

Splash



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The ProMinent Magazine



Out of the daily routine – straight into enjoyment

Leisure pool Tiergartenstraße in Heidelberg

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How to learn swimming in Texas

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Dear readers,

Please allow me a slightly provocative question: Are you more of the type “resident bird” or “migratory bird”? Do you prefer staying at home or are you eager to see the world? I can tell you from my very own experience that there are many fascinating and unusual places to discover around the globe. But to be honest, it always feels good to come back home.



There are many ways to generate hygienically clean pool water – a very reliable and efficient option are our compact electrolysis systems CHLORINSITU® which eliminate the handling and storage of dangerous chemicals. More information provided in this magazine.

Fascinating, diversified, informative – enjoy reading this new issue of Splash!

Sincerely

Jürgen Weinert
Sales Manager
Pool Technology International
ProMinent GmbH

It does not matter whether it is a huge zoological project in Poland in which several pools for marine mammals and fishes are equipped with ozone systems and UV plants. Or whether it is the provision of absolutely clean pool water in several American swimming schools by means of a central measuring and control system.

In this issue of Splash we will show you, at which remote locations in the world ProMinent supports its customers with know-how and powerful products – the keyword is Arctic Circle.

For users of private pools among our readers or those who want to become ones, we start a new series of articles dealing with pool technology. Have a look behind the scenes of a swimming pool system and learn which components are essential for safe water treatment – free purchase advice from the experts!

Always, ProMinent ensures the best water quality and is on the spot with specialists for advice, installation and service – for its customers everywhere in the world.

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Out of the daily routine – straight into enjoyment



Sustainable and efficient water treatment in Heidelberg's public swimming pools

Many other cities in Germany can be envious, as Heidelberg offers its citizens and visitors really an abundance of attractions: A charming scenic location, the world-famous castle ruins, a picturesque old town, a renowned university – and several public swimming pools which leave nothing to be desired regarding relaxation and recreational fun.

MAKING A QUICK DIVE IN HEIDELBERG

Heidelberg with its 150,000 inhabitants is located in the southwest of Germany in the Rhine-Neckar metropolitan area. The former residential city at the river Neckar attracts entrepreneurs and scientists, students and creative people as well as tourists from all over the world. The high quality of life is a real flagship: 98 percent of all citizens enjoy living in Heidelberg – a unique value nationwide!

The municipal utilities, the Stadtwerke Heidelberg,

make an important contribution to that by means of their diversified and technically well-equipped public swimming pools.

A pool for each and everyone

In total, the Stadtwerke Heidelberg operate five swimming pools – from a sports pool in the middle of the city to an outdoor thermal bath under large old trees to a leisure pool with a giant water slide and a diving pool. Besides the use for school

programmes and competitive sports, there are many additional activities for people of all ages such as aqua-fitness, sauna, swimming courses or games and events for children.

Thus, every year more than half a million guests spend their leisure time in Heidelberg's public pools, which are distributed throughout the city area and quickly to reach by means of public transport.

Naturally, for the Stadtwerke Heidelberg the satisfaction of the visitors and securing a high recreational value rank first. But the successful and continuing utilization

of each single public pool also requires an efficient and sustainable operation.

For this reason, all pool facilities are supplied with green power and environmentally friendly produced heat.

Regarding the water treatment the operators rely on up-to-date, energy-saving technology from their local partner ProMinent.

Modern, efficient, sustainable

Stefan Gottschalk, Manager Operations and Technology at

Stadtwerke Heidelberg Bäder, explains:

“Three of our public pools are already certified in the municipal project “Sustainable Business”. With the leisure pool Tiergartenstraße and the indoor pool Hasenleiser we will participate in the next project phase. We are confident that we will also be successful with these two facilities as they are equipped with modern, efficient systems in order to ensure an impeccable water quality. For example, in the Tiergartenstraße facility we are using measuring and control technology from ProMinent for the precise dosage of necessary additives.”

The leisure pool Tiergartenstraße is open from mid-May to mid-September and, depending on the weather conditions, provides water temperatures between 19 and 25 degrees Celsius.

The varied facility amidst a spacious park provides a swimming pool and a non-swimmer's pool as well as a diving pool.

The courageous ones can jump either from a one-, three-, five- or even ten-meter tower. Additionally, there are sports fields for volleyball, beach volleyball and basketball.

The youngest ones can have fun at a large playground, a paddling pool and a 17-meter long and two-meter wide slide.



