

SOLAR CELL/ PHOTOVOLTAIC MANUFACTURING

SUSTAINABLE WATER AND WASTEWATER TREATMENT





## Comprehensive Water Solutions for Solar Manufacturing

## DESIGNED FOR COMPLIANCE AND MAXIMUM EFFICIENCY

Evoqua, now part of Xylem, is a global water technology provider focused on helping our customers solve the world's toughest water challenges through innovative products, services, and solutions. We have decades of experience in designing, manufacturing, and servicing water treatment systems for critical applications. We are committed to supporting the solar cell manufacturing industry with technical expertise, process knowledge and customized solutions to meet your needs.

Environmental pressure, rising energy costs and technological advancement have led to unprecedented growth for solar cell and photovoltaic manufacturing. This growth drives the need for innovative water treatment solutions that can adapt to meet changing industry and manufacturing requirements.

From high purity water systems to customized wastewater treatment and reclaim/reuse solutions, we can help you reduce costs and achieve regulatory compliance and recycle the maximum amount of water possible.

Whether you need a complete program to help you optimize your water treatment process, or a specific solution for your current operations, we have the technology and expertise to help you achieve your goals. With the largest service network in North America and 24/7 digital remote monitoring technology, we are committed to delivering the quality and quantity of water you need—when you need it.



- Best-in-class safety practices
- Vertical market knowledge and expertise
- Innovative water treatment solutions
- 24/7 remote monitoring with real-time visibility
- The largest service network in North America

140+

Global service locations

300+

Service technicians

2 hrs

Avg. travel time to 90% of industrial customers



## High Purity Water Treatment

Treating municipal water and reclaimed wastewater to high quality levels requires processes and water treatment technologies to remove contaminants such as minerals, microorganisms, and trace organic and inorganic chemicals. Simply meeting today's water quality demands is not good enough and we understand that the next technology cycle will call for even more rigorous specifications. Our extensive portfolio of industry-leading technologies can help you meet the standards required for your application now and into the future.

#### HIGH PURITY WATER SOLUTIONS

Ionpure* VNX Modules	High-flow modules designed with continuous electro-deionization technology to produce high purity water in a compact footprint.
Vantage® Reverse Osmosis Systems	Pre-engineered RO systems that remove up to 99.9% of dissolved solids, bacteria, and viruses.
Vantage® UFI Membrane Systems	Robust ultrafiltration system that removes suspended solids and organic impurities from variety of water streams to reduce RO fouling & extend equipment life.



### Cooling Tower Water Treatment

Cooling towers are utilized to remove heat from a water stream by bringing it into contact with air. During this process, the water absorbs airborne contaminants which leads to a reduction in heat transfer efficiencies and increased operating and maintenance costs. We offer solutions to remove suspended solids and control biological growth in the recirculating water stream to ensure efficient operation and long life.

#### **COOLING TOWER WATER SOLUTIONS**

Vortisand® C-Series Filtration System	A high-capacity media filter that combines crossflow dynamics with microsand media to achieve submicron filtration at rates of up to 5 times greater than traditional media filter.
V-Series™ Automatic Screen Filters	State-of-the-art self-cleaning screen filtration technology that provides automatic filtration down to 10 micron for flow rates from 30 to 220 gpm.

# Wastewater Treatment & Water Reuse

Water used in the production process picks up a variety of contaminants that require removal to acceptable levels before being discharged or processed for reuse. Our innovative wastewater treatment and reclaim/reuse solutions are designed to help you reduce costs, achieve regulatory compliance, and recover and recycle the maximum amount of water possible.



#### **WASTEWATER TREATMENT & WATER REUSE SOLUTIONS**

Vortisand® Industrial Filtration System	Designed to remove fine particles and reduce fouling, scaling, & biofouling in cooling loops with significant energy savings.
V-Series Automatic Screen Filters	Low maintenance, self-cleaning, and simpler to control screen filters with fewer moving parts and greater cleaning efficiencies.
Wastewater Ion Exchange (WWIX) Services	Utilizes ion exchange resin vessels for removal of dissolved heavy metals from rinse water and wastewater streams.



# Mobile Water Treatment & Services

We have an ever-expanding fleet of mobile solutions to meet your temporary and emergency water needs. Our reliable and extensive service network, and strategically located regeneration facilities allow us to effectively serve our North American customer base.

Our AQUA pro service professionals operate in nearly every industry that uses water in its processes, from emergency and mobile solutions to commissioning and maintaining permanent systems. Using remote monitoring with our Water One services provides maintenance, expendables, and repairs.



#### **MOBILE & SERVICES SOLUTIONS**

Mobile Demineralizer Trailer	A rapid response plug and play portable treatment solution for temporary use for high quality water and no capital investment.
Mobile Combination RO Treatment	Combines pretreatment vessels and RO units in a single, self-contained trailer with minimized installation costs and response time.
Mobile Ultrafiltration Trailer	Self-contained, trailer-mounted systems ideally suited for temporary high quality filtration.
Mobile Pretreatment Trailer	Self-contained, trailer-mounted systems ideally suited for temporary multimedia filtration, iron filtration, activated carbon, or softening.
Membrane Separation Trailer	Self-contained, trailer-mounted system configured with up to four skid-mounted reverse osmosis (RO) modules that provide temporary mobile RO water.
Water One® Services	Digital water management solution which combines our water expertise, proactive service, proven technology, and data intelligence for optimal performance.
Water One® WX Services	A digitally enabled wastewater recovery solution with 24/7/365 remote monitoring for reliable water quality and predictive analytics to optimize efficiency.





### Driving Sustainability

It is our responsibility and opportunity to help the world be more sustainable through our solutions. We are committed to continuously improving our sustainability practices in everything we do as we evolve and adapt in an ever-changing world.

Our customers are our most fundamental partners in solving the world's water and sustainability challenges. By deploying our innovative

technologies and solutions, our customers mitigate water scarcity, reduce water loss, and optimize water system efficiency.

We are constantly looking for new ways to integrate sustainability into our business strategy, develop partnerships to drive change across the sector and reinvent the ways we empower our customers to solve global water challenges.

## 100 Billion Gallons

We transform approximately 100 billion gallons of water every day with our products and services to 38,000 customers and ensure quality water resources, positively impacting health and safety at over 200,000 customer sites worldwide.



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