

Splash



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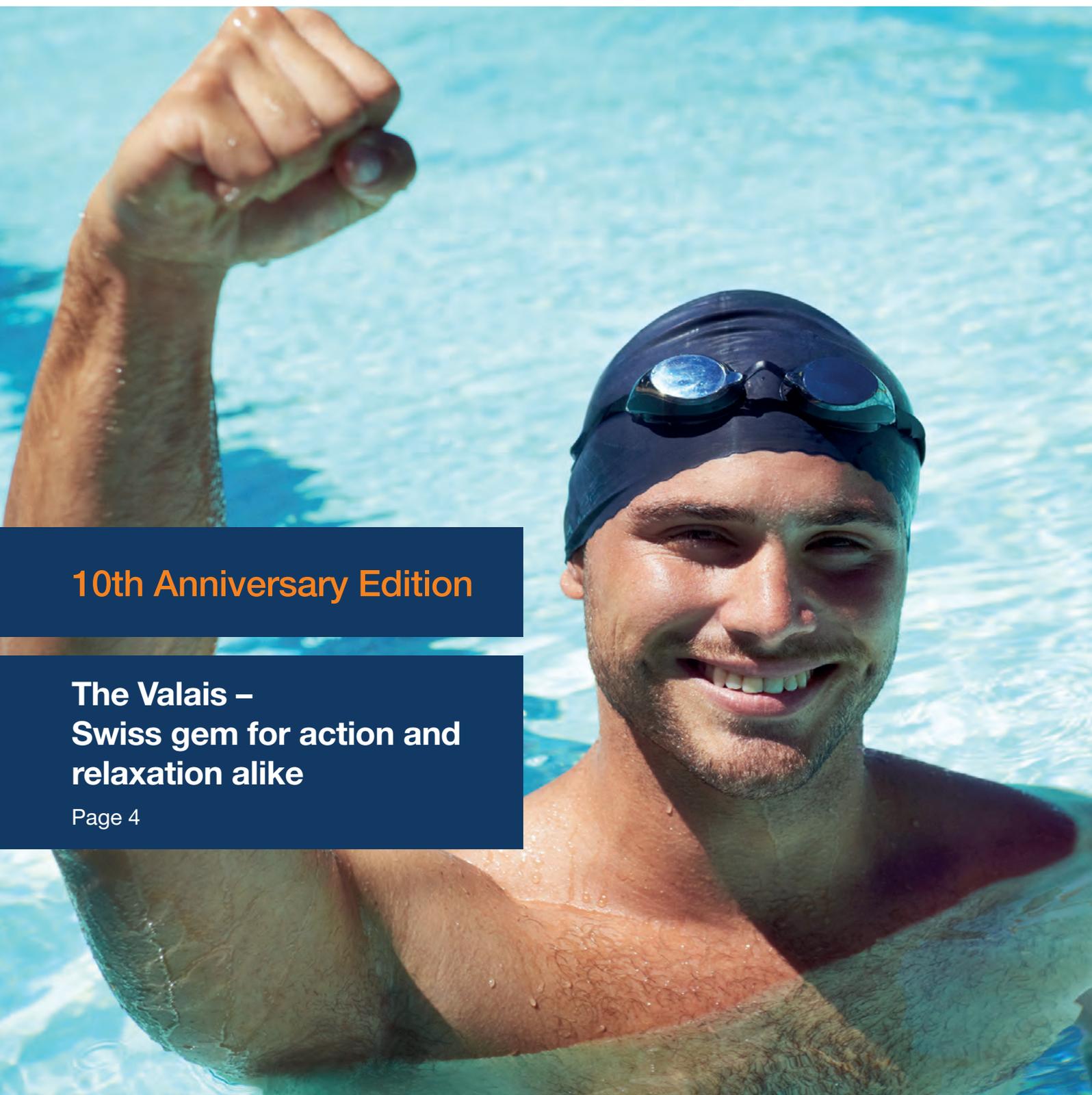
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The ProMinent Magazine

10th Anniversary Edition

**The Valais –
Swiss gem for action and
relaxation alike**

Page 4



IMPRESSUM

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EDITORIAL

Dear readers,

It is hard to believe: In autumn 2010 we started with SPLASH and right now, you already hold the tenth edition in your hands! According to our motto “from practical experience for practical application”, we took you around the world in numerous reference examples.

Maybe you have even made use of the one or other tip for a dream holiday. The popularity of SPLASH always delights us, and thus, the whole ProMinent team says “thank you” for your fidelity and interest in the magazine. Our promise: We will for sure continue with the same commitment with which we also foster the development of our products!

What can you expect in this anniversary edition? Well, first you will travel with us to the beautiful mountain landscape of the Alps, to Switzerland and to Austria. Besides the excellent sporting possibilities there in summer as in winter alike, the hotels really tempt with attractive wellness offers in an extraordinary ambience.

What is new in the field of products? Experience the “fourth” dimension of convenient water treatment in private and public swimming pools with our fully automatic metering systems DULCODOS® Pool. And you will find out in this edition as well, how you can disinfect even more intelligently with the electrolysis plant CHLORINSITU® V plus.

In case you are interested in watching our metering pumps in animated 3D video clips, I recommend the article about our YouTube presence or as usual our website www.prominent.com.

Now, enjoy reading SPLASH number 10!



Sincerely

A handwritten signature in black ink that reads "Markus Rösch". The signature is written in a cursive, flowing style.

Markus Rösch

Industry Manager
Pool & Wellness
ProMinent Deutschland GmbH

THE VALAIS – SWISS GEM FOR ACTION AND RELAXATION ALIKE

ADVANCED MEASURING AND CONTROL TECHNOLOGY USING DULCOMARIN®II ENSURES ECONOMIC OPERATION OF WELLNESS APPLICATIONS IN FIRST CLASS SPA



The canton Valais in the southwestern part of Switzerland is well known for its excellent skiing possibilities. But there is much more to discover such as the international Alphorn festival, exciting hiking trails or the Bisses, unique historic irrigation channels. The four-star Hotel Nendaz 4 Vallées is situated right in the middle of all these attractions, providing outstanding accommodation and an incomparable spa experience.