Stefan Gottschalk, Manager Operations and Technology (on the left); Peter Erb, Manager of Stadtwerke Heidelberg Bäder (on the right).

Regional win-win situation

Due to the professional project handling and the committed teams of ProMinent GmbH and IBA TechnikCenter, the entire installation was carried out in only two workdays.

So, it is no surprise that Peter Erb, Manager of Stadtwerke Heidelberg Bäder, states:

"We are very satisfied with the constructive project planning and rapid implementation by ProMinent and IBA. The service on-site is quick

and uncomplicated. Furthermore, as a responsible company we would like to foster the Rhine-Neckar metropolitan area as a strong economic location through the cooperation with local partners."

Regarding the new technology he concludes: *"In the meantime, we have equipped the water treatment systems of our facilities completely with measuring and control technology provided by ProMinent. The controllers operate excellently*

and very precise, so that we could decrease variations in the measuring values considerably. This technology also supports us in increasing the efficiency of resources: On the one hand by a lower power consumption and on the other hand by a minimized usage of chemicals. Thus, we protect the climate and reduce our operational costs."

However, the real winners are both small and big visitors, who are looking for recreation and fun in the refreshing pool water. Indeed, the Stadtwerke Heidelberg have chosen an appropriate motto:

"Heidelberg's public swimming pools are here and near for everyone!"



Men at Work

Optimum use of reliable technology

In May 2014, just in time before the season begins, the new measuring and control technology for treatment and disinfection of the pool water in the leisure facility Tiergartenstraße was commissioned. No problem, thanks to the service technicians of the company IBA-Aqua!

It is always advisable to count on reliable technology. But one can only benefit from good technology if it is excellently dimensioned and installed. Here, the team of the IBA TechnikCenter could prove its expertise.

The supply from ProMinent comprises solenoid diaphragm metering pumps of the Beta® type and the robust peristaltic pumps DULCO®flex DF4a as well as the multi-channel multi-parameter measuring and control system DULCOMARIN® II which is capable

of controlling up to 16 different water circuits at the same time. In addition, there are several modules: A-modules for controlling the metering pumps, M-modules for measuring and controlling and R-modules for controlling metering devices for chlorine gas. The bypass

fittings are made of pre-assembled in-line probe housing modules for attaching sensors for pH value, redox and chlorine which are equipped with threaded fittings. Due to flow monitoring, only a small amount of measured water is required for quick reporting of measured values.

The DULCOMARIN® II is connected via a CAN-bus system to the building control system of the leisure facility and thus, controls decentralized all connected water circuits. The advantages of the DULCOMARIN®II

and its perfectly towards each other adjusted components are the easy wiring and great flexibility in case of subsequent extension as well as the precise operation and functioning of the whole system.

Thus, the Stadtwerke Heidelberg benefit from a minimized operational and maintenance effort, a high operating safety and an always excellent water quality in all pools.

Competent and experienced partner

The managers of the Stadtwerke Heidelberg appreciate the precise analysis and reliable implementation of their decided measures by the IBA TechnikCenter.

From the first contact to the planning and the final project acceptance, the competent IBA staff ensures a cooperative partnership with the customer and a smooth workflow.

Service technicians during installation in the leisure facility Tiergartenstraße in Heidelberg





Hans-Peter Lutz, Division Manager at IBA TechnikCenter, describes the project scope:

“The project in the leisure facility Tiergartenstraße consisted of the complete dismantling of the old water treatment and disinfection equipment and the installation and commissioning of the new systems. Despite the extensive workload, our installation team was able to carry out all tasks in just one day. The close cooperation with the Stadtwerke Heidelberg and the dependable supply of the components by ProMinent also contributed to this trouble-free process.”

The particular requirement in this project was the exact dimensioning of the metering pumps with regard to the flow rates and pressure

conditions. All in all, the customer was very satisfied with the comprehensive consulting services by the IBA TechnikCenter prior to the project execution, the entire project handling and the installation works. The open and consistent communication of all parties involved was another key factor for the project's success.

