

**xylem**  
Let's Solve Water



# Xylem Treatment Solutions

100+ YEARS OF WATER TECHNOLOGY INNOVATION

# A Complete Approach to Water and Wastewater Treatment from a Combined Portfolio of Solutions

Welcome to the forefront of water treatment innovation where Xylem and Evoqua have joined forces to bring you unparalleled solutions for a sustainable future.

As global leaders in water technology, we recognize the critical importance of clean water for communities, industries, and the environment.

Through our new combined portfolio, we offer a comprehensive suite of cutting-edge products and services designed to address the diverse needs of water treatment worldwide.

We understand that every drop counts. That's why our advanced water treatment solutions are engineered to optimize efficiency, conserve resources, and enhance water quality. Whether you're tasked with purifying drinking water, treating wastewater, or managing industrial processes, our integrated portfolio empowers you to meet regulatory standards, reduce operational costs, and minimize

environmental impact. From utilities, commercial buildings, aquatics and industrial facilities, our solutions are tailored to deliver reliable performance.

With a shared commitment to innovation and sustainability, Xylem and Evoqua are revolutionizing the way water is treated and managed. By leveraging our expertise, experience and advanced technologies, we're not just providing solutions; we're shaping the future of water treatment. Join us on this journey towards a world where clean, safe water is accessible to all, today and for generations to come.



## Our Purpose

To empower our customers and communities to build a more water-secure world.

Atg UV Systems

Davco

Envirex

ETS-UV™



IONPURE®



Magneto  
Special Anodes

Pacific Ozone



VAF®  
Filtration Systems

Wallace & Tiernan

WEDECO®

Neptune Benson

## Working With Xylem Treatment Means Working With Unrivaled Experts and Industry Trusted Brands

For more than 100 years, Xylem and Evoqua have led the way in treatment technologies, including biological and anaerobic wastewater treatment, clarification and separation, disinfection, filtration, thickening and dewatering, electrochemical and swimming pool recirculation treatment solutions. We've kept mission-critical operations running

reliably across all sectors, from municipal drinking and wastewater plants, to navy ships, refineries and more. And we're ready to use our unmatched expertise to analyze, customize, engineer, and install the optimal solution to help you get more from your water and fluid management systems using the right combination of these great brands.

WE ARE A  
Global Water Treatment  
Business

**~\$1B**  
in Revenue  
\*2022

**4,150+**  
Customers

**15+**  
Manufacturing  
locations  
worldwide

**100+**  
Years of innovation,  
leadership and  
service



We help our customers solve the world's toughest water challenges in utility, industrial, commercial, and residential markets worldwide.



**18+**  
INDUSTRIES



**50+**  
APPLICATIONS



**1,400+**  
TREATMENT  
PATENTS



**1,500+**  
TREATMENT  
EXPERTS



# Treating Water in Utility, Industrial and Municipal Applications

At Xylem, we offer a complete range of advanced wastewater and water treatment solutions for utility, industrial, municipal and recreational facilities.



## Markets & Applications

Whatever the industry, our Xylem treatment experts work in true partnership with customers, always listening, learning, and adapting to local environments to find the best solution. We pride ourselves on delivering the reliability, efficiency and safety you need while reducing operational and maintenance spend over the long term.

### Agriculture

Irrigation and agriculture solutions for your soil, crops and livestock

You can rely on Xylem's irrigation products and solutions to supply, treat and analyze water and wastewater, even under the most challenging conditions. We are flexible and constantly innovating, helping agricultural operations thrive wherever you are in the world.

- Biogas production
- Commercial lawn and turf irrigation systems
- Crop irrigation and watering systems
- Feedstock
- Livestock and poultry
- Small farm water solutions



### Aquaculture

Helping you protect against waterborne infection and disease

Our expertise and solutions help farmers improve water quality and produce healthier and larger fish, increase stock density and reduce the risk of disease. We can help you control costs while enhancing your operations through the design, manufacture, and maintenance of a wide range of systems for every aquaculture application.

- Cage farming
- Filtration and disinfection for land-based RAS
- Incoming water treatment
- Land-based flow through systems
- Ponds and net pens
- Product processing
- System sanitization
- Wastewater management/disinfection
- Well and processing boats





## Aquatics & Swimming Pools

Delivering filtration and disinfection solutions from life support to life enhancement

Xylem represents the very best in water quality for aquatic facilities, including competition and recreational pools. Our range of water filtration and disinfection solutions, alongside our aquatics accessories, are designed to exceed quality goals, reduce footprint requirements, meet sustainability objectives and, most importantly, enable a safe and enjoyable environment for all.

- Aquatic centers and swim schools
- Competition pools
- Hotels, resorts, spas and health clubs
- Waterparks and interactive water features
- Zoos and aquariums



## Commercial & Facilities

Facilitating water quality across broad commercial applications

From data centers to universities, commercial buildings and facilities serve the needs of people every day. With our heating and cooling solutions, lab water equipment and incoming water and wastewater treatment solutions, Xylem can help keep your facilities productive and safe.