**IF YOU ARE FOND OF SKIING
AND HAVING FUN IN THE SNOW,
NENDAZ IS CERTAINLY
A PLACE TO GO!**

Located in the French speaking part of the Valais amidst a huge holiday area, the small town offers a capacity of approximately 20.000 beds. The region includes the ski area "Les 4 Vallées" with more than 92 lifts, about 400 km of ski runs as well as 100 km of winter hiking trails and 40 km of snowshoe paths.

During summer, vacationers benefit from 250 km of marked hiking trails, eight of them along the famous Bisses.

THE BISSES UNIQUE CULTURAL REMNANTS

Walking on holy ground is maybe a bit exaggerated, but hiking on historic trails is quite appropriate. A bisse is an open ditch delivering water from mountain streams to arid pastures and fields, vineyards



and orchards. The construction and maintenance of the ditches was a dangerous task, but of great importance for the water supply of the ancient villages. The oldest documentary proof dates back to the 12th century. Most of the bisses have a length of 500 up to 2.000 metres, the longest one is the Bisse de Saxon with a length of 32 kilometres. Today, many of these irrigation channels are still in use and carefully maintained. Numerous trails accompany the historic watercourses, inviting visitors to interesting hikes often surprising with spectacular views.

THE HOTEL COSY AND CHARMING

Well, after a full day out skiing or hiking you surely appreciate a

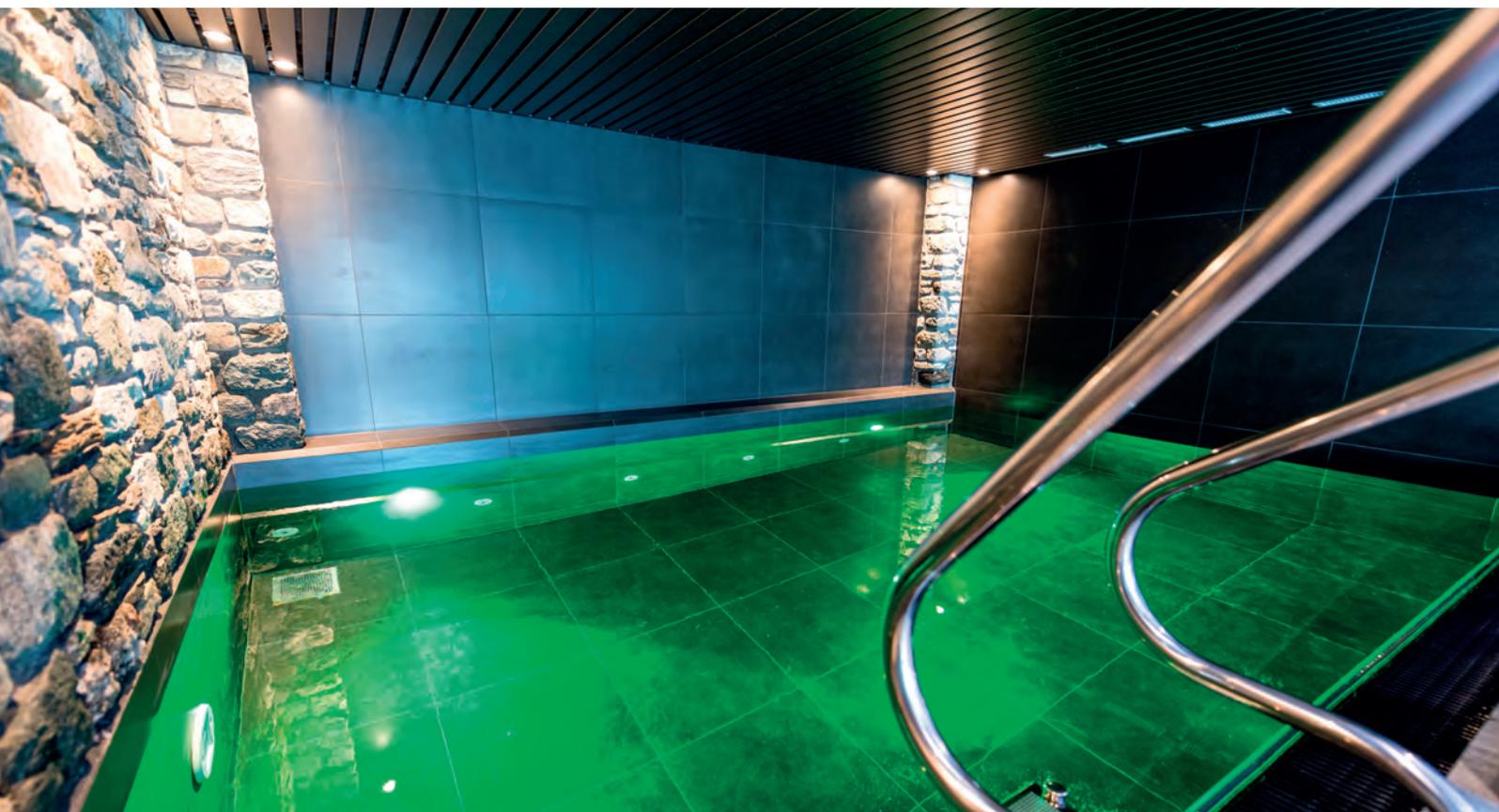
comfortable “home”. The Hotel Nendaz 4 Vallées & Spa opened its doors in December 2013: A four-star superior accommodation providing 62 rooms and suites, all decorated in the contemporary style of the Valais region. There are even two superb suites measuring 70 square metres, which are equipped with a fireplace, private sauna and a balcony overlooking the valley.

