



Fiberglass Cooling Towers

Available in sizes
from 100 to 240 tons.



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FC Series 700
Fiberglass Cooling Tower
Available in sizes from 170 to 240 tons.

FC Series fiberglass cooling towers come with the industry's best warranty.

Every FC Series Tower comes standard with a full 5-year warranty on the complete tower—including the motor and motor supports. The durable FRP shell comes standard with a 10-year warranty.

No other cooling tower manufacturer offers as much protection.

No other fiberglass cooling tower comes with as many high-quality standard features.

- **Constructed totally of corrosion-resistant materials.**
Everything about this tower is corrosion-resistant — even the motor supports and structural fill supports.
- **Extra protection for motor and motor windings.**
For maximum protection against moisture—exterior has double baked finish, bearings are permanently lubricated and packing enclosure comes with extra grease.
- **Full 5-year warranty on entire tower — 10-year warranty on shell.**
High-quality materials and construction allow full warranty coverage of all tower components —including the fan motor.
- **Large, non-clogging ABS nozzles.**
PVC distribution system includes large orifice nozzles that efficiently and uniformly distribute water across all fill surfaces.
- **Efficient counter flow design.**
Adjustable-pitch fan blades pull air up through tower, across fill surfaces, while water flows down through non-degradable PVC fill — outperforming cross flow towers.
- **Durable, FRP exterior tower shell.**
Entire UV-stabilized tower shell comes with a 10-year warranty and is designed to withstand high wind loads and Seismic 4 forces.
- **Leak-proof, one-piece basin.**
Installation is fast, easy and inexpensive. Units can be mounted on two I-beams or optional structural steel base.
- **Integral inlet louver system.**
Air inlet openings are covered with louvers made of durable PVC that are designed to eliminate possible back splash. Removable to allow full access to basin.
- **Smooth exterior surface.**
Flat exterior surfaces will not collect grime or dirt like towers made from male-type molds.
- **No-maintenance motor bearings.**
Hostile-duty, TEAO fan motors come with double-sealed, permanently-lubricated bearings that require no maintenance.
- **Shipped fully assembled.**
No on-site construction or fabrication as entire tower is delivered in one piece. Fan and motor are shipped loose to prevent possible shipping damage.

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Fan/motor assembly comes
with many features:

- Hostile-duty TEAO fan motor with permanently-lubricated motor bearings
- Aluminum/silicon alloy fan hubs
- Stainless steel motor support
- Adjustable-pitch, reinforced polypropylene fan blades
- Optional stainless steel fan guard



Towers come with
high-quality components:

- 1) Stainless steel fasteners
- 2) FRP shell with UV inhibitors and 10-year warranty
- 3) Pultruded FRP fill and drift eliminator supports
- 4) Access door to tower interior
- 5) PVC fill, drift eliminators and inlet louvers
- 6) ABS non-clogging water nozzles (not visible)
- 7) Schedule 40 PVC water distribution system
- 8) Optional inlet and outlet flanges

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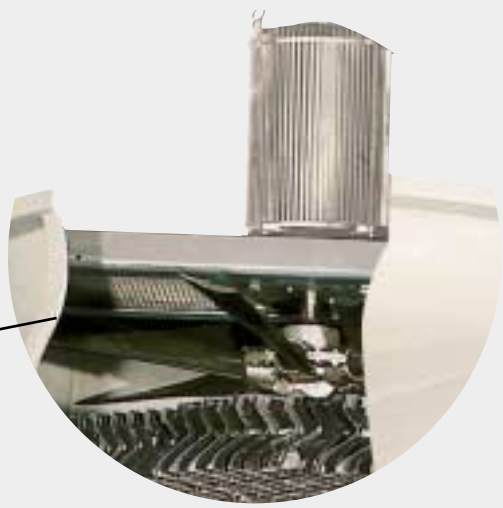
Exceptional performance
Remarkable features
Totally corrosion-resistant



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FC Series 600
Fiberglass Cooling Tower
Available in sizes from 100 to 140 tons.