- Cooling tower water treatment
- Data centers
- Higher education infrastructure

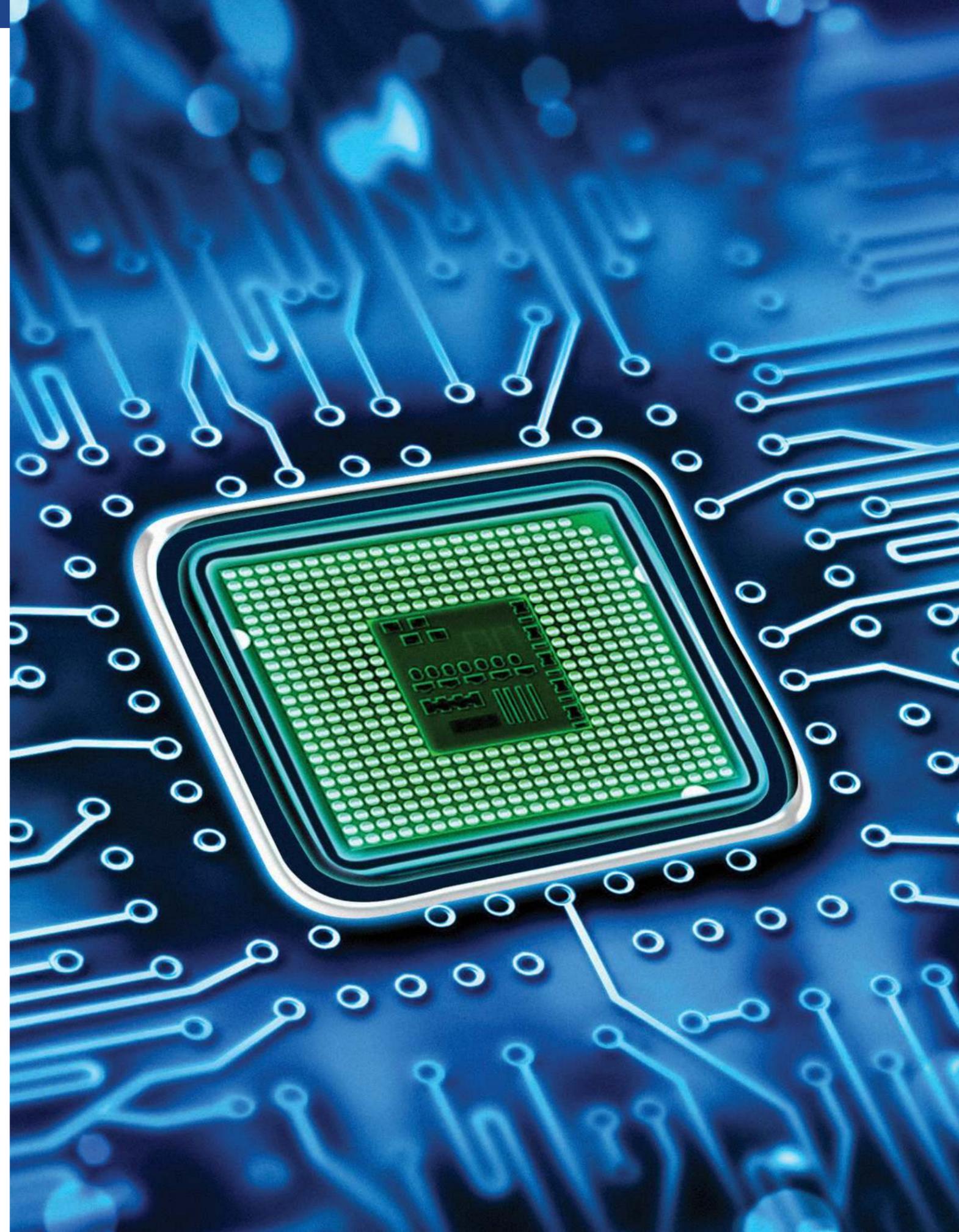


## Energy

Water solutions to power industry

Xylem provides technologies, solutions, and services for all water applications related to power generation from raw intake water to process and wastewater treatment, ash pond and evaporation pond dewatering, bacteria control and more. Whether you're in Coal & Oil, HVDC, Green Hydrogen, or Renewables, we can be your partner of choice.

- Cooling tower water treatment
- Marine growth prevention
- Process water treatment
- Removal of nitrogen oxides
- TOC removal
- Ultra high purity water





## Food & Beverage

You focus on production, we'll handle the water

Xylem's water and wastewater management and equipment solutions ensure the highest water quality while reducing energy and waste. Our services help keep food and beverage production running smoothly while reducing operating costs, enabling regulatory compliance, and increasing sustainability.

- Bottle washing, rinsing and filling
- Clean-in-place
- Cooling and heating systems (boilers, pasteurizers, etc.)
- Effluent management
- Fresh produce washing and product preservation
- Ground water intake
- Product water preparation
- Packaging sanitization
- Tank, equipment and surface sanitization
- Wastewater treatment

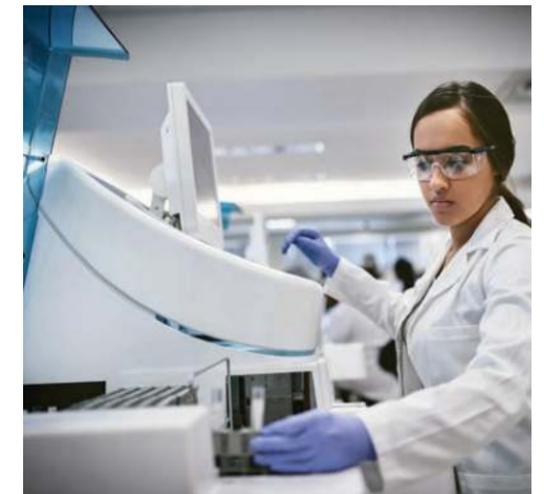


## Healthcare & Pharma

Leading water solutions for critical operations

As a global company with decades of experience in system design, development and technologies for a wide range of healthcare applications, Xylem is your single source for water purification systems. From water systems for clinical chemistry analyzers to water for sterile processing and point-of-use filtration for Legionella control (even products to treat the facility's utility water) we have the right solutions to ensure the water you use meets the strictest industry standards.

- Cosmetics and personal care
- Laboratory water purification
- Medical devices
- Purified water
- Sanitization of water systems



## Manufacturing

Custom solutions for manufacturing processes

For water intensive applications, Xylem pumps, heat exchangers, disinfection devices and monitoring and controls keep the focus on your product, not on your production process. Our solutions will meet your water and wastewater specifications and your business objectives, whether it's reducing costs, meeting regulatory requirements, or reducing maintenance frequency.

- Advanced monitoring and controls
- Chemical analysis
- Fire protection
- Process water treatment
- Pumping
- Test and measurement



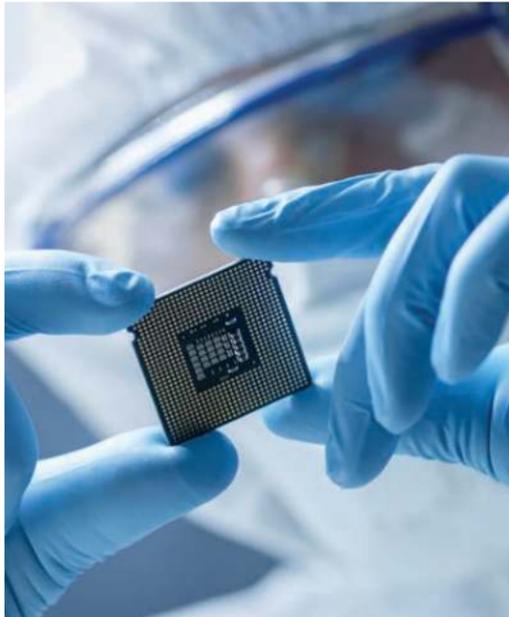


## Marine

### Keeping vessels at sea and on the move

Xylem is your partner for keeping your ship safe and operational. We provide solutions for marine growth prevention, Alaska HB80 Wastewater discharges and UV for drinking water to ensure the smooth sailing of your vessel. Whether you're looking to reduce cost by increasing both the life of your hull and fuel efficiency or achieve compliance to water requirements, trust us to have the right solution.

- Marine growth prevention
- UV disinfection for drinking & wastewater



## Microelectronics

### Leading water solutions for the rapidly changing semiconductor industry

Count on Xylem to keep pace with industry-leading innovation and performance in water solutions for chip manufacturing and supporting infrastructure. Our technology suite supports today's high volumes and shrinking geometries with point-of-use solutions, and can help you meet your sustainability goals with water reuse solutions. We are also at the forefront of digital water management, ensuring your water treatment system is fully optimized to drive operational efficiency and service.