For your culinary well-being, there is a gourmet restaurant making you discover dishes from all over the world, a wine bar where you can enjoy specialities from the Valais in a picturesque ambiance, and also cigar smokers can relax in the nearby piano bar. If you are organising a company or private event, two large rooms hosting up to 200 persons are at your disposal. In the family-friendly hotel,



children can be entertained in a small cinema with about fifteen seats.

The Hotel Nendaz 4 Vallées is only 16 kilometres away from Sion airport and can easily be reached by train arriving from France, Germany and Italy via the Sion railway station, too. And the best: The funicular of Haute-Nendaz stops right in front of the hotel entrance!



**THE "SPA DES BISSES"
FIRST CLASS RELAXATION
GUARANTEED**

For transport purposes, the funicular is certainly a fine convenience. But for recharging your physical and mental batteries, the hotel's spa is second to none – and of course, the hotel's guests have free access to all spa facilities. With its Alpine décor and breathtaking panoramic views, the Spa des Bisses draws its inspiration

from the Valais region with its wealth of natural resources: water, wood and stones. The herbs and wild flowers of the surrounding mountains are the principal ingredients behind the range of therapies. Thus, you are offered

a unique experience combining sport, fitness and relaxation on an impressive space of 2.200 square metres including two terraces and a 15-meter swimming pool.

The spa users can choose between diverse wellness attractions such as a biological, Finnish and panoramic sauna, a vaporised steam bath, three grottoes (hammam, salt, ice), a flotation

basin and a Jacuzzi. There is also a special children's area consisting of a basin, fountains and a games cabin. It is the perfect setup for enjoying a complete range of exquisite and revitalising treatments. And last but not least, the products used are certified as being of biological origin and are all produced locally.



**THE PROJECT PARTNERS
EXPERIENCED AND COMPETENT**

Of course, the magnificent ambience of the Valais Alps is the biggest asset of the Hotel Nendaz 4 Vallées. However, the operators have to rely on a trouble-free functioning of the technical installations ensuring the overall comfort of their guests. For that reason, the planning management has assigned the renowned company Atzwanger with the installation of the water treatment system

for the complete spa applications. Incorporated and headquartered in Bozen, Northern Italy, Atzwanger is one of the leading European enterprises in the fields of environmental, water, and energy technology as well as building services. Today, the entire group has subsidiaries in five European countries and

counts about 250 employees. By virtue of its more than 40 years of experience, Atzwanger has acquired considerable expertise in providing innovative solutions to clients from municipal and federal government as well as important private investors in the premium hotel industry.

Based on good experiences during the joint realisation of former large



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projects, Atzwanger has chosen ProMinent GmbH as their partner for the water treatment installation in the Hotel Nendaz 4 Vallées. Due to their global presence, ProMinent could provide local support through its subsidiary in Switzerland.

A French-speaking service technician, who trained the responsible hotel technicians on the functioning and handling of the system, is of major importance during commissioning and maintenance assignments afterwards. For sure, a constructive and seamless communication between all parties involved was a key success factor for the project and for the overall customer satisfaction.

THE TECHNOLOGY BEHIND RELIABLE AND EFFICIENT

As a hotel guest you expect crystal clear pool water and a Jacuzzi having a pleasant temperature. As a hotel technician you expect a smooth operation and an easy control of your technical systems. That is why ProMinent products are used in the Hôtel Nendaz 4 Vallées. The heart of the water treatment installation is the multi-channel and multi-parameter measuring and control system DULCOMARIN®II and its seven pre-assembled measuring panels. Furthermore, there are installed five peristaltic pumps DULCO®flex DF4a for the dosing

of flocculants, six motor- or solenoid-driven diaphragm pumps (types Sigma, delta® and Beta®) for the dosing of chlorine, five Beta® pumps for correction of the pH value and one gamma/ L diaphragm metering pump for proportional dosing.

In order to provide and adjust the desired salinity for the spa's floating pool, ProMinent has also put in place a brine container using vonTaine feeding pumps and a conductivity measurement. All components are connected via CAN bus technology with the controller DULCOMARIN® II including the disinfection system from another supplier. Thus, all relevant





parameters such as chlorine value, pH value and redox potential are continually measured and the data is transferred via CAN bus to the central controller.

“We are quite satisfied with the new control system, as it is easy to use, reacts very quickly and provides all functions we need to centrally manage our spa applications”, states Jean-Robert Perroud, Technical Manager of the Hotel Nendaz 4 Vallées. “Due to the fact that the system is only shortly in operation, we do not have enough reliable data yet to see if we are making major savings in energy consumption. But so far, the measurements look very promising.”

THE CONCLUSION A CLASSIC WIN-WIN SITUATION

In former times water was delivered to the Valais villages by means of the already described bisses. Though, their construction and maintenance was difficult and even dangerous. How easy life is nowadays thanks to technological progress: The components of the water treatment in the Hotel Nendaz 4 Vallées were installed in a short time, they are all easy to maintain and the communication





is seamless, due to the CAN bus connection with the DULCOMARIN®II.

Walter Kastl, project manager from Atzwanger and longstanding expert for pool water, states: *“In this challenging project, the standardisation of the measuring and control technology for the complete water treatment system and the use of the CAN bus connection was a new experience for us. We are very satisfied with the performance of the products. Once again, the support of the ProMinent staff was excellent - even the salesperson was present during the commissioning phase!”*

So, if you plan your next mountain holiday be it in summer or winter, consider visiting the wonderful Valais. And if you are looking for a special accommodation, why not

stay at the Hotel Nendaz 4 Vallées with its splendid Spa des Bisses? You will certainly make the most out of such a trip: enjoying the beautiful Alpine landscape, great skiing and hiking possibilities, and first class relaxation in a perfect ambience. ■

KEY FACTS

Control of several pool and spa functions with only one DULCOMARIN®II unit

Excellent water quality due to perfectly matched components for water treatment

Training and service support in local language

CONSTRUCTING HAS A LONG TRADITION IN BUTZBACH

TREATMENT OF BACK-FLUSH POOL WATER WITH DULCOCLEAN® UF AND DULCOMOSE® ECOPRO
REDUCES OPERATING COSTS

The Celts erected ring walls, the Romans built the Limes and starting in the 14th century, numerous half-timbered buildings, which have been preserved to this day, were constructed in the German city of Butzbach. The municipal operator continued this building tradition with the successful core refurbishment and renovation of the public swimming pool in Butzbach. Thus, the city is worthwhile visiting for several reasons!

