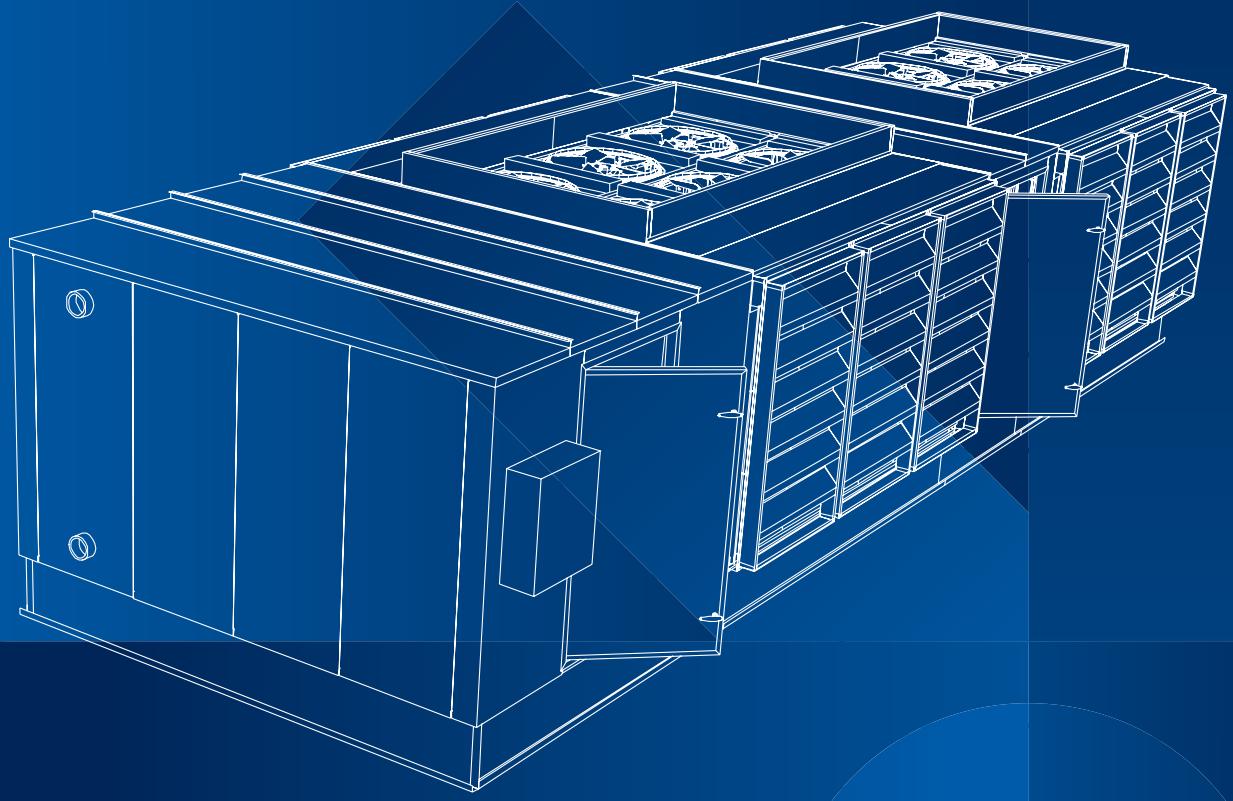
United Metal Products®

AHC ™

Adiabatic Hydro Cooler™



- Compressor-free cooling technology
- Substantial reduction of PUE
- Modular design can be sized to meet a wide range of cooling loads
- Can be used as stand-alone or in combination with air cooled chiller strategies
- ETL labeling available

Patents Pending

Manufacturer of Quality Air Moving Equipment

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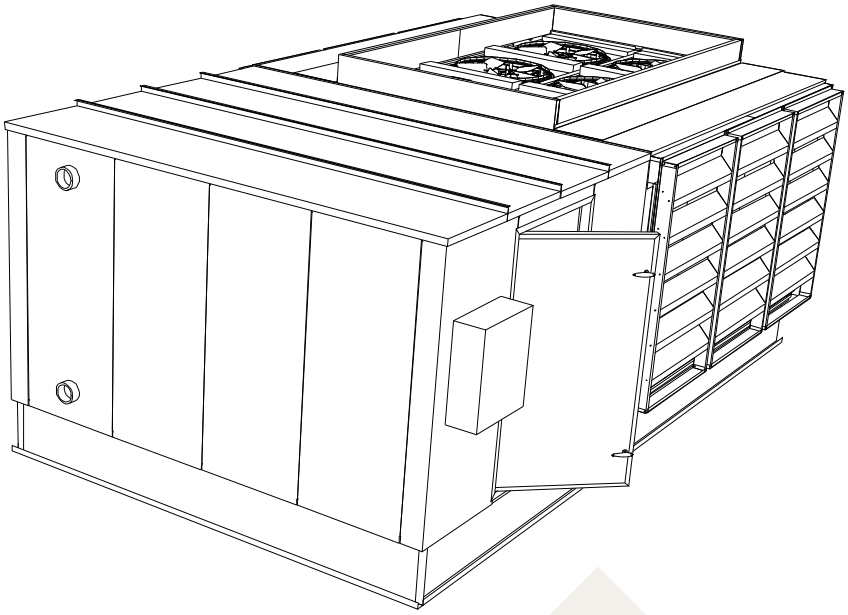

Industrial Class Cold Water Generating Equipment

Why?

Power usage is one of the main challenges for data center users. Over 1.5% of all power in the United States is being consumed by data centers and one-third of this energy goes toward cooling the data center facility. The Adiabatic Hydro Cooler (AHC) provides an energy efficient, cost effective, flexible, and reliable cooling solution to help data centers achieve an optimal PUE by taking advantage of more free-cooling.
For over 30 years United Metal has positioned itself as a leading provider of cooling solutions for high density applications. United Metal Products® offer an energy efficient, reliable, low maintenance and cost effective cooling solution using indirect and evaporative cooling technologies in a simple, self-contained unit – the Adiabatic Hydro Cooler (AHC).

Benefits:

- Low installation and running costs
- Built with the customer in mind – controls are brand-neutral for seamless integration into the building automation systems
- Reduced Power Usage Effectiveness (PUE)
- HFC and HCFC free (helping to achieve LEED certification)
- Produces a smaller carbon footprint than traditional chiller-based systems
- Factory tested and shipped ready to operate, including factory wired components
- Direct drive fans equipped with VFD speed control for optimized power and performance
- Stainless steel, galvanized or aluminum construction, with or without epoxy powder paint finish baked on at 375°F
- ETL listed and labeled in accordance with U.L. standards

Application:

The AHC™ by United Metal Products is specifically designed for data centers that are looking to save money by achieving an optimized PUE. They have been engineered to meet the core cooling needs of a facility, but also are an excellent solution to work in conjunction with traditional chilled water systems. Simply put, the AHC puts economizer strategies on steroids and allows data centers to take advantage of even more free cooling which leads to reduced energy consumption and greater financial savings.

Flexibility:

- *Modular heat exchanger, pump and control housings*
- *Controls are brand-neutral for seamless integration on site*
- *Mix and match single stage and two stage water cooling equipment to meet site requirements*

Applications:

- Data centers
- Telecom switching offices
- Laboratories
- Medical facilities
- Process control facilities

Resources Available for This Product

- Catalog By Mail

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Information subject to change without notice.