



# Specialists in Air Cooled Condensers and Hybrid Cooling Systems





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 the 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

EVAPCO's powerful combination of financial strength and technical expertise has established the company as a recognized manufacturer of market-leading products on a worldwide basis. EVAPCO is also recognized for the superior technology of their environmentally friendly product innovations in sound reduction and water management.

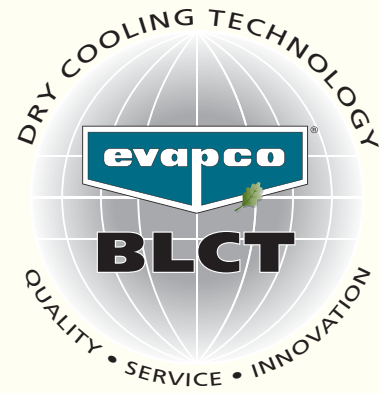
Placing a strong emphasis on research & development and modern manufacturing plants, EVAPCO has earned a reputation for technological innovation and superior product quality by featuring products that are designed to offer these operating advantages:

- Higher System Efficiency
- Environmentally Friendly
- Lower Annual Operating Costs

BLCT specializes in the design and supply of Air Cooled Condensers for the power market in China and India and is the only Air Cooled Condenser supplier in China with EPC capability. BLCT has received large Air Cooled Condenser awards for more than 35 power plants and currently has the largest market share of any ACC supplier in China.



Beijing Longyuan Cooling Technology Company, Beijing, China



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. BLCT will continue as an ACC market leader in China, operating independent of EVAPCO-BLCT Dry Cooling.

EVAPCO-BLCT's thermal components are tested and validated in the Wilson E. Bradley Research & Development Center located at EVAPCO's World Headquarters in Taneytown, MD USA.

Featuring six environmental test chambers and over 63,600 square feet of laboratory space, the EVAPCO R & D Center is dedicated to industry leading product development efforts utilizing state of the art thermal, hydraulic and material analysis equipment.





## EVAPCO-BLCT Products and Services

### Air Cooled Condensers

For steam cycles of 1 to 1000MW Evapco-BLCT Dry Cooling can supply the Air Cooled Condenser that is right for your application. Irrespective of the fuel source; biomass, fossil, solar or nuclear an Evapco-BLCT Dry Cooling ACC can significantly reduce the water requirements of any steam cycle power plant. Some features of an Evapco-BLCT Dry Cooling offering are:

#### Safety

The safety of our clients is as important to Evapco-BLCT Dry Cooling as it is to them. At every step of the ACC design process consideration is given to the safety of both the construction team and the day to day operators of Evapco-BLCT Dry Cooling ACC. During the execution of the project input is solicited from all the safety stakeholders and incorporated into the design of the ACC, making an Evapco-BLCT Dry Cooling ACC the safest ACC to build and operate.

#### Experience

The Evapco-BLCT Dry Cooling team are the most experienced ACC team in the industry today. This United States based team is experienced in supplying ACC's all over the world designed to the codes and regulations of each region.

#### Optimized for Field Assembly

Evapco-BLCT Dry Cooling strives to design and deliver an ACC with the lowest total installed cost. Optimizing the degree of offsite preassembly, the amount of work at elevation and preferred delivery schedule are all factors considered when designing our ACC's.

#### Flexible Designs

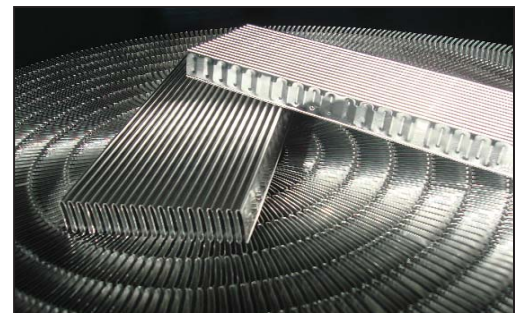
Evapco-BLCT Dry Cooling can design ACC's for any prospective site. Advance design capabilities allow Evapco-BLCT Dry Cooling to select ACC's with height, noise, wind or layout restrictions and still guarantee all performance characteristics.

#### Proven Technology

BLCT Single Row finned tubes are in operation in over Thirty-Five (35) power plants with combined electrical generation of over 12GW. This type of tube and fin combination is used by multiple ACC suppliers and has been in operation worldwide since 1990. It is the fin tube combination currently installed in over 90% of ACC's worldwide.

### 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 widely experienced in the design of such systems and through collaboration with our sister company Evaptech ([www.evaptech.com](http://www.evaptech.com)) and selected equipment vendors can provide an optimized turnkey solution for any water restriction and location.



