

POOL TECHNOLOGY

Crystal-clear water for pure fun in your leisure time



grünbeck

ANTICIPATION
ADVENTURE
EXCITEMENT
FUN

PLEASURE



EXPERTISE

Expertise – right from the go

Water stands for relaxation, wellness, health or simply a lot of fun. Water parks, lavishly equipped thermal spas, therapy pools or bubbling water attractions ensure our well-being and vitality. However, to make sure that the enjoyment will not be dimmed, modern water treatment technologies are indispensable.

Thorough planning – right from the conception phase – as well as high-quality and reliable technical equipment guarantee that your guests will have a pleasant stay. Furthermore, the choice of perfectly harmonised components ensures low operating, energy and maintenance costs.


We look over the rim of the pool edge

Grünbeck is proud to look back on 60 years of expertise in all areas of water treatment. Our experts' considerable experience in many sectors – from residential applications to hygiene, from swimming pool technology to process water treatment – enables them to develop innovative and reliable solutions to fit your requirements as well. We look over the rim of the pool edge.

As a manufacturer of complete systems, Grünbeck is a one stop supplier who realises complex systems of high technological standard: from conception and design, via detailed and execution planning to in-house production of components and assembly of the entire system.

Using modern design, construction and simulation systems, we also develop customised solutions. Our team of experts comprising engineers, chemists, biologists and process technicians can make use of in-house labs and test facilities in the Technology Centre in Hoechststedt. For your benefit, we think and act like a mid-sized company: fast, unbureaucratic, cost and energy conscious.





QUALITÄT

THERMAL SPAS

WATER PARKS

FUN POOLS

LEISURE POOLS

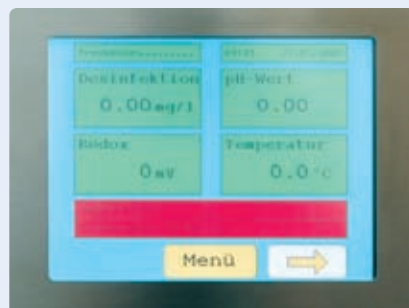
As little as possible but as much as necessary

Your guests are entitled to crystal-clear and clean water in which they can unwind and forget their everyday worries. Pure bathing delight in thermal spas, water parks or fun pools, however, is only possible with a well-balanced disinfection and a highly effective filter system. Continuous monitoring of the water quality is of utmost importance. Only the fast and reliable collection of measuring data ensures a short response time for corrections. Grünbeck's fully automatic measuring and control systems make sure that you will always have the pH value and hygienic parameters under control, thus keeping the chemicals consumption at a minimum: as little as possible but as much as necessary.

Patented process – easy on your purse

Thanks to Grünbeck's patented Pneumofil system, cost intensive sanitation and replacement can easily be avoided. The continued and successful operation of filter systems that do no longer meet today's applicable standards can be ensured by means of the Pneumofil process. The system may be used for single or multi-layer filters and can be adapted to your specific operating conditions. The filters are optimally rinsed and thus considerably improve the microbiological and chemical conditions required for perfect water quality.

Touch panel for the operation of the filter systems as well as the measuring and control system



References:

- Rhine Main Thermal Spa, Hofheim, Germany
- Toskana Thermal Spa, Bad Sulza, Germany
- Sports Centre Neuruppin, Germany
- Baltic Sea Thermal Spa, Scharbeutz, Germany



LUXURY

WELLNESS

COMFORT

HOTEL POOLS

Optimum quality and high reliability

No matter if on vacation or on a business trip, your guests will always appreciate the wellness facilities, a tastefully equipped hotel pool has to offer. Additional attractions such as massage jets, wide shower jets or bubbling beds enhance the pleasant effect on body, mind and soul and let your guests truly enjoy themselves. The technology behind their lovely wellness experience, however, does not really concern them at all.

Regarding reliability, cleanliness, hygiene and operating costs, however, a proven technology is what YOU need to focus on. This is where Grünbeck as an experienced partner lets you benefit directly from their sophisticated technology as well as high flexibility which are based on in-house design and processing. We pay special attention to the optimisation of your operating costs and the high reliability of a trouble-free operation.

Chlorinator for the reduction of combined chlorine

Individual solutions for disinfection

In a modern leisure pool, water that smells of chlorine is definitely out of the question. Thankfully such inconveniences can nowadays easily be avoided with a sophisticated water treatment system that also has an optimum disinfection capacity. With their chlorinator, Grünbeck offers a perfect solution for the degradation of the combined chlorine contained in the pool water. Using various light sources, the chemical-free degradation of the loading – the by-products which might result from chlorination – is achieved.

The chlorinator is designed for application in upscale hotel pools, exercise pools, leisure pools with a high load and in particular for existing facilities in which the hygienic parameters do no longer meet the applicable DIN regulations.

