

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.

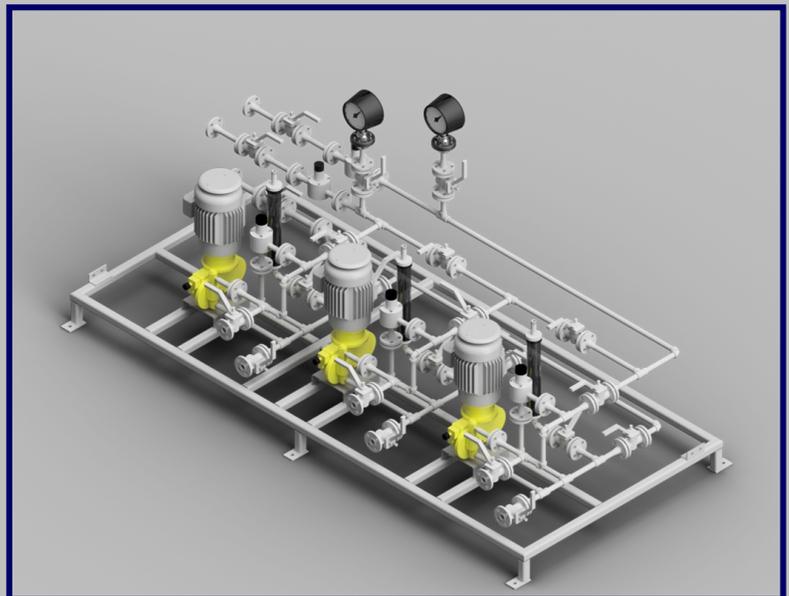
With decades of industrial equipment experience, we can offer cost-effective solutions in all manufacturing disciplines. We will work with your engineers to develop an equipment solution for a custom process or modify an existing one. Additionally, we can fabricate a self-contained module or completely 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.

93%-98% Sulfuric Acid Feed System

Customers rely on cooling tower systems to perform vital plant services, such as electric power generation, manufacturing processes and air conditioning. Poor pH control of the cooling tower system can result in expensive damage or contamination of the system. Imbalances in the cooling tower pH occur from different minerals dissolved in the water. These minerals can collect and create scale.

A straightforward and often used method to reduce the potential for calcium carbonate scaling is to treat the makeup water with sulfuric acid (H_2SO_4), where the hydrogen ions (H^+) from the acid convert the bicarbonate to carbon dioxide (CO_2). The gas exits from the cooling tower.

AmeriChem Systems, Inc. manufactures sulfuric acid feed systems that work to control the pH in cooling towers. Typically, the feed system is designed and fabricated with all wetted materials in Alloy 20 construction, also known as Carpenter 20®. Seats and seals are specified as PTFE (Teflon®). Feed systems are usually manufactured using Schedule 40 or 80 piping in iron pipe size (IPS). Valves, fittings and piping components are fabricated using socket weld, butt weld or flanged connections. The feed system can be provided with or without a control system. The diaphragm metering pumps can be provided with electronic stroke controllers or a local control panel can be outfitted with variable frequency drives (VFDs).



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