamless and strong, ensuring that powder coating is smooth and features a fade- and chip-resistant paint, as well as by asking questions about other synthetic materials used in order to ensure a consistent level of quality.

Poor-quality materials used in aquatic environments will deteriorate quickly, leaving the play area requiring persistent costly maintenance, and eventually a complete refurbishment.

As with all play spaces that are exposed to the elements, the ones that stand the test of time are maintained by individuals who have a knowledgeable understanding of their surrounding climate and take a proactive approach to daily and seasonal upkeep. A properly installed, high-quality, well-maintained aquatic play pad can be enjoyed for years.

The best and most successful play pad projects are ones built with intention - intention to build a long-lasting communal space that can be enjoyed by all age ranges and abilities, and also intention to create a space that encourages discovery and exploration in a fun and compelling way.

All too often a play space starts out with a specific goal or intention that is later sacrificed due to poor project management. Working with a reputable manufacturer will give you the foundation needed to move forward and realise your fun-filled play space in its entirety by offering quality products designed and tested by play and safety experts.

Treasure Island

A recent example of a successful water park installation can be demonstrated through the Big4 NRMA Treasure Island Resort and Holiday Park at Biggera Waters, Gold Coast, Queensland. The management, Australian Tourist Park Management, contacted Waterplay Solutions to supply them with a suitable water park to adhere to strict theming guidelines and superior quality standards.

Keeping with the 'Treasure Island' look and feel, the play space conjures up a fun-filled pirate adventure on the high seas. Fantasy comes to life as park goers jump inside a spraying ship, flying a pirate flag while they look out at an impressive sea monster that sprays water from its nose and a misting whale body complete with a watery tail. An octopus with spurting, interactive tentacles takes up residence on the edge of the pad where low-action ground sprays invite a more gentle and thoughtful style of play to the environment.

For those looking for a more extreme play experience, a five-metre-high, larger-than-life dumping bucket emblazoned with a pirate shield stands in the high-action zone gently teetering before it tips onto unsuspecting adventurers below.

Treasure Island is a project that exactly embodies what a successful play space should be - it flows well from one play area to the next, provides a safe and engaging environment for park goers of all ages and ability levels, and also truly fits the original intention for the proposed project. This is a play space that will enrich the resort for years to come.

The project was opened to the public on 22 February 2014.

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GETTING TO KNOW ...

Following 17 years of employment with one of the world's largest swimming pool product manufacturers, Stephen has a unique appreciation for the nuances of the industry.

According to Reed, one of his career highlights was when he was asked to assist with the design and commission of a 1 million-litre, outdoor, public swimming pool retrofit with salt chlorine generation in combination with pH and ORP technology to ensure that this huge body of water was properly sanitised with an ebb and flow of bather loads from zero to full capacity. "It was challenging but also a great deal of fun working with a select group of professionals to complete one of the largest salt chlorinated pools in the country at that time. The constant clarity and quality of that pool water almost a decade later still receives rave reviews from the lifeguards to the water babies."

Reed believes that the biggest challenge in the swimming pool industry at this time is maintaining the viability of the 'brick and mortar' retailers: "They are the foundation and the face of our industry and everything we do must be with the intention to make them stronger in order that they continue to service and educate the pool owner whilst promoting swimming pool and hot tub ownership.

"We must continue to educate and train the builders, to ensure they are up to date and trained on the latest developments in technology and industry practice so that the construction of pools is continually both functional and fashionable. The service trade are our representatives in the backyard day in, day out. It is an obvious goal that we wish to have the best-trained servicers of any industry, so that when the pool owner does have an issue, it is fixed quickly and correctly. We want every pool owner to love their pool so much that they tell their friends."

In response, Hayward has developed a 'Dealer Loyalty' program to help its partners with education, training, special products, a website locator, technical assistance, point-of-purchase materials, marketing and selling tools, extended warranties and all the little things that help improve their businesses.

More than ever, Reed believes customers are demanding instant gratification, instant education and instant assistance when they have an issue. "To meet these demands we are expanding operations and warehousing space across Australia.

"Hayward opened a new branch in Perth last year, completed the relocation and expansion of our existing branches in Sydney and Brisbane and are currently planning the consolidation and expansion of our Melbourne warehouses and operations. With this expanded space we can stock enough Hayward product to satisfy even the most robust pool season.

"We are constantly developing new tools and materials to assist our dealers with the education and technical components to ensure that they meet today's consumer expectations. We have also newly created a technical service customer support role, which we have filled with exceptional candidates in each and every branch across the country. Their responsibilities include all aspects of the technical nature of our business and are there to help our customers any way they can.

Reed believes that Hayward's biggest growth opportunity is to continue what it has been doing in other countries successfully for more than 80 years. That is, continue to build high-quality, competitively priced and innovative pool equipment, which is great on its own, but when utilised together, becomes greater than the sum of the individual parts.

STEPHEN REED

*Director of National Accounts and Marketing,
Hayward Pool Products*



Stephen Reed is a 25-year veteran of the swimming pool industry. In the early years he got his start as a hot tub manufacturer and pool maintenance technician. After acquiring a degree from McMaster University in Ontario, Canada, Stephen was hired by Hayward Pool Products Canada in 1996, later by Hayward USA and is currently the Director of National Accounts and Marketing for Hayward Australia.

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MAKING WAVES

Repair, replace and refund guide for the pool retail and service sector

Have any of your customers bought a pool pump, filter or other product from you that was broken or did not do what you told them it would do?

Since 1 January 2011, customers have the right to ask for a repair, replacement or refund in certain circumstances.

Customers can use their rights for:

- pool and spa products they buy from your pool shop or your online pool business
- pool and spa service that consumers pay you for
- pool and spa equipment that your business may hire out

Consumers can use their rights even if the product or service you have provided them has:

- a voluntary warranty offered by the supplier
- an extended warranty that they have bought from you
- a voluntary or extended warranty that you provided but has expired

What happens when a consumer asks you for a repair, replacement or refund? As the business owner you may:

- ask the consumer for proof of purchase such as a receipt or bank statement
- discuss with the consumer and ascertain whether the problem is major or not

If it's a major problem, the consumer will be able to choose a refund, repair or replacement (or compensation in the case of services).

If it's not a major problem, you as the business owner will be able to choose whether you will repair, replace or refund the product, or fix the problem with the service.

When can a consumer ask you for a repair, replacement or refund?

There are eight rules that consumers are able to use to establish whether they can enforce their rights:

Rule 1: Acceptable quality - All goods you sell must be of an acceptable quality.

Rule 2: Goods must fit the purpose - The goods purchased by your customer must fit the purpose you discussed with them before selling it to them, or the purpose for which the goods are commonly supplied.

Rule 3: Goods must match the description - Any description of the goods given by your business or written on associated packaging or labels must be accurate.



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Rule 4: Goods must match any sample or demonstration model - If the customer sees a sample in your shop or on-site, or they ask for a trial run or demonstration and ask to buy the same product, what they get must match the sample or demonstration.

Rule 5: Businesses must meet any extra promises they make - Any additional promises your business makes about the condition and quality of goods or the way they work are called 'express warranties'.

Rule 6: Services must have an acceptable level of care and skill - Your business must provide services with an acceptable level of care and quality.

Rule 7: Services customers asked for should fit the purpose or give the results you and they agreed to.

Rule 8: Customers should receive services in a reasonable time - Your business should provide service contracts with a date of when the customer will get the service, or in the case of longer term contracts, a finish date. If your agreement doesn't state this, you are expected to deliver the service in a reasonable time.

For more information, contact www.spasa.org.au or www.accc.gov.au.

Nicole Livingstone to MC the SPASA Awards of Excellence Gala Dinner

SPASA Australia is delighted to announce that Nicole Livingstone OAM will MC the SPASA Awards of Excellence Gala Dinner. This event will be held on Thursday 17 July at the Crowne Plaza, Surfers Paradise.

Having represented Australia at three consecutive Olympics, Livingstone has individual and team medals, as well as medals at six Pan Pacific Championships, three Commonwealth Games and the 1991 FINA World Championship. In 1992 Nicole set a World Short Course Record in the 200 m backstroke. Following her Olympic career, Nicole transitioned into media as a commentator on various sports programs and most recently features as a regular panelist on The Project.



Livingstone is active in promoting drug-free sports and is a past board member of the Australian Sports Anti-Doping Authority and is current director of Swimming Australia. She is also a co-founder and Patron of Ovarian Cancer Australia. In 1997 she was awarded the Order of Australia for service to swimming.

The SPASA Australia Awards Gala Dinner booking form can be downloaded from: www.spasa.com.au. Seating is strictly limited so book early to avoid disappointment.

For more information about the Awards of Excellence program or dinner contact Rowena Cook, or for sponsorship opportunities call Asher Newton, on 03 9501 2040.



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MAKING WAVES

NSW Pool Register User Guide

New legislation for the sale or lease of a property with a pool will apply from 29 April 2014. Before home owners can sell or lease a property with a pool or spa, they will need a valid certificate of compliance.

The Division of Local Government has put together a Swimming Pool Register user guide to better assist councils with the Swimming Pool Register (the Register).

The authorised NSW Swimming Pool Register User Guide can be accessed by visiting <http://www.dlg.nsw.gov.au>.

Crackdown on fake testimonials

The Office of Fair Trading has issued a warning about bogus online testimonials. Executive Director Brian Bauer said false testimonials were a breach of the Australian Consumer Law. An inquiry by the Office of Fair Trading and other consumer-protection agencies has resulted in more than 40 businesses across Australia being asked to substantiate that the claims made on their websites are genuine.

In Queensland, the OFT has commenced an investigation into five businesses where testimonials may contain false or misleading information. These businesses were served substantiation



notices, ordering them to demonstrate that the representations made are honest and accurate. More information about managing online reviews can be found on the Australian Competition and Consumer Commission website.

SPASA state bodies recommend formation of a single entity national association

On 10 and 11 February, SPASA Australia's board members met for a strategic development workshop to determine the best association structure for the industry representative bodies. The outcome of the meeting was a set of unanimous motions that satisfied each state's requirements to transition into an all-inclusive single entity national association. These motions have been adopted by the boards of SPASA South Australia, SPASA Western Australia, SPASA Queensland and SPASA Victoria.

