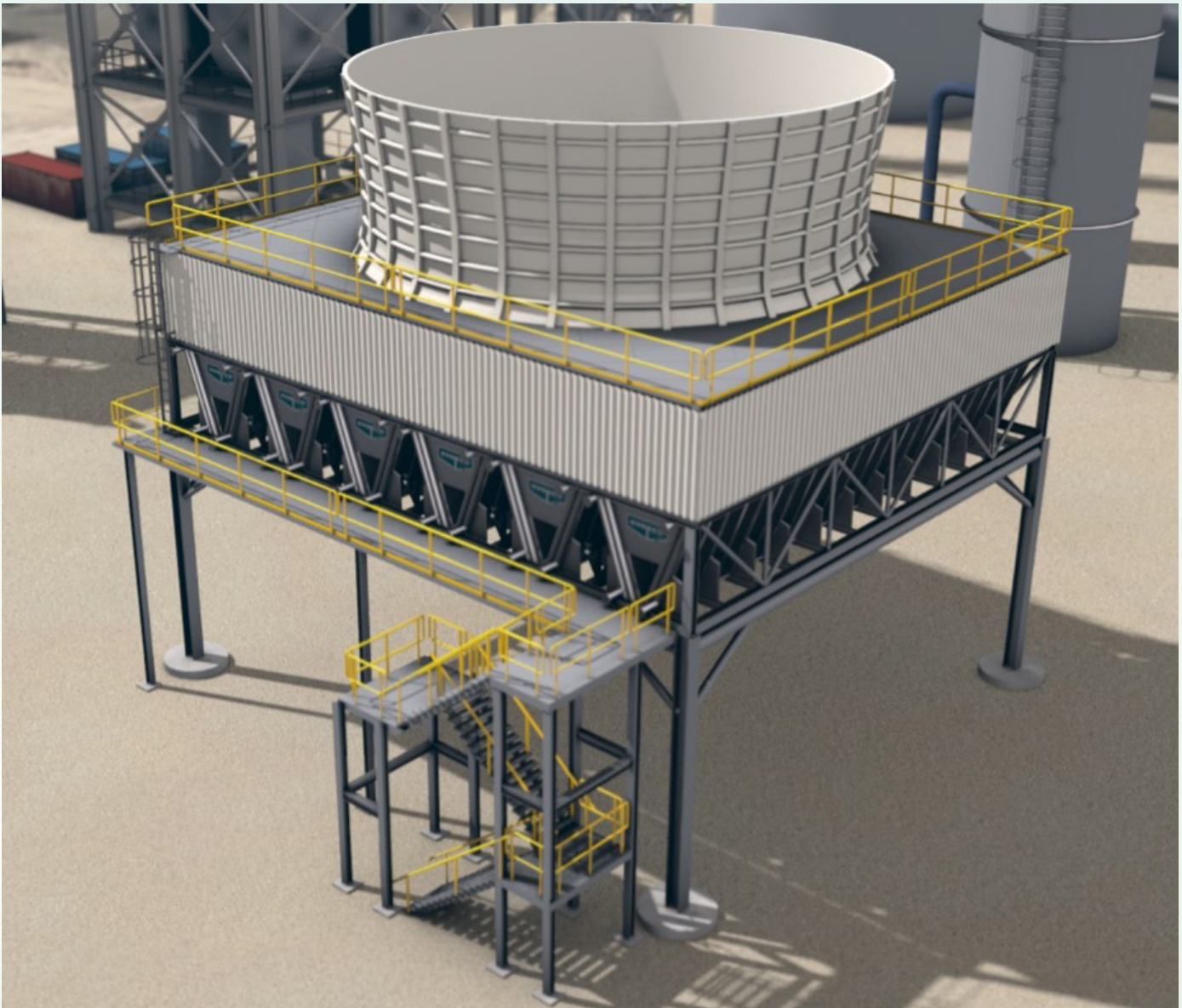


EVAPCO DRY COOLING

Advanced Technology Air Cooled Heat Exchanger



Power Generation | Carbon Capture | Heavy Industrial | Mining

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Advanced Technology ACHE

The Advanced Technology 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. Simply put, Evapco's AT-ACHE is an induced draft air-cooled heat exchanger with larger fans, motors, and advanced coil technology.

Coil Design

Using computational fluid dynamics (CFD) modeling software, finite element heat transfer analysis, and proprietary coil performance calculation methods, Evapco engineers have identified significant design elements to improve the finned coil performance. The extensive computer modeling has been refined and verified through coil performance evaluation in Evapco's world class research laboratories. The Evapco Advanced Technology ACHE can be configured with the same coil technology as our conventional eco-Air™ products.



Superior Stainless Steel Technology

The eco-Air Series dry coolers are constructed with high-grade type 304L stainless steel tubing and aluminum fins as standard. The SS tubing meets the requirements of ASME B31.5 piping code. The tubing is roll formed and continuously welded, annealed, and tested using an eddy current device. For applications where corrosion of the aluminum fin is a concern, an epoxy coating is available.

Benefits

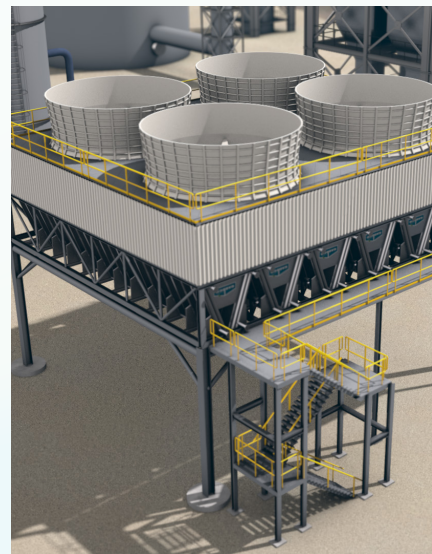
- **Reduced Auxiliary Power.** A reduction in electrical power consumption can be achieved with large high efficiency fans and pressure recovery fan stacks.
- **Reduced Maintenance.** The AT-ACHE reduces the maintenance associated with systems requiring more fans and systems utilizing carbon steel tubes requiring cleanable headers.
- **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.
- **Reduced or Eliminated Water Consumption.** Utilizing closed loop cooling water systems will either eliminate or dramatically reduce water consumption which minimizes the ongoing expenses related with the cooling equipment such as environmental permitting, purchasing, treating, and disposing of water.
- **Installation Made Easy.** The AT-ACHE takes advantage of extensive knowledge of structural steel design and erection from Evapco Dry Cooling's Air Cooled Condenser products. The result is an erector friendly design with safe working conditions.



The Next Generation

The Advanced Technology ACHE is the next evolution of Evapco's dry cooling product lines, utilizing the benefits of Evapco's latest thermal heat transfer research and development, while taking advantage of the efficiency gains of large fans and smaller equipment footprints. This is another chapter in Evapco's ongoing commitment to high quality, environmentally friendly products.

Consulting engineers, EPCs, and end users are joining the Advanced Technology ACHE revolution. To learn more visit www.evapcodc.com or call +1 (908) 379-2665.





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Committed to making life easier, more reliable and more sustainable for people everywhere