The picturesque city of Butzbach with its 25,000 inhabitants is located about 50 kilometres north of the metropolis Frankfurt on the Main. Already in ancient times, the location in the northwest of the wonderful region Wetterau was an important junction – Butzbach was mentioned for the first time in the year 773.

Since the city was founded in 1321, the market place with the market fountain has been the centre of city life. Surrounded by

the old town hall and numerous significant half-timbered buildings, this market square belongs to the most beautiful and best-known places in the federal state of Hesse.

Shortly after the foundation, the cityscape changed as Butzbach was fortified with walls and towers and surrounded by ditches. The inhabitants mainly specialized in the production of woollen and linen cloth. For many centuries, the manufactured goods were sold in spring





and autumn on the Frankfurt fairs. Thus, until the year 1550, Butzbach had developed into an aspiring cloth making and craftsman town.

RENOVATION, RECONSTRUCTION, NEW BUILD?

The preservation of the old half-timbered houses is an important and continuous task of the municipality of Butzbach. But also buildings of modern age such as the inner-city swimming pool require a restoration over the years. For this reason, at the end of 2011 a public tender regarding the individual works for the renovation of the public swimming pool was made. During the following months the old building was mostly teared down, demounted and gutted, before in the reconstruction phase it became visible, which enormous changes such a project implies.

Just like the historical market place, also the location of the public pool of Butzbach is the key: centrally in the inner city. In August 2013, the freshly renovated swimming pool re-opened and now offers its visitors a pool with six 25-meter lanes as well as a one-meter and a three-meter diving tower. Furthermore, there are a separate non-swimmer area and for the youngest guests a newly designed water game area with two

padding pools. Additionally, the operators provide a comprehensive programme offering sports courses for all age groups.

PARTNER FOR OPTIMUM EFFICIENCY

In former times, the builders in Butzbach first of all paid attention to the wood quality. Today, optimum product quality is standard; efficiency and advanced technology are further selection criteria. As a consequence, the municipal operator Butzbacher Bäderbetriebe have chosen systems from ProMinent for the treatment of the back-flush pool water. Another reason was the fact, that the assigned installation company together with the experts from Heidelberg presented the most advantageous tender. Finally, the complete installation of the systems was carried out in only four days.

In order to transform the dirty back-flush water into clean and hygienically safe pool water again, the swimming pool in Butzbach is now equipped with an ultra-filtration system Dulcoclean® UF and a reverse osmosis system Dulcosmose® ecoPRO as well as an active carbon filter. The individual components are installed in a row, so that the back-flush water does almost lose no heat

during filtration. After the filtration process, it is again added to the pool water circulation. Due to this new water treatment system, the Butzbacher Bäderbetriebe save an enormous amount of fresh water every year, reduce their energy consumption and thus, their overall operating costs considerably.

RELIABLE PROCESS TECHNOLOGY

In order to provide a constant filtrate quality free from pathogenic germs (retention rate of bacteria and viruses of up to 99,99 %), the installed Dulcoclean® UF system efficiently removes turbidity, particles and microbiological contamination. A PLC guarantees fully automatic and highly reliable operation of the filtration system, which is integrated in the building management system of the public swimming pool.

The hygiene parameters are entered user-friendly via a touch panel and are registered electronically.

For desalination of the filtered back-flush pool water a reverse osmosis system Dulcosmose® ecoPRO is used.

By means of suitable high performance membranes, today, it is possible to eliminate more than 99 % of all salts in an aqueous solution. Due to its efficient operation with low pressure membranes of the latest generation and the



low maintenance required due to its high manufacturing quality, the system runs at low operating costs.

As well, the Dulcosmose® ecoPRO can easily be handled by the pool operators and, based on exactly coordinated pre- and post-treatment, is perfectly integrated in the customer-specific solution.

Carsten Schnitter, Operations Manager at Butzbacher Bäderbetriebe, expresses his satisfaction: *“Since its commissioning, the ProMinent treatment system for the back-flush pool water runs smoothly. After filtration, we can now feed back the water to the swimming pool circulation instead of to the wastewater sewer. Thus, we save additional fresh water from the drinking water network.”* Another positive aspect is the training of the in-house staff. *“Our employees have already attended training courses and seminars at ProMinent in Heidelberg, so that we can operate and maintain the system completely on our own. The overall cooperation is very good and if we have any questions, there is always a ProMinent contact person at our disposal.”*

ROMANTICISM AND MODERNISM

The inhabitants of Butzbach are not only proud of their beautiful

half-timbered buildings, but also enjoy the successful renovation of their public swimming pool, which they can finally re-use after a 21-month period of restoration. And they are looking forward to welcome many and, first of all, new visitors of their hometown. There are lots of attractions such as the historical “Faselmart”, the remains of the old town wall with their characteristic “Schwibbögen” or the Wendelin’s Chapel, the oldest half-timbered church in Hesse. The Celts and Romans have already come around – so, why not plan a visit to the Wetterau yourself? ■



KEY FACTS

Treatment of back-flush water using Dulcoclean® UF and Dulcosmose® ecoPRO

Significant reduction of operating costs due to savings in fresh water

Easy integration of user- and maintenance-friendly systems into customer’s building management system







THE INSIDER'S TIP: IMPROVING YOUR HANDICAP IN BEAUTIFUL TYROL

HOW ABOUT A ROUND ON AN 18-HOLE GOLF COURSE AMIDST A DREAMLIKE ALPINE PANORAMA, SUCCEEDED BY A SPORTS MASSAGE AND TO CROWN IT ALL A SPECIAL CULINARY DINNER? THE HOTEL ST. PETER DE LUXE IN SEEFELD, AUSTRIA, OFFERS AN ALL-ROUND CAREFREE PACKAGE FOR DEMANDING AND SPORTILY AMBITIOUS GUESTS. SO, IMPROVE YOUR HANDICAP IN A PLEASANT MANNER AND IN AN EXTRAORDINARY AMBIENCE!