**IBA-Aqua-Pflege-Produkte GmbH
TechnikCenter**

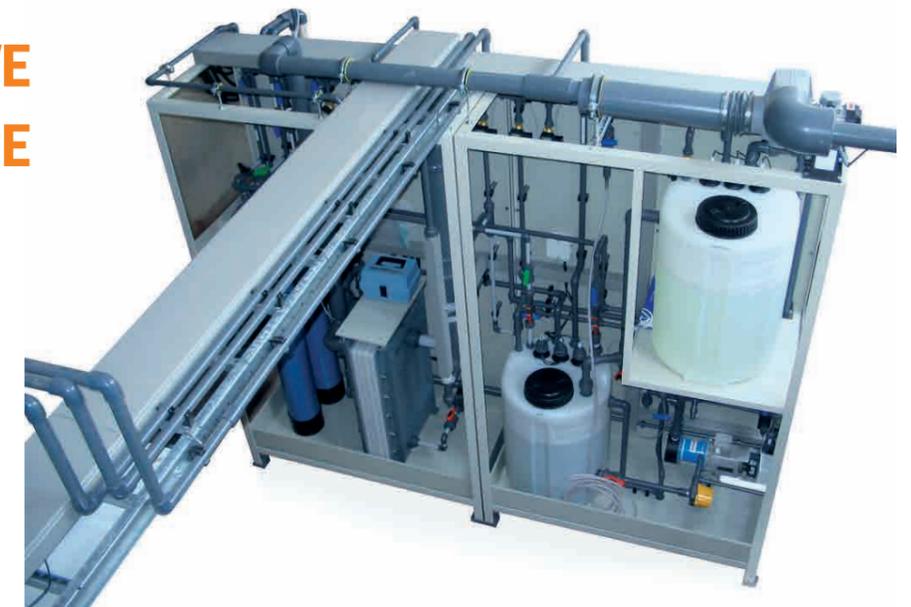
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Fabian Hambsch, Service technician of the IBA-Aqua-Pflege-Produkte GmbH on-site in Heidelberg



TABLE SALT – THE ALTERNATIVE TO CHLORINE



Stop with the storage and handling of dangerous chemicals and benefit from an economic alternative: The electrolysis systems of the CHLORINSITU® series are perfectly suitable for water disinfection in private and public swimming pools. Since common table salt is used as a reasonable raw material and the chlorate limits of norms such as the German DIN 19643 are fully met.

The membrane is the key

In an extremely environmentally friendly way, the three versions of available ProMaqua® electrolysis systems are generating sodium hypochlorite from harmless table salt and water by means of a vacuum process. The electrochemical reaction takes place in two electrode chambers separated by a membrane, so that the formation of the chlorine and sodium hydroxide is physically separated. As this process takes place directly on-site, the transport, storage and handling of dangerous chemicals is eliminated. This represents an important advantage especially for the operation of private pools and hotel pools.

Well thought out in every detail

In the version CHLORINSITU® IV plus for larger volumes of water, the produced chloride-free sodium hydroxide is stored intermediately and, due to an integrated softening plant, can be used for an effective adjustment of the water's pH value. If the complete production output is not needed, excess chlorine gas can also be bound with the produced sodium hydroxide and stored intermediately as sodium hypochlorite. In turn, this covers demand peaks and enables an energy-saving plant dimensioning

adjusted to the average daily consumption. By means of precise metering pumps from ProMinent, the produced solution of sodium hypochlorite can then be added to the pool water of different water circuits. A clever disinfection solution particularly suited for leisure parks with several pools.

Attractive alternative

The CHLORINSITU® membrane electrolysis systems have a compact design, are equipped with a modern control for monitoring all necessary functions and, as an option, can be connected via communication interfaces with central control rooms. The long service life of the electrolytic cells, the low-price raw material table salt and the significantly reduced consumption of chemicals for pH-adjustment result in an extremely economic operation for the user. All series products can be specifically adapted to each customer's demands, whereas almost any numbers of metering points for chlorine, sodium hydroxide or sodium hypochlorite are possible. This makes it an all around attractive alternative for the safe disinfection of swimming pool water!