We would also be pleased to advise you on the sanitation of existing systems in order to optimise the water treatment and reduce your operating costs.



References:

- [Hotel Bayerischer Hof, Munich, Germany](#)
- [Four Seasons, Mumbai, India](#)
- [Mandarin Oriental Hotel, Hong Kong, China](#)
- [Wellness Hotel Gutjahr, Abtenau, Austria](#)
- [Golf Hotel Riedersand, Sylt, Germany](#)
- [Hotel Goor, Lauterbach/Rügen, Germany](#)



HEALTH

WELL-BEING

RELAXATION

THERAPY AND EXERCISE POOLS

Relaxation thanks to proper water

Water does not only bring you joy or adventure but also offers a wide range of applications with regard to health and comfort – be it the good old Kneippism or a modern therapy pool. In professional sports, innovative revitalisation pools are of central importance for the relaxation of the body after high physical strain during practise or competition. A stay in the well-tempered, bubbling water supports a quick regeneration. This is why revitalisation pools have found their way into all large sport arenas and many training centres all over the world.

Grünbeck draws from a large pool of experience covering all aspects of water treatment for hospitals and other health facilities. Our experts are familiar with the specific requirements for hygiene and disinfection. Grünbeck has an appointed hygiene representative for the health industry who is also a knowledgeable partner when it comes to the generation of ultra-pure water or the treatment of fresh water.

Automatic measuring and control system GENO®-CPR-tronic 02 public

Water quality – the most important health aspect

Especially in a health centre it is of particular importance that the water quality meets the high requirements of the current DIN standard. Therefore, the water values have to be checked on a regular basis and additives must be dosed, if required. With the GENO®-CPR-tronic, Grünbeck has developed an automatic measuring and control system that continuously measures the pH and Redox values, the chlorine concentration as well as the pool water temperature. As soon as the defined reference value is either undershot or exceeded, additional dosing takes place automatically. Up to 31 devices may be interconnected and controlled and in addition, remote monitoring and operation via touch panel are an option.



References:

- [Salus Hospital, Bad Reichenhall, Germany](#)
- [Hochweitzschen Hospital, Auterwitz, Germany](#)
- [HELIOS Sea Hospital, Sahlenburg, Germany](#)
- [Veltins Arena, Gelsenkirchen-Schalke, Germany](#)
- [Olympic Stadium, Berlin, Germany](#)
- [Training Centre of the German Federal Armed Forces, Oberhof, Germany](#)

A young boy in a blue tank top and shorts is walking on a wooden deck in the foreground. Behind him is a large, multi-tiered water fountain with many jets of water spraying upwards. The background shows a theme park setting with buildings, palm trees, and other people under a blue sky with light clouds.

ENTHUSIASM

EXCITEMENT

ADVENTURE

THEME PARKS

Water inspires fascination

Who once has been standing in awe in front of a fountain or a water attraction in a theme park knows about the fascination such facilities may inspire. Only the fewest, however, will think about the technical requirements that are indispensable for the proper operation of such systems. A multitude of water treatment processes are necessary in order to fulfil all the hygienic requirements imposed on the water 24 hours a day and 365 days a year. The guests expect visually clean and hygienically pure water. Grünbeck's water treatment experts have many years of experience in this sector which they have gained not only in many national but also international projects.

Water management in the leisure and recreation industry must take into consideration economic as well as ecological aspects. Optimum water treatment translates into high water quality and an economical use of the resource "water". Grünbeck provides their customers with the know-how on the reduction of the water consumption, thus decreasing the impact on the environment and realising a substantial cost savings potential.

GENO-mat® BWK 1400 A filter system with automatic multi-way valve, filter capacity 46 m³/h

Crystal-clear water thanks to modern filters

Low water levels in the pools of water attractions and comparatively large water surfaces in theme parks make high demands on the technology used. Impurities caused by leaves or larger objects endanger the continuous operation of the facilities and therefore reliable solutions are required. The same applies to the optimum flow through the facility which is realised by a clever combination of pumps and jets, thus avoiding hygienic problems. This is where Grünbeck excels due to their considerable expertise. Thanks to their in-house planning department, individual customer specifications may be realised.

The core of every water treatment plant in theme parks or every water attraction is a powerful filter system. Various environmental influences may contribute to the pollution of the water, thus increasing the risk that the complex technical systems may fail. Grünbeck's water filters consist of numerous filter layers. When the water flows through the different filter layers, even the finest dirt particles are retained. The system itself is designed subject to the pool size and the load to be expected.



References:

- Legoland Billund, Denmark and Legoland Günzburg, Germany
- Shark Pool, Fehmarn, Germany
- Skyline Park, Bad Wörishofen, Germany
- LBS, Stuttgart, Germany
- Müritzeum, Waren, Germany



Residential Applications



Swimming Pool Technology



Hygiene/Health Technology



Food/Beverage Industry



Power Stations



Water Supply

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