The community of Seefeld is situated about 17 kilometres northwest of Innsbruck and approximately 100 kilometres southwest of Munich on a plateau between the Wetterstein range and the Karwendel Mountains in the Austrian Alps. The small Tyrolean village with its 3,300 inhabitants was often frequented ever since the Middle Ages: Pious people visited the pilgrimage site and numerous merchants passed on their trade route from Augsburg to Venice. The ones, who stayed, are the vacationers. As Seefeld is a well-known winter sports centre since the 1930s and was even several times the venue of the Olympic Games.

TYROLEAN CULTURE OF FEELING GOOD

The Hotel St. Peter de luxe with its direct view to the Seekirchl, the landmark of Seefeld, is also fully focussed on international guests. The family-run business combines sporty-elegant flair with Tyrolean traditions and is perfectly suited as a starting point for various outdoor activities, particularly for playing golf – more on this later.

The Hotel St. Peter de luxe first of all lures with its “indoor goodies”, namely the expanded and, in autumn 2013, completely renovated spa area. Wellness fans and those, who would like to become such, will get their money worth here. Relaxing, lazing around and letting one's spirit roam free – the pleas-

ant ambience creates the perfect setting for feeling good.

In the interior area, for example, the hotel guests can use a swimming pool with several attractions such as a Jet Stream and massage jets, there is a Jacuzzi, a terrific panorama sauna with view to the wonderful mountain scenery and a brine steam bath.

The wellness department spoils the visitors with relaxing Shiatsu, Ayurveda and classical massages. Those who prefer to be out in the fresh air, can have a swim in the outdoor pool with its counter-current system and dousing shower, they can use the outer Jacuzzi or the solar showers. Additionally, the holidaymakers are provided all-day with tea, delicious juices and fresh mountain spring water.

**COMPETENCY
JUST AROUND THE CORNER**

The realization of the new spa in the Hotel St. Peter de luxe was carried out by the expert company aqua elegance Wellnesstechnik GmbH in the neighbouring village Zirl. For more than 20 years, the company specializes in the planning and construction of



swimming pools in the private and public sector as well as in wellness facilities such as saunas, steam baths and Jacuzzis.

The Managing Director Thomas Gogala explains: *"We build pools*

and wellness facilities for demanding customers not only in the Tyrolean area, but also in South Tyrol and in Bavaria. Of course, it was very convenient to execute this attractive project just around the corner." And he adds: "As an expert company, we particularly attach great value to functionally outstanding products. Since several years, we cooperate almost exclusively with ProMinent exactly for this reason. Their portfolio is very comprehensive and we can rely on the flawless quality of their products."

**SOFT-PLC
FOR OPTIMUM POOL WATER**

In order to guarantee that the water in all pools of the spa area

always has the same excellent quality as the natural mountain spring water, high-quality and high-performance products from ProMinent are used for controlling the complete water treatment system. This includes solenoid-driven metering pumps type Beta® for metering of disinfectant, peristaltic pumps type DF4a for metering of flocculants as well as DULCOTEST® sensors, which continually and reliably measure all relevant hygiene parameters.

The core of the intelligent system is the multichannel-multiparameter measuring and control system DULCOMARIN®II with the new Soft-PLC technology. All components are connected via CAN bus with the DULCOMARIN®II, which centrally records and analyses the measured data, then, according to



the set values controls the metering pumps and thus, constantly keeps the water quality in the indoor and outdoor pools at an optimum level.

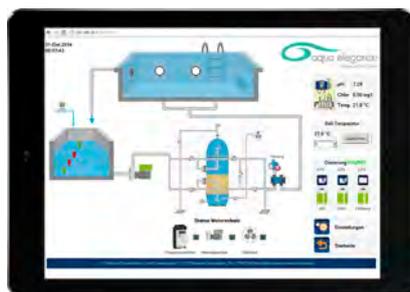
HERE COMES THE SPECIAL FEATURE

The basic functionality is complemented with that of a PLC in the software, a so-called Soft-PLC, according to IEC 61131. Due to this fact, also 4/6 directional valves or a throttle system for filter back-flushing can be controlled. In the Hotel St. Peter de luxe this functionality is used for controlling the JetStream, massages jets, air massage and neck jet. Furthermore, the visualization of the current status of all pools is carried out location-independent via Internet. Thus, the pool temperature, for example, can easily be adjusted from anywhere by means of a smartphone or tablet PC.

CENTRAL CONTROL IS A BIG ADVANTAGE

When selecting the water treatment system, on the one hand, an important factor for the four-star hotel in Seefeld was the modular design of the ProMinent products. On the other hand, it was the operation and control of the four swimming pools with one single central unit, the DULCOMARIN®II.

Peter Tauber, Managing Director of the Hotel St. Peter de luxe, describes the good experiences during operation: *“Our building systems staff is always informed about the water quality, for example, about the current status of consumables and parameters such as chlorine and pH value. The control of the clear system is mostly carried out by using our central building systems PC or, as well, decentralized via tablet PC.*



Thus, we are always able to quickly take the right measures in case of deviations.” The hotelier resumes: “The cooperation with ProMinent is uncomplicated, in case of need we get immediate support. But the most important thing is: There are absolutely no complaints from our guests regarding the water quality, which is a very positive sign.”

