



# POWER



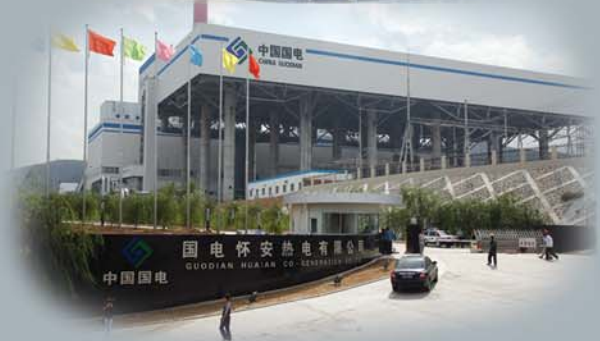
**FIELD ERECTED  
COOLING TOWERS AND SERVICES**

**WET COOLING**



**SPECIALISTS IN AIR COOLED CONDENSERS  
AND HYBRID COOLING SYSTEMS**

**DRY COOLING**





EVAPCO Global Headquarters, Taneytown, Maryland USA

EVAPCO, Incorporated is an employee owned manufacturing company with global resources and solutions for worldwide heat transfer applications. Since its founding in 1976, EVAPCO has become an industry leader in the engineering and manufacturing of quality heat transfer products around the world. EVAPCO's mission is to provide first class service and quality products for the following markets:

- Power
- Commercial HVAC
- District Energy
- Industrial Process
- Industrial Refrigeration



EvapTech, Inc.  
Divisional Headquarters, Lenexa, KS

EvapTech is a premier cooling tower designer, manufacturer and contractor providing Innovative Cooling Solutions for the power generation, industrial, refrigeration and HVAC evaporative cooling markets. EvapTech offers new and replacement field erected cooling towers and a variety of field erected cooling tower after market services.



EVAPCO-BLCT Dry Cooling, Inc.  
Divisional Headquarters, Bridgewater, NJ

EVAPCO, Inc. and Beijing Longyuan Cooling Technology Company, LTD ("BLCT") joined forces to pursue the global air cooled condenser ("ACC") and hybrid cooling market for the power industry via a USA company named EVAPCO-BLCT Dry Cooling, Inc.

EVAPCO-BLCT Dry Cooling, Inc. offerings are based on the single row tube bundle technology and "best in class" quality which have propelled BLCT to become an ACC market leader in China.

## EVAPCO POWER GROUP



The EVAPCO POWER GROUP is "about" advancing cooling technologies for the Electric Generating industry. We have combined a highly experienced group of industry experts with millions of Research and Development dollars and a state-of-the-art research center to develop next generation technology for wet cooling tower systems, dry air-cooled steam condensing and hybrid systems.



EVAPCO POWER's path to Research and Development success for the power industry is being paved in the same manner and with the same passion which has proven successful for heat transfer research related to other industries served by EVAPCO.



The continuous research efforts in progress at EVAPCO's world R & D headquarters in Maryland and in cooperation with the Electric Power Research Institute (EPRI) and other technical partners will benefit the power industry on many technical fronts.



# WET COOLING

## EVAPTECH® PRODUCTS AND SERVICES

### New and Replacement Cooling Tower Designs



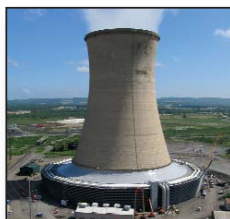
Series EC  
Custom Counterflow



Series EX  
Custom Crossflow



Series ES  
FM Approved



Series ECC  
Concrete Towers

### After Market Service Capabilities



Zero Down Time Execution



Thermal Upgrades



Structural Upgrades



Inspection Services

The only field erected cooling tower supplier to have complete control and ownership of the fiberglass structure, heat transfer media, eliminator and water distribution components.



Fiberglass Pultrusion Manufacturing  
Newton, Illinois



Specialty Plastic Components  
Ramseur, North Carolina



## DRY COOLING

### EVAPCO-BLCT PRODUCTS AND SERVICES

#### Air Cooled Condensers

For steam cycles of any size, Evapco-BLCT supplies the Air Cooled Condenser that is custom engineered for your application, regardless of your fuel source; coal, natural gas, nuclear, biomass or solar.