Background

The discussion started some six months earlier on how to better deliver benefits to the members. A review of current services performed was conducted and it was recognised that there was duplication with service delivery and potential economies-of-scale opportunities.

It is important to note that over the last 12 months, the SPASA Australia Board has operated harmoniously and is focused on the increased sharing of information between the states, and a centralisation of services.



Over the coming weeks, information will be disseminated in relation to what exactly a single entity will look like. SPASA South Australia, SPASA Queensland, SPASA Victoria and SPASA Western Australia will be communicating with their members and seeking support for the transition into a single entity national association.

Industry engagement

For too long this industry has been fragmented, whether that is by state/geographical boundaries or by sector boundaries. Members will receive an invitation to participate in a National

Sector Group, and the three initial sectors have been identified as:

- After market/retail
- Pool/spa builders
- Manufacturer/supplier

Each of these sectors will meet to identify the key areas of concern and establish a set of objectives and key deliverables to recommend to SPASA Australia. These recommendations will form the framework for the strategic direction over the next 12 months. It is proposed that an initial member meeting will take

place at SPLASH! 2014 at the Gold Coast in July. Each sector will meet thereafter via teleconference to progress sector needs. This is a 'grass roots' approach to keep the focus on sectors rather than states.

The Swimming Pool & Spa Association of NSW has been invited to participate in this process.

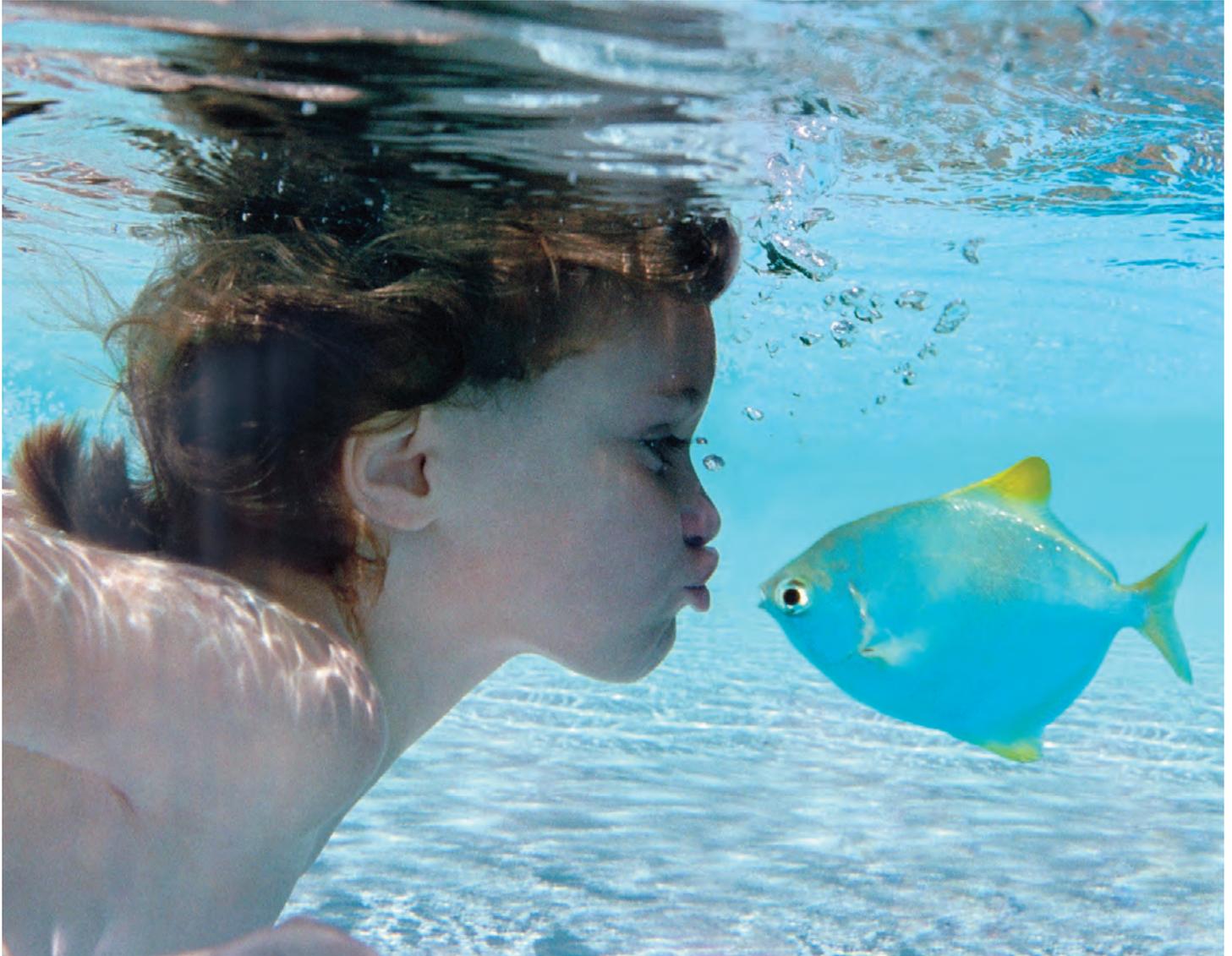
We look forward to members' support in being able to establish a truly unified all inclusive single entity national association.

For further information, contact SPASA Australia President Lynley Papineau on 0412 987 567 or Brendan Watkins, CEO, on 03 9501 2040.

Hydroxypure

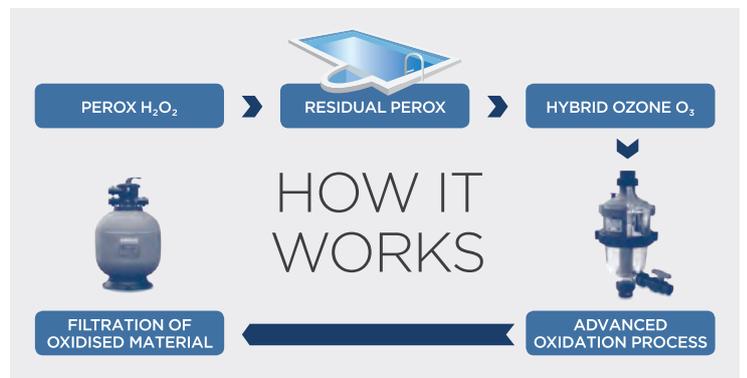
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MAKING WAVES

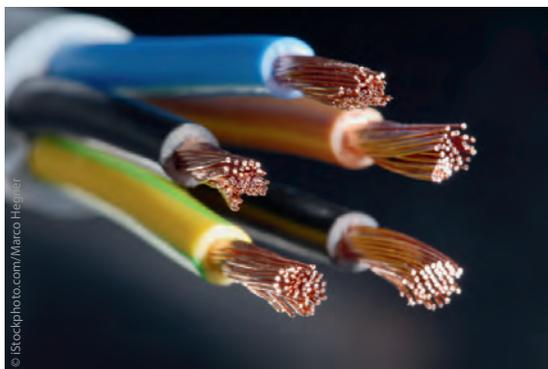
Concerns raised over equipotential bonding of pools and spas

Concerns have been raised over the equipotential bonding of pools and spas, in particular the requirements of AS/NZS3000:2007 Amdt 2 cl5.6.

SPASA Queensland has reported that the physical action of connecting an earth wire to the steel reinforcing is electrical work, required to be performed by a licensed electrical contractor and this has some pool builders concerned.

With the current practice, it is difficult for an electrical contractor to install, comply with rules and certify that a pool installation is safe. This may harm the relationship between the pool builder and electrical contractor in that timing (due to concrete pour/spray) may not always align. The customer also suffers if the electrical contractor later identifies the need to bond the pool if the bond is not installed when the shell is poured.

SPASA Queensland believes there is a simple solution, which removes the onerous clause 5.6.2.6. The recommendation put to the Electrical Safety Officer is that an electrical contractor connect the



earth bond to the reinforcing steel prior to any concrete being poured or sprayed. This can be done remotely to alleviate the problem of coordinating installation. This is confirmed by a Certificate of Test for each bond connected.

The installer is then responsible for tying the pool reinforcing in accordance with the industry standard. After the concrete is sprayed, a second electrical contractor (who could be the same as the first) connects the earth cable as required

under cl5.6.2.6.4. This enables the electrical contractor, with evidence of the first test, to provide a Certificate of Test for the whole installation at the conclusion of the job.

When the building certifier is required to certify the pool shell is suitable for pouring/spraying concrete they observe the earth bond point and perhaps take a photo. With this bond in place, it then complies with the requirement of cl 5.6.1 by minimising risk of stray currents, as there is now an equipotential bond.

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Heliocol Solar opens Melbourne warehouse



Heliocol Solar, the importer and distributor of Heliocol solar pool heating systems in Australia, recently opened a new warehouse in Melbourne, Vic. The new Melbourne office and warehouse adds to the company's stores in Brisbane, Sydney and Perth, as well as to its dealer network throughout Australia.

"We felt the time was right to establish an outlet here in Melbourne to better serve the Melbourne and Victorian markets," said Peter Haddon, managing director of Heliocol Solar in Australia. "Our new company operation in Epping on the northern side will now complement the existing dealer operation in Beronia managed by Peter Jamieson for more than 10 years."

The new Melbourne complex will be managed by Jim Petrakis, who has many years of sales and customer service experience.

Kelly Dancer, Heliocol's factory representative for the Pacific Rim region, was in Melbourne recently for the opening. He welcomed Petrakis to the Heliocol family and added, "With a factory-directed warehouse here in Melbourne, we can ensure the needs of this market are easily met. Jim Petrakis is keen to talk to all members of the trade."



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PROJECT COMPLETE

IN THE NAME OF ART - POOL BUILDER CREATES LAKE



Tom Stanley from Redlands Pool Service had completed several successful displays with the Queensland Gallery of Modern Art (GOMA), when in 2013 they asked him to tender for the 'Cai Guo-Qiang: Falling Back to Earth' exhibition.

Cai Guo-Qiang is an international artist, whose large-scale installations and explosion events have made him one of the most innovative figures in contemporary art. Over the past 25 years, Cai Guo-Qiang has held solo exhibitions at some of the world's most prestigious art institutions.

