

DATA CENTER COOLING

evapco

for LIFE



OUR MISSION

EVAPCO is more than a company name – it is the team you can count on for a lifetime. We are a manufacturer of high-quality, innovative products and services that thrives through our core principle of treating people right. We are empowered by a culture of excellence and an environment of continuous improvement. We put people first, fellow employees and customers alike. We shine through expert craftsmanship and passionate dedication to fanatical customer service. We are EVAPCO - we are your team not just for a lifetime but for generations to come.





WORLD-WIDE COOLING SOLUTIONS



EVAPCO EVERYWHERE

EVAPCO, Inc. is an industry-leading manufacturing company with global resources and solutions for worldwide heat transfer applications. We are dedicated to designing and manufacturing the highest quality products for the evaporative cooling and industrial refrigeration markets around the globe.

GLOBAL PRESENCE

FULL SPECTRUM OF



DATA CENTERS ARE A GLOBAL PHENOMENON

As an international company, we understand that every project brings its own unique set of challenges.

You require options that adapt with evolving requirements, efficiently and sustainably—no matter the location.

By partnering with our experienced team of engineers, we can assist you in identifying the cooling solution that will deliver the best possible combination of power usage effectiveness (PUE) and water usage effectiveness (WUE) in any climate.

GLOBAL SOLUTIONS



ENGINEERED FOR MISSION CRITICAL PERFORMANCE AND EFFICIENCY

Our innovations are tested in one of the industry's largest and most advanced research and development facilities in the world, located at the EVAPCO World Headquarters in the USA.

Easily compare your options using the latest data center analysis tool created by EVAPCO. Capable of instantly calculating performance data around the globe, it's another way we're changing the cooling industry with technology for the future, available today.

ADAPT TO ANY ENVIRONMENT

Extremely limited water availability meant this customer needed an option beyond traditional evaporative cooling.

EVAPCO eco-Air Adiabatic Coolers were the optimal solution, allowing the site to achieve its ultra-low PUE target while consuming a minimal amount of water. Additionally, these coolers offer:

Low Water Consumption & Maintenance
High Efficiency & Resiliency

This adiabatic technology can be adapted to almost any location!
Visit evapco.com for more details.



ECO-AIR ADIABATIC COOLER

OPERATION:
DRY

ANNUAL DRY BULB DISTRIBUTION

SAVING WATER

18 MW
CALIFORNIA



With a custom solution,
this site's projected WUE
improved significantly!

After installation, EVAPCO
eco-Air Adiabatic Coolers
**reduced water consumption
by 95% AND** eliminated the
need for water treatment.

WET

UTION



When the local municipality reduced this data center's water supply and implemented escalating penalties to ensure compliance, plans shifted rapidly.

We worked with their designers and identified that our eco-ATWB-H Hybrid Coolers were the ideal solution.

With excellent dry performance, combined with exceptional **free cooling** potential, these units drastically reduced water consumption while virtually eliminating the need for chiller operation.

Contact your local EVAPCO sales representative to learn more about the innovative, highly efficient design of our hybrid options.



IMPROVING BOTH PUE AND WUE

ECO-ATWB-H HYBRID COOLER

THE BEST OF BOTH WORLDS

Together with our automated control system, this solution prolonged dry operation to **reduce annual water consumption by 60%** and minimize the requirement for water storage.



WUE

GOING HYBRID



AT ATLAS COOLING TOWER

LOWER ENERGY USAGE

HYPERSCALE SOLUTION

A strictly defined plan area combined with significant cooling requirements (50MW) called for a compact, ultra efficient system. Lead time was also crucial since the data center needed to be operational as quickly as possible.

The AT Atlas modular cooling tower was designed with these challenges in mind. By providing comparable capacity to field-erected units, the site could achieve its low PUE requirements. Faster lead times, as well as fewer piping and electrical connections, allowed multiple cells to be installed quickly.

Compare the Atlas to today's leading cooling options with help from our experienced engineers. Consider the EVAPCO team your partners in providing mission critical cooling.



OPTIMIZING ENERGY



With its modular design, the AT Atlas offers the **highest cooling capacity** and **lowest energy consumption** of all solutions.