Towers come with high-quality components:

- 1) Stainless steel fasteners
- 2) FRP shell with UV inhibitors and 10-year warranty
- 3) Pultruded FRP fill and drift eliminator supports (not visible)
- 4) Access door to tower interior
- 5) PVC fill, drift eliminators and inlet louvers
- 6) Optional inlet and outlet flanges



Fan/motor assembly comes with many features:

- Hostile-duty TEAO fan motor with permanently-lubricated motor bearings
- Aluminum/silicon alloy fan hubs
- Stainless steel motor support
- Adjustable-pitch, reinforced polypropylene fan blades
- Optional stainless steel fan guard



Towers are built using totally nonferrous materials

- Schedule 40 PVC water distribution system
- ABS non-clogging water nozzles
- Fill material is made of durable, non-degradable PVC

Improve cooling tower system performance with optional features.

Choose any of these pre-engineered options, designed to work exclusively with any Thermal Care FC Series cooling tower.

- **Fan guard**
Provides protection from items entering the fan assembly area, such as birds, branches or rocks.
- **Structural steel base**
A pre-assembled, painted steel base makes tower installation quick and easy. Designed to be mounted on four support points and comes with legs up to 20 feet long and appropriate cross bracing.
- **NEMA 3R thermostat**
Saves energy and provides stable supply water temperature by shutting off power to fan motor when water in basin drops below a set temperature.
- **Water make-up float valve assembly**
Used in applications where a tower basin acts as an integral reservoir. Float valve assembly monitors water level in basin, adding water when necessary to maintain a consistent level for maximum system performance.
- **Basin heater package**
Prevents water in basin from freezing in applications where basin is used as a reservoir. Includes electric immersion heaters, float switch and thermostat.
- **Equalization connection**
Creates a system reservoir by connecting several tower basins. Piping equalizes basin water levels by letting cooled water flow between basins.

Fiberglass towers are friendlier for the environment!

Corrosion and scale have always been problematic in evaporative cooling systems. Heavy metals and acid feeds used to control pH levels in cooling water can potentially damage system equipment or result in environmentally unacceptable discharge levels.

Newer organic inhibitors work effectively at higher pH levels but can also produce "white rust" when zinc leaches out of galvanized metal components that come in contact with cooling system water. Although effective metal passivation procedures do exist, the best solution is to take galvanized metals out of the system.

An FC Series fiberglass tower from Thermal Care is an ideal and cost-efficient alternative for your application!

Thermal Care FC Series Towers

Just one part of a reliable
process cooling system

Let Thermal Care, Inc. assess your process cooling requirements and design a customized system that meets all your cooling needs. Complete cooling systems can incorporate PLCs to provide extremely accurate temperature control and equipment diagnostics — even allowing them to be accessed by modem for a quick evaluation of system problems.

Thermal Care works with you at every step of the process from manufacturing and installation, through start-up and long-term equipment maintenance. Outstanding service and parts support after the system is operational completes our total customer support program.



Central Chillers

Water-cooled and remote condenser units are available in screw, scroll, or disc compressors. Standard features include a NEMA 4 control panel with PLC control, totally independent refrigeration circuits, and advanced electronic safeties.



Pump/Reservoir Systems

Every pump/reservoir is custom engineered for each tower or chiller application. Standard features include a NEMA 4 control panel and controller with dual digital display, alarm horn, high temperature alarm, non-overloading pumps and solid deck. Reservoirs are available in fiberglass, steel, or stainless steel in capacities up to 6000 gallons.



Water Treatment Systems and Filtration Equipment

TWC Series computer-controlled treatment systems incorporate all necessary facets of a cooling tower treatment system on a single, space-saving panel. System information is displayed on a LCD screen.

Strainer filters, sand media filters and bag filters remove suspended solids from both cooling tower and chilled water systems.

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