

News from the HydroGroup

Enlargement of company management

In order to guarantee the future of RWT GmbH in the long term, Andreas Muche (Dipl.-Ing. FH) was conferred procuration after nearly 10 years in sales and administration at RWT GmbH. In addition to this trendsetting move, Markus Stüker (B.Sc./B. Eng.) was named assistant to the management. Markus Stüker works in the field of construction and technical order processing. Bruno Bachhofer shall retire from his role as CEO at RWT GmbH.

As a further measure, the company will operate in the future under the umbrella of the HydroGroup as „RWT GmbH“, the name established on the market, instead of the originally unabbreviated name „Ravensberger Wasseraufbereitungstechnik GmbH“. Addresses, contact people and e-mail addresses shall remain unchanged.

New image brochure

The new HydroGroup image brochure was completed in time for the IFAT trade fair. The brochure is impressive with its unique design of a stainless steel appearance and appealing contents regarding the products and the philosophy of the company which is part of the HydroGroup brand. The brochure is also available on the Internet as an online brochure or as a download in three languages. We would be pleased to send you the brochure upon request.

New Internet presence

A new internet presence for the HydroGroup is being prepared for 2011. The Internet presence is the business card of the company, and at the same time it should be customized to the needs of the interested parties. For this reason, we would be pleased to receive your feedback with your requirements for a good website or examples of successful sites.

Company headquarters expansion

An expansion of the company headquarters in Obereschach has been planned for some time. This project can now be started through the purchase of a bordering property.

Crucial points of the planned new construction are a new hall for manufacturing, service and storage of the mobile tank production units and the integration of test benches for water treatment systems as well as an office building with additional office and training rooms.

With this expansion, the company is well prepared for further growth and additional employees.

Water transport

Expansion of the Erolzheim pumping station

With the construction of two additional wells, the Iller-Ristal water supply administration increased the transport capacity from 120 l/s to approx. 350 l/s. The new unit was commissioned at the beginning of October 2010.

The pumping station is located in an area rich in groundwater approx. 20 km north of Memmingen between Erolzheim and Kirchdorf on the River Iller. The groundwater is of an excellent quality and can be delivered to consumers without further treatment. A maximum of 120 l/s could be transported with the existent pumping station and its three underwater motor pumps with 60 l/s transport capacity each. Through the new construction of two additional wells and a central plant, the transport capacity was increased by four more pumps with 132 kW electrical power each, to a maximum of 350 l/s (at 8 bar operational pressure). Hydro-Elektrik GmbH was commissioned with designing the electric and hydraulic installation. The hydraulic installation was designed for a nominal pressure of 25 bar.

A distinct feature of the electric installation was



Overpressure protection with special valve

that the high-voltage lead conductor of 20,000 V was led directly into the building. The transformer of 20 kV/630 A was installed in a separate room in the building. The contract also contained the connection to the existing process control technology.

Water treatment

Better drinking water for Jimbolia

The 13,000 inhabitants of the city of Jimbolia in western Romania have been enjoying significantly better drinking water since the middle of this year.

Prior to the new plant being commissioned, untreated well water disinfected only with chlorine was fed into the network.

The reduced, low-oxygen water indicates an increased content of ammonia, hydrogen sulphide, iron, manganese, TOC/DOC and in some cases arsenic. The existing wells are poorly sealed and in need of renovation, so that the regular occurrence of coliform germs is more the rule than the exception.

A two-phase pre-ventilation with sprinkling for the removal of hydrogen sulphide as well as an oxidation stage with ozone for oxidation and disinfection with a subsequent biological filtration stage was defined for the treatment process based on these water parameters. Disinfection at the end of the plant is carried out with chlorine (as required in Romania).

The hydrotechnics system was mainly divided into two stainless-steel raw water tanks with a capacity of 100 m³ each, a three-line filter system with a treatment capacity of up to 65 m³/h each and two stainless-steel pure water tanks with a capacity of 570 m³ each.

The contract for the turn-key production of the entire plant was awarded to the Romanian company HES from Timisoara together with Hydro-Elektrik GmbH in Ravensburg, Germany, as a sub-contractor. Here Hydro-Elektrik GmbH was responsible for the project planning of the plant and for the delivery of all hydraulic and electrical components.



Ozone drinking water compact units

IMPORTANT DATES

7-8 December 2010

Meistererfahrungsaustausch 2010
- Maritim Strandhotel Lübeck-Travemünde

6-7 April 2011

1. Süd-Ostbayerische Wassertagung
- Sparkassenarena Landshut

2-5 May 2011

Wasser Berlin Internat. Trade Fair and Congress
- Berlin fairgrounds

HydroSystemTank HST 1500

New waterworks with a water volume of 2 x 1,500,000 l are currently being constructed in Haar near Munich. The client is Gemeindewerke Haar GmbH. The waterworks construction will be completed by the end of 2010.

The waterworks include two stainless steel tanks in the material 304 (V2A) with a diameter of 15 m and height of 8.50 m each. The tanks are filled via a regulated inlet, ensuring that the line from the three higher-lying new deep wells are always kept under pressure and thus cannot run dry. The entire inlet amount is in the range of 100 to 200 l/s.

Water is pumped to the network by means of a fully automated pressure booster system with 8 pumps. The pressure booster system guarantees a constant network pressure of 6 bar with possible water transport in the range of 12 to 685 m³/h.

The unit is equipped with vertical high-pressure pumps with frequency converters mounted directly on the motors (6 pumps with 22 kW output each and 2 pumps with 11 kW output each). In addition, the turn-key construction included the complete electrotechnical equipment incl. connecting the outdoor stations via Ethernet (fibre optic cable) and programming the FlowChief process control system.

When the new waterworks are commissioned, the existing wells will be shut down. The nature reserve for those wells was eliminated due to new motorway construction.



Manufacturing of the drinking water storage tank made of stainless steel 304 in Haar near Munich

NEWS & TRENDS

Central softening, Rastatt

The Ottersdorf waterworks (in the city of Rastatt) are currently being expanded by a softening system. From a process-technical standpoint, the new fully-automated system is integrated as a bypass upstream of the existing filter system. A partial stream of the well water is softened and mixed with the non-softened water. Upstream of the reactors using lime milk, the CO₂ content is reduced through physical deacidification with percolators. Thus, the use of lime milk can be minimised. The system has a softening capacity of up to 104 l/s. The HydroGroup supplies the reactors (D = 1.60 m) made of stainless steel (Duplex 1.4162), the quartz sand supply and the pellet system, as well as the hydraulic installation. The new system should go into operation at the beginning of 2011 and from that time deliver drinking water with 10° dH.



Installation of the softening reactor

LEGAL INFORMATION



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