

Extension completed!

After some 18 months of building work, we were finally able to move into the extension to the Ravensburg headquarters in October 2013. The extension has approximately doubled the useful surface area for production and administration. The management, the commercial administration and the development, marketing and sales departments have all been brought together in the extension's office wing. There is also an integrated training room on the top floor. The production hall is mainly needed for assembling new systems and for maintaining the four tank production systems.



According to **CEO Andrea Strobel**, this seventh construction project since the company was founded has continued its systematic growth policy and has also laid the basis for further growth.

Strobel discusses the previous building projects since the company was founded (1971) and the construction of the first building in 1972. The first hall was built just eleven years later (1983), followed by a new office building 5 years after that (1988) and the southern underground car park 12 years later (2000). The largest investments have been made within the past 10 years, in the shape of the two halls in Tannheim and the current extension. According to Strobel, the company now has 14,806 m² of land and total office, production and storage floor space of 7,394 m². The director Ms. Strobel is particularly proud of the entrance area, with a stainless steel rear wall fashioned from a tank to represent a special and unique architectural feature.

With this, the company is recognising the fact that stainless steel tank construction is currently its biggest-seller. When passing through the ge-

nerously designed rooms, it also becomes clear what Strobel means when she refers to a good work environment with optimised acoustics. The height of all the desks can be adjusted steplessly, thereby allowing people to work both while seated or standing up.

The **CEO Karl Weißhaupt** says that a company is only credible as a technological leader if it also employs the appropriate technologies. Consequently, the building is equipped with state-of-the-art heating and ventilation technology in order to optimise energy consumption. This is also being installed in the existing buildings in another construction project that is still under way. Heating is provided by two gas cogeneration plants, each delivering 30 kW of thermal and 15 kW of electrical power, along with a 110 kW gas condensing boiler to cover peak demand requirements.

The new heating and air conditioning system works with combined heating / cooling ceilings in the office rooms, along with underfloor heating in the remaining rooms and in the transit areas. The system switches over to cooling during the

summer months. This involves up to two 10 kW absorption chillers working in combination with two 25 kW recooling systems.

A ventilation system with a heat recovery system for a circulation rate of up to 3000 m³/h provides good room air. Weißhaupt places particular emphasis on the building automation system that works using state-of-the-art network technology. It is based on the communication protocol KNX IP, coupled with WAGO controllers. This controls and regulates the entire heating, ventilation and air conditioning system. The central building control technology with an intelligent lighting and shutter system (including intruder alarm and fire alarm system) was programmed by the company's own personnel.

IMPORTANT DATES

23. Januar 2014

Tiefbauforum, Donauhalle Ulm
Exhibition/lecture: Centralised softening of drinking water

05.-07. Februar 2014

Hygienefachtagung, Bad Elster.
Conference/lecture: The ozone-bromine method

05.-06. März 2014

Seminar Dr. Jentsch, Nürnberg
Exhibition/lecture: The ozone-bromine method

27. März 2014

Seminar Wasserversorgung, HS Deggendorf
Lecture/tour: Stainless steel in the water supply

2. April 2014

Tiefbauforum, Congress Center Leipzig
Exhibition/lecture: Centralised softening of drinking water



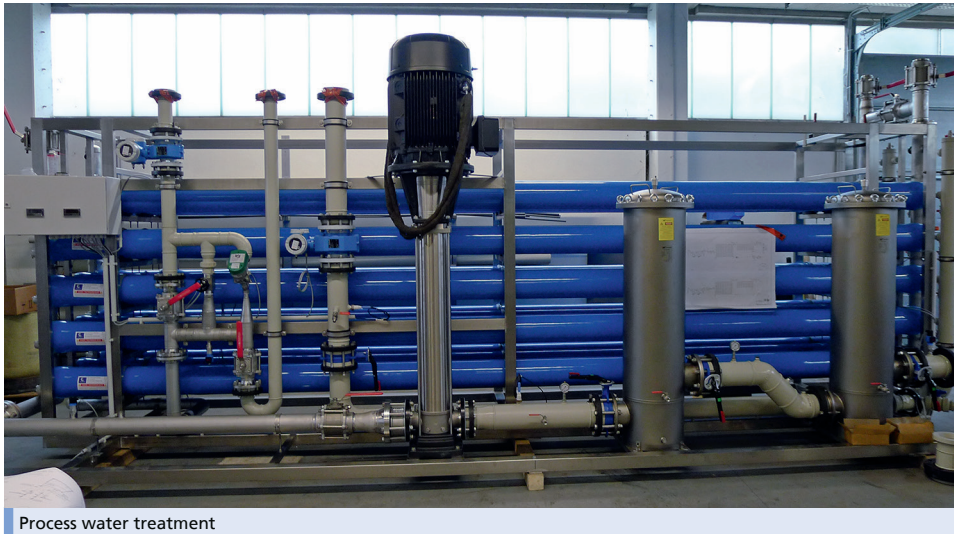
Reverse osmosis system

RWT GmbH has designed, produced and supplied a fully automatic dual-line reverse osmosis system for a German plant fabricator. The system will be used to produce process water at a location in the Middle East.

The scope of delivery of the entire process unit includes two UV disinfection systems, the dosing stations for anti-scalant and sulphuric acid, the reverse osmosis systems with a gross infeed rate of 100 m³/h in each case, two CO₂-percolators for residual degassing, dosing stations for chlorine bleach, sodium hydroxide and corrosion protection inhibitor, a cleaning station (CIP) for the membrane elements, a desalination unit and the complete control unit for operating the system

fully automatically.

The entire system was designed to be preinstalled on a stainless steel frame with all the necessary pipelines and fittings for internally connecting the individual components. This allowed assembly at the installation site to be performed quickly and easily by the end customer. The total value of the order, which was completed within two months (including engineering and production), was approximately 650,000 Euros.



Process water treatment

New waterworks now in operation

The new Prittriching waterworks has been officially in operation and on line since October. The waterworks supplies drinking water to the two communities of Prittriching and Scheuring.

The two stainless steel drinking water tanks, each with a capacity of 600 m³ and of Duplex steel quality, form the central core of the waterworks.

The HydroSystemTanks measuring 10 m in diameter and 7.9 m in height that are made on site in line with the patented special process store the ground-water that is constantly delivered from the pumping station. Before it enters the two tanks, the ground-water is disinfected for safety via a Wedeco "Spektron 350" UV system with a nominal capacity of 385 m³/h. The water is delivered to the two different mains (Prittriching with a 45 m delivery head and Scheuring with a 65 m delivery head) by means of two Lowara frequency-controlled pressure booster stations, each with 2 basic load pumps and 3 peak load pumps. Thanks to the very fast-reacting frequency controller for the pump systems, the systems can manage with relatively small pressure vessels. Each system can deliver up to 140 m³ of water to the mains at the nominal delivery head.

A back-up power supply system has been installed in order to avoid a breakdown in the water supply in the event of a power failure. The entire system is integrated in a hall measuring approx. 30 x 15 m, with adjacent workshop and office rooms. The floor slab is approximately 1.20 m below ground level.



Prittriching waterworks

LEGAL INFORMATION



HydroGroup
www.hydrogroup.de

Publisher

Hydro-Elektrik GmbH
Angelestraße 48/50
88214 Ravensburg
info@hydrogroup.de

Editor

Manfred Brugger
mb@hydrogroup.de

Layout

Silvia Mesmer
silvia.mesmer@hydrogroup.de

Company publication

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