COMPREHENSIVE WATER TREATMENT SOLUTIONS
The Right Solution for Decentralized Water Treatment

With the shift toward decentralized water treatment, Grundfos' extensive product portfolio empowers industrial customers to move and treat water efficiently and effectively across every type of building and industry.

In Grundfos, you gain more than a pump supplier; you gain a partner focused on solving the challenges of your operations and delivering higher efficiency and reliability than you thought possible.

Dedicated to innovation and a trendsetter in water technology, Grundfos continuously advances our products and capabilities to meet the increasing need for connectivity, accuracy, and efficiency in our ever-evolving industry.

The World’s Most Essential Resource

Grundfos is committed to making a positive contribution to the world through water technology and energy management. We take pride in constantly pushing the boundaries to offer increasingly energy-efficient and sustainable solutions.

TOTAL SYSTEM INTELLIGENCE ON DEMAND

Pumps do not exist in isolation, so the optimization of the entire pump system is the key to maximizing efficiency. Grundfos SOLUTIONS provides a holistic approach. Through intelligent technology, it adapts precisely to system demands and delivers optimal energy efficiency and reliability for every application. With Grundfos SOLUTIONS, you can be certain that you always get the optimal solution for your specific application and challenge.
Grundfos Products in Water Treatment

To ensure quality water for your process, Grundfos Water Treatment offers a strong portfolio of products and services. Let our team of water treatment professionals help you find the right component or system for your project or application.
Demanding applications require reliable solutions. Our membrane manufacturing customers turn to Grundfos to provide highly durable, easy-to-use, and efficient pumps as a key component for their water treatment systems. Our CR vertical multistage pump has set the standard for pressure boosting in membrane treatment applications.

More efficient, reliable and durable than ever before, the new range of the Grundfos CRs moves the limits for vertical inline multistage centrifugal pumps. State-of-the-art technology, simulation-driven design, and optimized pump hydraulics come together to offer unmatched efficiency and reliability with significantly higher performance.

**MEMBRANE FILTRATION**

**PRODUCT HIGHLIGHTS**

1. **CR/CRE Vertical Multistage Pumps**
   A versatile, modular, and reliable standard for membrane boosting, including options for an integrated variable frequency drive.

2. **DID Analyzer and Controller**
   Measure and control water disinfectants for membrane pre- and post-treatment.

3. **DTS Dosing Tank System**
   The Grundfos Dosing Tank Systems offer a compact, full-supply solution for CIP chemical storage and feed.

4. **SMART Digital Chemical Feed Pumps**
   With 3,000:1 turn down ratio, the SMART Digital pumps offer precise dosing for anti-scalant, CIP, and disinfection chemical feed.

5. **BM/BMS Booster Modules**
   Compact boosting solutions for membrane systems including high-flow and high-pressure applications, and pressure exchange.

6. **CIU**
   The Grundfos fieldbus concept is the ideal solution for complete control of pumps and pumping systems. CIU units have an integrated 24 to 240 VAC/VDC power supply and are prepared for wall-mounting or DIN-rail mounting.

7. **E-Box Module**
   With the E-Box module, you can increase the connectivity of the DDA pumps and integrate them into a network for remote monitoring and pump setup.
CHEMICAL DOSING & DISINFECTION

Liquid bleach (sodium hypochlorite) remains the number one water disinfectant. And for operators, the issues associated with feeding it remain a frequent frustration, including loss of prime and gas bubbles.

The Grundfos SMART Digital dosing pumps offer an industry-leading solution for reliable, accurate liquid bleach feed.

Traditional dosing pumps regulate the dosed quantity by adjusting stroke length and/or frequency. However, reducing the stroke length adversely affects dosing accuracy.

Digital Dosing™ offers a clear advantage – by using a stepper motor, the volume dosed is altered by the discharge stroke speed while continuously utilizing 100 percent of the stroke length. This results in optimum dosing accuracy and better handling of off-gassing liquids, such as liquid bleach.