The Hotel St. Peter de luxe in Seefeld delivers what the name promises – complete relaxation in a first class ambience combined with extraordinary possibilities for sports activities in summer as in winter. It is a real insider’s tip! So what do you think about playing golf in the mountains now? ■

PLAYING GOLF IN FRONT OF AN IMPRESSIVE MOUNTAIN SCENERY

For ambitious as well as passionate golfers the Hotel St. Peter de luxe offers particular holiday packages: Board and lodging for several days including training programme and green fee. As with the Golf Alpin Card, interested sportspeople can discover the variety of more than 30 golf courses in Tyrol, the Salzburger Land and the Salzkammergut. Another convenience is the nearby golf school and 18-hole golf course of Seefeld-Wildmoos. Indeed, the fresh air and breathtaking views of the mountains, lakes and alpine pastures provide a golfing experience of a very special kind.

KEY FACTS

Easy control of complete pool water treatment system with DULCOMARIN®II and of additional water attractions using Soft-PLC

Precise metering of disinfectants and flocculants reduces consumption of chemicals and overall operating costs

Comfortable setting of water parameters from anywhere using smartphone or tablet PC



ALL GOOD THINGS COME IN FOURS

Enter the new dimension of fully automatic metering systems with the popular product series DULCODOS® Pool, which is now available in four standard versions: Soft, Basic, Comfort and Professional. Due to pre-assembly, all complete systems are quickly installed and ready to use. Whether it's a private pool or a public swimming pool – an excellent water quality at reasonable investment costs is guaranteed!

You like having full control? With the complete measuring, control and metering systems DULCODOS® Pool from ProMinent you always manage the water quality in your pool: Based on the continuous measuring of all parameters, the necessary quantities of chemicals are added automatically and precisely. All units such as controller, metering pumps and in-line probe housing module are compactly preassembled on one single plate for convenient wall mounting. Due to the clearly arranged menu structure, operation and control of the system are also very easy. In order to make sure that nothing can go wrong, there are additional functions for monitoring the stock of chemicals and for protection against overdosage – because high operational safety is just unbeatable.

SO WHAT'S YOUR FAVOURITE TYPE?

Select your individual metering system DULCODOS® Pool from

OPTIMUM WATER QUALITY WITH DULCODOS® POOL METERING SYSTEMS IN FOUR NEW STANDARD VERSIONS

one of the four standard versions – state-of-the-art technology for every pool, for every volume and for every requirement!

TYPE SOFT: ECOLOGICALLY TOP, BECAUSE CHLORINE-FREE

Suitable for pH value adjustment in less frequented private pools having a volume of up to 100 m³, DULCODOS® Pool Soft does not use any chlorine. The disinfection is carried out with active oxygen, which is not continuously metered, but timer-controlled and shock-dosed. By using this method, resistance of germs, possibly occurring in the pool, against the active oxygen is avoided. For environmentally oriented pool owners or for people suffering from a chlorine allergy, this kind of water treatment is an appropriate alternative.

TYPE BASIC: STARTER KIT FOR BEGINNERS

In private swimming pools with a circulation capacity of up to 200 m³/h, DULCODOS® Pool Basic controls fully automatic the pH value and chlorine content by means of the low-maintenance measurement of the Oxidation-Reduction Potential (ORP). The ORP is the direct measurement of effective oxidation in the water and is therefore an indication of the disinfecting effect and concentration of the metered chlorine. Thus, these ORP measurements also enable a layperson to adjust a certain chlorine level.



TYPE COMFORT: INCLUDING REMOTE CONTROL



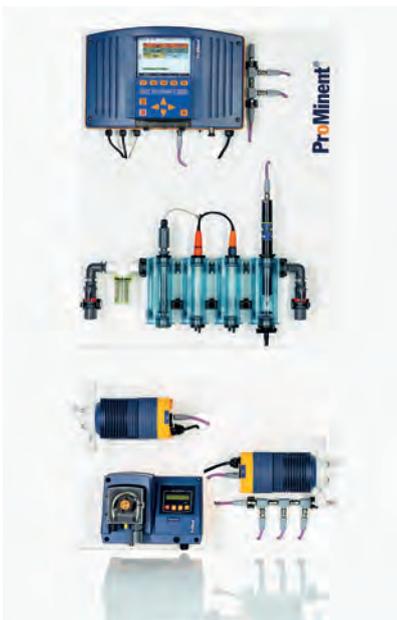
DULCODOS® Pool Comfort is designed for high-end private swimming pools with a circulation capacity of up to 225 m³/h. The complete system controls the pH value adjustment and disinfection with liquid chlorine products. The chlorine concentration in the pool water can be precisely determined and adjusted by means of special measuring probes. Additionally, an integrated metering device for flocculants increases the efficiency of the pool filter. Due to its numerous convenient features, such as the display of measured values on a PC, iPad or tablet PC via remote control and the use of an integrated web server, this metering system is the clear favourite with pool owners.

ly reduces the operating costs. Due to manifold communication interfaces, DULCODOS® Pool Professional can easily be integrated in networks or a building management system and can be remotely controlled via iPad or tablet PC. Another special feature: By using the integrated Soft-PLC, the user can optionally manage peripheral equipment and functions such as UV plants, water attractions, lighting, heating and automatic water feed – the handling of the system is just real fun!