- Cooling tower water
- High-performance materials
- High-purity process water
- Industrial water recycle and reuse
- Integrated device manufacturing
- Nanotechnology centers
- Silicon and polysilicon
- Solar cell/photovoltaic manufacturing



## Municipal Drinking Water

### Over 100 years of supporting safe drinking water

Xylem has the water treatment solutions and expertise to ensure your success at every stage of the drinking water cycle. Our validated solutions can help you increase efficiency, enhance your water purification, water quality and water availability.

- Disinfection byproduct control
- Disinfection for distribution process
- Sedimentation
- Utility water purification solutions
- Water disinfection
- Water intake and monitoring
- Water transfers and distribution

## Municipal Wastewater

### Achieve regulatory compliance, reduce cost and increase water reuse

Whether your system supports up to 100,000 or 10 million residents, with Xylem as your partner we can provide a complete package of sustainable wastewater options—from design and installation to engineering, training, and service. The result is a solution that guarantees water quality and value.

- Biological wastewater treatment
- Clarification and thickening
- Desalination and water treatment
- Disinfection
- Micropollutant taste and odor control and removal
- Odor and corrosion control
- Stormwater pump stations and flooding relief
- Wastewater collection
- Wastewater recycling and reuse



## Pulp & Paper

### Water and wastewater treatment solutions for processing mills

Xylem's expertise in filtering, ozone dissolution, and water reuse help mills lower costs and reduce their reliance on potentially over-stressed sources of water. Our experienced team of water experts and our diverse range of customizable solutions will keep your mill compliant, while helping you manage costs and meet your sustainability goals.

- Disinfection
- Filtration
- Ozone for pulp and paper bleaching
- Pumping
- Pipeline integrity management
- Testing and monitoring
- Wastewater treatment
- Water supply



## Refining & Chemicals

### Permanent and mobile water and wastewater solutions for hydrocarbon and chemical processing

With one of the nation's largest and most diverse mobile fleets, we provide water-related solutions at chemical plants and refineries. From temporary projects or permanent solutions to turnarounds and shutdowns, we have the very best solutions for your water treatment.

- Boiler feedwater treatment
- Chemical processing
- Hydrocarbon processing
- Industrial wastewater treatment
- Industrial water recycle and reuse
- Selenium removal, and more





SOURCE WATER • PROCESS WATER • WASTEWATER

# Treatment Solutions for Your Market

## AEROBIC/BIOLOGICAL WASTEWATER TREATMENT

Treatment systems for both municipal and industrial facilities looking to treat raw wastewater and/or polish anaerobically pretreated wastewater.

## ANAEROBIC WASTEWATER TREATMENT

Energy efficient solutions for treating wastewater prior to discharge or further polishing.

## CLARIFICATION

Remove suspended solids from wastewater and provide a clarified liquid effluent for downstream treatment processes.

## DISINFECTION & OXIDATION

Keep water clean and free of dangerous pathogens for municipal, industrial, and recreational water applications.

## ELECTROCHEMICAL

Chemical free, self-cleaning or self-regenerating technologies and systems for high purity water or biocide production

## FILTRATION

Remove suspended solids, oils and other contaminants from water.

## THICKENING & DEWATERING

Comprehensive solutions for thickening and dewatering in water treatment processes.

## SWIMMING POOL ACCESSORIES

Recirculation components and solutions that enhance the aesthetics, safety and efficiency of aquatics venues.

	Aerobic/Biological Wastewater	Anaerobic Digestion	Clarification	Disinfection & Oxidation	Electrochemical	Filtration	Thickening & Dewatering	Swimming Pool Accessories
JUMP TO SECTION	➔	➔	➔	➔	➔	➔	➔	➔
Agriculture		⌵		⌵		⌵	⌵	
Aquaculture				⌵		⌵		
Aquatics & Swimming Pools				⌵	⌵	⌵		⌵
Commercial & Facilities				⌵		⌵		
Energy				⌵	⌵	⌵	⌵	
Food & Beverage	⌵	⌵		⌵		⌵	⌵	
Healthcare & Pharma				⌵	⌵	⌵		
Manufacturing				⌵		⌵	⌵	
Marine				⌵	⌵			
Microelectronics				⌵	⌵	⌵		
Municipal Drinking Water			⌵	⌵	⌵	⌵	⌵	
Municipal Wastewater	⌵	⌵	⌵	⌵	⌵	⌵	⌵	
Pulp & Paper	⌵		⌵	⌵			⌵	
Refining & Chemicals	⌵		⌵	⌵		⌵	⌵	



# Aerobic/Biological Wastewater

## TREATMENT SOLUTIONS

### MARKETS SERVED

- Municipal Wastewater

### BRANDS & TRADEMARKS

- Aqua-Lator®
- CASPERON™
- Davco™
- Envirex®
- Flygt
- Omniflo®
- Omnipac®
- Orbal®
- Sanitaire®
- Taron™
- VARI-CANT®
- VertiCel®
- VLR®

Xylem provides biological wastewater treatment solutions such as diffused aeration, oxidation ditches, sequencing batch reactors (SBR), and state-of-the-art controls that drive efficient operations. Our advanced process performance optimizer provides real-time wastewater process measurement and control to enhance operations, reduce energy consumption, whilst stabilizing the treatment process and maintaining effluent quality.

Xylem also has a range of aerobic treatment systems for both municipal and industrial facilities looking to treat raw wastewater and/or polish anaerobically pretreated wastewater. Ultimately, further reducing biochemical oxygen demand (BOD), total suspended solids (TSS), nitrogen, and phosphorus. Aerobic treatment systems can also be used specifically to remove nitrogen and phosphorus in the process known as biological nutrient removal (BNR).

Our comprehensive wastewater portfolio includes advanced treatment solutions targeting process identification and the growing retrofit market.

### AERATION, MIXING & BLOWERS

Achieve OPEX savings with our broad range of aeration, mixing and blower technologies designed to provide superior oxygen transfer efficiency and energy savings in municipal and industrial wastewater treatment applications. Xylem's Flygt® mixer portfolio includes submersible and adaptive to match mixing output based on exact process needs. Our proven Sanitaire® diffused aeration devices can be installed in any tank geometry or treatment process application to meet plant and operating requirements. We also understand the parameters that influence blower selection and can help you choose the right blower to meet maximum oxygen demands and required turndown ratios. Xylem through its Flygt® and Sanitaire® brands have been an industry leader for more than 60 years in developing innovative mixers and aeration equipment with installations worldwide.



