Dry Coolers Inc.

Industrial Process-Water Cooling Systems

IHEA
Industrial Heating Equipment Assoc.
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www.ihea.org

Dry Coolers Inc. was founded in 1985 to provide efficient and reliable process-water cooling systems to the metal heat-treating industry.

Pioneering the application of air-cooled heat exchangers to high-temperature process equipment, the company's first products were Aqua-Vent™ dry coolers (large radiators with propeller fans). Coupled with one of its skid-mounted closed-loop pumping stations, this type of system boasts the lowest operating and maintenance costs while effectively controlling fouling and corrosion of heat-treating furnace equipment.

While Dry Coolers' customers were ecstatic about the advantages of Aqua-Vent systems, some market segments (notably vacuum furnaces and induction equipment) require cooler water temperatures where systems are installed in hot climates. This led the Oxford, Mich.-based company to provide Aqua-Evap™ cooling tower systems with closed-loop pumping stations.

Dry Coolers' commitment to continuous improvement has led to innovations in filtration (CyClean™), liquid-to-liquid heat exchangers (ThermoFlow™) and emergency backup systems for high-temperature equipment. In response to customer needs, the longtime IHEA member has designed space-saving plans such as its TowerShed™ outdoor mechanical room for evaporative equipment.

Pictured is an evaporative closed-loop cooling system for multiple vacuum furnaces. 3D computer modeling allows Dry Coolers to produce the most compact and practical skid-mounted equipment. High-quality fabrication and optimized thermal engineering combined for a reliable and competitive system.

For even colder operating temperatures Dry Coolers engineered the Omni-Chill™ line of refrigeration systems. The company continuously innovates to provide practical solutions for high ambient and water temperatures, operation under no-load conditions, dirty environments and cyclical process heat loads. Hybrid systems combining air-cooled exchangers, evaporative towers and/or chillers can be engineered to match the customer's process requirements and provide the lowest operating cost.

Company engineers have experience with just about every type of thermal-processing equipment – controlled-atmosphere furnaces, low-pressure carburizers, induction equipment, electron beams, microwaves, vacuum brazing, ion nitriders and lasers – and optimized solutions are available. Dry Coolers' newest products are in the area of energy recuperation from furnaces to provide hot process water for washers, rinse tanks or other use.

Dry Coolers values its membership in IHEA. The association keeps the company informed on new developments, including changes in domestic and international standards, and also allows it to work with peer businesses to ensure that safe and efficient heating equipment is provided to the industry. Dry Coolers has been certified by ISO 9001 for continuous improvement, UL 508a for electrical panels and ASME for pressure vessels.

Field-proven in over 5,000 installations worldwide, Dry Coolers has earned a reputation for reliable, cost-effective process cooling solutions anywhere in the world. In addition to its 58,000-square-foot facility in Oxford, the company's recent expansion in Foshan, China, improves its ability to serve global customers.

Visit www.drycoolers.com for more information on Dry Coolers Inc.