The 'Falling Back to Earth' exhibition features four installations. The centrepiece of the exhibition, 'Heritage 2013', features 99 replicas of animals from around the world, gathered together to drink from a blue lake, surrounded by pristine white sand, reminiscent of the lakes of Moreton Bay's islands in Queensland.

It was this blue lake that Stanley built and maintained for the duration of the exhibit, which closed on 11 May 2014.

"Preliminary discussions took place approximately 18 months before the display opened, involving the design and construction team at GOMA," said Stanley.

"There were a few unknowns relating to this project, including the weight of the display on the gallery floor, sustainability of the liner and concrete rendering around the lagoon, the correct sanitiser to use in the recycled air-conditioning system and after all that, what unknown factors would arise in this unique environment?"

Following 18 months in planning and approvals, it took approximately 3 months to construct and 250 metres of pipe to plumb the 170,000-litre lake.

"The engineering approvals and the logistic nature of the complex made the job challenging. Most of the materials had to be brought up to the gallery level in the lift, a very slow process when there were up to 30 or more people working on the display, including carpenters, painters, lighting technicians, artists and electricians," added Stanley.

Graeme Ellis and Michael Connors from Complete Pool Liners installed the pool's vinyl liner. This involved installing two Abgal

fabricated pool liners from Computer Aided Design, supplied by the gallery. The first liner was built within a timber frame acting as a fail-safe. The second liner was installed on top of this, and it was within this second liner that the display was built. Ongoing meetings with the project team meant that a crease-free, perfect and sustainable finish had to be guaranteed for the finished product.

"The opportunity to work on such a large-scale project at GOMA was certainly an experience for Graeme and me, and we are extremely happy with the finished product," said Connors.

The blue lake was operated like a normal backyard pool, with twin cartridge filters, a Viron energy-efficient pump and a chlorine dosing machine, which were all supplied by Astral.

Cleaning of the pond was always going to be a challenge, because, at the artist's request, there could not be any fittings, skimmer boxes or pipes visible to the general public.

"The battery-powered, cordless M5 Liberty robot was chosen as the most suitable cleaner for the display. The uniqueness of this exhibit meant that the device would need to create minimal disruption; I would walk through the lake controlling the robot with the remote," said Stanley from Redlands Pool Service.

Daily maintenance was carried out by GOMA staff and weekly by Stanley for the duration of the display. Vacuuming with the M5, brushing and scooping were daily duties.

"The project was very exciting for me. All of the GOMA staff were very professional to work with. The display worked out almost how I thought it would, except for few little things. Those things would be expected in a job of this nature.

"The biggest hurdle of this job was just to be able to guarantee to the GOMA staff that it was going to work; I just had to visualise and use my 16 years' experience in servicing and building in the pool industry to ensure it did.

"Once the project was up and running, I felt a large sense of satisfaction that all of the hard work I had put in had paid off," said Stanley.

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GETTING WARMER

POOL HEATING OPTIONS FOR YEAR-ROUND WARMTH

There are some instances, in both domestic and commercial circumstances, when solar pool heating is unsuitable. While gas and electric heating are options, it seems that heat pumps are the popular choice in warmer regions. *Pool+Spa* looks at three recently completed projects and how pool heating was integrated to provide suitable swimming temperatures, all year round.



Noosa Blue, located in the Noosa Hills, just metres from Noosa Main Beach, is a unique resort built with inspiration from Mexican architect Ricardo Legorreta.

The resort required a heating solution for its main pool, small pool and spa as the existing LPG heaters were non-operational. The heating system was required to maintain a 28° water temperature most of the year, with no covers used on the pools. The system also needed to be the most cost-effective option to operate and maintain without disturbing the ambience of the resort.

Tony Mills from EVO Industries Australia replaced the existing LPG gas heaters, which were non-operational and had proven to be costly to run and service, with EVO Heat Pumps.

“Resorts of a certain standard want to be able to offer guests a heated pool for 12 months of the year. Solar will not achieve 12 months at desired temperatures and electric element and gas heaters have much higher running costs and some reliability and longevity issues,” said Mills.

“Noosa Blue’s main goal was to achieve the most cost-effective option to operate and maintain their pools at the desired temperature of 28° for 12 months of the year.

“It was also imperative to ensure the pool heating equipment was neither seen nor heard by the resort guests, so as not to disturb the serenity of the resort environment.

“To achieve these requirements it was necessary to install the EVO Heat Pumps in an area adjoining the resort’s underground car park - a difficult but not impossible task.

“EVO was able to review the possible heating options via computer modelling and confirm that the EVO CS135 and DHP 603-R model options were by far the most reliable and cost-effective solution. The existing LPG heating systems were operating at a cost to the resort of \$81,529 per year, whereas the EVO Heat Pumps would operate at an estimated annual cost of \$19,747, offering savings of approximately \$61,700 pa and projected savings exceeding \$571,000 over a 10-year period.

“Simply put, heat pumps use energy taken from the air and transfer it to the pool via a heat exchanger. EVO Heat Pumps offer industry-leading efficiencies exceeding 500% with substantially lower operating costs than any other on-demand pool heating system. With every EVOHEAT installation, a complete staff training session is provided in the operation of the heater together with a comprehensive 7-days-a-week support program,” said Mills.

Noosa Blue Resort achieved dramatic reductions in its heating costs by removing the costly LPG heating systems and refitting the resort with energy-efficient heat pumps. The return on investment was such that the supply and installation cost was repaid in less than 12 months. In the meantime, guests can enjoy a warm dip in the pool at any time of year.

“The life expectancy of an EVO Heat Pump exceeds 15 years. An annual programmed maintenance schedule contract provides a complete check of all components and settings to ensure the heaters operate at maximum efficiencies.

“There is no doubt that a resort pool that is not heated is not offering the services demanded by the travelling public. A resort pool that can be used for 12 months of the year offers clients a major part of the full suite of facilities demanded by today’s

discerning traveller and adds value to the resorts offer, which is eventually reflected in the booking numbers,” added Mills.

Night-swimming executives

Wahoo Pool Construction, based in Brisbane, was constructing a large, formal, outdoor pool measuring 4 x 8.5 m, with a 2 x 2 m wet edge spa for an executive couple. As the couple spent long hours in the office, they wanted reliable pool heating so that they could swim all year, particularly at night.

John Dillon from Wahoo Pool construction said, “The owners wanted the most energy-efficient solution that would allow them to use the pool and spa all year round. We had to consider which heating solution would be able to meet their requirements with the pool size and location in mind.

“The clients also wanted to be able to control and regulate their heater(s) remotely. We did this by installing an Aqualink control system and iAqualink web interface plus a Zodiac variable speed pool pump.”

For this project a Zodiac PowerFirst 15 in combination with a solar heating system was deemed to be the most energy-efficient and practical solution for their needs. The system was installed along with a Zodiac Aqualink digital pool and spa controller.

The Zodiac Aqualink system controls all equipment installed on the pool pad including both the heat pump and the solar heating system. The Zodiac Aqualink will activate the heat pump when the solar heater is not able to achieve the desired swimming temperature in the pool. The Aqualink receives regular data from temperature sensors installed in both the heat pump and rooftop solar system to determine when the heat pump is required to operate. At the click of a button, the Aqualink can also turn on the heat pump to heat the spa to its desired temperature.

The owners also chose to add the Zodiac iAqualink web-enabled device to their system, which now enables them to access the pool pad equipment from the iAqualink app anywhere, anytime.

“The pool owners will now benefit from the most energy-efficient and easy-to-operate, all-year-round swimming experience.

“The PowerFirst 15 comes with a lifetime anti-corrosion warranty on the heat exchangers with the heat pump. Heat pumps do not require a lot of regular maintenance. The key is to keep the area around the heat pump clear and free of debris,” said Dillon.

The project was completed in December 2013.

Warm water for tiny tots at recreation club

The Casuarina Rec Club, in far NSW, is a state-of-the-art recreation and training facility including a recreation centre, gym, tennis court and two heated pools.

There is an outdoor 300,000 L, 25 m training pool and an indoor 100,000 L learn-to-swim pool. The club’s previous heat pump had failed and rusted out, so they needed a new, better heat pump. The club requested assistance from Waterco to identify and install a suitable pool heating system.

Waterco had to assess the existing plumbing to see if it was sufficient to do the job, which fortunately it was. It also looked at the accessibility of the site, and in this circumstance, a crane was required to install the heat pumps.

The management at the Casuarina Rec Club required the temperature of the indoor pool to be maintained at 28°, suitable for the learn-to-swim clientele. The outdoor pool needed to maintain a constant 26°, suitable for squad and ‘serious’ swim training.

POOL HEATING

Waterco Electroheat Pro was selected for this project as it has a 96 kW heat output, which is ample to provide the desired pool temperatures. Two systems were installed - one for each pool.

The pools are used throughout the year from early in the morning to late at night, so the heating system had to be able to support this requirement.

During the colder months, the heat pumps operate 10-12 hours a day, but in summer they are not required as much due to warmer air temperatures. The Electroheat Pro can be easily adjusted to the desired water temperatures and thus saves the user in heating costs as it heats on demand, not just at an ongoing temperature.

The Electroheat PRO 96 has been designed to heat commercial pools with a maximum flow rate of 680 litres/minute and COP of 6.2. Operating with R410A refrigerant, the PRO 96's dual high-performance hermetic scroll compressors run at increased efficiency, with less noise and vibration compared with products using other refrigerant types.

"The new-generation Electroheat PRO heat pump is the latest advancement in commercial-size swimming pool heating," said Zane Solar and Pool Heating Manager Adam Shelley. "The Electroheat PRO 96 has been designed to deliver efficient, cost-effective large pool heating in an easy-to-operate and -install package."

The Electroheat PRO 96 features electronically controlled temperature management, continuous digital temperature display, fault diagnostic system and in-built protection devices like auto

defrost control, flow switch, refrigerant pressure monitoring and compressor protection timer. Additionally, its powder-coated steel cabinet is designed for easy access to major components for scheduled maintenance.