POOL TECHNOLOGY

EASY TO

UNDERSTAND

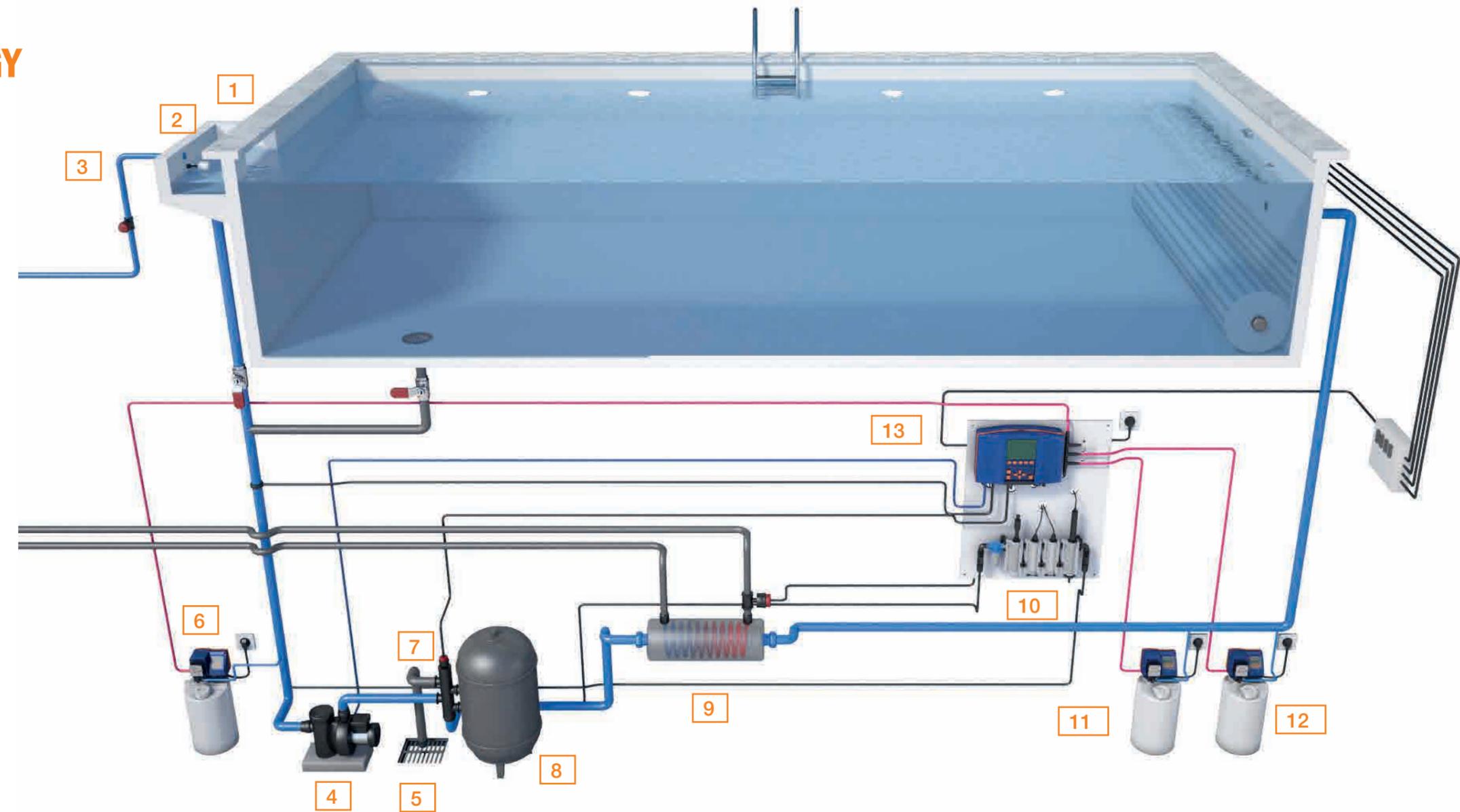
New series: Swimming pool technology comprehensibly explained

How does a water circuit function? Which types of pools exist? And what for are metering pumps? For most of us, only one thing is really important: clean and clear pool water having a pleasant temperature. With our new article series about pool technology, we will take a closer look behind the “pool scenes”.

Skimmer pool – the starter pool

The new series starts with the skimmer pool – shown with all necessary components in the 3D illustration - named after the surface skimmer (1). The larger the skimmer mouth, generally it ranges from 15 to 35 centimetres, the more surface water can be cleaned. That means, the more debris is removed and the pool looks optically attractive. Due to its design, the pool's water level in a skimmer system is about 15 to 20 centimetres below the pool surrounds. A level measurement (2) is also integrated in the skimmer mouth for controlling the water level according to the float principle. If the water level is too low, fresh water is fed in through a separate pipe (3).

The circulating pump (4) is a key element in the water circuit and draws off surface water through the skimmer mouth. As an option, a floor drainage (5) can additionally be connected. The circulation can be controlled with a fixed or variable speed.



Mostly, the standard version with a fixed speed and a timer is used, whereas the circulation of the water is carried out in the morning and in the evening. For protection purposes, a measuring unit installed in the suction pipe controls the water flow and in case of a disturbance, immediately switches the system off. At the same time, a prefilter prevents the penetration of debris such as leaves, toys or bathing clothes in the circulating pump.