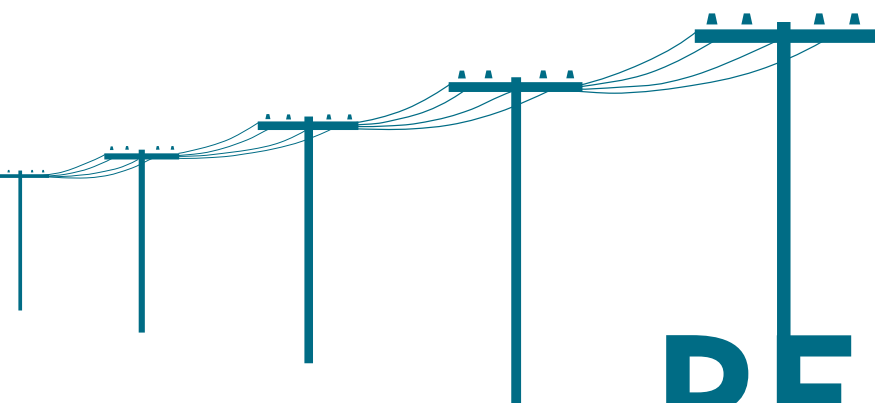


ADVANCED TECHNOLOGY AIR COOLED HEAT EXCHANGER

The ACHE is a field-erected unit comprised of large fans positioned over EVAPCO's state-of-the-art finned tube bundles in an induced draft configuration. This design provides a substantial amount of cooling capacity in a small footprint.

The "AT ACHE" also offers significant increases in fan efficiency compared to ACHE designs that use smaller fans. EVAPCO's AT-ACHE is an induced draft air-cooled heat exchanger with larger fans, motors, and advanced coil technology.

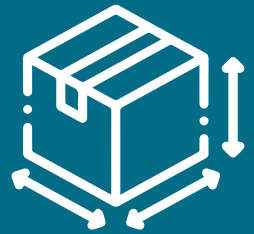
A reduction in electrical power consumption can be achieved with large high-efficiency fans and pressure recovery fan stacks.



REDUCED A



AT ACHE DRY COOLER



REDUCED FOOTPRINT

Plot plan limitations can be addressed with elevating modules, arranging fin/tube bundles in a V configuration to increase airflow, and back-to-back arrangements.

AUXILIARY POWER



ENVIRONMENTALLY CONSCIOUS WATER TREATMENT SOLUTIONS

Only EVAPCO offers two patented water treatment systems that can be factory-mounted for the easiest, most dependable set-up ever: Smart Shield, the safer solid chemistry system with controlled-release technology, and *Pulse~Pure*®, the pulsed-power way to treat your water with zero chemicals. In addition, EVAPCO Water Systems has expanded its product offerings to include a capacitive deionization pre-treatment system focused on improving water efficiency. Innovations like these are how we're making everyday life easier, more reliable, and more sustainable for you.

FULL SPECTRUM O



EVAPCO SMART SHIELD®



WATER TREATMENT OPTIONS

Pulse~Pure provides a complete water treatment system for your evaporative cooling equipment, significantly reducing the environmental impacts associated with the production, shipping, handling, and storage of chemicals. Smart Shield provides a complete, reliable, solid chemistry water treatment system specifically engineered and factory mounted, piped, and wired for open cooling towers. EVAPCO provides the best options either way!

F WATER SYSTEMS



MR. GOODTOWER® SERVICES



SUCCESS STORY

The Mr. GoodTower Service Team in Pittsburgh, PA, replaced the coil sections on two competitor's closed circuit coolers. The new coil casings featured EVAPCO's Patented Thermal Pak Design, which provides more heat transfer surface area. The casings were constructed of galvanized steel, and the coil bundles were made of Type 316 Stainless Steel. The coil casing sections fit and function perfectly, and the customer is very satisfied! Another win for Mr. GoodTower!

WORLD CLASS SERVICE



MR. GOODTOWER

EVAPCO offers the best parts warranty in the industry. Most companies and contractors will offer a 1-Year Warranty no matter the part, but EVAPCO and Mr. GoodTower stand by their parts that will be installed in non-EVAPCO equipment for a full two years!

RVICE

Staying at the forefront of technology is just as important to us as it is you. In addition to developing sustainable solutions in our state-of-the-art research facility, we've also produced analysis tools to assist you in creating a holistic view of your cooling system.

Our powerful software can optimize your design process by **calculating annualized performance data** for your location and site-specific requirements. We can provide design engineers with a comprehensive range of **water and energy consumption** data to help identify the best cooling solution for any project. You can expect the final analysis to include:

FREE COOLING POTENTIAL
WATER CONSUMPTION
COOLER POWER
CHILLER POWER
PUMP POWER
AND MORE

SPECTRUM
by **evapco**



LEADING THE INDUSTRY WITH

RESEARCH AND DEVELOPMENT

Tour the Wilson E. Bradley Research and Development Center, one of the largest and most advanced facilities of its kind. Contact your local representative to schedule your visit today.

With our tools, expertise, and global footprint, EVAPCO can help you reach your targets wherever your next data center may be.



TECHNOLOGY

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