

**evapco**  
Dry Cooling



**DRY COOLING TECHNOLOGY**  
for **CAPTIVE POWER PLANTS** on  
**LIQUIFIED NATURAL GAS (LNG) FACILITIES**

EVAPCO Dry Cooling specializes in the manufacture of air cooled steam condensers (ACC) and air cooled heat exchangers (ACHE) for the power generation (including captive power plants on LNG facilities), carbon capture, heavy industrial and mining industries. With a keen focus on research and development, EVAPCO Dry Cooling is a world class equipment manufacturer that continues to drive the industry to the highest standards.

## Air-Cooled Condenser Design

Since LNG facilities are located on navigable waterways, large modules are often built off site and transported to the site for final installation. Initial modularized designs adapted conventional A-Frame ACC technology into modularized assemblies.



## Modularization Benefits

- Reliability with a standard product
- Saves time for remaining assembly work required on site
- Robust structure to withstand hurricane/typhoon force winds, even during installation
- Offsite assembly of major modules reduces risk and quality issues associated with onsite construction
- Direct waterway access allows for work to be performed where skilled labor is available and cost effective

Since 2012 with our Wilson E. Bradley Research Center in Taneytown, MD, EVAPCO has been conducting extensive research and development which has led to the creation and of both the Advanced Technology ACC and the highly efficient nuCore™ Heat Exchanger air cooled condenser fin tube bundle. EVAPCO continues to innovate and improve our design and thermal performance with constructibility and modularization as a key focus of development. As a result, the modular Advanced Technology ACC suite of solutions is a compelling solution for LNG facilities situated close to navigable waterways.



### On-Site Work Savings

From inception, the Advanced Technology ACC was conceived to be inherently modular in design, continuing EVAPCO Dry Cooling's tradition and leadership in providing the most erection-friendly ACC in the market. The large Advanced Technology ACC cells can be built anywhere on the globe and transported to the final site.



Onsite work savings quantified when tasks are moved to an offsite modularization facility:

	Work Performed Offsite at Modularization Yard	Remaining Work Required Onsite for Final Assembly
Amount of Welding by Length	61%	39%
Structure Installed by Weight	90%	10%
Hours Required for Mechanical Equipment Install	67%	33%
Amount of Piping by Length	76%	24%
Hours Required for Quality Control & Assurance	76%	24%
Total Amount of Assembly Performed Offsite vs. Onsite	74%	26%



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