Well-coordinated components

The heat exchanger (9) provides a constant water temperature and is connected with pre-assembled sensors and in-line probe housing modules (10) for monitoring sample water. Further key components for a safe and reliable water treatment are the pump for metering flocculants (6), a sand or glass filter (8) as well as pumps for metering of disinfectants (11) such as chlorine and for regulating the pH value (12). Upstream of the sand filter, also a multi-port-valve (7) is installed which

enables the backwashing of the filter.

So that all components of the pool water circuit are functioning and interacting perfectly, just like a well-trained sports team, and thus, an always efficient water treatment is ensured, the powerful central measuring and control system DULCOMARIN® II (13) is controlling the whole system as a “team coach”. The metering pumps are connected via a CAN bus system with the controller, all other components via digital or analogue lines. The DULCOMARIN® II even handles the control of the pool lighting (14)

and the automatic closing of the pool cover (15) – multi-functional, well-conceived, cutting-edge.

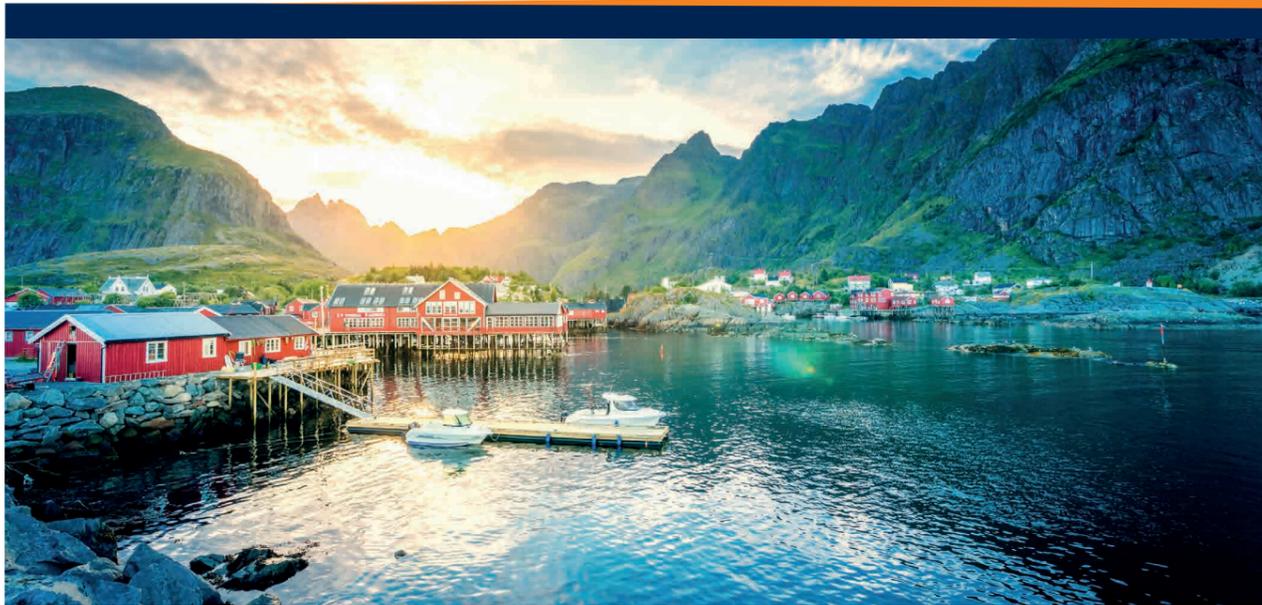
The own pool becomes reality

Conclusion: A skimmer pool is characterized by solid pool technology, thus, is particularly suitable for small private pools or hotel pools and is affordable also with a limited budget. Moreover, the easy installation as well as the maintenance can be carried out quickly. Overall, the necessary

technical effort is manageable, due to the fact that no additional balance tank is required. The ideal swimming pool for starters, who are realizing their dream of an own pool.

However, those who would like to invest a bit more or who have the task in a municipal administration to plan a new public swimming pool, will be informed in the next issue about the functioning of an overflow pool. Just a tip in advance: Maybe play the lottery at the weekend and hit the jackpot!

