

WATER TREATMENT SOLUTIONS

Babcock Wanson offers highly effective solutions tailored to the needs of every industrial application



Babcock
Wanson

COMPLETE SOLUTION

Babcock Wanson offers a complete solution meet the needs of all industry.

A wide range of standard and tailored equipment



Water treatment chemicals specifically adapted for all applications



Bespoke services and maintenance



Digital monitoring of your facilities

Whether it is the standard range or the engineered tailored solutions, Babcock Wanson can meet your demands.

Dedicated skills:

- A design and production centre for:
 - designing;
 - implementing bespoke solutions;
 - supporting the study of new **RE-USE** solutions throughout your plant
- An extensive team of water treatment service engineers



INDUSTRIES

Energy & environment

Babcock Wanson provides all of the engineering expertise and equipment needed to obtain the steam quality or water quality required for the energy process.

- Compliance with regulatory requirements
- Sustainability of the steam generator
- Optimised energy efficiency and OPEX
- Reduced environmental impact
- Traceability, monitoring of operating parameters
- Increased availability rate



Food and beverage industry

Babcock Wanson is a long-standing partner of various food and beverage industries and is therefore aware of the obligations associated with their different processes.

- Securing the production of ingredient water and food-grade steam
- Guaranteeing and tracking the quality of the finished product in accordance with the "Food Safety Culture"
- Optimising the water cycle of a production site – Water efficiency – Water recycling
- Managing the quality of the process water



Specialised industry

Babcock Wanson offers a full range of utility water solutions (cooling water, raw water, industrial water, steam, waste, etc.) and process water (raw material water, washing water, dilution water, water electrolysis plant, hydrogen production)

- Support for improving the site's water and energy management – supply of equipment and services
- Performance optimisation
- Reduced environmental impact



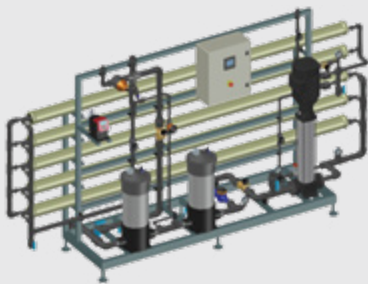
SOFTENING



- Simplex, duplex and triplex with the option to upgrade your installation to suit your needs
- High-throughput, high-capacity bespoke softener
- Can be combined with a complementary range of brine preparers
- A complete range of valves for compatibility with all industrial applications



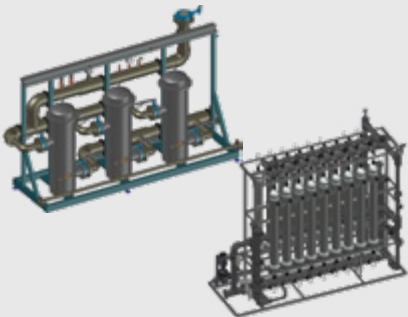
REVERSE OSMOSIS



- Single or double-osmosis range to fulfil superior water quality requirements
- Optimisation of water yield by treating discharges on a concentrator
- Bespoke installation, suitable for any type of water to be treated (salinity, suspended matter, etc.)
- Wide range of diaphragms



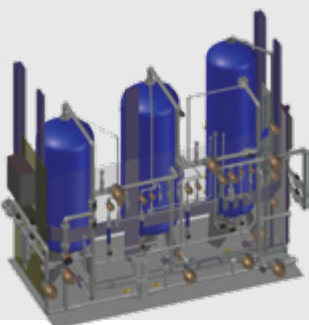
FILTRATION AND ULTRA-FILTRATION



- Several filtration media (flint, activated carbon, glass)
- Multi-valve filters for a multiplex configuration
- Adaptable formats (bags, cartridges, UF modules) and filtration thresholds as needed
- Reduction of drinking water consumption by treating surface and drill water



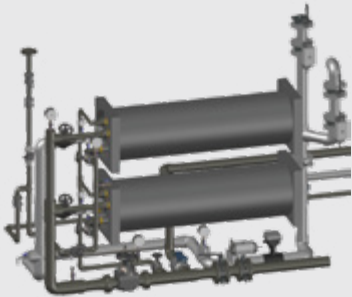
DEMINERALISATION BY RESIN EXCHANGE



- The floating bed process reduces the regeneration time and the quantity of reagents
- Complement using a treatment on a mixed bed to increase the resistivity and lower the silica content
- Process control by high-performance digital supervision
- Reduced environmental impact