THE CONVENIENT ALL-IN-ONE SYSTEM

All four metering systems DULCODOS® Pool are robust and low-maintenance. Depending on the specific requirements and the circulation capacity, different types of controllers are used as well as peristaltic pumps from the DULCO®flex series, motor-driven pumps type alpha or solenoid-driven pumps type Beta®. Sensors, controller and metering pumps together with containers for the necessary chemicals form a perfectly matched system, which can be quickly installed and is immediately ready for reliable operation. Thus, at any time crystal clear water is ensured in your pool – no matter if you use the soft of professional type! ■

TYPE PROFESSIONAL: HIGH-TECH FOR EXPERTS



The powerful metering system DULCODOS® Pool Professional is ideally suited for public swimming pools with a circulation capacity of up to 1,130 m³/h, for high-end private and for therapy pools. It is the complete solution for individual adjustment and monitoring of all common hygiene auxiliary parameters such as pH value, ORP as well as free and combined chlorine. In order to save energy, the operating mode “Eco!Mode” optimizes the circulation capacity of the metering pumps according to the water quality, which evident-

HUNGARY THRILLED BY OLYMPIC SPIRIT

OZONE SYSTEMS AND ELECTROLYSIS PLANT CHLORINSITU® III GUARANTEE
BEST WATER QUALITY FOR YOUNG OLYMPIC SWIMMING ATHLETES

THE HUNGARIAN CITY OF GYOR WAS AWARDED TO BE THE HOST CITY FOR THE EUROPEAN YOUTH OLYMPIC FESTIVAL IN 2017. THIS PRESTIGIOUS MULTISPORT EVENT FOR YOUNG EUROPEAN ATHLETES BETWEEN THE AGES OF 14 AND 18 TAKES PLACES EVERY TWO YEARS, BOTH IN A WINTER AND SUMMER EDITION. THUS, GYOR IS PREPARING ITS SPORTS FACILITIES TO WELCOME ABOUT 3,600 PARTICIPANTS FROM ALMOST 50 MEMBER COUNTRIES.



The whole country and particularly the city of Győr in the northwestern part of Hungary, are totally excited about hosting the European Youth Olympic Festival (EYOF) at the end of July 2017. For the first time in history, the Olympic Flame will be seen in this sports enthusiastic nation. Thus, Győr with its 130,000 inhabitants and most dynamical development is working flat out to provide excellent accommodation, training and competition facilities for the athletes, coaches and guests.

Since Roman times, Győr has been an important junction in the middle of Europe, due to its advantageous location in a triangle

between Vienna, Bratislava and Budapest and the confluence of four rivers, among them the beautiful Danube. But this is only one of the many reasons, why the city is ideal for organizing such a major event. The mayor is also the president of the Hungarian Olympic Committee and an Olympic Champion himself. So it is no surprise that Győr has several first division sports clubs and emphasizes on organizing international sports events.

THE BEST IS ONLY GOOD ENOUGH

In the Radnóti street sports stadium where also, for example, the

tennis and athletics competitions will take place, a new swimming pool was built and inaugurated in December 2014. According to international regulations, the pool's dimensions are 50 x 25 meters complemented by another indoor training pool of 16 x 10 meters as well as an outdoor training pool.

Based on the fact, that ProMinent has over the years gained a worldwide reputation in supplying reliable products for creating an optimum water quality in Olympic pools, also the designers and pool builders in Győr chose disinfection systems from the German experts. And of course,



the entire project management from planning to product delivery to installation and commissioning was carried out by the Hungarian subsidiary of ProMinent with support from the headquarters in Heidelberg.

In order to ensure an all time hygienic, crystal-clear and soft water in the new Olympic pool for the EYOF 2017, ProMinent supplied mainly the following equipment: One CHLORINSITU® III electrolysis plant for the generation of sodium hypochlorite; one DULCOMARIN®II measuring and control system for the two indoor pools including three modules and the necessary sensors; two Bono Zon® BONA type ozone generators, one for each pool; ten solenoid diaphragm metering pumps type Beta® with accessories for the dosing of chemicals, five for each pool, as well as several gravel and activated carbon filters, ozone reaction tanks and control cabinets for all equipment.

WHAT REALLY COUNTS

Well, planning a pool layout and installing the required products and disinfection systems is just one part of the story. In the end, the only thing that really counts, is the feedback from the swimmers. All hard training athletes have highest demands on their equipment and on the conditions of competition. Thus, the water quality in an Olympic pool is a pre-requisite as well as an advantage for achieving, for example, a world record during the event. If the water “feels” good, the swimmer feels good.

So the first feedback from the Hungarian sportsmen and sports-women, who are already training in the new pool, is very positive. They consider the water quality as excellent and need to change their swimming dresses less often. This effect is due to the lower chlorine content in the water, because ProMinent ozone generators are used for disinfection. Less chlorine





also means less eye irritation and less unpleasant odour.

And what says Ferenc Harsányi, Facility Manager of the Olympic pool in Gyor, regarding the first experiences with the new system? *“Our cooperation with ProMinent Hungary Ltd. was satisfying during planning, implementation and installation. The complete water treatment system complies with our high level requirements.”* He emphasizes the comfortable features: *“By using the touch panel, the calibration of the parameters is very easy. Due to the fully automated system, the working conditions of our technicians are really facilitated.”* Ferenc Harsányi concludes: *“After the first three months*

of operation, the feedback from our guests and athletes on the water quality is favourable. That is, what really counts.”

FEELING THE OLYMPIC SPIRIT

In any case, the city of Gyor is well prepared for hosting the summer edition of the European Youth Olympic Festival in 2017. During the eight days of the sports event, it will become even more a link between all European cultures and will promote the Olympic values. Now, Gyor is ready to provide the best possible conditions for the young athletes to compete in the spirit of fair play, solidarity and friendship.

And thanks to the splendid clear water, we can all look forward to see breathtaking pictures and films of the athletes in motion.
Let's meet in Gyor in 2017!



PROFESSIONALS PLAY ON LEVEL V PLUS

CHLORINSITU® V PLUS – THE INTELLIGENT ELECTROLYSIS PLANT, WHICH EVEN SAVES ENERGY

How ambitious are you in playing? Do you want to reach the next level as quickly as possible? We continually optimize, for example, our electrolysis plants for the disinfection of swimming pool water with regard to performance, energy consumption and operational safety. Research and development carried out in-house – and paying off for our customers.

