

Titania-Therme, Neusaess/Germany

OSEC®-NXT

Membrane electrochlorination system

The challenge

The Titania leisure center in Neusaess near Augsburg was opened in 2002. It is one of the six Starwaters® leisure facilities of the Deyle Group. The center offers a varied water world, within a natural looking stone scenery with 1,000 sq m (10,764 sq ft) water area.

Germany's first water chute and a 120 m (393 ft) water chute are the main attractions; the bathers use the spacious indoor landscape with several saunas and outdoor pools for their recreation. More than 1,000 visitors per day enjoy the center's attractions.

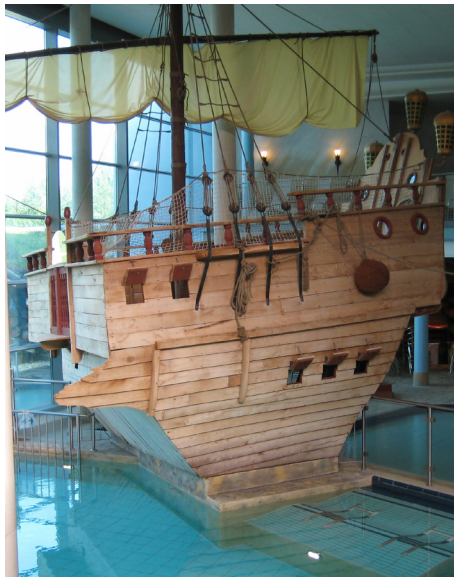
Since the center's opening Wallace & Tiernan® products from Siemens Water Technologies have been installed to ensure the optimum water quality environment for its visitors. Each pool,

nine in the swimming area and five in the sauna area, is equipped with a PCS measurement and control system for the parameters free chlorine, pH value and ORP.

For the generation of fresh sodium hypochlorite one of Siemens first membrane electrochlorination systems was designed. Since the installed model was more a pilot system than a regular working standard system, the operator turned down the system after a few years operation and started again to search for an alternative disinfection solution and chose to purchase commercial sodium hypochlorite as an interim solution. To improve economy aspects in operating the leisure center the operator once again consulted with the Siemens specialists.

The solution

Siemens Water Technologies expertise with water disinfection in swimming pools in general and in electrochlorination systems led to the development of the OSEC®-NXT membrane electrochlorination system and recommended it to the center's operators. The four cell system produces up to 48 kg (105.8 lb) chlorine per day. The OSEC-NXT system provides high availability and safe continuous output. The system is easy to



Case study

Water Technologies

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handle and to maintain. The control panel contains a touch screen. The scope of supply includes a ChemWeb-Server which makes it possible to remotely control the system via the Internet.

The available product tanks were integrated into the system. Only the installation changed; The unit stands now on a higher platform – to be safe from humidity on the ground.

Scope of supply:

- OSEC®-NXT Membrane electrochlorination system for up to 48 kg (105.8 lb) chlorine per day
- 14 PCS measurement and control systems

Five good reasons for OSEC®-NXT systems:

- High efficiency by optimized and continuous conversion from brine to sodium hypochlorite solution
- Long life system through optimized production and integrated capacity control
- High operating safety, just requiring salt and water
- User-friendly touch panel control
- Skid mounted system for easy installation



Center's technician, Florian Egner, stands next to installed membrane electrochlorination system.



The Titania Therme has the first water chute in Germany.

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WT.085.135.001.IE.CS.0210
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