



Pretreatment Equipment

LEADING THE INDUSTRY IN WATER TREATMENT EQUIPMENT



CHEM-AQUA™
Engineered Equipment Solutions

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Chem-Aqua™ Equipment Solutions Add Value

Chem-Aqua's Engineered Pretreatment Equipment Systems help ensure top performance from water treatment and production processes by removing problem-causing impurities from water before they enter a system. As part of an integrated water treatment solution, Chem-Aqua's reliable and cost-effective line of ion exchange, reverse osmosis, and filtration equipment keeps systems operating at maximum efficiency, reduces chemical requirements, saves money, conserves resources, and helps protect the environment. Chem-Aqua's Engineered Pretreatment Systems are another way Chem-Aqua adds value to our customers' operations and provides long-term competitive advantages.

Choosing The Right Pretreatment System

Providing a reliable, high-quality supply of treated water is critical to many processes. However, selecting the right pretreatment technologies can be a daunting task. It requires a comprehensive evaluation of the incoming water quality and process requirements, the system design and operating conditions, and economics. Chem-Aqua Equipment Specialists have the experience and expertise to specify the right pretreatment system for standard applications and custom design systems to meet specialized needs.

Water Softeners

Chem-Aqua water softeners remove the hardness ions that form scale in pipes and heat exchange equipment, and interfere with critical cleaning and production processes. Chem-Aqua manufactures a full range of high-performance water softeners for commercial, light, and heavy industrial applications. Design features, such as standard pressure gauges and sample cocks, demand flow regeneration, and pre-assembled piping manifolds, enhance operational efficiency and make installation easier. Chem-Aqua water softeners are available in a range of configurations including

- Single, Dual, and Multiple Tank Configurations
- Rugged Polyglass or Steel Tanks
- Complete Control Valve and Regeneration Options



Chem-Aqua 2ASM-3672-2-AL7 Water Softener

Other Ion Exchange Equipment

Ion exchange is a versatile means of removing dissolved impurities from water. Softeners are the most widely used ion exchange process, but a variety of other methods can be used to effectively remove alkalinity, iron, and other dissolved solids. Chem-Aqua manufactures and supports a full range of specialty ion exchange equipment including

- Dealkalizers
- Demineralizers
- Condensate Polishers
- Oxidative Iron/Manganese Filters

Reverse Osmosis

Chem-Aqua™ reverse osmosis (RO) systems economically produce high purity water that benefits a wide range of industries and applications. Chem-Aqua provides a full range of RO systems from small pre-engineered skid mounted designs to large flow custom systems. Expertise and a full range of auxiliary equipment allow Chem-Aqua to provide ready-to-use RO systems tailored for specific applications.

Chem-Aqua RO systems feature

- High-Performance Thin Film Composite (TFC) Membranes in Fiberglass Reinforced Plastic (FRP) Pressure Vessels
- Panel Mounted Instrumentation, Including Alarms, Flow Meters, Pressure Gauges, and Conductivity Meters
- Variable Concentrate and Recycle Flow Control Valves to Provide Performance Flexibility and Water Savings
- Compact, Epoxy Coated, Carbon Steel Skid and Frame (Stainless Steel Optional)



Chem-Aqua CRO-35-8H Reverse Osmosis Unit



Chem-Aqua CTF-48-3 Side Stream Filter

Water Filters

Filtration is an important component of many water treatment processes, including pretreatment for reverse osmosis and ion exchange equipment. Filtration is also used to enhance the performance of cooling tower and closed system treatment programs. Chem-Aqua manufactures and supports a wide range of high-performance filtration equipment including

- Pressurized Media Filters
- Activated Carbon Filters
- Cartridge Filters
- Bag Filters

The Chem-Aqua Equipment Advantage

Chem-Aqua has been manufacturing water treatment equipment for over 40 years and we understand the importance of supplying high-quality water to your operation. Our Equipment Specialists and analytical laboratories are available to help you select the right pretreatment system and troubleshoot problems. We stock an extensive line of replacement parts and consumables, like filter cartridges and ion-exchange resins. To help ensure your pretreatment systems continue to operate reliably and at peak performance, Chem-Aqua also offers a full range of cleaning and maintenance services including

- Ion Exchange Cleaning Products and Services
- Membrane Cleaning Products and Services
- Equipment Start Up, Troubleshooting, and Repair Services
- Equipment Maintenance Contracts



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