

Thermal Spa in Bad Aibling relies on Ultrafiltration

World's Largest Ultrafiltration Plant designed for Spas due for start-up in Bad Aibling (Bavaria, Germany) – Total Treatment Capacity of 800 cubic metres of water per hour

Greifenberg, 13th August, 2007 – In Bad Aibling, hitherto known as a moor spa, a new thermal spa will be opened in September 2007. Not only the intended spa's waterpark shall be modern and trend-setting – but also the water treatment will be according to state-of-the-art technology: By passing through five filtration cycles, approx. 800 cubic metres of water per hour are purified by means of ultrafiltration.

Since 2003, the W.E.T. GmbH based in Kasendorf (Germany), manufacturer of the ultrafiltration system in Bad Aibling, has installed a total of 32 recirculation systems for treating bathing water, with a total capacity of 2135 m³/h. Another 13 recirculation systems with a total of 1420 m³/h (incl. Bad Aibling) are under construction at present.

The internationally active inge AG, located in the Bavarian town of Greifenberg near Munich, Germany, manufactures and sells ultrafiltration membranes and modules for the treatment of drinking, process, waste water as well as swimming pool applications. Meanwhile, numerous plants, equipped with products from inge AG, have shown that the stability of its patented Multibore® membrane technology currently surpasses everything else on the market. The formula for its success is, among other things, the structure of the membrane fibre, designed according to the honeycomb structure produced by bees.

An inge AG membrane fibre combines seven single capillaries, a construction differing considerably from conventional single-bore capillary membrane products, resulting in an extremely high degree of stability and resistance. These capillaries are firmly locked into position inside the dizzer®-Multibore® module, thus ensuring hydrodynamic optimization, high longevity and a clean and secure treatment process.

Positive experiences, gained by the W.E.T. GmbH in applying modules manufactured by inge AG, were also the crucial factor for selecting the ultrafiltration producer in the course of the major project in Bad Aibling. Therefore, as of September 2007, 92 inge AG dizzer® modules will provide water treatment in Bad Aibling. This process runs as follows: After being transferred from the splash water container, a flocculating agent is added to the water. Reduction of the bound chlorine is achieved by adding powdered activated carbon. Disc or gravel filters are used as a protective filter before the ultrafiltration process. Following the ultrafiltration by means of the dizzer® modules, a pH adjustment is carried out, and after the required chlorination, the water flows back again into the basins.

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Ultrafiltration is a secure barrier against viruses, germs and bacteria

Ultrafiltration (UF) is a filtration technology whose advantages, compared to conventional water treatment methods, are a reliable removal of germs, micro-organisms and turbidity from water, thus ensuring a safe operation of the water treatment plant, even with long-term use.

With approx. 20 nm (that is approx. 3000 times smaller than the diameter of a human hair), the pores of the membrane are so small that even viruses are held back by it. This process is easy and safe to realise – without extensive chemical additives, consuming only a minimum amount of energy. Ultrafiltration plants are designed and constructed as automatic operations. The control program adjusts the different operation modes of the ultrafiltration process: filtration and cleaning of the membrane by backwash.

For water cleansing, sediments, deposited on the membrane surface during filtration, are removed by a short, powerful backwash sequence. During this so-called „backwash“, previously extracted filtrate is forced, practically in „reverse direction“, through the membrane by means of a pump. Thus, sediment build-up is loosened and rinsed off.

More information www.inge.ag, www.therme-bad-aibling.de, www.wet-gmbh.com

inge AG at a glance

The internationally active inge AG has its headquarters located in Greifenberg near Munich, Germany. The company manufactures and sells ultrafiltration membranes and modules for the treatment of drinking water, process water and waste water. It is the largest ultrafiltration corporation for water treatment in Germany and currently employs over 50 people. In order to meet the increasing demand of the Asian markets, inge AG also maintains a sales office in China.

Compared to conventional water treatment methods, use of inge's ultrafiltration technology offers numerous advantages: the modules can be easily and quickly installed in a system, and the membrane fibres are extremely robust and stable. Since inge started its operations six years ago, it has not seen any fibre breakage in its membranes. Such exceptional advantages ensure low operating costs and lower whole life costs. An additional important advantage is the security that it can provide for health: the small-pore size of inge's patented Multibore® membrane reliably rejects particles, micro-organisms, bacteria and viruses from water, thus providing clean drinking water free of pathogens.

Further information can be obtained with:

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