The consistent further development of our salt electrolysis plants of the product series CHLORINSITU® IV now allows the metering of hypochlorous acid as well as sodium hypochlorite for covering peak periods – and all this combined with pH value correction. The system is based on an identical process for generating a chlorite-free chlorine product and a very pure and chlorite-free sodium hydroxide solution.

FROM LEVEL IV TO LEVEL V

One of the main differences to the proven CHLORINSITU® IV system is the use of motor ball valves instead of solenoid valves leading to less wear and reducing the overall need for spare parts. Another advantage is the extraction of the high-purity active chlorine gas, which is generated in a vacuum by means of an injector (vacuum system), and its complete solution as hypochlorous acid in the water to be treated. The vacuum is kept stable by using one single frequency-controlled water pump. Due to this fact, the system achieves enormous savings in energy compared to the former system and to other systems on the market.

THOUGHT-OUT DOWN TO THE LAST DETAIL

The CHLORINSITU® V plus generates the required disinfectant, the hypochlorous acid, from water and common salt by means of electrolysis. Surplus active chlorine can be bound and stored temporarily as sodium hypochlorite.

Thus, the system can operate in the so-called batch mode allowing, for example, the use of cheaper off-peak power for the generation of sodium hypochlorite solution. Due to intermediate storage, this solution can then be used during peak disinfection periods.

The user benefits from a very economic operation based on the long service life of the electrolysis cells, the cheap raw material common salt, the low energy consumption and the fact, that the water can be treated without using neutralising agents. As a consequence, the CHLORINSITU® V plus is a good alternative for the reliable disinfection of swimming pool water – as proof: In the Netherlands, more than 40 systems are successfully in operation.

After thorough further development, the CHLORINSITU® V plus now also complies with the current Machinery Directive and thus, is ready for the German market.

So, are you ready for level V plus, too? ■



KEY FACTS

Compact design, high operational safety, efficient disinfection

Chlorination and pH value correction of several pools with one single system

Covering of peak periods by using a daily stock of sodium hypochlorite solution



**JOCHEN
SCHWEIZER**
Genug geträumt, jetzt wird erlebt.

AND THE WINNER IS...

DURING THE TRADE FAIR INTERBAD IN STUTTGART LAST OCTOBER, THE VISITORS COULD INFORM THEMSELVES AT THE PROMINENT BOOTH "LIVE AND IN COLOUR" ABOUT THE LATEST TECHNOLOGICAL DEVELOPMENTS. AND THEY HAD THE UNIQUE CHANCE TO PARTICIPATE IN THE PROMINENT PRIZE COMPETITION.

On all four event days, a special experience voucher of the well-known Jochen Schweizer GmbH was raffled each day. There are plenty of different activities for all tastes and all ages – be it the ultimate adrenaline rush, a spectacular outdoor adventure or a wellness experience for relaxation.

Following the motto "stop dreaming, now do it", four happy winners in Germany are able to fulfil a personal wish in form of an unforgettable experience:

Thomas Beklas, owner of „Thomas Beklas Schwimmbäder-Wellness-Garten“ in Geseke

Joachim Spengler, service technician at Wassertechnik Wertheim GmbH & Co. KG

Thomas Henkel, hygiene inspector of Landratsamt/Gesundheitsamt Bad Neustadt

Florian Zephyr from the internal sales team of the m.hübers GmbH in Wesel

FEELING LIKE SEBASTIAN VETTEL

Lucky fellow Florian Zephyr received his winning voucher from Heinrich Behr, one of our sales experts for pool technology, during his attendance of a seminar at our ProMinent Academy in the Heidelberg headquarter. He will most probably use the voucher for fulfilling his long-anticipated dream to drive a Ferrari. Well, step on the gas and have fun! ■

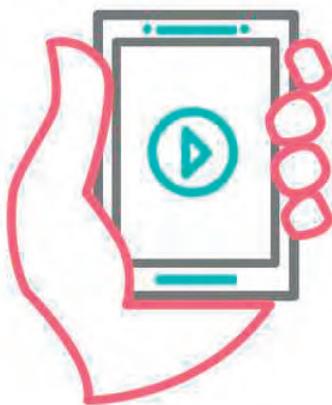


PROMINENT IS „ON THE AIR“!

YOU ARE INTERESTED IN THE INNER WORKINGS OF A METERING PUMP? WELL, JUST GO ONTO THE INTERNET AND WATCH OUR 3D PRODUCT VIDEO CLIPS ON YOUTUBE!

WWW.YOUTUBE.COM/USER/PROMINENTGROUP

Since the company's foundation, ProMinent has always put great emphasis on research and development. Over many decades customers benefit from numerous innovations and patents of the experts for water treatment and metering technology based in Heidelberg. Thus, in the age of global networking, ProMinent is, of course, also taking part in social media activities!



ONLINE 24 HOURS WORLDWIDE

On the social media channel YouTube you can watch nearly everything: Funny videos of minor and major misfortunes, historic football goals, homemade music video clips and much more. Everybody can participate and upload his own individual video. Then, it is visible for the whole world around the clock. In the meantime, even the economy is using this channel for spreading information on companies and products. Due to the fact, that "a picture speaks a thousand words" - and this, much faster than a multipage brochure.

AMAZING INSIGHTS

Besides our corporate video about ProMinent GmbH, which is available in several languages,

we mostly present professional product video clips of our new metering pumps on YouTube.

With these descriptive 3D animations you can, for example, directly watch the inner workings of the flow meter DulcoFlow – special features as well as the functioning are explained in an easily comprehensible manner. Such deep insights are really rare!

PRODUCTS IN PRACTICAL OPERATION

Recently, we also show products and systems in practical applications at our customers' sites, e.g. at a German company for drinking water supply or an operator of a public swimming pool in France. Just click on the video clips and have a look – it's worth it! ■



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We hope you enjoyed this 10th anniversary edition of
Splash - The Magazine.

If you are already looking forward to the next one,
we will provide lots of interesting issues focussing
on the upcoming exhibition 'aquanaale'!



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Dive in Switch off



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