



Sustainable Water Solutions Partner

Proven  Dependable  Professional

Who We Are

Chem-Aqua® is a global leader in custom-designed water treatment programs for boiler, cooling, process, and wastewater systems. We help our customers minimize their water, energy, and maintenance costs while ensuring safe, sustainable, and reliable operation of these critical systems.

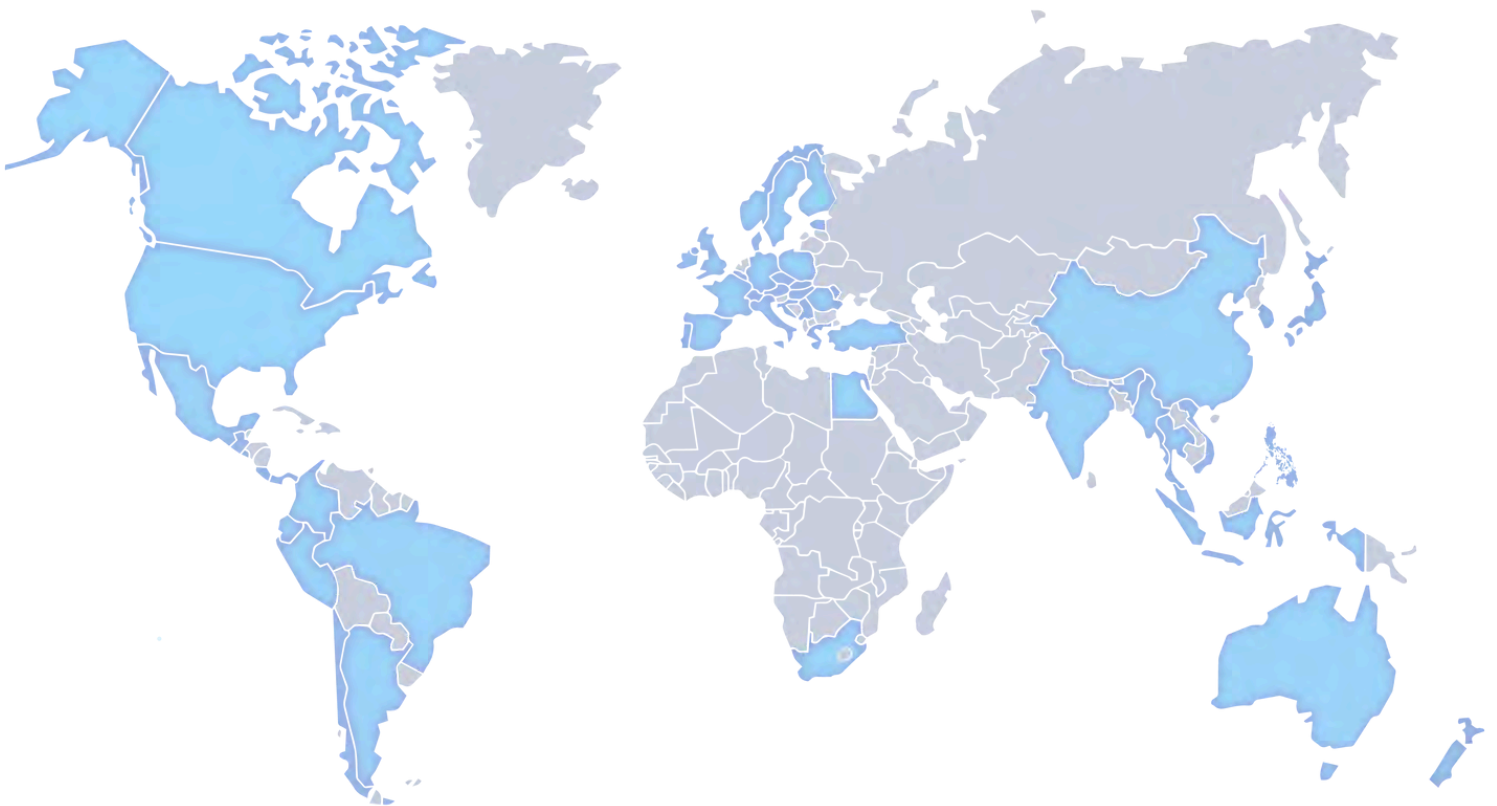
Chem-Aqua has the expertise and commitment to help solve virtually any water related problem. We maintain modern, well-equipped analytical laboratories, and cutting edge research facilities. Our state-of-the-art products are manufactured to rigorous ISO 9001 specifications.