Upon installation of the system, the staff were taught how it worked and how to operate the digital touchpad panel, which provides a simple, easy-to-use, visual way to check the temperature.

With its new heating system installed, the Casuarina Rec Club can expect to have no issues with pool water temperature control. It can keep the pool open whenever needed with no limitations of opening hours as the heat pump will automatically control the pool water temperature. This positively affects the club's bottom line as there is no impediment to opening hours, allowing it to maximise its return on investment.

Prior to the winter season when the system is constantly used, the pool maintenance supervisor needs to check the gas in the compressors and the evaporators are clear of debris for superior airflow.

"If you are contemplating installing a pool heater, use a heat pump as it will save you a fortune in running costs. Gas heaters are great for getting pool water warm fast, but they are very expensive to run continuously," added Shelley.

"A pool heat pump is the most efficient way to heat a large body of water using conventional heating. Although they take longer than gas heaters to warm the water, once the desired temperature is achieved, it is easy to maintain."



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HEAT PUMPS

The Evoheat heat-pump technology combines electronic expansion valves with R410a refrigerant and dual-defrost systems to deliver improved performance, with higher outputs at lower temperatures and low running costs. The Evoheat heat pumps, which range from 5 to 3600 kW, ensure a simple low-cost installation on any pool application from spas to Olympic pools.

Evoheat heat pumps are engineered to perform under all Australian conditions and include a nationwide on-site service. The company guarantees the performance of every heater they specify.

Evoheat offer fully featured DHP-R and entry-level 'force' domestic ranges and class-leading CS commercial heaters, which combine a low-cost installation with margins that boost the bottom line. Evoheat intelligent control systems make heat up and operation simple and the no-cost, individual, computer-modelled, heating evaluation service is said to guarantee every Evoheat heater will perform.

Evo Industries Australia Pty Ltd

Contact info and more items like this at wf.net.au/W736



DOMESTIC POOL HEAT PUMP

Emaux Water Technology has designed a heat pump to cater for domestic pools. The pump ranges from as little as 5.6 up to 21 KW. The B series is a high-efficiency heat pump with a coefficient of

performance (COP) value of 5, making it a product of not only efficiency but also of quality.

Made up of PVC and titanium tube, the heat pump can withstand prolonged exposure to the water.

A LCD guides users in operating the product, making it as easy as switching it on and setting the desired temperature.

The B series has a five-year heat exchanger warranty, three-year compressor warranty and two years for the complete pump.

A range of commercial heat pumps is also available.

Emaux Water Technology

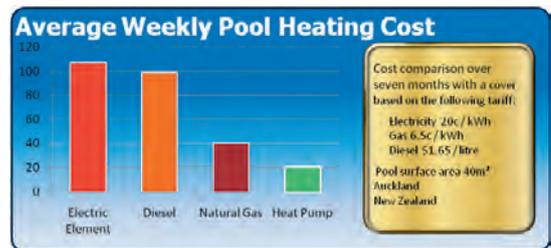
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SOLAR POOL HEATING SYSTEM

A Heliocol solar pool heating system can double a swim season in any climate by stretching swimming days into the spring and autumn. In warmer, northern regions, swimmers can enjoy their pool virtually year round with solar.

With no moving parts and a durable construction, Heliocol systems are designed for decades of trouble-free performance. Unlike other solar pool-heating systems which connect with rubber hoses and metal clamps that require regular service and replacement, Heliocol patented components are designed to last without maintenance and without replacement. The system comes with a 25-year warranty.

Heliocol

Contact info and more items like this at wf.net.au/W739



TITANIUM HEAT PUMP

Supreme Heating has a range of solar heating products designed to minimise running costs and CO² emissions, including the Heatseeker Solaire Titanium Heat Pump in its range.

Heat pumps are designed to heat a pool using electricity, by extracting energy from latent heat in the air and delivering up to five times more energy in heat than it consumes in electricity. The technology is based on the same principles employed in air conditioners and refrigerators.

The Heatseeker Solaire heat pumps provide quiet, energy-efficient, environmentally friendly and affordable pool heating all year round. This will ensure that clients receive maximum value out of their backyard pool investment.

Supreme Heating

Contact info and more items like this at wf.net.au/W693



SWIMMING POOL AND SPA HEAT PUMP SYSTEM

Hot Water Heat Pumps' Thermoplus (THP) Series Heat Pump is specifically designed for heating swimming pools and spa pools to temperatures up to 40°C. The heat pump has been designed for the commercial and domestic swimming pool and spa pool industry.

The heat pumps have been manufactured, keeping the harsh weather conditions and corrosion aspect in mind. The heat pumps have an ABS (acrylonitrile butadiene styrene) plastic cabinet and all structural components, along with the fan guards, are stainless steel powder coated.

The temperature is controlled by the specially designed electronic temperature controller with its main features being accurate temperature control to 0.1°C, diagnostic digital display, user-friendly operation, quick and easy temperature adjustment and constant display of water temperature when filtering.

Hot Water Heat Pumps

Contact info and more items like this at wf.net.au/W740



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LARGE AND COMMERCIAL POOL HEAT PUMPS

The Zodiac heat pump range caters for all size pools from the small plunge pool right up to Olympic size. The largest Zodiac heat pumps, the Zodiac PowerForce range are designed to take on pools from around 100,000 up to 150,000 L. The all season design means that not only will it keep the pool warm in winter they will also cool the pool water down in the hotter climates.

Some key features of the Zodiac PowerForce range include soft starting rotary compressor which helps reduce current draw at start up, and inverter fan with roller bearings which make operation quiet and efficient, titanium condenser for greater durability and reliability, all season capability for heating in winter and cooling in summer and it's available in two sizes, 25 and 35 kW.

Zodiac Group Pty Ltd

Contact info and more items like this at wf.net.au/W697

SPA AND DOMESTIC POOL HEAT PUMP

Waterco has expanded the Electroheat heat pump range with the introduction of the MKIV. The smallest model within the family effectively heats both spas and domestic pools.

Whether a client has a two-person spa, a swim spa, plunge pool or a domestic pool, this heat pump is an ideal heating solution.

The MKIV incorporates dual-coil titanium heat exchanger technology, which provides greater surface area for increased heat transfer performance plus ensures total protection against erosion and corrosion.

In addition, the MKIV has been built with ozone-friendly R410A refrigerant, which is environmentally friendly and also improves the heat pump's performance.

To suit both spas and pools, there are four models - the 12, 15, 19 and 23 kW. All of the models operate in temperatures as low as 10°C.

The MKIV has also been designed with ease of use and maintenance in mind. For example, the 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.



Waterco Limited

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TITANIUM HEAT PUMP FOR DOMESTIC POOLS

The Hayward Titanium EnergyPro heat pump provides an energy-efficient solution to pool heating. With its titanium heat exchanger, EnergyPro heat pumps heat pool water efficiently while maintaining a quiet, relaxed backyard environment. The EnergyPro heat pump is designed to economically extend the swimming season.



The pump is suitable for in-ground, on-ground and above-ground pools of all sizes. Some of the other features of the heat pump include the use of a strong,

high-efficiency titanium counter-flow heat exchanger for trouble-free performance, profiled fan blade design that provides improved airflow and silent operation, a hot gas defrost valve that enables the unit to operate at lower ambient temperatures and a digital keyboard that allows all operation parameters to be set and displayed on the control panel.

Hayward Pool Products Australia

Contact info and more items like this at wf.net.au/W313

SINGLE- AND THREE-PHASE HEAT PUMP



The Rheem RA Series heat pumps are designed to the Florida

Minimum Energy Performance Standard of an efficiency (COP) of 4.0 at 10°C ambient. The COP increases to between 6.0 and 6.5 at 27°C, which results in lowered heating costs.

The efficiency at colder temperatures is achieved by an over-sizing of the unit's evaporator. A larger 'collector' area gives more heat capture as the air becomes colder, making the RA units well suited to Australian conditions.

The heat pumps are manufactured in the USA to high-quality standards and also offer the availability of accredited performance data online and product support from Rheem.

The unit is available from 22.3 to 30.1 KW output, single and three phase.

Rheem Pool Heating

Contact info and more items like this at wf.net.au/W737



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PROJECT COMPLETE

TROPICAL HIDEAWAY

Located in Noosa Waters, Queensland, a house with the official title 'Tropical Hideaway' has a number of stunning architectural features, but none more so than the property's pool and spa. From the front door a pebble creek runs through the central courtyard leading guests to the sprawling pool, round acrylic spa, 'floating' round sundecks, mosaic infinity wet edge, lavastone waterfalls and timber bridges that link the house and entertainment pavilion.

Designed by Chris Clout Design and built by Coastal Pacific Pools, the teams collaborated with Pool Windows - the company that supplied and installed the acrylic spa to create the oasis, which has since won a number of awards.

The clients, based in Melbourne, had the house and pool constructed as their holiday house, so it was essential for the space to feel like a resort. The clients also wanted the pool to be private, so the house was designed around the pool, making it the focal point of the house.

Chris Clout, who designed the house and pool, said, "The design style is modern tropical resort style, stemming from Balinese themes. The curves were incorporated because of the site, which was a wedge shape that opened onto the Noosa Waters canal. The tropical theme was enhanced by the turquoise pool colour mixed with natural materials such as stone and timber, and enhanced with tropical landscaping.

"The key to good design is balancing aesthetics with function and meeting the client's brief. We feel the aesthetics of this pool not only meet the client's brief but give a space that truly inspires. The internalised design we used of the pool had many great advantages for the house such as cross-ventilation, directing breezes, natural air cooling and privacy.

"The main issues we had with the design process were pool fence locations, convincing the client to include a wet edge, the location of the pool equipment and the creek design.

"The pool fence location was an issue for the clients because they didn't want the fence near the pool area or to have it interrupting the natural flow of the spaces. We addressed this by installing the pool fencing around the outside of the entertaining pavilion so it was out of the way and allowed the space between the pool and the pavilion to be used easily.

"With the wet edge, we provided a design solution which included a curved deck with a stainless steel channel so the catchment tray is hidden. This also provided another link between the areas on the lawn near the canal.

"We hadn't seen a round spa done before and were pushing the boundaries; our issue here was finding someone that would manufacture it, and we did," said Clout.

