



**Your single source solution for
aftermarket service ... wet or dry**

Lifetime Support



The Aftermarket Services Division of GEA Power Cooling, Inc. provides an extensive range of replacement products and aftermarket services for any existing wet or dry cooling installation. Aftermarket Services, with headquarters in Clearwater, Florida, is dedicated exclusively to supporting customers after the sale. At GEA, customers come first ... always!

From inspection and preventive maintenance to upgrades, extension cells and replacement parts for any brand of Cooling Tower, Air Cooled Condenser (ACC) or Parallel Condensing System (PAC), you can trust the Aftermarket Services Division of GEA to maximize performance and minimize costs.

GEA has supported the power and process industries for more than 80 years and takes great pride in the quality of its technical field engineering services for on-site operator training, start-up and commissioning assistance. The Aftermarket Services Division is known for superior quality, exceptional service support and dedication to its customers. With experienced construction superintendents and exceptional safety programs, GEA's safety record is outstanding.

Choose GEA for high quality replacement parts and attentive, knowledgeable after-the-sale service and support for:

Wet Cooling Systems

- Counterflow Cooling Towers
- Crossflow Cooling Towers
- Plume Abated Cooling Towers

Dry Cooling Systems

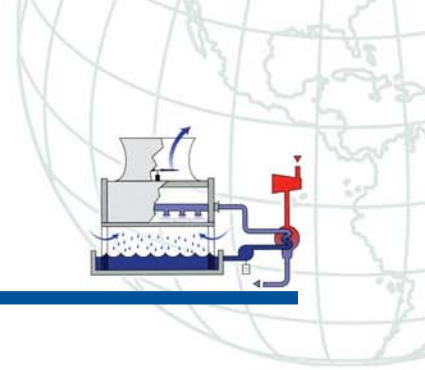
- Air Cooled Condenser (ACC)
- Parallel Condensing Systems (PAC Systems®)

Specialty Products

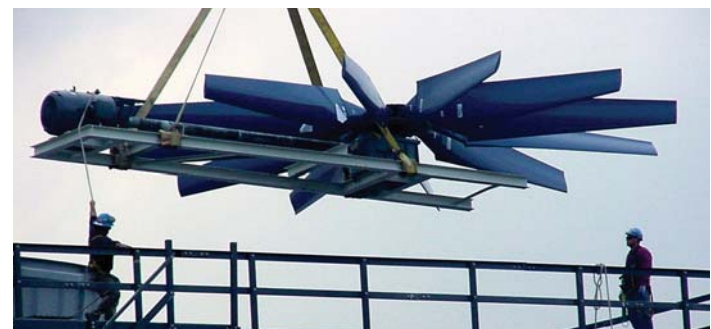
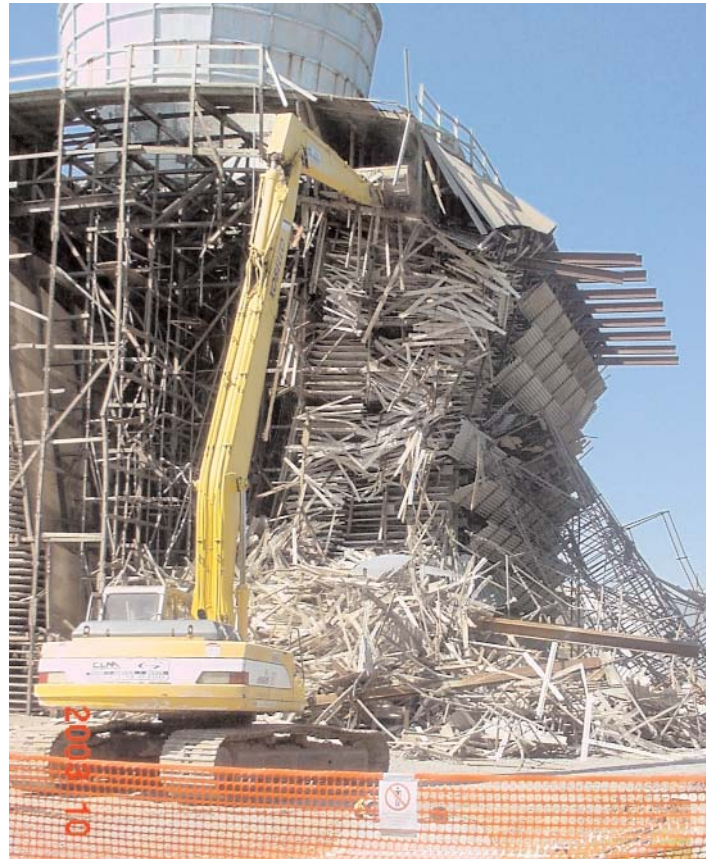
- Recuperators
- Rotor Air Coolers