We are a wholly owned water treatment subsidiary of NCH Corporation, a worldwide company that has been providing high-quality maintenance supplies, chemicals and services since 1919.



Global Presence

Headquartered in Irving, Texas, with offices, manufacturing facilities, and representatives strategically located in more than 55 countries across the globe, Chem-Aqua® is well-positioned to offer the best products and services worldwide.



The Power of Partnership

Effective water treatment goes beyond simply adding chemicals and testing water; it involves a program of products, equipment, and services tailored to the mechanical, operational, chemical, and human needs of each system. Our *360° Get Clean, Keep Clean™* Approach enables us to identify cost-saving opportunities other water treatment companies often miss.

We develop a partnership with our customers to provide one of the most comprehensive service packages within the industry. Our dedication to providing value-added services tailored to each customer's unique needs is what sets us apart.

Global Sourcing Partnership

Chem-Aqua® offers programs to help companies with multiple facilities leverage their spend volume to improve results, reduce costs, and maximize the return on investment for water treatment services. These programs facilitate key business functions including streamlined communications and procurement.



Chem-Aqua Can Help



OPEN RECIRCULATION COOLING TOWER

PROBLEMS

- Scale
- Corrosion
- Biofouling
- Legionella

IMPACTS

- Poor heat transfer
- System wear
- Restricted flow
- Production downtime
- Human Health



CLOSED RECIRCULATING CHILLED WATER

PROBLEMS

- Corrosion
- Fouling
- Sludge

IMPACTS

- Poor heat transfer
- Clogging
- Equipment wear
- Comfort "hot calls"



PROCESS COOLING WATER

PROBLEMS

- Scale
- Corrosion
- Biofouling
- Sludge

IMPACTS

- High energy costs
- System failure
- Production downtime
- Production slow down



FEED AND CONTROL SYSTEMS

PROBLEMS

- Poor treatment program
- Improper dosages
- Employee safety

IMPACTS

- High treatment costs
- Poor treatment results
- Lost time



HIGH/LOW PRESSURE STEAM BOILER

PROBLEMS

- Scale
- Corrosion
- Carryover

IMPACTS

- Poor heat transfer
- Tube failure
- Contamination



STEAM CONDENSATE LINES

PROBLEMS

- Corrosion

IMPACTS

- Contamination
- Steam loss
- Increased energy costs



HOT WATER RECIRCULATING BOILER

PROBLEMS

- Corrosion
- Fouling
- Sludge

IMPACTS

- Poor heat transfer
- Clogging
- Equipment wear
- Comfort "cold calls"



HEAT EXCHANGERS

PROBLEMS

- Scale
- Corrosion

IMPACTS

- High temperatures
- Downtime



PRETREATMENT SOFTENERS/DEAERATOR

PROBLEMS

- Poor efficiency
- Fouling

IMPACTS

- High treatment costs
- High fuel costs



THERMAL STORAGE TANK

PROBLEMS

- Corrosion
- Biofouling

IMPACTS

- System Inefficiency
- Contamination
- System failure



REVERSE OSMOSIS

PROBLEMS

- Deposits
- Oxidizers

IMPACTS

- Restricted flow
- Membrane replacement



WASTEWATER TREATMENT

PROBLEMS

- Grease/oils
- Heavy metals
- Sludge
- BOD/COD

IMPACTS

- Increased sewage costs
- Waste management fines
- Possible plant shutdown



Boiler Water Solutions

Water treatment is an essential part of the preventive maintenance program for any boiler system. Even a small reduction in efficiency due to scale deposits, excessive blowdown, or condensate losses can result in a significant increase in operating costs. While water and energy losses can be significant, production losses and shutdowns due to scale or corrosion can be even more detrimental. An effective boiler water treatment program helps protect your boiler system from the damaging effects of corrosion, scale, and carryover.