After some discussion, the pool equipment was installed underneath the terrace, right next to the pool. The curved deck provides a handy



access point. The water tanks for the site are linked to the pool for topping up. Additionally, the water from the pool is pumped up to the top of the creeks, which then runs back to the pool.

Noosa Lighting provided the Megabay pool lighting, in dark blue, and also the Aqualux spike landscape lighting. Because of the complex shape of the pool, the internal pool surface was pebblecrete and the exterior surface on the wet edge was Trend Tile mosaics in a colour palette custom designed for the project. Lavastone cladding was used on the water columns, with lavastone pebbles for the creeks and cream marble coping.

"The round acrylic spa has gotten everyone's attention and we think that is what makes this pool a winner. The clients just love it, it has a lot of beautiful features and the size of it compares with many resort pools."

Equipment specifications

- Pool pump - Hayward super ii 411
- Pool filter - Hayward 31" pro series
- Pool sanitation - CPS3 chromatiliser
- Pool heating - rooftop solar
- Spa pump - Hayward super ii 316
- Spa filter - Hayward 27" pro series
- Spa sanitation - CPS3 chromatiliser
- Spa Heating - Oasis 17 kW heat pump
- Spa blower - Spaquip 1380
- Wet edge pumps - 2 x Hayward 411 super ii
- Control system - Clevelink 8 channel

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PRODUCT PAVILION



PRESSURE-SIDE CLEANER PUMP

Pentair has released the Max-E-Boost booster pump for pressure-side cleaners. The pump features a 1.5 hp (1100 kW) motor with a single-stage impeller design.

The pump features all stainless steel fasteners, mechanical seal and shaft. It is manufactured in Australia and compliant with Australian standards.

Pentair Aquatic Systems

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PHOTOMETER DISC

LaMotte has released the latest version of reagent disc for the WaterLink Spin, a new photometer that gives accurate measurements of nine different water-quality parameters in 60 s.

The disc differs from the previous version in three ways. Firstly, it includes a borate test along with the current tests for free and total chlorine, pH, total alkalinity, total hardness, cyanuric acid, copper and iron.

Secondly, both the accuracy and sensitivity of the tests have been improved. And, thirdly, the disc has been changed structurally to reduce the chance of air bubbles making their way into its reagent wells, as the inadvertent introduction of air bubbles can cause testing errors.

LaMotte has also developed another disc, which includes a test for phosphate rather than borate. This disc is being tested and Vendart, the exclusive Australian distributor, expects to have it available before the December 2014.

Vendart Pty Ltd

Contact info and more items like this at wf.net.au/W685



PRODUCT PAVILION



POOL GATE SAFETY LATCH

The MagnaLatch Series 3 can be fitted to almost any gate of any material, without special tools, plus it can be adjusted to accommodate gate sag or ground shift.

One of its features is the 'top pull' safety gate latch that is out of reach of toddlers. Its magnetic action shuts every time and stays shut. It is also key lockable for extra safety, can be rekeyed to conveniently match other locks (such as the front door) and has a visible lock indicator, letting the owner see at a glance when it is locked or unlocked.

MagnaLatch is rust and stain resistant, meets Australian Pool Safety Standards and comes with a lifetime warranty.

Pool Systems

Contact info and more items like this at wf.net.au/W264



QUARTZ FILTER MEDIA

Kiwi Pool Products has released a quartz filter media for swimming pools that provides clear water by creating a natural form of ionisation when the water passes through the quartz. This form of ionisation can assist the reduction of chemical usage.

As the water passes through the quartz, it creates an ion charge which, in simple terms, acts like a magnet attracting fine particles to be filtered out of the water. The quartz filter media claims to filter down to 3 microns. It also has the ability to remove rusty water caused by steel pipes as well as assisting in the removal of iron from groundwater.

Kiwi Pool Products

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POOL HOISTS LIFT SPIRITS



Pool hoists give those with a disability the ability to access a pool and all of the benefits that water immersion and swimming have to offer. Released in February 2013, an update to the disability access legislation outlines that new facilities and facilities undergoing an upgrade must provide access for those with disabilities. *Pool+Spa* investigates the pool hoists available in today's market.

Water therapy has long been an important part of recovery and ongoing activity for people with all levels of disabilities. It is low impact and takes the weight out of sore joints and muscles and can also give severely disabled people a sense of freedom. But without a pool hoist or ramp, most people with disabilities are unable to access pools or spas. For this reason, an update to the legislation, *Disability (Access to Premises - Buildings) Standards 2010* was released in February 2013, which states that any application for a building approval for a new building or upgrade of an existing building will now trigger the application of the Premises Standards. The Premises Standards require at least one form of access be provided to swimming pools open to the public if the swimming pool has a perimeter of more than 40 meters.

Types of hoists

Some pool hoists available are able to assist people who have low-level need, such as those who have knee or hip problems

or the elderly wanting to gain access into a pool - these hoists usually have a solid plastic seat. Other pool and spa hoists are designed to allow people with all levels of disabilities access to the pool. These lifts can be interchanged with a floating sling, a solid plastic seat, a rescue board and an aquatic wheelchair, which can be used on the hoist and into the pool then used around the pool environment. This enables access for all levels of disabilities.

Pool lifts are generally anchored in a concrete foundation, but a pool lift can also be surface mounted. The three basic categories for pool lifts are:

1. Hydraulic - the style is similar to an in-home patient lift with a hand-pump mechanism to raise and lower the lift in the water.
2. Hydropowered - these pool lifts are operated by water pressure. As long as ample pressure is available then these pool lifts are a great addition and low in maintenance (ie, no battery to recharge). Hydropowered pool lifts can be run off of a standard garden hose.



3. Battery powered - the battery-powered class of pool lifts has a removable battery that operates the lift. On some models the battery powers the raising and lowering of the person into the pool while the positioning of the person over the pool or deck is done by someone else. Other battery-powered lifts are fully operational, meaning they not only raise and lower the user but also rotate the lift from the pool side to the water. These fully powered pool lifts can, therefore, be operated by the user with no other person in assistance.

There are also a number of portable pool lifts available that require no installation. These are a solution for commercial facilities with multiple pools.

Ceiling hoists are sometimes used in indoor pool environments. Some specialist schools choose this option as it allows the user to transfer directly from the change room into the pool.

Greg Rendell, from Total Mobility - which supplies high-quality commercial lifts, advises that the best solutions are those that are flexible. "Our manufacturers make lifts that are multifunctional.

They come standard, say, with a hard seat for somebody who maybe just needs to be lowered into the water, but is otherwise mobile. Alternatively, the seat can be replaced with a sling job for the client who needs to be fully hoisted in a sling. And further, they can even lift a person in a wheelchair, or one model even lowers the full wheelchair on a platform into the water."

Louise Willemsen, from Para Mobility - an Australian company that manufactures pool and spa access lifts, says that more and more groups of people are now accessing public pools since the introduction of the legislation.

"Seeing the joy on a disabled person's face when they can finally get into the water really is a wonderful experience. We are pleased that we can make a product that can make everyday living easier."

Domestic hoists

In a domestic situation a lift can be tailored to the one user and their specific needs. The pool builder should know the clients' weight and what their specific need is then they can ascertain what sort of hoist they need. Additionally, the pool builder must assess the pool surround. Where is the most suitable location to anchor the pool hoist? When a disabled person transfers from a wheelchair or even from standing, there must be enough room for the person to complete the transfer with room remaining to move away a wheelchair, etc. Consideration also needs to be given to the location of the stairs. If the user of the hoist requires a carer to assist with loading and unloading is there adequate access for them to quickly enter and exit the pool when required?

Pool builders are often required to install the pool hoist, so they need to ensure that there is adequate concrete for the hoist to be anchored. In some cases a large hole up to 200 mm deep will need to be drilled, while other models can be fastened to concrete that is a minimum of 100 mm thick. These models can be installed within two hours with no special tools required.

Commercial hoists

For the purposes of this article, a commercial pool can be defined as a pool that is open to the public, including council pools, hotel pools available to all residents, and health centre pools, with a perimeter of over 40 meters. To comply with the updated Premises Standard, new pools that fit within this description and existing pools planning to upgrade their facilities must provide at least one form of access for those with disabilities such as a sling-style lift, a platform lift, a zero-depth entry style or a fixed or movable ramp. If the swimming pool has a perimeter of more than 70 meters, however, at least one means of providing entry must be by a ramp, zero entry or platform lift. It is the responsibility of the builder and facility operator to ensure they are complying with the Standard.

Rendell from Total Mobility believes when installing the lifts the most important consideration is the construction of the pool surround. "Basically, the installation process is quick and easy if the



SEEING THE JOY ON A DISABLED PERSON'S FACE WHEN THEY CAN FINALLY GET INTO THE WATER REALLY IS A WONDERFUL EXPERIENCE.

deck is solid and has enough thickness to provide the necessary strength. We can accommodate any pool design, but first need to know the pool deck profile, the materials used and where the hoist is going to be located. The fittings and fixings can then be adjusted accordingly. As long as there is enough concrete or solid material to allow the hoist to be secured, then most pool profiles can be accommodated.”

There are several options available for commercial facilities, depending on the size of the pool. To comply with standards, the pool operator is required to install a sling-style hoist or alternatively a ramp and aquatic wheelchair. According to Willemsen, in most cases the builder and the customer choose the hoist rather than a ramp. “As an example with the ramp option, it doesn't allow all levels of disability access, as some clients are not able to sit in a standard chair of any type and need to use a sling for access into the pool. Also, if a client is heavier than the carer/lifeguard, the exertion necessary to wheel the user out of the pool is extreme and not a good example of occupational health and safety.”

“In our situation, we find that no two pools are the same, so we manufacture the pool hoist specifically for the client or architect. Pool decks can range from wet edge to older-style pools with hobs or raised edges. We are able to offer a variety of options, such as the choice of having the hoist made to suit a number of location points at the pool, colour and, if they have a spa, manufacture the hoist for use in this area too.”

“Once an order is placed, it generally takes two to four weeks for an order to arrive, then the installation only takes approximately two hours. While detailed instructions are supplied with the equipment, it's generally a pool builder or a tradesperson who will install the lift - alternatively the supplier can arrange to do the installation.”