**SMART Digital**

**SMART Digital XL**

**PRODUCT HIGHLIGHTS**

[1] SMART Digital DDA, DDC, DDE
The Smart Digital dosing pumps feature advanced control options and industry-leading accuracy offered by stepper motors in a user-friendly design.

An all-in-one solution to provide pressure regulation, pressure relief, and easy priming.

[3] DMH Hydraulic Pumps
For robust, demanding or high-pressure applications, these hydraulic pumps offer unique features to ensure long life and precise feed.

[4] Suction Lances
A full line of feed accessories such as drum suction lances and injection quills.

[5] Installation Kit
A full selection of chemical feed installation sets, including suction and discharge accessories.

[6] DSS Chemical Feed Systems
Pre-engineered or engineered to order systems that combine the best in Grundfos pumps with required accessories in a straightforward skidded design.

[7] Oxiperm Pro
The chlorine dioxide production system is the perfect solution for fighting Legionella and other germs in drinking water. The systems produce chlorine dioxide using diluted solutions of precursor chemicals. It is available in four sizes.
PRESSURE BOOSTING

For efficient, reliable pressure boosting, Grundfos offers fully integrated, all-in-one packaged systems designed to meet changing capacity requirements. Additionally, our high-pressure pumps ensure ultimate performance in a wide array of installations.

Behind the scenes at Sporting Park, a 342,000 square foot stadium in Kansas City, a Grundfos Hydro MPC system ensures the stadium’s plumbing is not a source of concern for fans or staff.

The system provides smooth operation, as well as energy and space savings, for all the facility’s water fixtures.

The highest flow demand occurs at intermission or halftime and requires a capacity of 1,200 gpm.

The Grundfos Hydro MPC, consisting of three vertical multistage CR pumps, handles this volume, while maintaining constant pressure. If flow demand drops to zero, the system switches off automatically. When demand is again required, the system automatically switches on and adjusts its capacity to meet the flow and pressure requirements. This feature saves both energy and maintenance costs. In addition to its energy-saving capabilities, the Grundfos Hydro MPC is virtually vibration free compared to alternatives that require on-site adjustments to minimize vibration. The system even passed the “nickel test” – a nickel placed on the edge of the pump running at full speed neither moved nor fell.

PRODUCT HIGHLIGHTS

[1] CR/CRE Pumps
A versatile, modular, and reliable standard for pressure boosting, including options for an integrated variable frequency drive.

[2] Hydro MPC
A complete, plug-and-pump pressure boosting systems that makes the most of Grundfos pumps, drives, and controls for even the most difficult boosting installations.

Real-time connection and control of pumps using a smart phone.

[4] BM/BMS Booster Modules
Compact boosting solutions for membrane systems including high-flow and high-pressure applications, and pressure exchange.

[5] CM/CME Pumps
For smaller, compact pressure boosting the CM offers the same advantages in Grundfos multistage pumps, efficiency, and technology.

[6] GES Packaged Systems
Complete, custom plug-and-pump solutions that integrate any number of Grundfos pumps, motors and controls, delivered on a skid or in an enclosure to meet the unique needs of the application.

[7] DPI Pressure Sensor
Rugged and robust line of accurate pressure and differential pressure sensors.
Grundfos is a global leader in advanced pump solutions and a trendsetter in water technology. Grundfos supplies complete pumping systems and solutions for buildings, industry and every aspect of water use. An annual production of more than 16 million pump units makes Grundfos a leading pump manufacturer, with more than 18,000 employees worldwide. Key products include circulator and centrifugal pumps for industry, water supply, sewage and dosing; as well as standard and submersible motors and state-of-the-art electronics for monitoring and controlling pumps. In the US, more than 1,200 employees staff operations, sales and service facilities in Illinois, Kansas, Pennsylvania, California, Texas, Indiana and Alabama. Grundfos provides comprehensive market coverage in North America through a number of marquee product brands, with more than 765 years of service combined.

High on the company’s corporate agenda is an active commitment to improving the environment. Grundfos contributes to global sustainability by pioneering technologies that improve quality of life for people and care for the planet. For more information, visit www.grundfos.us, or follow us on Facebook and LinkedIn.