Bathing north of the Arctic Circle



Electrolysis system CHLORINSITU®III compact and DULCOMARIN®II reliably in operation also in high northern latitudes

Rugged fjord landscapes, Northern lights, midnight sun – for fans of Scandinavia this sounds like an irresistible call to immediately pack their bags. But what about the descendants of the courageous Vikings? The people who nowadays live and work north of the Arctic Circle? They are looking for relaxation, too, and are physically active. However, they prefer a pleasantly warm swimming pool instead of the freezing cold Norwegian Sea.

FASCINATION NORD-NORGE

To be honest – if you belong to the sun worshippers, if your favourite holiday destinations are Florida, Mallorca or Thailand and if you have nothing to do with wild Nordic Romanticism, maybe this application example is not of much interest for you. Or precisely for that reason?

Nord-Norge in the national language refers to the northernmost part of the country and comprises about one third of the Norwegian mainland. It consists of the three counties Nordland, Troms and Finnmark having a total of 87 municipalities with around 475,000 inhabitants. The well-known islands of the Lofoten and Vesterålen are located in Nord-Norge and among the largest cities are Narvik, Harstad, Tromsø and Hammerfest.

On a Hurtigruten voyage to the Arctic Circle

Generally, there are two kinds of characteristic cruise tourists: The ones who travel, for example, on board an AIDA cruise ship through the Mediterranean and the Caribbean. The other ones fulfil their dream of a beautiful cruise on board a Hurtigruten ship along the Norwegian coast. When crossing latitude 66° North, they will experience the both famous and notorious Arctic Circle Baptism with lots of ice water flowing down the neck.

The Hurtigruten ship also stops at the harbour of Harstad. Since 1st of January 2013, the small community of Bjarkøy belongs to the municipa-

lity of Harstad. It is situated 300 kilometres north of the Arctic Circle and east of the Vesterålen. The area of the community with its almost 500 inhabitants is spread over several small islands in the Norwegian Sea. Bjarkøy is an old Viking settlement and the cultural traces are often visible: round burial mounds, high menhirs called bautastenar and wooden boathouses called naust, in which the ships of the Viking Age (800-1050 AD) were stored and

- Economic retrofit of existing plant with reliable components
- Reduced consumption of chemicals and energy
- Consulting, installation and service from ProMinent all over the world

maintained especially during winter times.

Retrofitting with modern equipment

Though the Vikings did not build the public swimming pool of Bjarkøy, it anyhow dates back to the 1970s. For that reason, more than five years ago ProMinent Norge AS was asked to evaluate its technical condition. This resulted in a public invitation to tender for a complete retrofit – and again, ProMinent Norge AS received the order. After overcoming some obstacles and the finally successful procurement of the necessary financial resources, the community of Bjarkøy gave green light to start with the retrofit.

The installation of the new equipment was coordinated with other crafts such as construction, electrics and concrete building. Start was in autumn 2012 and commissioning took place in spring 2013. Components supplied by ProMinent were added to the existing system in order to meet today's requirements of a modern water treatment plant. This included the powerful

measuring and control system DULCOMARIN®II, a UV system for eliminating germs as well as a membrane electrolysis system CHLORINSITU®III compact for economic disinfection. The plant was completed with filters, metering pumps and sensors for measuring values, which are then used to control the water quality.

All components are connected to the DULCOMARIN®II, which itself is integrated in the existing control system. The operating data of the swimming pool and the measured values of the pool water are continuously transferred to a central data processing system, which monitors



and controls the entire water treatment system.

Bathing fun instead of Aurora borealis

The inhabitants of Bjarkøy were really excited, when in May 2013 they could at last re-use their completely new swimming pool. Better enjoying clean and warm pool water instead of watching Nordic lights in the icy cold – certainly, the cruise tourists feel exactly the other way round.

For the responsables of the Bjarkøy community the retrofit is an economic success, as not only the limited budget was met. Due to the new water treatment system consisting of ProMinent components, the consumption of chlorine is significantly reduced, the automatic measuring and control system ensures an efficient measuring and recording of the pool parameters



and the circulation pump consumes less energy. This would have also pleased the brave Vikings, which were always on the search for new discoveries and which considerably contributed to the development of shipbuilding.

Well, what do you now think of a trip to the North?



How to learn swimming in Texas

Central measuring and control system adjusts unstable chlorine values and ensures optimum water treatment

Swimming is as old as humankind, but just like walking, it has to be learned at first. Swim schools all over the world contribute considerably to familiarize children with the medium water and to foster their motor skills starting at an early age. The renowned Emler Swim School in the USA, which has already received multiple awards, is one of them.