### SEQUENCING BATCH REACTORS

Achieve superior performance under demanding conditions with our wide array of sequencing batch reactor (SBR) systems and solutions. Our OMNIFLO® SBR MAX with Jet Tech technology is a true-batch SBR process designed to handle greater peak flows or storm water overflow (CSO) events while providing superior effluent quality at a lower cost. Our VARI-CANT® Jet Aeration systems provide maintenance-free high efficiency oxygen transfer. And, you can achieve simplified operations and reliable results with our Sanitaire ICEAS Advanced SBR.



### OXIDATION DITCH TECHNOLOGIES

Oxidation ditch technology stands at the forefront of wastewater treatment, offering efficient and sustainable solutions for municipalities and industries alike. At its core, an oxidation ditch is a biological treatment process designed to remove contaminants from wastewater through a combination of biological activity and mechanical aeration. Innovative, reliable, and environmentally conscious, oxidation ditch with SND technology represents a paradigm shift in wastewater treatment. From improving water quality to promoting sustainability, these systems empower communities and industries to safeguard precious resources for generations to come.



### FIELD ERECTED TREATMENT PLANTS

Implement turnkey wastewater treatment solutions in months instead of years with our DAVCO™ Field-Erected Wastewater Treatment Plant and achieve fast, durable, advanced wastewater treatment such as our OMNIPAC® SBR Field-Erected Treatment System.



### CONVENTIONAL TREATMENT SYSTEMS

The CASPERON™ solution can be adapted to meet your needs for any of the following activated sludge processes: continuous aeration (NIT), Modified Ludzack Ettinger (MLE), anaerobic anoxic oxic (A2O), Bardenpho (4 or 5 stage), and simultaneous nitrification and denitrification (SNDN).





## PROCESS PERFORMANCE OPTIMIZERS

Providing real-time control for biological treatment processes, the OSCAR® control system is a customizable, integrated system comprised of hardware, software, and services. Designed to be used with Sanitaire® biological treatment solutions, OSCAR control systems help plants meet their performance requirements and operating budgets. Leveraging Xylem's extensive product, controls, and biological process expertise, the OSCAR control system was developed to provide a comprehensive solution for a plant's needs. Unlike other control systems, Sanitaire brand systems combined with OSCAR controls are based on years of feedback from wastewater plants, allowing for customization and easy expansion as future requirements change.



## ACTIVATED SLUDGE FILTERS

The Taron™ activated sludge filter is designed to increase treatment capacity and meet more stringent discharge limits in wastewater treatment plants. The Taron™ activated sludge filter is the only technology of its kind able to reduce treatment process complexity and footprint, by replacing traditional secondary clarification and tertiary filtration, while producing a similar effluent quality. The Taron™ activated sludge filter can also be operated in parallel to secondary clarifiers to achieve higher quality effluent and expand biological treatment capacity in aging wastewater treatment plants, relieving the hydraulic and suspended solids load on secondary clarification.



## ROTATING BIOLOGICAL CONTACTORS

Rotating biological contactors are an efficient fixed-film wastewater technology well suited for secondary and/or advanced biological treatment. The long-term reliability of this process is evident in the thousands of units in operation for more than 40 years with Evoqua as the original equipment manufacturer (OEM). To maintain these units and extend their useful life, Xylem provides OEM parts for Envirex®, Lyco, and Autrotrol brands along with process expertise and complete turnkey replacement solutions.



## AEROBIC DIGESTER CONTROLS

Vorelodos aerobic digester combines equipment, controls, and service, to offer a solution that ensures wastewater treatment plants meet regulations while reducing operational costs. Rethink your biosolids management strategy and meet regulations while saving money.

REGIONAL AVAILABILITY OF TECHNOLOGIES	NA	SA	EU	ME	AF	AS	ANZ
Aeration & Mixing	•	•	•	•	•	•	•
Blowers			•	•	•	•	•
Sequencing Batch Reactors	•	•	•	•	•	•	•
Oxidation Ditch Technologies	•		•	•			
Field Erected Treatment Plants	•						
Conventional Treatment Systems	•		•				
Process Performance Optimizers	•		•				
Activated Sludge Filters	•		•				
Rotating Biological Contactors	•						
Aerobic Digester Controls	•						

NA = North America  
SA = South America

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# Anaerobic Digestion

TREATMENT SOLUTIONS

## MARKETS SERVED

- Municipal Wastewater

## BRANDS & TRADEMARKS

- Dystor®
- Envirex®
- Ostara Pearl®

Xylem's wide array of anaerobic systems can be used for pretreatment prior to discharging to a municipal wastewater treatment plant or before polishing in an aerobic process.

Our solutions for biogas storage, mixing and heat/heater exchangers can reduce energy consumption and operational costs. Our full range of anaerobic digestion equipment supports a complete efficient, fully functional system for biosolids reduction and biogas generation in both municipal and industrial applications. Developed over the past 100+ years, these products have evolved to offer higher efficiencies and economical costing, while retaining the robust design hailed by legacy brand customers for longevity and operational performance.

## NUTRIENT RECOVERY SOLUTIONS

A nutrient recovery solution to help transform wastewater treatment plants into true resource recovery facilities. A fluidized bed reactor that harvests nutrients from wastewater and transforms them into an eco-friendly fertilizer. This cost-effective nutrient recovery solution converts wastewater treatment plants into true resource recovery facilities, helping create a circular economy.



## DIGESTER COVER SYSTEMS

The Dystor® Gas Storage system from Evoqua is a unique gas holder design that is more economical to install than steel gas holders and more versatile and more stable than floating covers. Ideal for both primary and secondary digesters, its dome-shaped, engineered membrane system maximizes storage of methane gas and sludge, while also containing odors. Plus, a manufacturer installed system means single-source responsibility. Ideal for retrofitting your existing plant, the operating pressure can be set to fit into the existing equipment, eliminating the need for re-ballasting the rest of the digestion system.



## HEATER/HEAT EXCHANGERS

Sludge heaters and biogas boilers for safe, reliable, and long-lasting performance. Envirex® combination heaters/heat exchangers and stand-alone biogas boilers are integrally designed to ensure safe and reliable operation for durable, long-lasting performance. Unlike conventional commercial and industrial boilers, the Envirex boiler is designed specifically for burning dirty biogas. These are the next generation of the well-known PFT®/and Envirex sludge heating products, for which Evoqua is the OEM.



REGIONAL AVAILABILITY OF TECHNOLOGIES	NA	SA	EU	ME	AF	AS	ANZ
Nutrient Recovery Solutions	•		•				
Digester Cover Systems	•						
Heater/Heat Exchangers	•						

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# Clarification

TREATMENT SOLUTIONS

## MARKETS SERVED

- Municipal Drinking Water
- Municipal Wastewater

## BRANDS & TRADEMARKS

- BioMag®
- Captivator®
- CoMag®
- Davco™
- Envirex®
- Rim-Flo®
- Texler®
- Tow-Bro®

Simple design and reliable operation for solids separation from influent water. Our portfolio includes circular clarifiers, chain and scraper clarifiers, from ballasted clarification to primary clarification, secondary clarification and separation.