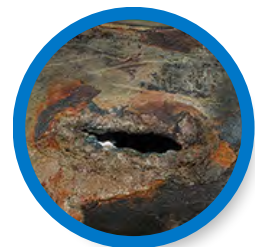
Boiler System Challenges



Scale Deposits



Corrosion



Tube Failures



Carryover



Steam Quality

Cooling Water Solutions

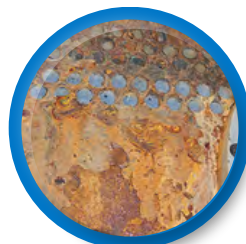
Effective water treatment is fundamental for the reliable operation of cooling water systems. Chem-Aqua provides customized programs that do more than just protect these systems from the ravages of corrosion, scale deposits, and microbiological growth. Our programs help maximize the life, efficiency, reliability, and safety of cooling systems while keeping energy, water, and maintenance costs to a minimum. We provide innovative and effective treatment technologies for all types of cooling water system designs and applications.



Cooling System Challenges



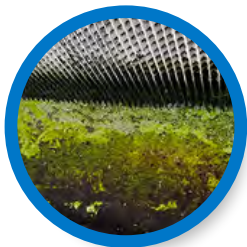
Scale Deposits



Corrosion



Microbiological Growth



Fouling



Inefficient Water Use



White Rust

Potable Water Solutions

If not managed properly, domestic/potable water systems can be a highly favorable environment for opportunistic waterborne pathogens. Chem-Aqua offers the following services:

- Supplemental Disinfection**
Supplemental disinfection can be an important control measure within your facilities waterborne pathogen control plan. We offer chlorine, chlorine dioxide, and copper-silver ionization technologies.
- Point of Use (POU) Filtration**
POU filters provide an immediate barrier of protection against *Legionella* and other waterborne pathogens at a single tap.
- Corrosion Inhibitors**
Applying corrosion inhibitors to domestic water can help extend system life and minimize water discoloration issues.
- Legionella Risk Management**
Chem-Aqua has the qualifications and experience to help manage *Legionella* risks associated with potable water, decorative fountains, cooling towers, and other water systems.

SPD/Central Sterile Water Systems

Without proper treatment, impurities in the water and steam can contribute to serious problems, including wet packs, staining, instrument corrosion, and microbial contamination. We can help develop water-quality programs that achieve key ST108 objectives and maintain reliable operations.



Process Water Solutions

Process water is used as a product ingredient or in manufacturing and cleaning processes. It often requires treatment to remove or manage contaminants that can cause quality issues, manufacturing downtime, and increased production costs.

Government regulations, industry standards, and economic considerations can all be driving factors for treatment program selection. Chem-Aqua has the products, equipment, and expertise to help you achieve your process water treatment objectives.



Process Water System Challenges



Water Quality



Corrosion



Microbiological Growth



Surgical Instrument Staining



Can Spotting

Wastewater Solutions

Water used in buildings and manufacturing processes can contain contaminants that must be removed or managed before the wastewater can be discharged into the environment. We offer programs that help facilities maintain drains, remove impurities, reduce sludge handling, minimize disposal costs, and improve effluent quality.

Chem-Aqua works closely with our customers to develop a comprehensive wastewater treatment program that can save money and address each facilities unique needs and goals.