Swimming in the past and present

For the noble Egyptians swimming was good form, the Greek considered someone who could not read or swim as uneducated and the Romans even trained their soldiers to move through water in full armour. Moreover, in the year 1933 a Hungarian researcher found the first evidence in the Sahara desert: In southwest Egypt he discovered the “Cave of Swimmers” showing cave paintings of swimming

figures which were probably created 4,000 to 9,000 years ago. Those of our Stone Age ancestors, who could move quickly in water, had a clear advantage, because they escaped enemies much easier and were more agile and apt during hunting. For that reason, also today most of the indigenous peoples can swim, independently on which continent they are living.

A pioneer in swim education is the American Jan Emler, who founded

Emler Swim School

**3612 W 135th Str
Space D201
Leawood, KS 66224
USA**

emlerswimschool.com



her first own swim school in Arlington, Texas, in 1975. Meanwhile, there are eight Emler Swim Schools in Texas and since 2014 also one in Kansas City. Based on a specially developed education programme, every year more than 30,000 swim beginners learn from an early age to gain confidence in the medium water, to make their first motion exercises and finally, to learn the established swim styles. The particular Emler method, well-trained

personnel and an appropriate and pleasant swimming pool atmosphere lead to a high success rate in the swim education.

Getting chlorine levels under control

Furthermore, an absolutely perfect water quality is of the utmost importance for those responsible at the Emler Swim Schools. The Director of Maintenance – Pool Operations, Mike Gentry, however, had to face a continuously occurring problem in the Frisco facility: *“The pool is closed Sundays, but our automated controller was still continuing to generate and feed chlorine during this time, even though the pool was not in use. The controller’s ORP sensor seemed to just go blind during these longer periods of inactivity. The system was showing low ORP when chlorine levels were actually very high. We strive to keep our chlorine residual*

in the 2-3 ppm range, but we were often dealing with upwards of 13-14 ppm chlorine when we came in to work Monday mornings.” He adds: *“Everything worked fine for awhile after we installed the controller, but it began giving us trouble due to inaccurate ORP readings. Then, the controllers at some of our other locations began to have similar problems. Chlorine residuals would be fine until we came back in on Mondays. We never seemed to be able to get out of this endless loop.”* Thus, Mike Gentry, was urgently looking for a solution to control these fluctuating chlorine values - and found it at ProMinent.



- Fully automatic control of the complete water treatment using US-version DCM-502 of central measuring and control system DULCOMARIN® II
- Elimination of unpleasant chlorine odour and corrosion reduction
- Decentralized monitoring and control via network-enabled PC, smart phone or tablet device

Measure, control and adjust – but properly

After all, in January 2012 the first measuring and control system from ProMinent was installed in the Frisco swim school. It is a version of the proven controller DULCOMARIN® II, adapted for the US-American market.

The system named DCM-502 now monitors and controls pH, ORP, free chlorine and total chlorine. The most important functions are real-time free chlorine and combined chlorine measurements to control chlorine feed. As a result, water chemistry at Emler Swim School’s Frisco facility was stabilized almost immediately after final calibrations to the system were made. Gentry is very satisfied: *“I like the fact that the chlorine can be controlled from a real-time free chlorine measurement rather than ORP,”* Gentry says. *“With the new controller we are now using the actual free chlorine as our guideline measurement and ORP as our assist measurement.”*

The new DCM-502 also controls the facility’s existing UV system for additional disinfection. Gentry explains: *“The controller extrapolates the amount of chloramines in the water and automatically turns on the*



UV to eradicate that bad chlorine. So now we do not have the foul odour you often smell in an indoor pool. Moreover, we do not have the associated corrosion problems that excessive chloramines can bring.”

The complete system can now be controlled decentralized by means of a network-enabled PC, smart phone, iPad or other tablet device. Mike Gentry is already planning the next step: A reporting based on data logging available via cloud technology. *“With the new control system I have access to all pool data and thus, can control the pool water chemistry at anytime from anywhere – a real nice mobility provided”,* says the Director of Maintenance. Due to this successful operation, DCM-502 controllers have been installed in other Emler Swim School’s facilities. One can state that in Texas not only oil is bubbling, but also pool water of the best quality!



What is the hippopotamus doing in Poland?