## BALLASTED CLARIFICATION

Xylem offers the fastest and most reliable settling floc systems available. BioMag® and CoMag® systems use ballast to dramatically increase biological treatment capacity in wastewater intensification applications. By adding ballast to wastewater, the systems help meet enhanced nutrient removal limits and produce effluent quality far superior to conventional alternatives, and at lower life-cycle costs. Ballasted clarification uses magnetite—fully inert iron ore particles—to ballast/intensify biological floc or conventional chemical floc, enhancing settling rates and increasing the performance of wastewater and water treatment facilities, while substantially reducing costs to upgrade process performance.



## FLOATING SLUDGE COLLECTORS

The Leopold Clari-Vac floating sludge collector removes material faster, up to 12 fpm, while producing a higher solids content, lowering sludge disposal costs, drastically reducing power costs and virtually eliminating maintenance. The Clari-Vac sludge collector has proven to be highly energy efficient, using up to 80% less power than other systems.



## PRIMARY CLARIFICATION

Clarification and separation technologies remove suspended solids from wastewater, providing clarified liquid effluent for downstream treatment processes. Primary clarification removes solids prior to biological treatment. Products include Envirex® Chain & Scrapers, Conventional Scrapers, Captivator® Biologically Enhanced Primary Treatment System, and the Texler Lamella Clarifier.



## SECONDARY CLARIFICATION

Xylem offers a range of technologies for secondary treatment including Tow-Bro® Hydraulic Sludge Removal Systems, Rim-Flo® Circular Clarifiers and FEDWA Energy Dissipating Inlet. Secondary clarification follows the biological treatment process with the main goal of rapidly returning activated sludge.



REGIONAL AVAILABILITY OF TECHNOLOGIES	NA	SA	EU	ME	AF	AS	ANZ
Ballasted Clarification	•		•				
Floating Sludge Collectors	•						
Primary Clarification	•						
Secondary Clarification	•						

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# Disinfection & Oxidation

## TREATMENT SOLUTIONS

### MARKETS SERVED

- Aquaculture
- Aquatics & Swimming Pools
- Commercial
- Food & Beverage
- Healthcare
- Irrigation
- Laboratory
- Lithium Production
- Manufacturing
- Marine
- Microelectronics
- Mining
- Municipal Wastewater
- Municipal Drinking Water
- Oil & Gas
- Pharmaceutical
- Power
- Pulp & Paper
- Refining & Chemicals
- Renewable Energy

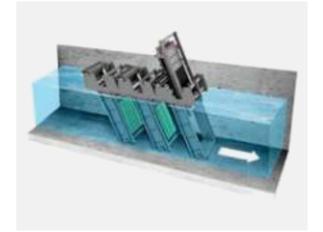
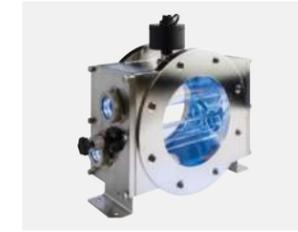
### BRANDS & TRADEMARKS

- ATG™ UV
- ETS-UV™
- Labostar®
- Pacific Ozone®
- Protegra®
- Ultraclear®
- Wallace & Tiernan®
- WEDECO

Xylem disinfection and oxidation solutions cover the whole range of technologies to ensure safe water consumption and sanitation. Using UV, ozone, on-site hypochlorite generation, chlorine gas or chlorine dioxide, we have the right disinfection solution for your processes. The broad range of our products are tailored to meet your application specific requirements to ensure a reliable and efficient disinfection performance across municipalities and industries.

### UV SYSTEMS

Our ATG™ UV, ETS-UV® and WEDECO UV systems employ ultraviolet light to inactivate pathogens, offering a chemical-free method of water disinfection for maintaining public health standards. Xylem offers both open channel and closed reactor solutions for drinking water, wastewater, industrial water treatment, and aquatics and pools. Additionally, UV systems can be used for ozone or chlorine destruction, TOC reduction and AOP processes to ensure high quality water across various industries and applications.



### OZONE SYSTEMS

For more than 130 years, ozone technology has provided residual free oxidation and sanitization offering safe on-site on demand generation without the need to handle, store or dispose of chemicals. Our Pacific Ozone® and WEDECO systems efficiently oxidize contaminants, eliminating odor and color without generating chlorinated by-products, ensuring clean water.



### GAS FEED SYSTEMS

Gas feed systems accurately deliver gases like chlorine for disinfection, ensuring controlled dosing for effective water treatment. They are vacuum operated for safe, reliable dosing and control of chlorine gas. Wallace & Tiernan® systems have been synonymous with the chlorine market since the first chlorinator was installed over 100 years ago.



### CHLORINE DIOXIDE

A safe and efficient way to disinfect onsite and provide effective inactivation against legionella, giardia and cryptosporidium. Chlorine dioxide also offers advantages such as minimal taste and odor and low relative reactivity with organic matter.



### ON-SITE HYPOCHLORITE GENERATION SYSTEMS

OSEC® systems provide a safe and cost-effective alternative to traditional chlorine delivery methods. Our systems produce a low strength disinfectant on demand. These systems utilize only water, salt, and an electric current to produce a safe continuous supply of sodium hypochlorite.





### LAB SYSTEMS

Where water is needed to meet or surpass ASTM standards, Xylem's lab range of purifiers is utilized to meet individual water quality requirements. From primary grade, for simple washing and rinsing, to ultrapure for the most critical science and analytical applications, even when working with nucleic acids in critical life sciences applications, our LaboStar®, Ultraclear®, and Protegra® ranges have the solution.



### PROCESS ANALYZERS & CONTROLLERS

Our Wallace & Tiernan® analyzers and controllers monitor water quality parameters, facilitating precise adjustments for optimal treatment efficiency and safety. Systems are available in single and multiparameter units for compliance and assurance with health, safety and regulatory standards. Parameters include ammonia, chlorine dioxide, chlorine gas, conductivity, fluoride, free chlorine, total chlorine, ozone, pH, temperature, redox and sulfur dioxide.

