



Automation of Water Treatment Systems

Our Wide Spectrum of Performance and Experience

Modern plant engineering is looking towards the future. Today, the trend extends far beyond classical processes for the treatment of water. Modern control systems meet all individual requirements with respect to operational safety and reliability, ease of use and data security.

BWT Elektrotechnik – is one of the trendsetters on the market. We offer the automation of systems for the production and distribution of ultrapure water in accordance with the latest considerations.

Everything from a single source

We meet your requirements precisely: we design everything from the control panel through the software programming to the documentation so that it all works perfectly together. In order to reduce the number of interfaces, even in large projects, we have an electrical engineer as the project manager for the entire project. Error reduction by means of GMP compliant working procedures, inspections and documentation ensure that highest quality and reliability.

Precise planning of the electrical control panel

- Modern CAE systems such as EPLAN and ELCAD serve as the basis for the design of the control systems.
- Error-free evaluations such as parts lists, terminal plans, cable lists and tables of contents are a component part of the project package.

Careful construction of the control panel

- Many years of cooperation with reliable partners guarantees trouble-free construction at a continuously high quality level.
- Detailed, documented inspections are carried out as a matter of course and simplify all subsequent steps such as assembly and commissioning.



Intelligent software

- The software is produced on the basis of a library of software modules which we have developed and validated. This library is matched to the special requirements of the various process steps and is, of course, updated continually to take advantage of the continuous progress in computer technology.
- GAMP-compliant design specifications, test descriptions and test reports permit problem-free use of our systems in the pharmaceutical industry.
- The modern visualisation is implemented with WinCC, WinCC flexible or PCS7.

AQU@VIEW Water Management – perfect management

- AQU@VIEW Water Management was developed for the safe and reliable management of ultrapure water points-of-use.
- The consumers inform the water manager of the amount of water required and, if applicable, of the desired temperature.
- The AQU@VIEW Water Management software ensures that each consumer receives water in accordance with their specified priority. This ensures optimal utilisation of the system output.
- Dangerous systems states such as underpressure are reliably avoided.

AQU@VIEW Data Logger – monitoring and evaluation

- The data-archiving software AQU@VIEW Data Logger is integrated into the user interface and replaces the paper-free recorder.
- The recorder function of AQU@VIEW Data Logger complies with 21CFR Part 11.
- Data can be exported easily in all commonly used formats.

Detailed reporting

- Detailed system logs are output as Excel worksheets, PDF files or database files.
- The perfect evaluation guarantees computer-aided maintenance of operating journals, detailed batch records and reliable remote diagnosis.

Precise documentation

- The detailed documentation of all project phases – from design and planning through qualification documentation to the operating manuals – completes the working procedures.



Intelligent Control Solutions

BWT Elektrotechnik – your partner for all control tasks

BWT Elektrotechnik in Vaihingen / Enz is the competence centre of the BWT Pharma & Biotech. We plan, build, program and document complete control systems for all types of water processing systems.

Our "in-house" services

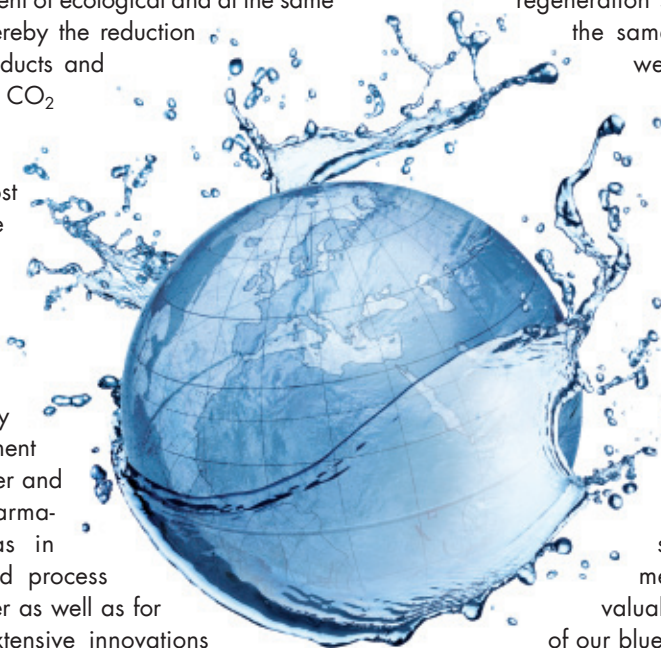
- Project coordination
- Hardware design
- Software design
- Construction of the control technology
- Network design
- Validation and certification
- Planning with CAD systems (EPLAN / ELCAD)

We employ validated software modules which are based on decades of expertise.

BWT – The Company

The Best Water Technology Group was formed in 1990 and is today Europe's leading water technology company. More than 2,800 employees in over 70 subsidiaries and associates together with thousands of service employees, plumbers, planners, architects and hygiene experts constitute the BWT water partner network. Employees in Research & Development work on new processes and materials using state-of-the-art methods to target the development of ecological and at the same time economical products. Thereby the reduction of energy consumption of products and the consequent minimisation of CO₂ emissions is a key issue.

When it comes to water, almost everywhere, whether at the entrance of the water pipe into a building – the Point of Entry - or at the tapping point – the Point of Use, the trend-setting products by BWT are in use and have proved their quality millions of times. For the treatment of drinking water, mineral water and ultrapure water for the pharmaceutical industry as well as in swimming pools, heating and process water, boiler and cooling water as well as for water for air-conditioning. Extensive innovations



guarantee our customers maximum security, hygiene and health in the daily use of water, the precious elixir of life. These innovations, among others, include SEPTRON®, the worldwide first electrode deionisation module (EDI) with spiral wrap, the MDA (manganese oxide activation) – method for effective manganese removal, the bipolar technology AQA total for chemical-free lime protection, SANISAL – the worldwide first regeneration salt for softening systems, which at the same time works as a disinfectant as well as the new, revolutionary Mg²⁺-technology for better taste of filtered water, coffee and tea. With unique high efficiency membranes for fuel cells and batteries, BWT is bringing about a cleaner and sustainable energy supply in the 21st century.

BWT – For You and Planet Blue is our mission to take ecological, economical and social responsibility, to provide our customers and partners with the best products, systems, technologies and services in all areas of water treatment and simultaneously contribute valuably to preserve the global resources of our blue planet.



For You and Planet Blue.

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