Ozone systems OZONFILT® and UV plants Dulcodes ensure best water quality and living conditions for hippos and other marine mammals

You know the popular animated movies of the “Madagascar” series? Then you can look forward to a sensational new presentation of African wildlife in the currently biggest zoological project in Europe: The Afrykarium of the renowned Wrocław Zoological Garden. A worldwide unique building complex is being constructed on an area of almost two hectares comprising numerous water pools in which different African habitats with its animal inhabitants will be shown.

The city of Wrocław is situated about 250 motorway kilometres east of Dresden. Spread over twelve islands, built between many canals and connected by hundreds of bridges, it has earned the nickname “Venice of Poland”. Besides the picturesque location and the countless public green spaces, the city offers another attraction: The Zoological Garden with around 4,500 animals and more than 800 species. Opened in July 1865, the animal park went through an eventful history of destruction and reconstruction. Meanwhile, the Wrocław Zoological Garden belongs to the leading European zoos, especially due to its protection and breeding programmes of endangered species.

Ambitious large-scale project

The construction works of the Afrykarium have started in April 2012, are in full swing and should be finished during the next year. The new build will be in total 160 metres long and 54 metres wide, it will have three floors in the interior as well as an underwater tunnel and outdoor pools presenting the African wildlife. Additional facilities such as conference hall, restaurant and viewing platform are also planned. The pools will be filled with about 12,500 cubic metres of water, of which 4,000 cubic metres will be salt water: The habitat of crocodiles, hippos, sharks, rays, penguins and the African manatee, a sea cow species living in the coastal and inland waters of the second largest continent of the world.

In order to ensure that the new inhabitants of the large building complex will be at ease from the very beginning, a well-conceived and, first of all, extremely reliable technology for the disinfection of the pool water is required. ProMinent has already implemented very successfully several water treatment projects in zoos and animal parks around the world, e.g. in Sydney, Buenos Aires and Rome. Due to these experiences, the commitment of the Polish ProMinent subsidiary located in the surroundings of Wrocław as well as the excellent cooperation with the consulting engineers Döhler from Leipzig, who are leading the project regarding the water treatment technology, ProMinent was awarded the contract.

Reliability is top priority

For securing an all-time optimum water quality in all pools, the Afrykarium is equipped with a total of 26 UV plants of the type Dulcodes K and 7 ozone systems OZONFILT® of the series OZVa and OZMa including the needed accessories. All components are connected with the central process control system of the whole building complex. The most important advantage of the equipment provided by ProMinent is their chemical-free operation. An essential criteria, as nothing must harm the health of the animals.



and excellent references in the field of supplying zoological facilities with first-class equipment and services.

Andreas Wagner, Technical Project Manager at the Ingenieurbüro J. Döhler, explains the challenges of the Afrykarium: “In this large-scale

project, we mainly had to consider the limited space available. Also the treatment of both freshwater and seawater in several steps as well as the combination of pool and wastewater

technology are highly demanding tasks. The customer’s specifications are very extensive, because it is all about the well-being of the single species with their specific requirements towards the water quality.”

have all been supplied in due time”, describes Andreas Wagner the good cooperation. Thus, there are no obstacles for a continuing successful project execution. Due to this positive outlook, everyone is awaiting the opening of the Afrykarium with excitement:

Happy hippo, happy people!

Cooperation of technical experts

The correct functioning of the water treatment technology in this comprehensive project is based on the planning and implementation carried out by experts. These are the employees of the Ingenieurbüro J. Döhler from Leipzig together with the specialists from ProMinent Germany and Poland. Both companies have long years of experience

Up to now, the interactions between the various trades are running fairly smooth. As well, the rapid construction process with regard to the project’s scale and the huge part of technical equipment to be installed shows a very pleasing development for all involved. “From ProMinent Poland we receive outstanding support on-site – uncomplicated and quick. The high-quality products provided by ProMinent, which we already used in other projects,



We hope, you have enjoyed this issue of Splash – The ProMaqua Magazine and invite you to have a look at the upcoming issue.



METERING

MEASUREMENT & CONTROL

TREATMENT

DISINFECTION

IMPLEMENTATION

60 locations.
2300 experts.
Countless solutions.

Focus on Solutions:
Market-leading metering technology.

Clean water for swimming pools or food-grade potable water: Innovative products made in Germany have made ProMinent one of the world's leading specialists in reliable water treatment – even if most of our solutions work behind the scenes. Industry on the other hand is well aware that we are experts in forward-looking metering technology. Our 60 locations around the world ensure that systems in the chemical industry, paper production and around 80 other industries function reliably and economically, save energy and preserve precious resources.

www.prominent.com



ProMinent[®]