REGIONAL AVAILABILITY OF TECHNOLOGIES	NA	SA	EU	ME	AF	AS	ANZ
UV Systems	•	•	•	•	•	•	•
Ozone Systems	•	•	•	•	•	•	•
Gas Feed Systems	•	•	•	•	•	•	•
Chlorine Dioxide			•	•	•	•	•
On-Site Hypochlorite Generation Systems	•	•	•	•	•	•	•
Lab Systems		•	•	•	•	•	•
Process Analyzers & Controllers	•	•	•	•	•	•	•

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# Electrochemical

TREATMENT SOLUTIONS

## MARKETS SERVED

- Aquatics & Swimming Pools
- Green Hydrogen
- Healthcare
- Laboratory
- Marine
- Microelectronics
- Municipal
- Oil & Gas
- Pharmaceutical
- Power

## BRANDS & TRADEMARKS

- Chloropac®
- IonPure®
- Magneto®
- Wallace & Tiernan®

Electrochemical systems are highly efficient, providing continuous operation and production. Our systems are designed for maximum reliability and superior performance for high purity CEDI applications within power, HPI/CPI, general electronics, food and beverage and laboratory applications. The biocide production has been specifically designed for marine growth prevention within marine, oil and gas, and power markets.

## CONTINUOUS ELECTRODEIONIZATION

Chemical free, self-regenerating technology provides a consistent flow of high-quality deionized water. CEDI is a water treatment process that uses a combination of ion-exchange resins, ion-exchange membranes, and direct current to continuously deionize water without the need for chemicals. IonPure® systems are ideal for high purity applications in markets including green hydrogen, microelectronics, power and pharmaceutical.



## ANODES

Magneto® Special Anodes designs, supplies and produces high quality titanium based anodes with active precious metal coatings. Anodes are in operation in a wide range of applications in the electrochemical industry, across a number of markets worldwide including microelectronics, green hydrogen generation and metal plating.



## ON-SITE HYPOCHLORITE GENERATION SYSTEMS

OSEC® systems provide a safe and cost-effective alternative to traditional chlorine delivery methods. Our systems produce a low strength disinfectant on demand. Utilizing only water, salt and an electric current to produce a safe continuous supply of sodium hypochlorite.



## SEAWATER ELECTROCHLORINATION

Chloropac® systems provide a continuous output of hypochlorite from a seawater feed. The avoidance of chemicals eliminates the need to handle, store and transport liquid hypochlorite, increasing safety and reducing operating costs. More than 40 years of proven application utilizing in-situ self-cleaning Chloropac cells.





### GAS FEED SYSTEMS

Gas feed systems accurately deliver gases like chlorine for disinfection, ensuring controlled dosing for effective water treatment. They are vacuum operated for safe, reliable dosing and control of chlorine gas. Wallace & Tiernan® systems have been synonymous with the chlorine market since the first chlorinator was installed over 100 years ago.



### CHLORINE DIOXIDE

A safe and efficient way to disinfect onsite and provide effective inactivation against legionella, giardia and cryptosporidium. Chlorine dioxide also offers advantages such as minimal taste and odor and low relative reactivity with organic matter.

REGIONAL AVAILABILITY OF TECHNOLOGIES	NA	SA	EU	ME	AF	AS	ANZ
Seawater Electrochlorination	•	•	•	•	•	•	•
Continuous Electrodeionization	•	•	•	•	•	•	•
Anodes	•	•	•	•	•	•	•
On-Site Hypochlorite Generation Systems	•	•	•	•	•	•	•
Gas Feed Systems	•	•	•	•	•	•	•
Chlorine Dioxide			•	•	•	•	•

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SA = South America

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# Filtration

TREATMENT SOLUTIONS

## MARKETS SERVED

- Aquatics & Swimming Pools
- Commercial & Facilities
- Food & Beverage
- Healthcare
- Metals & Mining
- Microelectronics
- Municipal Drinking Water
- Municipal Wastewater
- Power

## BRANDS & TRADEMARKS

- Vortisand®
- Defender®
- Forty-X®
- VAF®
- Leopold
- Oxelia®
- FilterWorx®
- Neptune Benson®

Xylem provides cutting-edge filtration solutions for water treatment, ensuring the removal of contaminants to meet stringent quality standards. Employing advanced products such as screen filters, sand filters and regenerative media filters, as well as multimedia filters and microfilters, Xylem systems are capable of removing particles, pathogens, and other impurities from diverse water sources. Xylem filtration systems provide reliable performance, improved water clarity and higher purity for applications ranging from municipal drinking water, to swimming pools, agriculture, and industrial processes. Whatever the application, we can help you develop the energy-efficient, high-performance system you need with the longest possible filtration cycles to meet permit requirements at the lowest possible costs.

## UNDERDRAINS FOR GRAVITY MEDIA FILTRATION

In a gravity media filtration system, underdrains collect filtered water during the filter run and distribute air and water during the backwash cycle. Providing cleaner filter media means longer filter runs and higher water efficiency, more product water and less waste. This lowers operating costs per gallon/liter of filtered water. (Type S, Type SL and Type XA)



## TERTIARY DENITRIFICATION SYSTEMS

Leopold elimi-NITE® 2.0 denitrification system is an effective method of reducing nitrate nitrogen in the effluent stream of a wastewater treatment plant by converting nitrate nitrogen to nitrogen gas. The biological conversion is done in an attached growth, downflow, deep bed, mono-media filter. Dissolved oxygen is removed to create an anoxic environment for denitrification, and particulate matter is removed so insoluble phosphorous is removed, as well. The system adds supplemental carbon source or microbiological food needed to metabolize the nitrogen.



## TRAVELING WATER SCREENS

Intake screen systems include a combination of traveling water screens, stationary water screens, grab rakes, and bar racks that are used to filter debris and aquatic life in varying sizes. Intake products are primarily utilized at fossil-fuel power plants, nuclear power plants, drinking water facilities, refineries and other heavy industrial sites where large volumes of raw water are consumed.



## OXIDATION-ENHANCED BIOLOGICALLY ACTIVE FILTER SYSTEMS

A multi-barrier solution for drinking water treatment to disinfect and destroy organic contaminants of emerging concern, taste and odor precursors, and pathogens. The innovative Oxelia® oxidation-enhanced biologically active filter system maximizes water production, minimizes backwash production, and eliminates disinfection byproducts.



REGIONAL AVAILABILITY OF TECHNOLOGIES	NA	SA	EU	ME	AF	AS	ANZ
Underdrains for Gravity Media Filtration	•	•	•	•	•	•	•
Tertiary Denitrification Systems	•		•			•	
Traveling Water Screens	•	•	•	•	•	•	•
Oxidation-Enhanced Biologically Active Filter Systems	•						
Regenerative Media Filters	•	•	•	•	•	•	•
Disc Filters	•						
Sand Filters	•						
Screen Filters	•	•	•	•	•	•	•
Performance Filter Systems	•	•	•	•	•	•	•

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### REGENERATIVE MEDIA FILTERS

Regenerative media filters deliver superior water quality along with significant operational savings. Defender® Regenerative Media Filters maximize performance, efficiency and user friendliness while helping to reduce environmental footprint. In aquatics applications, the Defender filter is capable of high levels of particulate removal in the critical 1 to 10 micron range, while providing significant savings in backwash water, space, energy consumption and use of disinfection chemicals.