Wastewater Challenges



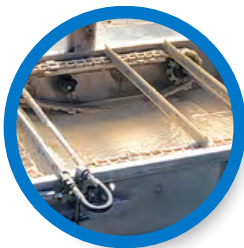
Regulatory Compliance



Operational Costs



Drain Maintenance



Sludge Management



Aging Infrastructure



Surcharge Fees

Industries Served

Chem-Aqua® offers proven results to a wide variety of industries. This begins with an understanding of the needs and challenges each sector faces. Our customized water treatment programs are designed to meet the unique requirements of each facility.

Take a look at just a few of the markets we serve.



Commercial Buildings



Data Centers



Educational Campuses



Food & Beverage



Government



Healthcare



Hospitality



Manufacturing



New Construction



Pharmaceuticals & Biotechnology



Plastics



Wood Processing

Sustainable Water Solutions

Our Resourcefully Green® Initiative

At Chem-Aqua®, we're dedicated to transforming sustainability into action. Our customized water treatment programs are designed to align with your sustainability goals, safeguard the environment, and reduce your carbon footprint. In today's world, where concerns about carbon dioxide (CO₂) emissions, global warming, and employee health are paramount, being 'green' is a necessity.



Why Water Treatment Matters

Often overlooked in the 'go green' equation, water treatment plays a pivotal role. Waterside deposits, excess water usage, and leaks are common culprits that escalate energy and water costs.

Let us Achieve Sustainability Together

Within Chem-Aqua, we understand that sustainability is an ever-evolving journey. As your partner in water treatment, we offer a comprehensive range of solutions to reduce your water and energy footprint while optimizing operational costs. Our tailored 360° *Get Clean, Keep Clean*™ programs help maximize system lifespan and efficiency, which is crucial for resource-efficient facilities.



Legionella Management

Under certain conditions, many water systems can harbor *Legionella* bacteria. While these bacteria are common in lakes, ponds, and rivers, outbreaks of Legionnaires' disease usually come from man-made systems like cooling towers, hot and cold-water systems, and spa pools, where water temperatures promote bacterial growth. Humidifiers, air washers, emergency showers, and ornamental fountains also pose a risk.



Dedicated Team

Our certified Water Risk Management Team is here to help you develop and implement a Water Management Plan in line with ASHRAE and other applicable standards. Proper management, biocide selection, monitoring, control, and disinfection of cooling towers, potable water, and other water systems are essential to meet these standards.

Risk Management Process



Risk Identification



Risk Analysis



Risk Acceptance



Risk Control

Innovative Solutions

As the demand for water increases and water quality decreases across the globe, innovation is key to facing the ever-growing challenges. From water and energy savings to improved product delivery and biofilm control, Chem-Aqua® has cutting-edge research laboratories that develop new products and innovative solutions to meet the unique needs of water treatment. Here are just some of our patented solutions:



**aquaDART® Automation
Feed & Control Systems**



**HandiChem® Solid Water
Treatment Solutions**



**bioDART® Biofouling
Monitoring**



**bioeXile®
Cleaners**

Equipment Solutions

Using the right equipment is just as important as using the right treatment chemicals. Properly designed and functioning water treatment equipment is crucial for program success. Chem-Aqua® places a special emphasis on equipment as part of our 360° *Get Clean, Keep Clean™* Approach.



Equipment Manufacturing

At Chem-Aqua, we manufacture a comprehensive line of water treatment equipment. If one of our standard models will not work, our engineers will work with you and your local Chem-Aqua representative to customize a system that suits your facility's needs. We also stock an extensive line of replacement parts and consumables.

Our equipment offering includes:

- 💧 Ion Exchange
 - Water Softeners
 - Dealkalizers
 - Demineralizers / Deionizers
 - Condensate Polishers
- 💧 Reverse Osmosis
- 💧 Automated Feed & Control Systems
- 💧 Filtration Systems
 - Media Filtration
 - Sand Filtration
 - Carbon Filtration
- 💧 Condensate Polishers
- 💧 Boiler Blowdown Controls
- 💧 SPD Critical Water Systems



LEADING THE WAY TO
A GREENER FUTURE
TOGETHER!

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