

Applications for Cooling Towers

Our Capabilities

AmeriChem Systems, Inc. (ASI) manufactures corrosion resistant custom fabricated systems (CFS) that are engineered per customer requirements. ASI's Quality Management System is certified to ISO 9001:2015, demonstrating our high standard of quality and our commitment to our customers.

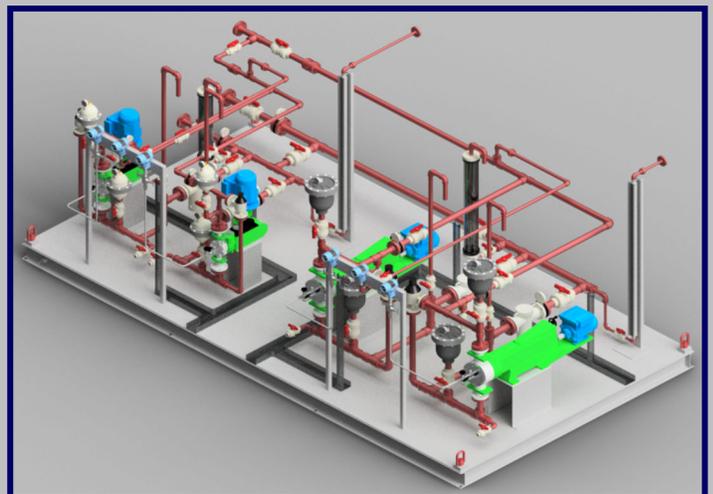
With decades of industrial equipment experience, we can offer cost-effective solutions in all manufacturing disciplines. We will work with your engineers to develop an equipment solution for a custom process or modify an existing one. Additionally, we can fabricate a self-contained module or completely integrate multiple modules in to a larger process system, providing documentation and support from the initial P&ID through to the final equipment functional testing.

12.5% Sodium Hypochlorite Feed System

Because evaporative cooling tower systems are open to the atmosphere and sunlight, they are prone to microbiological activity and the resulting adverse affects. The location of the cooling tower and the processes near the cooling tower can greatly affect the propensity for microbiological activity. For example, oils that contaminate a cooling water contribute to high microbiological growth. Process contaminations can also improve the environment for microbiological growth. Phosphates in the water can increase algae growth and then algae can feed bacteria.

There is no single solution to microbiological control in cooling systems. One method is to introduce an oxidizing biocide, such as sodium hypochlorite, into the cooling water supply.

AmeriChem Systems, Inc. manufactures sodium hypochlorite feed systems that inhibit the growth of algae and bacterial species in cooling towers. The feed system is designed and fabricated with all wetted materials in Kynar® PVDF construction. Red Kynar® PVDF series 700 compound contains a minimum of 1.7% red pigment for opaqueness to UV radiation. Kynar® PVDF is manufactured in Schedule 80 piping components in iron pipe size (IPS) and conforms to requirements in ASTM D3222 for Type I homopolymers. Kynar® PVDF socket-end connections are joined using heat-fusion welding as specified in ASTM D2567 Technique I.



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