

# Process Cooling Equipment Heat Treating Applications

*Thermal Care is a leading manufacturer of industrial process cooling equipment for the Heat Treating Industry since 1969. Our diverse line of cooling equipment includes refrigerated industrial portable and central chillers, evaporative cooling towers, adiabatic fluid coolers as well as a full line of custom tank systems that can be equipped with plate and frame heat exchangers to isolate your quenchant from the coolant. Count on Thermal Care to understand your process and provide you with effective and cost efficient solutions.*



## Typical Applications:

- Batch Furnaces
- Casting Units
- Continuous Quench
- Drop Bottom Furnaces
- Forging
- Induction Units
- Quench Tanks
- Vacuum Furnace Gas Quench
- Vacuum Pumps

# Which type of cooling equipment is correct for your application?

Does your process require chilled water or would an evaporative tower or an adiabatic system work best? Thermal Care has an experienced sales and engineering team to guide you through the process so that you can make the best decision for your process.

## Fluid Coolers 50 to 500 tons

With growing concerns for the scarcity of water, Thermal Care HFCG Series units provide the optimal process cooling option to maintain peak efficiency while reducing water consumption up to 80%. Units are typically designed for radiant cooling of the **process fluid to approximately 10°F above the ambient** air temperature. An **optional adiabatic cooling package** uses a small amount of evaporation to produce **process fluid temperatures of 90°F to 95°F** even on the hottest of days.



## Cooling Towers 38 to 240 tons

Fiberglass cooling towers from Thermal Care are designed for years of dependable outdoor use. Units are made of totally corrosion resistant material and come with a 10 year warranty on the shell. Premium TEAO direct drive fan motors come with permanently lubricated motor bearings that can **deliver process coolant water of 85°F**.

## Refrigerated Glycol Chillers Air-Cooled, Water-Cooled 1 ton to 240 tons

Thermal Care chillers are available in packaged portable and central systems. Units feature the best available technology and components such as R407C and R410A ozone friendly refrigerant designs, efficient scroll compressors, micro-channel condensers, low noise fans, stainless steel brazed plate evaporators, and sophisticated controls for the ultimate performance and reliability. Our chillers **deliver temperatures between 20°F and 80°F** and are the perfect solution for applications that require **process fluid temperatures below 85°F**.



## Pump Reservoir Closed Loop Systems 250 to 6,000 gallons



Thermal Care offers an extensive line of pre-engineered systems for air-to-water heat exchanger or cooling tower applications. Our reservoirs come in stainless steel or fiberglass with a powerful PLC control system for single point operation of chilling and towers systems. **A heat exchanger is available for a closed loop system to isolate the quenchant from the coolant** to reduce operating and maintenance costs. Outdoor duty systems are also available.



# THERMAL CARE

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**Thermal Care is ISO 9001 Certified**  
*Manufacturer reserves the right to change specifications or design without notice or obligation.*