

# EVAPCO DRY COOLING

## Aftermarket Parts and Services for Air Cooled Condensers



DRY COOLING TECHNOLOGY

# Performance & Reliability

EVAPCO Dry Cooling has industry experts on staff and works with innovative equipment suppliers to engineer options to optimize Air Cooled Condenser (ACC) performance and reliability. The most commonly reported issue by ACC users are leaking gearboxes which leads to failed gears due to lack of lubrication, environmental pollution, and increased demands on maintenance personnel. Significant leaks can lead to oil impingement on the heat exchanger surface and a decrease in ACC performance.

EVAPCO Dry Cooling is working with an industry leading supplier of gearboxes to replace legacy design equipment with new, more reliable, and more cost effective solutions.

## DRY WELL GEARBOXES

- Guaranteed leak free
- Lower cost than OEM replacements/ refurbishments
- Strong installed references
- Engineered and turn-key replacement available from EVAPCO for existing gearboxes
- Structural Vibration Analysis performed to ensure maximum long-term reliability



EVAPCO Dry Cooling has extensive experience working with Fiberglass Reinforced Plastic (FRP) and aluminum ACC fan assemblies. EVAPCO Dry Cooling can support ACC users in maximizing the performance of their existing fan assemblies through engineering optimization services.

EVAPCO Dry Cooling works with industry leading fan suppliers to provide retrofit and replacements for legacy fan blade designs with the newest, most efficient, and reliable fans on the market today.



## AIRFLOW & FAN PERFORMANCE

- Optimization of existing fan installations through engineering services to maximize airflow and ACC performance during critical operating periods.
- Replacements of legacy fan assemblies with advanced blade profiles to:
  1. Increase efficiency by improving the maximum achievable airflow (minimize backpressure) and reducing auxiliary power consumption.
  2. Improve reliability by using the most advanced manufacturing techniques (FRP infusion vacuum bagging) and improved blade balancing and hub designs.
  3. Provide improved lead times and reduced cost.

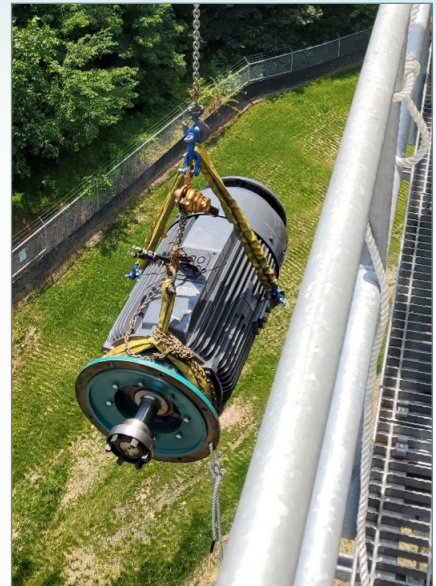
# ACC Maintenance & Service

EVAPCO Dry Cooling provides a single point of contact for all ACC user's maintenance and service needs to simplify the task of maintaining and operating an ACC.

The team includes experienced OEM field engineers and highly trained laborers from across the country to perform routine and unscheduled ACC maintenance. Take comfort that the crews maintaining your ACC know what to look for and how to properly care for FRP and aluminum fan blades, gearboxes, and other vital ACC equipment.

## FIELD SERVICES

- Fan blade manufacturer required maintenance:
  1. Bolt torque verifications
  2. Blade integrity inspections
- Major mechanical equipment service and replacement:
  1. Gearbox removal/replacement and refurbishment
  2. Motor removal/replacement and refurbishment
  3. Fan blade replacement
- Performance monitoring and improvement:
  1. Performance inspections (thermal imaging, airflow measurement, mechanical integrity assessment)
  2. Performance improvement studies



## LONG-TERM SERVICE AGREEMENTS

EVAPCO Dry Cooling provides solutions to fully outsource ACC preventative maintenance to a qualified OEM to reduce the demand on plant personnel and ensure the ACC receives all required and recommended service on time, every time. Single-year or cost-effective, multi-year contracts provide operators peace of mind.

An ACC preventative maintenance schedule can be customized based on installed equipment and can be performed annually or biannually during spring and fall outage windows.

1. Flow accelerated corrosion monitoring
2. Gearboxes & motors (vibration, oil analysis, oil changes)
3. Vacuum system maintenance & troubleshooting
4. Drain & condensate pump maintenance
5. Rupture disk inspection/replacement
6. Thermal performance testing & modeling
7. Heat exchanger inspection and cleaning
8. Fan assembly and VFD maintenance



## SPARE PARTS

EVAPCO Dry Cooling is a global supplier of new ACCs and can leverage these strong working relationships with OEM suppliers of fans, gearboxes, motors, vacuum systems, and more to provide the most competitive pricing on spare equipment, refurbishments, or parts. Allow us to provide a hassle-free quote for your next project.



# WORLDWIDE MANUFACTURING FACILITIES



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