When installing a commercial hoist there are several important considerations. The pool owner/operator and the builder both need to ensure there is enough room to pick up and unload the client. Consideration must also be given to the carer - is there enough room for a carer to safely assist the user on and off the hoist? A hoist with a 360 rotation will make it easier if there is limited room. Additionally, similar to domestic hoists discussed earlier, the hoist should be placed in close proximity to steps to ensure the carer can access the area quickly to assist in unloading the user from the hoist in the pool. This is a requirement outlined in the standards.



Manufacture and maintenance

As in all areas of pool equipment, there are a number of pool hoists on the market being manufactured overseas. Consumers need to ensure that the quality of the pool hoist will withstand the Australian climate and the harsh conditions that can be found in pool environments.

Quality pool hoists are manufactured using stainless steel, meeting Australian standards, with parts such the actuator, control boxes, batteries and hand controls receiving a high IP rating. When budgeting for a hoist, entry-level models start at approximately \$8000 and upwards to approximately \$16,000 for a premium model.

“The more expensive are generally battery powered (while cheaper ones can be water powered), and have lift actuators that exceed weight ratings and offer long life in the corrosive environment of chemical and saltwater pools,” said Rendell.

“It is good practice for an annual service to be carried out, otherwise there is very little maintenance required other than checking the battery to ensure connection is being made,” said Willemsen.

Those wanting to view the legislation, *Disability (Access to Premises - Buildings) Standards 2010* can go to <http://www.comlaw.gov.au/Details/F2010L00668>.



POOL COVER STORAGE

The Ian Coombes fibreglass under-bench storage provides a safe storage space for pool covers when they are not in use, as well as providing bench seating. This under bench can have up to four inline rollers that can be operated independently of one another either manually or with the company's Poolie's Pal Autowind winch.

The fibreglass under bench has many of the same components as other timber and recycled plastic under benches in that they are all made using stainless steel construction including reel tubes (no aluminium used), however, they differ in that the bench top can be manufactured in virtually any colour.

Ian Coombes Australia

Contact info and more items like this at wf.net.au/W689

IN-FLOOR CLEANING SYSTEM FOR FIBREGLASS POOLS

Cooke Industries has released the QuikClean Xtreme in-floor cleaning system for use in fibreglass swimming pools. The G4V venturi cleaning heads and AVSC channel drain are inserted into the pool shell to ensure a watertight seal for the life of the pool. The design software positions the cleaning heads for optimal system efficiency and cleanability.

The system incorporates the QuikSkim venturi skimmer and can operate on a single, variable-speed pump, potentially saving on installation and long-term operating costs.

The venturi-powered, in-floor cleaning heads can increase the cleaning zone by 33% without adjusting pump flow or energy use. The benefit of this technology is that it enables pool owners to wind back their variable-speed pumps to further reduce energy use.

Cooke Industries

Contact info and more items like this at wf.net.au/W312

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PRODUCT PAVILION



POOL ENCLOSURE

The Pool Enclosure Company's Oceanic High pool enclosure combines vertical walls and an angular design. This serves as a functional solution to provide usable space inside the enclosure as well as a contemporary design.

Typically, an Oceanic High enclosure design will be over 2.5 m tall and feature at least one large entrance door, although all TPEC enclosures are custom designed to their client's requirements, taste and site capabilities. The pool enclosure is a functional and cost-effective alternative to building an indoor pool.

A recent project in Toorak, Victoria, is a good example of the highly customised design potential of not only TPEC enclosures, but the Oceanic High model itself. It features three entrance doors, smoked twin-wall polycarbonate in the roof, a large fixed segment over a raised spa area and two different track heights, meaning that the enclosure was lower on one side of the pool.

The Pool Enclosure Company

Contact info and more items like this at wf.net.au/W690



MINERAL POOL SYSTEM

International Quadratics has introduced a mineral pool system as a part of its residential equipment division, Theralux.

The system's eco-friendly and easy-to-use pool filtration technology is now available. The mineral-based system utilises the fully automated and easy-to-use Therachlor chlorinator, which can run at a

low TDS level of 3000 ppm. The Therachlor chlorinator works with the Theraflo True Variable Speed Pool Pump, an 8 star energy rated pump with a digital RPM display.

The next component in line is the twin-layered durable Theraclear Filter. Here, water flows through the Theraclear recycled glass filtration media providing fine porosity filtration. An easy addition to the system is a Theratherm Heat Pump, a range of horizontal designed heat pumps that allow for therapeutic bathing.

International Quadratics

www.interquad.com.au

SPA CONTROL SYSTEMS

Aeware in.ye-5 spa control systems add to the range of Gecko's in.xe and in.xm2 spa packs, manufactured in Canada and available from Australian Spa Parts.

In.ye-5 spa packs are fully programmable to control the equipment in just about any spa fitted with up to three jet pumps and blower.

Fitted with a 3.0 kW heater, they suit 15-40 A connection on single-, two- and three-phase. Equipment connection is via AMP sockets inside the control box or via direct wiring connection to the relays, making them suitable to retrofit.

The heater tubes are standard 15" and require no replumbing when replacing Balboa, Gecko and Hydroquip controllers.

There is a range of seven different-sized touchpads with varying function to suit Aeware controllers including two full-colour display touchpads with 'weekender' mode capability.

Aeware in.ye-5 spa controllers are also compatible with in.touch Wi-Fi smartphone modules, IR remotes and secondary/commercial touchpads, which are also stocked.

Australian Spa Parts preprograms all Aeware spa controllers as an included service.

Australian Spa Parts Pty Ltd

Contact info and more items like this at wf.net.au/W322

SUBMERSIBLE WATER PUMP

The V-Pump from Poppits is a totally submersible pump, designed for draining swimming pools, hot tubs, ponds, aquariums, boats, trenches, construction sites and flooded basements. The pump does not require electricity or motor oil and has no moving parts, such as a rotator.

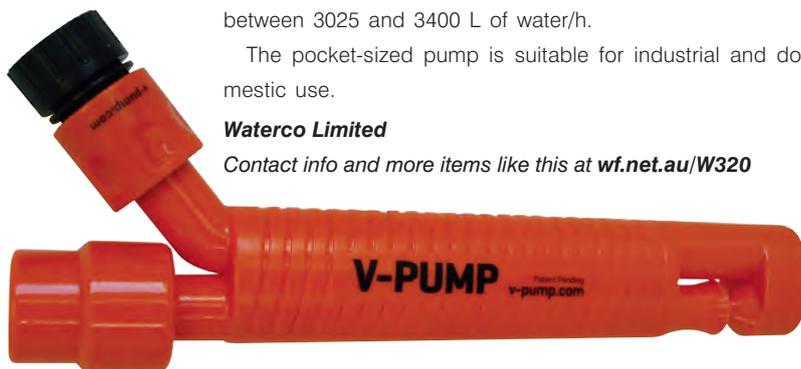
To operate the pump it must be connected to a garden hose and turned on. The vacuum created by the water passing through the pump removes extra water, mud and other debris.

By using the pressure from the garden hose, this simple but effective submersible pump will drain up to 4500 L of water/h with optimal water pressure. The average output is between 3025 and 3400 L of water/h.

The pocket-sized pump is suitable for industrial and domestic use.

Waterco Limited

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For more information visit www.pentairpool.com.au



GLASS BLEND POOL TILES

The Pool Tile Company has added the Oyster, Abalone and Nautilus ranges to its selection of pool interior tiles and waterline tiles for both commercial and domestic pools.

At 25 mm, the glass mosaic tiles are slightly larger than other ranges.

From a practical point of view, the tiles are claimed to be more durable and easier to clean and maintain than cement-based finishes and soft on bathers' hands and feet.

The Pool Tile Company

Contact info and more items like this at wf.net.au/W310

FIBREGLASS WADING POOL

Narellan Pools has introduced the Harmony Pool to its range - a wading pool that can change a pool into an 'L shape' or an extra-long pool.

Suitable for children or for adults to lounge, the Harmony Pool can be run on a separate water circuit with its very own heating system, allowing owners to control the temperature between the Harmony pool and the main pool.

The Harmony is a standalone module that can be mounted onto any Narellan Pool during construction. The Harmony Pool is 0.4 m deep 2.0 m long and 3.49 m wide.



The Harmony Pool can be colour-matched to all 15 different colours and finishes available at Narellan Pools, or made in a contrasting colour for a more striking look.

Narellan Pools Geelong North and Ballarat

www.narellanpools.com.au

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The million-dollar smile

The million-dollar smile costs nothing BUT is worth a million dollars. A simple smile provides the first step in your communication with the customer. It's where customer loyalty either begins or ends. A smile can greatly impact the customer's overall experience of a business and can ultimately influence whether they will remain loyal customers. Excellence in customer service doesn't come about by accident. It must be carefully characterised, planned and managed. The magic trick isn't announcing that your company delivers excellent customer service - it is actually delivering it, day in and day out, across all communications you have with those that internally and externally support you.

Customer service is an ongoing process that should begin on the employee's first day and continue throughout their employment. The key to training a top sales team is reinforcing their skills and letting them know you care, by not only highlighting the things they do right, but providing constructive criticism when they fall short on delivering excellent customer service.

As customers ourselves, we have all felt the growing frustration of waiting unnecessarily, being ignored or facing poor service when doing our own shopping. Just think about the number of times you have encountered a bland and indifferent salesperson. Did it affect your experience of the business? Probably, yes. Would you think twice about shopping there again? Most likely, yes. So it seems obvious that something as simple as a smile along with great customer service can completely change people's experience and perception of a business.

Customer service with a smile can no longer be viewed as an option for any business but rather a distinguishing factor between a successful and unsuccessful business.

The swimming pool and spa industry competes against the boating, caravan and holiday sectors for consumer high-value discretionary spending. These competitive industries continue to make good ground as a consequence of them promoting the fun and benefits families will experience by buying their products. Of particular note is that anyone having dealt with these sectors will be quick to tell you about how "they were looked after", "nothing was ever a problem" and the "service was exceptional".

Swimming pool and spa businesses can transform themselves and generate renewed consumer demand for our products by smiling, talking up the industry, providing great customer service and by delivering the expectation that was promised to the customer on day one.