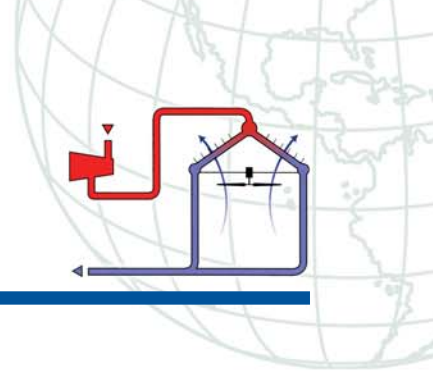
Wet Cooling Service and Support



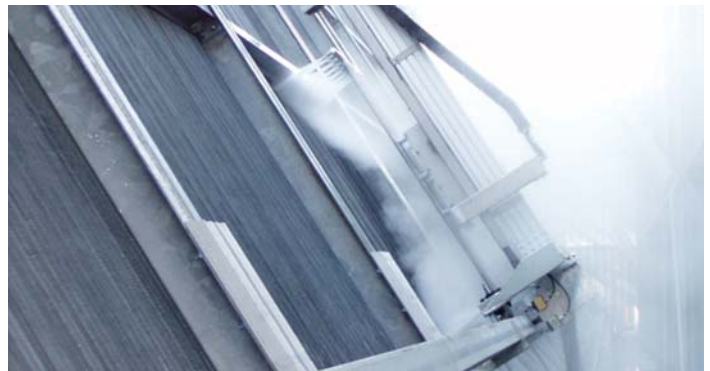
- Inspection Services – Early identification of risk is the key to preventing catastrophic structural failure and early detection of potential weaknesses can save overall costs and reduce downtime.
- Replacement Towers – GEA offers a full line of state-of-the-art wet cooling solutions to replace worn out heat rejection systems. GEA’s modular configurations oftentimes facilitate replacement directly on existing pads, providing efficiency and performance improvements at reasonable cost. When it is time for replacement or major refurbishment of wood towers, GEA can cost-effectively convert them to FRP.
- Upgrades – While a cooling tower may not yet be at the point where replacement is necessary, the advanced age of structural or internal components in your cooling tower can hinder performance. Using the latest technology, highly skilled GEA engineers can extend the life and enhance the performance of existing cooling towers.
- Extension Cells – Plant expansions invariably change operating conditions as well as the need for cooling capacity. GEA can provide that extra cooling capacity by adding to your existing cooling system.
- Conversion to Variable Frequency Drives (VFDs) – The efficiency of some cooling systems can be limited by the single or double speed fan motor control that was originally installed. GEA can extend the range of performance by converting to a more precise variable speed fan motor control to optimize operation.



Dry Cooling Service and Support



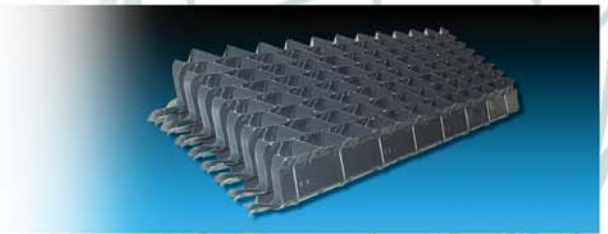
- ACC Expansion – For certain sites where operating conditions have changed, GEA can engineer and install additional dry-cooling capacity using the same or new Air Cooled Condenser (ACC) cell configurations for improved performance of the steam turbine.
- PAC System® Retrofit – To increase steam condensing capacity, GEA will often recommend the addition of either dry-cooled capacity to an existing water-cooled plant, or the addition of wet cooling capacity to an existing air cooled plant. GEA can complete a retrofit using a Parallel Condensing System (PAC) to satisfy your cooling requirements.
- Inlet Pre-Humidification System (IPS) – The addition of a misting or fogging system to an Air Cooled Condenser (ACC) or Air Fluid Cooler (AFC) can pre-cool the ambient air in hot climates or summer conditions, which increases the condensing capacity of the unit.
- Windscreens – To compensate for high wind speeds and gusts, GEA can engineer and install fabric panels of varying porosity and associated fasteners beneath the ACC unit to reduce the negative performance impact.
- Fin-Tube Cleaning System Options – Semi-automatic external fin-tube washing systems are available for permanent installation on Air Cooled Condenser units or GEA can provide temporary cleaning services of the ACC, both of which will result in full thermal performance recovery of the installed capacity.
- Online Monitoring System – This feature provides the capability for both GEA and the customer to analyze and evaluate the performance and operation of the Air Cooled Condenser unit from remote locations. An issue can be detected without traveling to the job site, reducing the time to diagnose and resolve a problem.



