



CTS-CL SERIES CLOSED-LOOP COOLING TOWER SYSTEM



PREMIUM SYSTEM PROTECTION

Custom-engineered for each application, Cooling Technology's CTS-CL Series Closed-Loop Cooling Tower System is far and away the safest method of process cooling. Because the CTS-CL Series completely isolates process water from the tower water, process equipment is completely protected from contamination.

Like our CTS Series Cooling Systems, the CTS-CL Series consists of our PCT, NCT, or ACT Series Cooling Tower Cell along with our WT Series Pump/Tank Station and all the necessary piping and controls. Additionally, the CTS-CL incorporates a plate and frame heat exchanger—a device that transfers heat energy from one fluid to another fluid without mixing the two.

Although the CTS-CL requires a greater initial investment than traditional cooling tower systems, up to 30% lower energy costs means lower total cost of ownership.

FEATURES

- Induced draft, cross flow type **Cooling Tower Cell** that is factory assembled and typically designed to cool 3 gpm of water per ton from 95°F to 85°F at the prevailing summer wet bulb conditions.
- An **integrated fan cylinder** and **distribution basin** on the top and a single piece collection basin on the bottom. Both are constructed of industrial grade rotomolded polyethylene.
- **Pump/tank station** has fully trimmed process pump and can also include a tower water recirculation pump. The tank is constructed of carbon or stainless steel and includes cover, site glass, drain and overflow.
- NEMA rated **electrical control panel** mounted on the pump /tank that contains all fuses, overloads, contactors, switches and lights.
- **Electronic temperature controller** controls the fan motor to maintain water temperatures.
- A high efficiency **plate and frame heat exchanger** creates separate water loops for "dirty" tower water and "clean" process water. The unit has Type 304 stainless steel plates. The single-pass flow design offers excellent heat transfer with a low-pressure drop. When the frame compression bolts are removed, the end frame slides away for easy inspection and cleaning.

OPTIONS

- Common standby or individual standby pumps.
- Type 304 stainless steel tank.
- Temperature, pressure, flow and water level alarms.
- Tower supports, hand rail & ladder.
- SGF Series Sand and Gravel Filter.

TYPICAL LAYOUT