Feedback welcome to spiros@spasa.org.au.

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The building requirements, outlined by the Building Code of Australia, that have been in place for a number of years for Class 2 (buildings containing two or more sole-occupancy units each being a separate dwelling) and Class 3 buildings (residential buildings such as a hotels, motels or schools etc), have now been included for Class 1 buildings (a detached house). Previously, pools in Class 2 and 3 buildings required a cover when all or part of the heat source was generated by gas heater or a heat pump, providing the swimming pool is not located within a conditioned space. This building requirement has now been introduced for class one buildings. This means that all new outdoor pools in residential homes, that are heated from a source other than solar heating, must be fitted with a pool cover.

For spa pools, if some or all of the heating of the spa pool is by gas heater or a heat pump, it is required to have a cover regardless of whether the spa pool is located within a conditioned space or not. This requirement has not changed.

However, it should be noted that while the Australian Building Codes Board sets the framework for the standards, a number of states and territories have introduced variations to the requirements. Some of these variations include:

- Western Australia - All new pools, both commercial and residential, require pool covers regardless of their heating.
- New South Wales - BASIX insists that any pool renovation or new pool with over 40,000 L requires a cover.
- Victoria - The Living Victoria Water Rebate Program offers a rebate for those who install a pool cover. Details can be found at www.yvw.com.au.
- Queensland - South East Queensland has implemented permanent water conservation measures. Under this requirement, any pool owner wishing to top up their swimming pool must have 3 out of 4 water-saving devices installed before they top up their pool. More information can be found at www.dews.qld.gov.au.
- South Australia - SA Water requires every pool that needs to be filled to have a Smart Watermarked Approved pool cover. See www.sawater.com.au for more information.
- Northern Territory - The Central Australia Waterwise Rebate Scheme offers rebates for those who install water-saving devices, including pool covers. See more at www.lrm.nt.gov.au.

Rural property saves tank water with pool cover

Derek Prince, managing director of Daisy Pool Covers, said, “Domestic installations are typically very easy but the interesting ones can get a little tricky.”

The team from Daisy recently completed a rural cover installation for an outdoor pool 6.2 x 13 m in the Perth Hills. All new pools in WA are required to install a pool cover, so the pool owners were obligated. Additionally, the pool owners used tank water and wanted to take steps to conserve their water supply.

“This installation was relatively simple to complete, just by covering the whole area of the pool and trimming it to shape.

“The Daisy, Series 8 Green cover was selected. The clients wanted the most cost-effective grade of cover and the green colour was selected to match with the surroundings.

“The owners opted for a manual 5 Star FM roller to get the cover on and off the pool. The installer typically spends 5-10 minutes with an owner to demonstrate operation.

“The owners have already commented that they have wasted no water since they have had the cover installed, and that they love the warmth of the water. The pool was finished for a short period of time before the installation so they had the benefit of experiencing the cold pool using water before the installation and now experiencing the savings and warmth.

“This client can expect a solid eight years from their cover with very minimal maintenance, only to keep the cover protected with the over cover (supplied) when it is rolled up off the pool, and to flush the cover with fresh water if they are storing it for a period of time.

“Commercial and domestic covers do exactly the same job; regardless of installation, a pool cover will save water (by stopping 97% of evaporation) and insulate and heat the water up to eight degrees. Most domestic clients double their swimming season just by installing a pool cover; not to mention, they can now swim at night because the pool does not cool down when the sun sets,” said Prince.

Covers to save aquatic centre \$67K annually

Sunbather recently completed a commercial pool cover installation at the Devonport Aquatic Centre, a new, indoor aquatic centre consisting of a 25 m pool with a ramp, freeform leisure pool, learn-to-swim pool and warm water exercise pool covering a total of 600 m² of pool surface area.

Pam Robinson, commercial manager of Sunbather Pool Technologies, was consulted early in the development of the project to design a cover and roller system that would minimise operational issues and fit in with the available space.

“A mix of wall-mounted and floor-mounted automatic rollers was decided to be the best solution for the project, with the addition of one small mobile roller for the cover that’s used on the leisure pool. The leisure pool is full of obstacles (play equipment) so the covers were tailored to fit as much of the pool as possible and still be easily managed by the operators.

“The Sunbather Super Thermal Cover was chosen for this project. It is a heat retention cover and is able to be used easily with the wall-mounted, motorised roller systems,” said Robinson. Each Sunbather automatic roller is operated with a remote control and has limits set so that it stops in the correct position when the blanket is deployed and retrieved.

“Retraction of the cover is automatic. To deploy the cover the roller will unwind while the operator stands at the opposite end of the pool and gently guides the cover into the correct position. Ease of use is a major consideration to ensure the thermal covers are in operation, as there will be no savings made if the covers are difficult to operate and do not get put onto the pool when it is closed.

“Maintenance is very basic with thermal covers; it is really important to note that the Sunbather Commercial Rollers have an exclusive location device. This device eliminates the covers being rolled onto the roller incorrectly and creasing. Once the covers become creased from operator error they become difficult to operate. If there is any issue with operation then the customer needs to contact Sunbather for advice and or service. Sunbather does recommend that large centres take up the annual service contract,” Robinson said.



The life of a thermal cover on a commercial pool can be up to 10 years. The construction and the detail of the Sunbather commercial and domestic covers add strength and life to the blankets. Wherever possible, the Sunbather blankets are tailored to fit between the lane ropes bounding two lanes. This reduces wear and tear on the blanket and also acts as a guide to track the blankets for deployment and retrieval.

Robinson recommends that any operators that are not using thermal covers and rollers on their pools enquire about the type of systems available. Sunbather also offers a free energy audit that gives estimated savings and, in the case of the unheated outdoor pool, the rise in temperatures that can be achieved by adding the thermal cover system to their centre. "Most operators are amazed that the return on investment on these systems is usually around 12 months," Robinson said.

According to Sunbather, Devonport Aquatic Centre now enjoys a saving of over \$67,000 with the energy savings these covers will deliver.

Lane ropes destroy school pool cover

The team from Abgal Liners and Covers was contracted to install a cover for a 25 x 25 m pool at John Paul College, Daisy Hill, Queensland. The pool, used for club training, kids classes and school swimming carnivals, did have a cover but it needed to be replaced and upgraded to a stronger grade of fabric, and one with better insulation qualities.

Garry Long, managing director of Abgal Liners and Covers, assisted the school in identifying a suitable cover upgrade. "One of the factors with the old cover was damage caused by the lane

ropes. It is preferable for lane ropes to be removed when fitting a multisection cover to a large swimming pool and unfortunately, the covering of the pool is left to the last swimmers and therefore the easiest method is often the one chosen, but it's not often the best. In this case, the cover sections have been dragged on and off the pool using an automated winder, and when the cover got caught on the lane ropes the power of the winder kept pulling to where the covers got damaged and torn.

"The client wanted to minimise the time to cover the pool. So the new covers have been designed to fit between the lane ropes to allow the cover to be put on the pool and removed with the side lane ropes still in place. This will minimise the wear on the cover sections whilst making it easier to operate the covers, not having to remove all of the lane ropes each day.

"The client selected the Heatshield thermal foam three-ply cover by ABGAL. This fabric has a closed cell insulating foam core with two layers of reinforced polyethylene fabric outer. The reinforced fabric gives the cover additional strength whilst the foam core offers superior buoyancy and insulating properties.

"The cover is made in five sections each 5 m wide across the pool. These sections are stored on three storage rollers. No additional training was required as we were able to re-use the existing storage rollers and minimise the upgrade cost to the stronger Heatshield thermal cover style," said Long.

The pool will have reduced heat loss due to the insulating qualities of the Heatshield cover fabric and cover sections that are easier to use as they are designed to fit between the side lane ropes in the pool.

The new covers are expected to last at least five years and the maintenance is minimal. Just a regular inspection of the cover sections is required to ensure there are no edges wearing or small tears so these can be addressed before they become costly to repair.

"When you consider the reduced evaporation, chemicals and cost of heating, there are considerable savings in operating a heated swimming pool and therefore the pool is much more energy and cost effective when covered.

Pool covers work well when combined with a storage reel as this makes it easier to use and therefore ensures the cover is a major benefit to a pool owner or operator," Long concluded.

The benefits of pool covers are indisputable. If your commercial pool or a pool you are building remains uncovered, see the pool cover product pavilion for more cover solutions.

BUBBLE-SHAPED SOLAR POOL COVER

Supreme Heating Heatseeker Diamond bubble-shaped solar covers increase heat retention, eliminate evaporation and reduce running costs in terms of maintenance and pool chemical consumption.

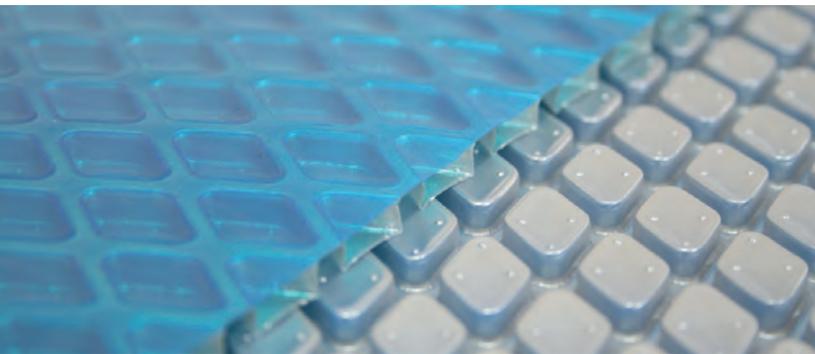
The solar covers will reduce water evaporation by up to a claimed 97%, providing water savings of approximately 50,000 to 70,000 L per year depending on location. By conserving pool water, chemical consumption will also be reduced by 50 to 70%.

The pool cover will increase heat retention by up to 75%, reducing CO² emissions and saving on energy normally used to run auxiliary heating systems. An outdoor pool gains heat from the sun's energy and loses heat through water evaporation and convection. A pool cover maximises the absorption and retention of heat from the sun and will increase the pool temperature by as much as 8°C.

An additional advantage is the reduction of dust and debris entering the pool, which will reduce the pool's maintenance.