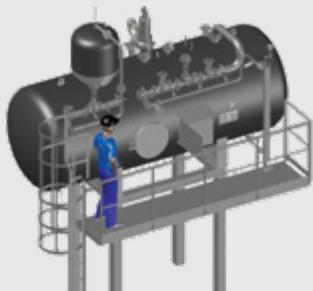
ELECTRODEIONISATION



- Continuous operation without a regeneration phase
- Technology associated with reverse osmosis to obtain water with a high resistivity and low silica content
- Compact equipment that is easy to install
- No chemical reagents or discharges to deal with



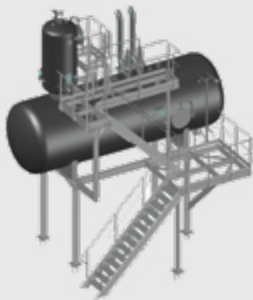
DEGASSING TANK



- Suitable for low and medium pressure steam generation applications
- Simple construction with high-performance specifications
- Commitment to the low oxygen content of treated water
- Quick return on investment
- Easy to install



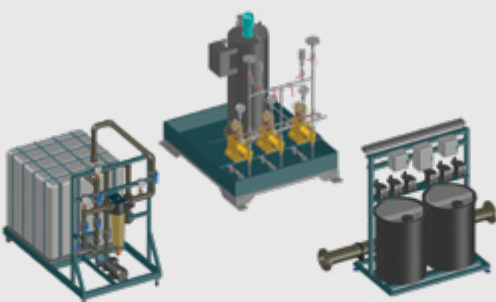
THERMAL DEGASSING



- Suitable for installations that operate with a high output and pressure
- Very low oxygen content (< 20 ppb or lower on request)
- Reduces the need for a chemical treatment process. Ensures the longevity of the equipment
- Controlled costs



METERING PUMP



- Full range of diaphragm metering pumps
- Smart pumps to meet the needs of operations with remote surveillance
- Very flexible in use
- Compatible with the entire range of Babcock Wanson conditioning products

SUITABLE SOLUTIONS FOR EVERY APPLICATION

BABCOCK WANSON offers water treatment solutions for all industrial applications, including the supply of consumables and conditioning products.

Babcock Wanson's highly qualified and professional chemists ensure the appropriate treatment and testing regime is employed to provide accurate products for your applications and minimise the environmental impact.

Babcock Wanson offers highly concentrated conditioning products to reduce the amount of packaging and waste.

Chemical conditioning applications:

- Steam boiler plant and condensate treatment
- Hot and superheated water production
- Hot water for sanitary use
- Semi-open circuits (cooling tower, evaporative condensers)
- Hot/cold closed circuits
- Frozen water
- Pasteurisation and sterilisation in food and beverage industries



Why...

- **Each product is calculated and proportioned according to the site's specific requirements.**
- **These conditioning products are both simple and ready to use, thereby reducing the risks associated with the handling of chemicals.**
- **The Babcock Wanson teams remain proactive throughout the lifetime of the facility by continuously monitoring water quality and conditioning product consumption.**
- **Chemical dosing equipment is also available to ensure accurate measurements.**

SOLUTIONS FOR EVERY INDUSTRY

Babcock Wanson assists you from the preliminary project phase to the running and replacement of existing installations and obsolete equipment.



Water treatment expertise near to our clients:

- 11 subsidiaries in 8 countries in Europe
- 9 agencies in France
- 350 technicians

NAVINERGY DIGITALISED SERVICES

This water quality monitoring software is essential for preventing boiler failures. Indeed, 60% of boiler breakdowns are due to poor water quality. With the Navinergy application (available on any mobile device), operators are able to determine if the water quality is acceptable.

If not, the corrective actions are proposed by the application. In case of a major problem, a Babcock Wanson expert can also be consulted to take proactive measures to fix the problem.



Local after-sales service

Our extensive team of service engineers are fully qualified and trained to respond to any service needs related to your equipment.



Maintenance contracts

Babcock Wanson develops a whole range of preventive, curative and predictive maintenance contracts that can be tailored to your needs.



Training

Our training sessions cover the day-to-day operations needed to ensure the long-term safety, reliability and efficiency of your equipment.



Spare parts

Our clients benefit from a stock of more than 30,000 spare parts and prompt repairs in case of any breakdown.



Rental

Babcock Wanson's rental department has the resources and logistics to respond very quickly to the demand from production sites faced with planned or unplanned equipment replacement needs.



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