#### Hybrid Cooling Systems

Any combination of Air Cooled Condensers, Cooling Towers, Surface Condensers and Air Cooled Heat Exchangers is commonly termed "hybrid cooling". These hybrid cooling systems are commonly used when water is available but not in the quantities necessary to support a 100% wet cooled system. Evapco-BLCT Dry Cooling is experienced in the design of hybrid systems and can provide an optimized turnkey solution for any water restriction and location.



#### Technical Services

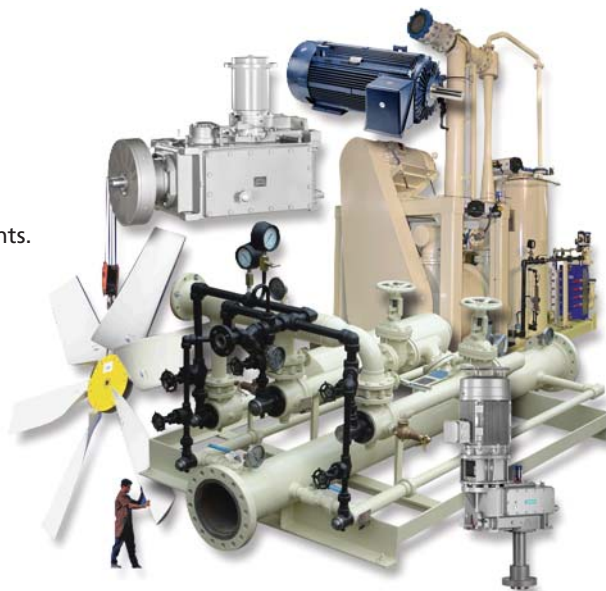
- Optimization of power plant cooling systems & plant output
- Reconfiguring ACC operating logic
- ACC thermal performance evaluation
- ACC tube bundle replacement
- Addition of ACC cells to increase the condensing capacity
- Dry to hybrid cooling system conversion (wet cooling add-on)
- Wet to hybrid cooling system conversion (dry cooling add-on)
- Addition of wind screens for wind mitigation
- ACC air inlet spray systems for performance upgrades during summer
- Fin tube cleaning systems



#### Air Cooled Condenser Spares

Regardless of the original ACC OEM, EVAPCO-BLCT Dry Cooling can support your ACC spares requirements.

- Fans
- Motors
- Gearboxes
- Rupture discs
- Vacuum breakers
- Isolation valves
- Bypass systems
- Cleaning pumps
- Steam jet air ejectors
- Liquid ring vacuum pumps





# POWER

## Research & Development

It is an important step for a manufacturer to generate reliable performance data for proprietary components in state-of-the-art test laboratories. EVAPCO has invested in test facilities for wet and dry cooling at the Wilson E. Bradley Research & Development Center at EVAPCO World Headquarters in Taneytown, MD USA.

### WET COOLING

The wet R&D Center laboratories are dedicated to industry leading product development efforts by utilizing state of the art thermal, hydraulic, material analysis equipment, methods and techniques.



The R&D features customized laboratories that are designed to conduct tests through a wide range of environmental conditions. The computerized data acquisition system records the data and graphically displays continuous results, thereby providing the R&D engineers with valuable test information on a continuous basis.



### DRY COOLING

EVAPCO has designed, built and commissioned a state-of-the-art Air Cooled Steam Condenser Test laboratory in the R&D Center. This industry leading laboratory includes a wind tunnel to investigate ACC heat exchanger performance for full size (over 35 ft. tall) tube bundles as required for many power plant applications.



The laboratory process loop produces steam under vacuum in conditions typically utilized in power or other process plant applications. The ability to test the heat exchanger with steam under vacuum rather than hot water makes it unique as well, and allows EVAPCO to optimize the Air Cooled Condenser design with unprecedented precision; giving particular attention to phenomena such as freezing, air leakage, impingement, flow accelerated corrosion (FAC) and the high parasitic power losses associated with Air Cooled Condensers.



Scan the QR Code to see EVAPCO's Air Cooled Steam Condenser Test Laboratory located in the Wilson E. Bradley Research & Development Center in Taneytown, MD USA.



# POWER



- World Headquarters/ Research and Development Center
- EVAPCO Facilities

## EVAPCO, Inc. — World Headquarters & Research/Development Center

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