Supreme Heating

Contact info and more items like this at wf.net.au/W694



VARIABLE-SPEED POOL PUMP

The Pentair IntelliFloXF variable-speed pool pump has redesigned interior passageways and parts for smoother, more efficient operation.

The redesigned interior means the pump uses less energy to deliver the flow required.

These operating hydraulic improvements are paired with Pentair IntelliFlo variable-speed technology.

The pump features higher flow rates and larger pipe fittings (65/80 mm), suitable for semi-commercial applications.

Pentair Aquatic Systems

Contact info and more items like this at wf.net.au/W318



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For More Information, Contact Peter Rabbidge on (02) 4651 2377 or 0407 078 075 www.zelbrite.com

PRODUCT PAVILION

CHLORINE- AND BROMINE-FREE POOL AND SPA SANITISER

Aquaspa by Lo-Chlor is a chlorine- and bromine-free alternative for the treatment of domestic spas and hot tubs throughout Australia. Aquaspa is fully registered with the APVMA as a recognised sanitiser for spas.

The sanitiser component is manufactured to be gentle on skin, hair and clothing, as well as having no harsh side effects on either the spa or equipment. It is specially formulated to control the growth of bacteria and disease.

The technology behind Aquaspa is a combination of three products, the base of which is known as PHMB or polyhexanide and this is used in the sanitiser component.

Aquafresh, a chlorine-free range of products for swimming pools, is also available.

Aquafresh is a 3-part system, which need only be applied to a pool once a week. It provides a fully functional chlorine-free alternative for pool owners.

The Aquafresh Feeder has been developed and is in its final stages of testing. Once released to the market in July 2014, the Aquafresh system will not only be chlorine-free but also fully automated.

Lo-Chlor

Contact info and more items like this at wf.net.au/W330



ROBOTIC POOL CLEANER

Waterco has released the Admiral Ultra robotic pool cleaner offers two cleaning options. The one-hour 'fast-track' concentrated cleaning cycle focuses on the pool floor where the majority of debris is usually located. The three-hour 'full-clean' cycle is said to provide the ultimate in pool cleaning, scrubbing walls up to the waterline, floors and steps.

The robot has a number of distinctive features including three self-driven internal motors, one of which enables it to vacuum up water, dirt and debris through a built-in pump and then filter it through an internal filtration system. The dual direct-drive motors drive two powerful scrubbing brushes and propel the robot around the pool, technology which allows for automatic and systematic cleaning of the pool without relying on the operation of the pool's filtration equipment. The in-built navigation system prevents the cleaner getting caught on any obstacles and the intelligent programming feature sends the cleaner in a different direction every time, enhancing pool coverage.

The robot is easy to operate, with no installation, hoses or additional equipment required. It's suitable for vinyl-lined, fibreglass, tile and concrete residential pools up to 9 x 12 m. It is also said to be the lightest cleaner available and has a patented kink-resistant power cord, and a two-year warranty.

Waterco Limited

Contact info and more items like this at wf.net.au/V997





POOL COVER REEL

The Abgal Pool Liners and Covers HRA6 Advanced Reel is a pool cover reel with an adjustable attachment clamp for frame-style, above-ground pools.

The HRA6 Advanced Reel supersedes the HRA model, suits pools up to 5.5 m wide and has an adjustable 75 mm anodised tube.

ABGAL Liners and Covers Pty Ltd

Contact info and more items like this at wf.net.au/W687

TOUCH-SCREEN SPA CONTROL

Just Spas has launched the Touch Screen Touch Pad - SpaTouch.

Based on SpaTouch patented touch-panel technology, the SpaTouch is available as a standard feature on all Signature Platinum Range Spas and selected Cyclone Range Spas and is also available as an option on the majority of other Just Spas models.

Spa Industries Pty Ltd

Contact info and more items like this at wf.net.au/W326



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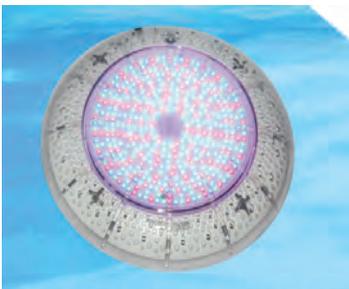
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Ultra Series Filtration Combo with Pre-Filter

Designed for easy set-up above ground pool, "ULTRA" Series filtration combo offers an economical solution with user-friendly operation. The combo includes durable top mount plastic filter tank, 4-way multiport valve and swimming pool pump attached with base.

1300 293 633 info@emaux.com.au
www.emaux.com.au

**PRODUCT
PAVILION**

WATERPROOF AND ANTI-FRACTURE MEMBRANE

Laticrete Hydro Ban is a thin, load-bearing, waterproof and anti-fracture membrane that combines optimum performance and good productivity. The membrane is rapid drying, allowing for faster time to tile.

Flood testing can take place in just two hours after final cure, as well as faster flood testing in cold temperatures.

Backed by a Laticrete System warranty, the membrane does not require the use of fabric in the field, covers or corners and bonds directly to metal and PVC plumbing fixtures.

Laticrete

Contact info and more items like this at wf.net.au/W686



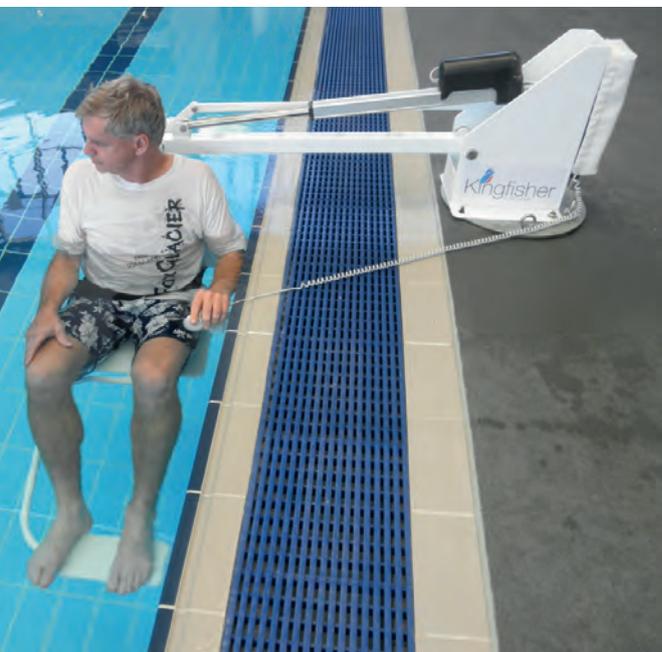
STAINLESS STEEL FITTINGS FOR FIBREGLASS POOLS

The Flolux range of stainless steel fittings for fiberglass pools are 316 stainless steel, have a high polish finish and impervious coating, and meet Australian standards.

The Flolux Fibreglass range includes the Flojet (directional eyeball return) Flosafe (50mm safety suction) spa jet and skimmer fascia. All Flolux fittings can be used in residential and commercial applications for use in any swimming pool or spa, including chlorine and saltwater. Flolux fittings have been used in the concrete industry for the past four years.

Flolux

www.flolux.com



COMMERCIAL POOL HOIST

The Kingfisher Pool Hoist by Para Mobility is 'self-user' and easy to operate, meeting the needs of clients wishing to be independent.

The Kingfisher is a mobile and compact pool hoist that allows a person with less mobility entry into a swimming pool or spa. The Kingfisher has been designed to blend into the pool surrounds without being intrusive and to withstand the harsh conditions of the Australian climate.

The Kingfisher is manufactured in stainless steel, has a powder-coated finish and a floating hand control allowing complete 'self-user' operation. With a flip-up seat and weight-bearing armrests, it also has a transport trolley for easy removal. A cover has been designed to fit over the hoist when not in operation.

With a lifting capacity of 150 kg and powered by a 24 V Linak rechargeable battery and actuator, the Kingfisher Pool Hoist suits most pool environments and can be modified to lift into spa pools.

Paramobility
www.paramobility.com.au

UNDERGROUND POOL COVER AND ROLLER STORAGE

The engineers and designers at Sunbather Pool Technologies have invented the patented Sunbather Downunder. The cover and roller is installed below ground level and out of the way, leaving the pool deck clear of clutter.

The Downunder is supplied in many sizes and is suitable for pools up to 20 m in length. It can be installed flush into timber decking as well as level with pool coping and pavers. The design options are endless. By ordering a Downunder with extra storage space, wet pool toys can also be stored out of sight.

The Downunder is an Australian invention, manufactured in Australia to handle tough conditions.

Sunbather Pty Ltd
Contact info and more items like this at wf.net.au/W692

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Coming Events

June

What: Swimming Pool and Spa Alliance Gala Awards Night

When: 14 June 2014

Where: Oatlands House, NSW

Website: www.spasa.org.au

What: SPASA Queensland golf day and awards evening

When: 21-23 August 2014

Where: TBA

Website: <http://spasa.com.au/index.htm>

July

What: SPASA Australia Gala Awards Night

When: 17 July 2014

Where: Gold Coast

Website: www.spasa.com.au

September

What: Bob Stanley Memorial Golf Day

When: 12 September 2014

Where: Stonecutters Ridge Golf Club, Colbee, NSW

Website: www.spasa.org.au

What: Splash! Pool and Spa Trade Show

When: 16-17 July 2014

Where: Jupiters Hotel and Casino, Gold Coast

Website: <http://www.splashexpo.com.au>

October

What: Interbad

When: 21-24 October 2014

Where: New Stuttgart Trade Fair Centre, Stuttgart, Germany

Website: www.interbad.de/

August

What: SPASA Victoria Spa and Pool Winter Show

When: 9-10 August 2014

Where: Melbourne Convention and Exhibition Centre

Website: <http://www.spasavic.com.au>

November

What: Piscine

When: 18-21 November 2014

Where: Lyon, France

Website: <http://www.piscine-expo.com>

What: Pool and Hot Tub Council of Canada (PHTCC) Industry Summit

When: 19 August 2014

Where: Wooden Sticks, Uxbridge, Ont.

Email: mette@rogers.com

What: Salon Splash

When: 20 November 2014

Where: Centre de foires de Québec, Canada

Website: <http://www.acpq.com/salon-splash/>



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