## Technical Services

EVAPCO-BLCT Dry Cooling's technical experts can also provide technical study services for more complicated projects including;

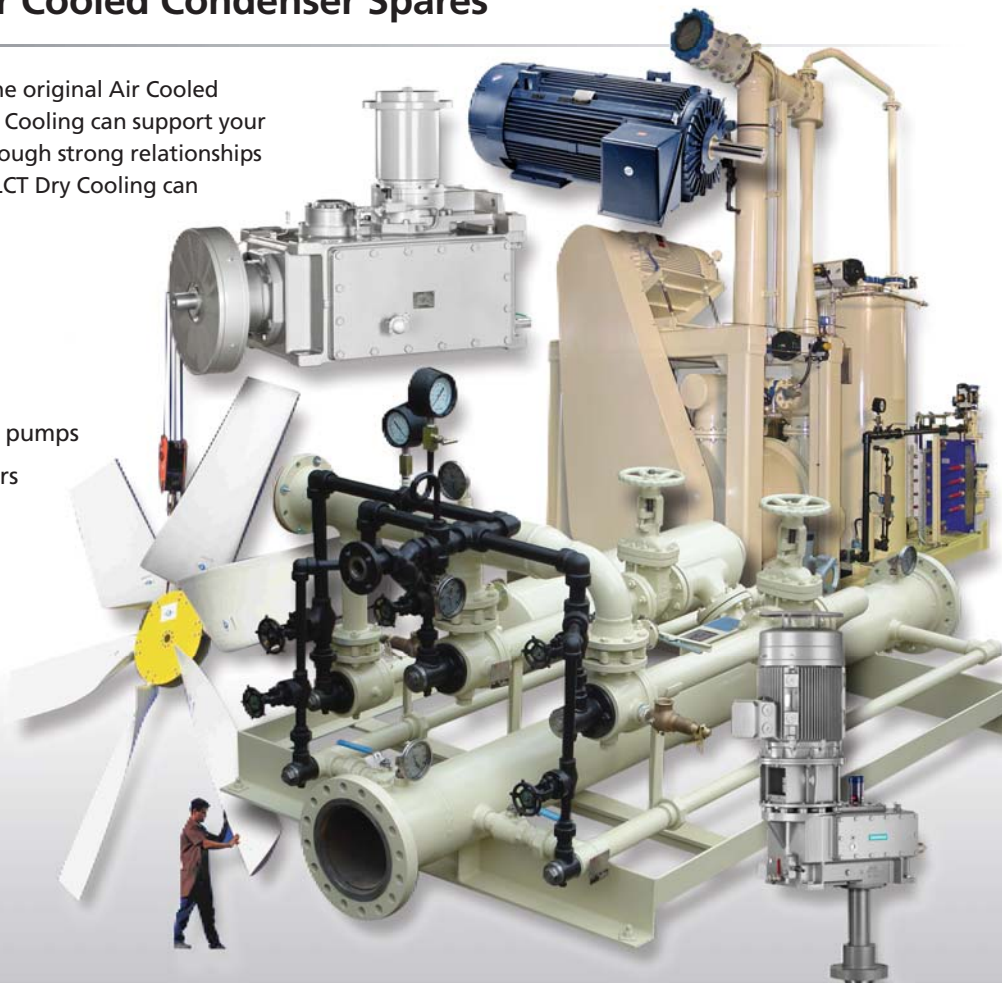
- Optimization of power plant cooling systems & plant output
- Reconfiguring ACC operating logic
- ACC thermal performance evaluation
- ACC tube bundle replacement
- Addition of additional ACC cells to increase the condensing capacity
- Dry to hybrid cooling system conversion (wet cooling add-on)
- Wet 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

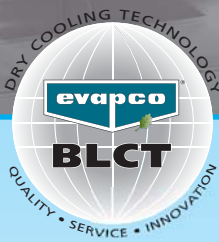


## EVAPCO-BLCT Air Cooled Condenser Spares

Regardless of who supplied the original Air Cooled Condenser, EVAPCO-BLCT Dry Cooling can support your ACC spares requirements. Through strong relationships with key suppliers EVAPCO-BLCT Dry Cooling can provide spare parts for:

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





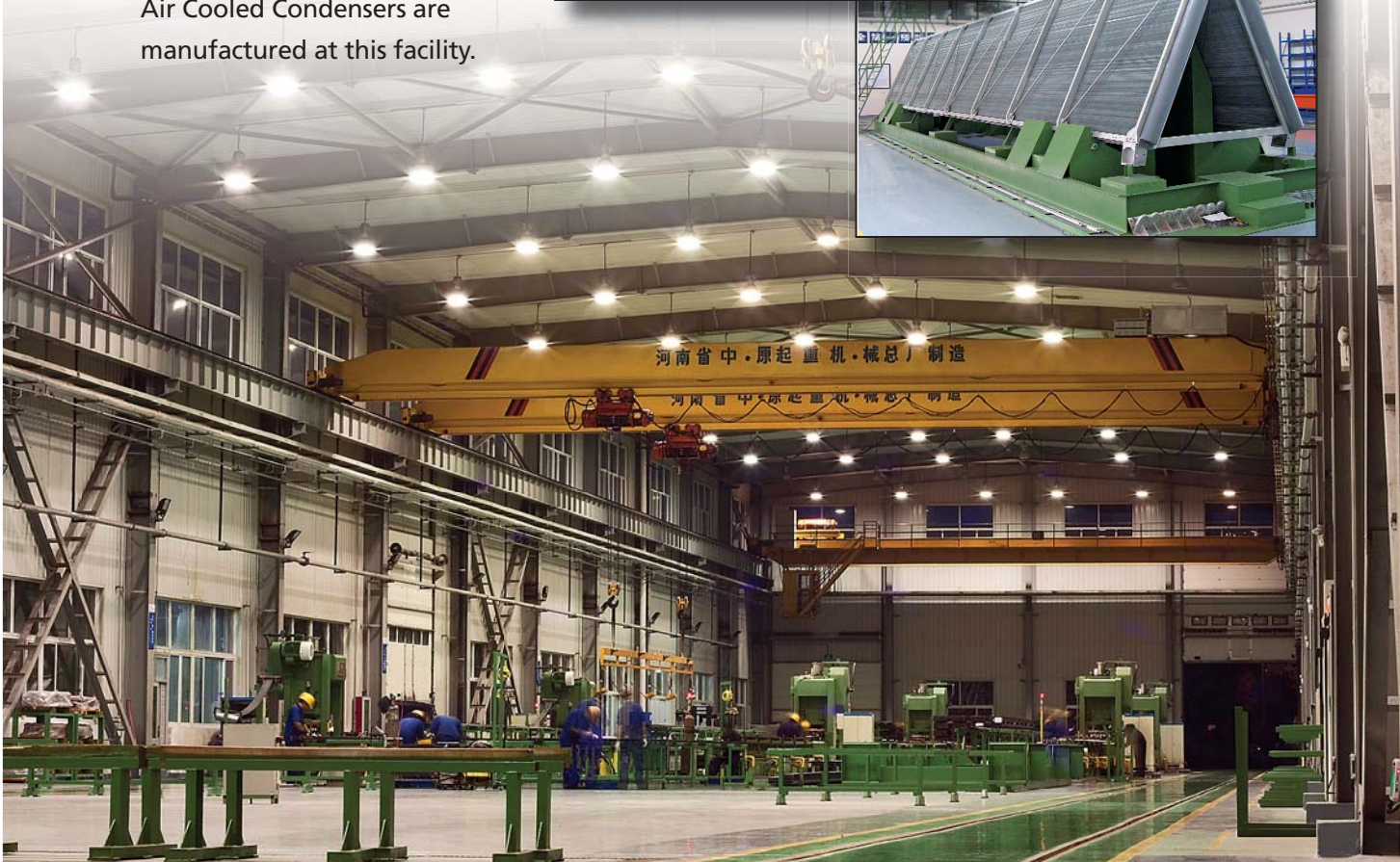
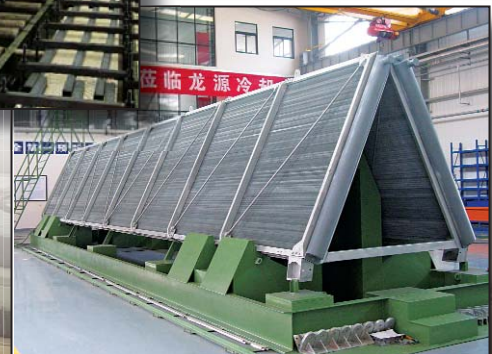
## Beijing Longyuan Cooling Technology Company

BLCT is a full service company, having resources in thermal and structural engineering, construction and start-up services, manufacturing of critical high quality heat exchanger components and a research and development group.

The company is located in Beijing Economic & Technological Development Area (BDA), and has over 600 employees. The Single Row Tubes utilized in BLCT Air Cooled Condensers and EVAPCO-BLCT Dry Cooling Air Cooled Condensers are manufactured at this facility.



### EVAPCO-BLCT Component Manufacturing





-  World Headquarters/Research and Development Center
-  EVAPCO Facilities

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## EVAPCO-BLCT...Air Cooled Condensers, Hybrid Cooling Systems and Services

Visit EVAPCO-BLCT Website at: [www.evapco-blct.com](http://www.evapco-blct.com)