

HydroSystemTower®

The water tower reinvented!

Water towers are generally considered to be expensive and complex to operate - but not the HydroSystemTower®: It is the innovative further development of the HydroSystemTank® which converts it into a thermally insulated water tower.

The HydroSystemTower® is fully assembled in the factory, transported to the installation location, mounted on the base provided by the user, connected and put into operation.

The lower section of the tank contains the installation room. This is where pipeline installation, water treatment systems, pumps and pressure booster systems or switchgear assemblies can be configured. Access to the installation room is gained via a secured and thermally insulated door. A room air dehumidifier with dew point sensor is installed to prevent condensation on the inner surfaces.

The HydroSystemTower® is a flexible all-rounder.

It can be used as a water storage tank anywhere where, in addition to intermediate storage, an improvement and increase in supply pressure is required. It is also ideally suited in situations in which an existing water tower needs to be replaced and it represents a good alternative to refurbishment of existing systems.

Equipped with a **pressure booster system**, the HydroSystemTower® is used for supply of smaller localities with insufficient mains pressure. The fully automatic system with frequency-controlled pumps means that larger quantities of water can be drawn without influencing the mains pressure. As a **small-scale waterworks** the tower combines water treatment with water storage and pressure boosting. „More compact? Impossible!“ Classic multi-stage filter systems or state-of-the-art membrane systems with ceramic modules and ozone regeneration are used for water treatment. These waterworks are very suitable for smaller autonomous supplies.

In those situations in which there are pressure differences in a supply mains and a certain water reserve has to be held, the HydroSystemTower® can act as a **pressure interrupter and storage system**.

Advantages:

- Stainless steel instead of concrete or plastic
- High level of hygiene, quality and safety
- Absolutely leak-tight, full system control
- Best water mixing
- Ventilation via microfilters
- Integrated installation room
- Thermal insulation with weather proofing
- Compact, space-saving and cost-effective
- Extremely short construction site time thanks to prefabrication in the factory
- Well thought-out right down to the very last detail
- Integrated tank cleaning system
- Volumes of up to 150 m³ (single/dual-chamber)

Tank data:

- Diameter D = 4.0 m
- Height H up to 15 m
- Volume up to 150 m³ per tower
- Materials: 1.4162, 1.4462

Custom versions on request.

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P30

Small and refined

The new HYDROZON® P30 compact unit line, for chlorine-free treatment of bathing water in pools predominantly for private use, is more than just an optical relaunch of the P10 series: it is the result of a successful complete technical revision. And the result is one we can be proud of.

The new generation of units combines decades of experience with state-of-the-art technology in the best possible manner. The result is a series of fully-automatic, compact, efficient and visually attractive units that impress with their uniqueness on the market.



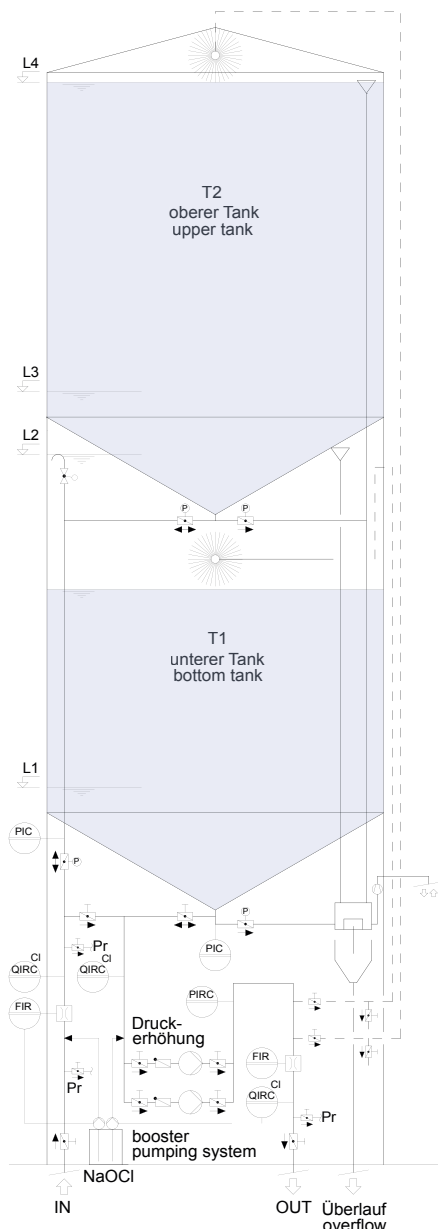
These „small and refined“ units - as we like to refer to them internally - really pack a punch.

