

CUSTOMER  
SPECIFIC  
ENGINEERING

## Fiberglass Cooling Towers deliver long life with minimum maintenance!

Berg's line of cooling towers are manufactured of extra thick fiberglass and premium quality components to provide years of trouble-free, low maintenance performance. They feature a host of standard features and are supplied fully assembled on a structural steel integral base for easier installation and hook-up.

### Features and benefits include:

- Low cost energy usage & installation.
- All towers shipped fully assembled, ready to install.
- Structural steel base standard.
- Fiberglass reinforced polyester castings and water basins have UV-inhibitor in gel coat to eliminate fiberglass deterioration and pigment fade.
- High efficiency P.V.C. fill.  
Standard NEMA frame T.E.F.C motors. No belt or gear reducers, low horsepowers.
- Quiet, efficient, low-speed propeller fans.
- Stainless steel internal framing and hardware.
- One piece water distributor, no moving parts, non-clogging design.
- P.V.C. Drift eliminators.
- Non-ferrous inlet baffles.
- Color choices - optional.



**BERG**  
Chilling Systems Inc.

ISO 9001:2000 Certified

**'GLOBAL COOLING'**



## STANDARD FEATURES

### Unitary Construction

Berg towers are shipped from the factory fully assembled on a structural steel integral base ready for installation and hook-up.

### Shell and Basin

The Fiberglass Reinforced Polyester (FRP) shell and basin is constructed of chopped glass/resin spray-up using commercial grade type "E" glass fiber, with a isophthalic polyester coupling agent. The outer layer is a 15 to 20 mil thick gel coat compounded with ultra-violet inhibitors.

### Support Base

Towers are supplied with a structural steel support base, primed and painted. Internal Framing All internal tower supports, fan motor bases, and hardware are constructed of series 304 stainless steel for long life and low maintenance.

### Fill/Wet Deck

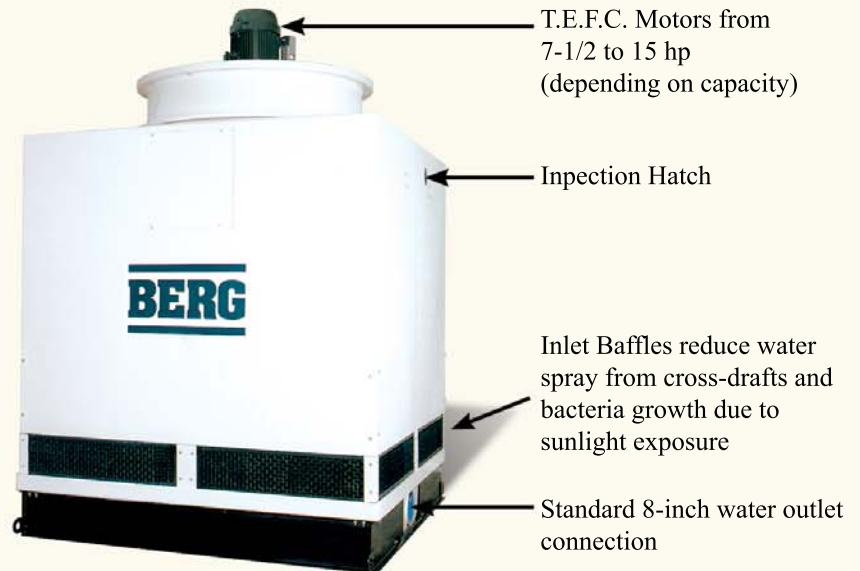
Manufactured from rigid polyvinylchloride (PVC) developed especially for cooling tower applications where the continuous operating water temperature is 130 degrees or less.

### Drift Eliminators

The eliminators are waveform, three pass type constructed of rigid PVC with UV inhibitors. Drift loss percentage is no greater than .002% of the design gpm.

### Water Distribution System

The distribution system is constructed of PVC pipe and connections and has no moving parts for maximum reliability. The nozzle features a non-clog design.



### High Efficiency Fans

Rated in accordance with CTI standards



### Structural Steel Support Base Standard



### Fan Motor

Available 7-1/2 hp to 15 hp based on capacity. All fan motors are NEMA approved design B, class F insulation, 40°C rise, 1.15 service factor, TEFC type rated for continuous duty at the horsepower required to produce the design water cooling capacity. The motors are single speed, single winding, 230/460/575 volt, 3 phase, 60 hertz, direct drive, and carry a five (5) year manufacturer's warranty.

### Fans

The fan assembly is designed and rated in accordance with CTI standards to provide

maximum efficiency. The fan is a fixed pitch, multi-bladed design.

### Basin Baffles

Towers are supplied with basin baffles to increase tower efficiency and minimize water carry-over during windy conditions.

### Warranty

The shell, base, screen/louvers, internal supports, motor, fan and thermal performance carry a limited guarantee for a period to two (2) years from date of shipment.

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