Prevention and Response – Wet or Dry

Don't settle for ordinary service. Expect much more. GEA Power Cooling's Aftermarket Services Division provides a multitude of services that include:

- Preventive Maintenance – GEA is committed to maintaining wet and dry cooling systems to ensure customer satisfaction. Developing and implementing an effective preventive maintenance program helps to extend the life of your cooling system. Tap into GEA's experience to keep your system at peak operating efficiency with GEA service agreements.
- Repairs – As part of GEA's commitment to total customer satisfaction, repair service is available for any type or brand of cooling system, using only the highest quality spare parts and well trained, experienced technicians to troubleshoot and resolve any repair issues.
- Spare Parts – Customers receive the replacement parts needed regardless of the original manufacturer. GEA offers very competitive prices and quick delivery to minimize downtime. Regardless of the name on the label, call GEA Aftermarket Services.
- Control Logic Upgrade – GEA's team of engineering specialists can modify the initial or existing Control Logic incorporated into the plant's distributed control system in order to improve the operation of the unit.
- On-site Services – GEA Aftermarket Services provides qualified assistance and support for start-up and commissioning of wet and dry cooling systems. On-site operator training is available to ensure that your personnel have the inside knowledge needed to operate and maintain your heat rejection system safely and effectively.



Worldwide Customer Support

The GEA Group is a leading global technology group with more than 250 companies operating in approximately 50 countries. GEA stands for Global Engineering Alliance. Our core competencies are specialty mechanical engineering and plant engineering. In 90 percent of our businesses we rank among the worldwide market and technology leaders.



GEA Power Cooling is recognized as an industry leader worldwide for both wet and dry cooling solutions. Backed by the strength of this resourceful, engineering solutions group with highly skilled and quality-focused staff, GEA Power Cooling, Inc. is well recognized for:

- Technical engineering excellence
- Cost-effective solutions
- Product quality
- Unequaled customer service satisfaction
- Complete cooling solutions, including installation

GEA Aftermarket Services is global, with offices located throughout the United States and worldwide.

- **Aftermarket Services Headquarters**

Clearwater, Florida
phone: 727-530-9000
fax: 727-530-9006
email: aftermarket@geapowercooling.com

- **Parts Sales**

Clearwater, Florida
phone: 727-539-8528
fax: 727-530-9006

- **Eastern Region Sales**

phone: 864-338-0079
fax: 864-338-3936

- **Gulf Coast Region Sales**

phone: 281-335-3979
fax: 281-335-3980

- **Western Region Sales**

phone: 209-357-5511
fax: 209-357-1344

If you are located outside of the U.S.:

1. Call 727-530-9000 or
2. Email aftermarket@geapowercooling.com

You will be put in touch with the proper office for your service needs.

www.geapowercooling.com



Thermal Engineering
GEA Power Cooling, Inc.

Aftermarket Services
17755 U.S. Highway 19 North, Suite 250
Clearwater, FL 33764-6588
Phone: 727-530-9000, Fax: 727-530-9006
Email: aftermarket@geapowercooling.com

Thermal Engineering
GEA Power Cooling, Inc.

Headquarters
143 Union Blvd., Suite 400
Lakewood, CO 80228
Phone: 303-987-0123, Fax: 303-987-0101
Email: general@geapowercooling.com