

Cooling Tower Control Panels

Heatrex offers a pre-engineered, UL Listed/CSA Approved package for freeze protecting cooling tower basins.

The complete package includes:

- Electric Immersion Heater(s)
- Control Panel with Solid-State Printed Circuit Board
- Sensor Probe with Cord
- Wiring Diagram
- Installation and Operating Instructions

Heatrex offers the following options:

- Disconnect Switch
- Fuses
- Circuit Breaker



Heatrex Heater Control Panels offer these advantages:

Solid-State Control

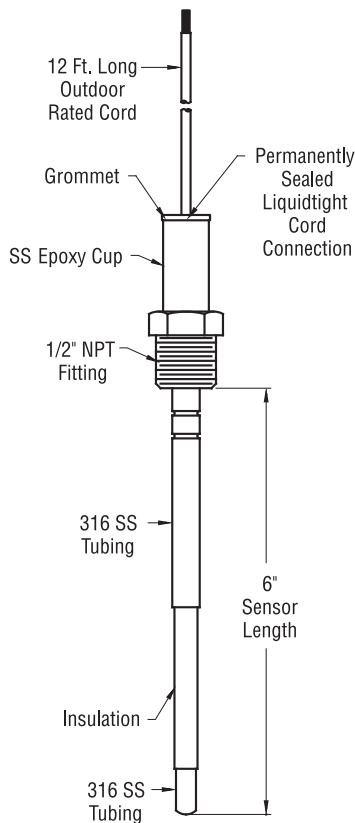
Outmoded bulb and capillary control has been replaced with new patented solid-state technology which combines temperature control with low water level protection in a single solid-state device.

NEMA 4X Enclosure

All controls are factory wired inside a rugged NEMA 4X enclosure designed for wet, outdoor use. Pre-engineered designs up to 96 amps are available with stock and built-to-order listings.

Lower Cost

Installation time and cost are reduced by replacing individually mounted temperature and liquid level control devices with one pre-engineered and assembled control package that requires only one probe to sense both water temperature and level.



Sensor Probe Specifications:

- Sensor Probe: Heatrex probe assembly incorporating both temperature and liquid level sensors. Probe is made out of 316 stainless steel to minimize corrosion. Probe can be installed vertically or horizontally.
- Maximum Pressure Rating for Sensor Probe: 15 psi
- Cord: 12-foot outdoor rated cord with PVC hub connector for installation through tower basin wall. Options include different cord lengths or cord suitable for total immersion.

Cooling Tower Control Panel Specifications:

- Solid-State Control: Pre-set 45° F ON/OFF temperature control with 5° F switching differential and built-in low water cutoff. Circuit board LED's provide visual indication of heater-on and liquid level status.
- Ambient Temperature Range: -40° F to 150° F
- Fail Safe: Output relay is de-energized if the input sensor is either open or short-circuited. This prevents heater burn-out problems.
- NEMA 4X enclosure with pre-mounted electrical hubs for conduit connections.
- Single probe to sense both water temperature and water level. Sensor probe supplied with 12-foot outdoor rated cord pre-connected to control panel. Probe also supplied with PVC hub connector for attachments through cooling tower basin wall.
- Nameplate showing maximum KW and amp ratings at system volts/phase.
- System Wiring Diagram.
- Installation and Operating Instructions.
- Rated for maximum of 40 amps or 50 amps with disconnect switch when specified.
- Suitable for multiple heaters per basin (maximum of 2 on 40 amp panel).
- Disconnect switch with door interlock and operator handle, which can be padlocked in the "OFF" position.
- Dimensions: 8" x 10" x 6" for 40 amp size
10" x 12" x 7" for 50 amp size
14" x 16" x 8" for two circuits
- Control panels rated greater than 50 amps are supplied with two circuits and offered either with built-in fusing or a circuit breaker for each circuit.