### DISC FILTERS

Disc filters are high rate inside-out filtration systems where dirty water flows into a central drum, then out through discs. They are comprised of woven filter fabrics that remove solids from the influent stream. Our suite of disc filters offers a flagship design, engineered for longevity, reduced maintenance and low cost of ownership.



### SAND FILTERS

Xylem offers a full range of NSF-50 certified horizontal and vertical sand filters constructed from fiberglass, lined carbon steel, and stainless steel suitable for water treatment in pools, water slides, splash pads, fountains and life support applications. These sand filters remove debris and other particles while reducing the need for chemicals. We also offer Vortisand® high efficiency, high capacity media filters that combine cross-flow dynamics with microsand media to achieve submicron filtration performance. This technology allows the unit to operate at filtration rates of up to 5 times greater than those of traditional media filters, while filtering 10 to 50 times finer.



### SCREEN FILTERS

VAF® automatic self-cleaning screen filters for removal of suspended solids from 10 to 1500 micron for any flow rate 30gpm+. Saving over 99% of process water with hydraulically driven cleaning cycles that last less than 15 seconds. Providing cost-effective and space-saving solutions for cleaner system water and reduced maintenance.



### PERFORMANCE FILTER SYSTEMS

Gravity media filtration systems suitable for a range of applications including potable drinking water, tertiary wastewater treatment, nutrient removal and water reuse. Including the leading FilterWorx® Performance Filter System.





# Thickening & Dewatering

TREATMENT SOLUTIONS

## MARKETS SERVED

- Agriculture
- Food & Beverage
- Industrial
- Metals & Mining
- Municipal Wastewater
- Power
- Pulp & Paper
- Refining & Chemicals

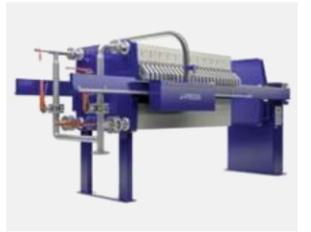
## BRANDS & TRADEMARKS

- J-Press®
- Envirex®

Xylem treatment offers comprehensive solutions for thickening and dewatering in water treatment processes. Through innovative technologies like centrifuges, belt presses, and gravity thickeners, Xylem effectively separates solids from liquids, optimizing the treatment of wastewater and sludge. These systems efficiently concentrate slurry and sludge, reducing volume and disposal costs while facilitating the extraction of valuable resources.

## FILTER PRESS

Xylem offers both filter and rotary presses to separate suspended solids from liquids. Filter Presses pump sludge through a series of connected filter plates covered by a cloth filter media, producing the driest cake possible with the cleanest filtrate compared to other dewatering equipment.



## ROTARY PRESS

Xylem offers both filter and rotary presses to separate suspended solids from liquids. The Rotary Press is a simple, plug and play dewatering system that filters suspended solids through a rotating screen, offering dry cake and using only about 5% of the backwash water used by belt presses.



## SLUDGE THICKENERS

Envirex® Gravity Thickeners thicken sludge from primary and secondary clarifiers through gravity settling, providing a clarified liquid overflow. Two basic designs are available—full bridge and half bridge clarifiers—both incorporating a minimum of two sludge scraper arms per mechanism. The sludge removal mechanisms are designed for high load and continuous operation over the life of the clarifier.



REGIONAL AVAILABILITY OF TECHNOLOGIES	NA	SA	EU	ME	AF	AS	ANZ
Filter Presses	•	•	•	•	•	•	•
Rotary Presses	•	•	•	•	•	•	•
Sludge Thickeners	•	•	•	•	•	•	•

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# Swimming Pool Accessories

TREATMENT SOLUTIONS

## MARKETS SERVED

- Aquatics & Swimming Pools

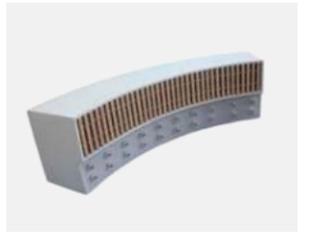
## BRANDS & TRADEMARKS

- Chem-Clean®
- Dominion®
- Guardian™
- Lawson Aquatics®
- Neptune Benson
- ProStrainer®

Xylem represents the very best in water quality solutions for aquatic facilities, from competition pools to recreational facilities. In addition to our range of water filtration and disinfection solutions, we offer a wide variety of aquatic accessories and recirculation components that provide solutions to enhance the aesthetics, safety, and efficiency of aquatic venues, as well as improve water quality and reduce operational costs.

## LAWSON AQUATICS® ACCESSORIES

Aquatic accessories to improve water quality, ensure bather safety and enhance your projects. For years, Lawson Aquatics® has been developing and improving grating technologies, these efforts have resulted in product advancements that make for more efficient pools and improved aesthetics that are second to none. Additional accessories include edge treatment, drains, sumps, gutters, and custom wall weirs.



## FILTER CLEANERS

Chem-Clean® Express filter cleaner is a fast-acting, non-toxic, environmentally safe cleaning agent approved for use on all sand and Defender® filters. This is a high performance cleaner that removes residue that other cleaners leave behind.



## STRAINERS

Available in fiberglass and stainless steel configurations, our strainers improve water quality and extend equipment life by straining particles and debris from your water. They are the first line of defense, preventing hair, lint, and other debris from entering your filtration and circulation equipment.



## REDUCERS

Xylem's wide range of fiberglass and stainless steel reducers offer designers the ability to size piping and equipment to optimize filtration performance. Our innovative fiberglass reducers utilize heavy duty construction to ensure a durable, long lasting product. Their unique fiberglass design features a filament wound and a vinyl ester resin body with solid fiberglass flanges which safeguards them from potential corrosives within a harsh mechanical room environment.



## SURGE TANK COMPONENTS

Xylem offers a range of components for surge tanks including access ladders, anti-vortex plate assembly, water level controllers, liquid level gauges, diversion valves and modulating valves.





### CO<sub>2</sub> FEEDERS

Trident CO<sub>2</sub> Injection Systems for pool applications save time and money, and is safe for operators and bathers. The system utilizes a high-quality diffuser that injects small CO<sub>2</sub> bubbles into the system ensuring efficiency and cost-effective operation. The system consists of one single tank pressure regulator kit for tank mounting, and one CO<sub>2</sub> feed/ flow system.



### VALVES

From valve extensions to diversion valves and check valves, our wide array of products are simple to operate, easy to install, come in various sizes, and will help ensure reliable flow control.

Ensure reliable flow control for fountains and water features with Dominion® valves. Neptune Benson carries a variety of high quality butterfly valves in lever, pneumatic, gear operated and electric configurations. Our valves ensure reliable flow control and are available in sizes ranging from 2" to 12" with custom sizes available.