The tried-and-tested stainless steel sand filter with integrated venturi/injector system for ozone mixing is, as ever, positioned in a compact manner in the centre of the unit. What's new is the energy-efficient circulation pump, which ensures reliable water circulation through the circuit thanks to its permanent magnet motor and electronic controller with display screen. The plate-type ozone generator - previously integrated into the water flow for the required cooling - has been replaced by an electronically controlled, air-cooled and highly efficient plasma ozone generator in the control cabinet. The control cabinet - incidentally also made completely from stainless steel - also contains a module for generating oxygen, in addition to the electronic control system. This change means that the air drying system can be omitted completely. The oxygen generator is only in operation when the ozone generator is also requested. Integrated sensors for pressure and flow monitoring, probes for water quality monitoring and room air monitoring, and an automatic changeover valve for automatic filter reverse-flushing guarantee fault-free system operation.

The operating module for touch-sensitive operation and visual process display makes operating the system child's play.

The upgradable module can be connected to the internet and the system can thus be controlled and monitored using an app.

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Schematic diagram of the HydroSystemTower®

PROJECT INFORMATION

New water treatment system for gelatine production

RWT GmbH was commissioned to supply a new water treatment system for deferrisation and demanganisation of spring water. The new treatment system replaces an old, outdated filter system.

The new, fully-automatic filter system, with its maximum treatment capacity of 85 m³/h, comprises an oxidisation stage with air oxygen and potassium permanganate metering, two multiple-layer filters, each with a diameter of 3,200 mm, including the corresponding air and water flushing equipment.

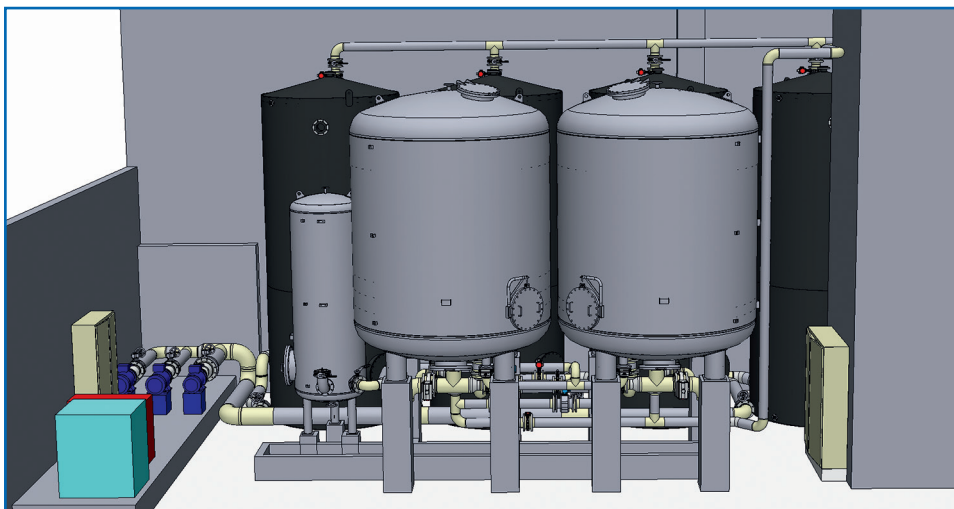
The pure water is placed in intermediate storage in four communicating pure water tanks and supplied to the factory network by a downstream pressure booster station.

As well as the complex treatment of the water, the aim was also to master the following challenge:

Within approximately 4 months after receipt of the order, the existing system has to be dismantled, working closely with the customer, the installation location has to be renovated, and the new system has to be planned, manufactured, assembled and put into operation.

The tight schedule will be reliably met thanks to time-optimised coordination with the Production department and assembly in double-shift operation.

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IMPORTANT DATES

26th January 2017

TIEFBAU-FORUM 2017,
Fair Ulm,
Conference and exhibition

28th to 31st March 2017

WASSER BERLIN INTERNATIONAL 2017,
Berlin trade fair grounds,
Trade fair

1st June 2017

„Zukunftsforum“
Fa. Gumpmayr, Steyregg/Austria
Conference and exhibition

LEGAL INFORMATION



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