### PUMPS & VFDS

Xylem offers a range of pumps and energy-saving variable frequency drives that cover a wide range of flowrates and electrical configurations. The extensive Neptune Benson range includes the Griswold and Normblock Multi Series pumps. We also offer adjustable pump bases and variable frequency drives (VFDs).

REGIONAL AVAILABILITY OF TECHNOLOGIES	NA	SA	EU	ME	AF	AS	ANZ
Lawson Aquatics® Accessories	•	•	•	•	•	•	•
Filter Cleaners	•	•	•	•	•	•	•
Strainers	•	•	•	•	•	•	•
Reducers	•	•	•	•	•	•	•
Surge Tank Components	•	•	•	•	•	•	•
CO <sub>2</sub> Feeders	•						
Valves	•	•	•	•	•	•	•
Pumps & VFDS	•	•	•	•	•	•	•

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# Let's Transform Water Together

## OUR PEOPLE MAKE THE DIFFERENCE

We have more than 170 years of expertise in system design and development of a wide range of water and wastewater disinfection applications, meaning we are perfectly equipped to be your single-source supplier. From concept to completion, we will stand behind you every step of the way to ensure the success of your water treatment application. We apply the same dedication and expertise to every aspect of our relationship with you. Our people—and how they partner with you—are what makes Xylem the right choice for your water management solutions.

## OUR EXPERTISE SOLVES THE CHALLENGE

Nobody spends more time thinking about water treatment. With tens of thousands of customers and installations across the globe, we have more experience across more types of challenges, and can design solutions that provide more value today and tomorrow.

## TOTAL PEACE OF MIND

Whether you need help deciding between refurbishing or replacing existing equipment, finding a way to lower operating costs, troubleshooting an issue, outsourcing maintenance and upkeep, or a flexible way to pay for new equipment, the experts at Xylem can help.

Whatever you need to support your water and fluid management process, we do it. Our portfolio of services will give you total confidence in your system 24/7.

## UNMATCHED CUSTOMER SERVICE

When you purchase solutions from Xylem or one of our trusted channel partners, you are entering into an ongoing relationship with our team of specialists who understand your process and your productivity goals – even as they evolve over time. From service contracts to field services, retrofits, upgrades, spare parts, repairs and training, we're here to help you safeguard your investment.

## PARTS & SUPPORT

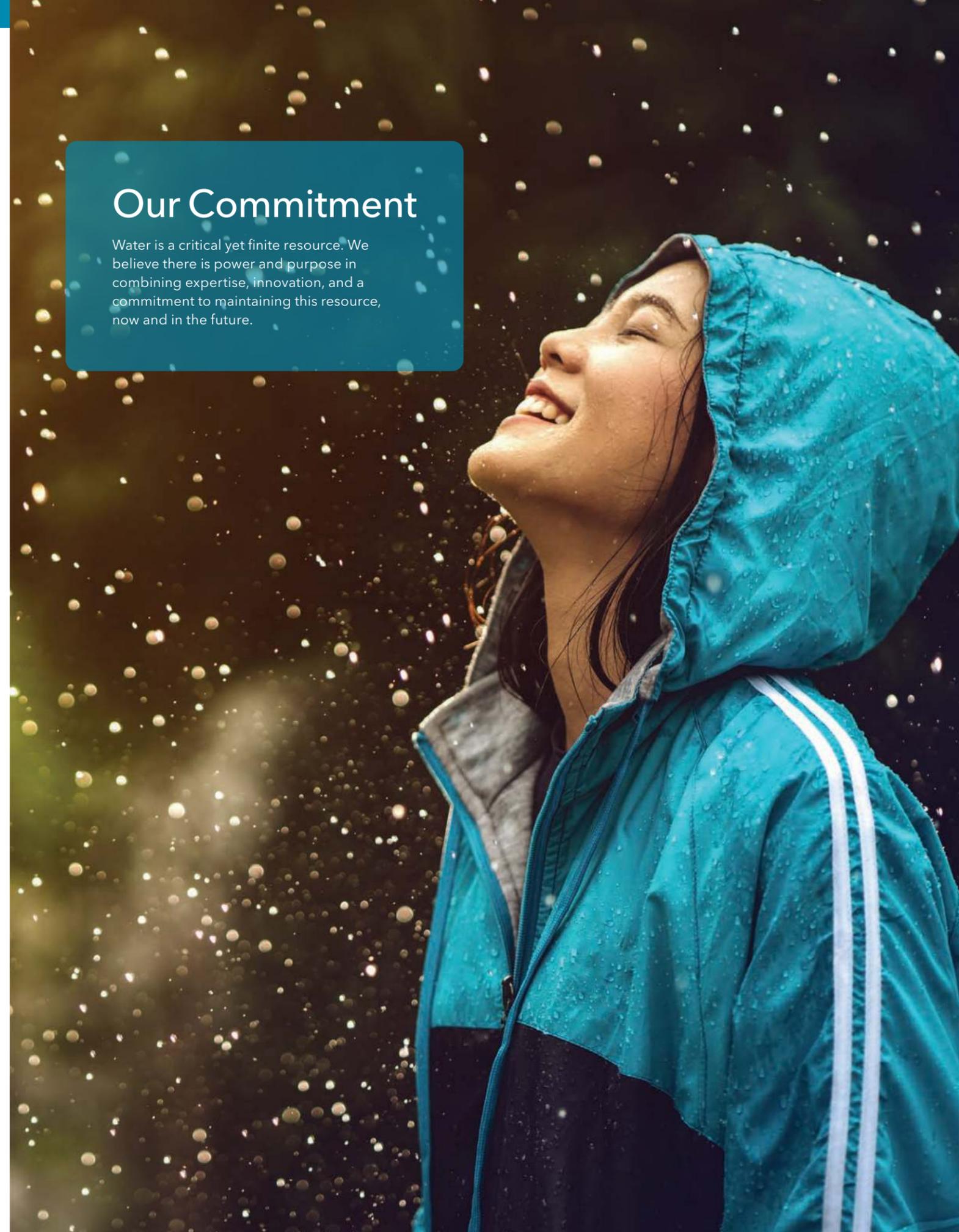
Xylem designs equipment for reliability, longevity, and low total cost of ownership. That said, there will come a time when routine maintenance is necessary to maintain peak performance. Genuine Xylem parts ensure optimal, reliable performance of your Xylem equipment and can be delivered directly to you or with technical support. If you prefer to handle upkeep yourself, we offer operator training, equipment service training, technical coaching, and genuine parts kits...we have you covered.

## Our Commitment

Water is a critical yet finite resource. We believe there is power and purpose in combining expertise, innovation, and a commitment to maintaining this resource, now and in the future.

Partner With Us Today

[Learn more at xylem.com](https://www.xylem.com)



# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com)**



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