



# TCO SERIES TEMPERATURE CONTROLLERS

*High-Temperature Control System, from 400°F to 550°F*

TCO



## HIGH-QUALITY HIGH-TEMPERATURE CONTROL FOR INJECTION MOLDING

Cooling Technology's TCO Series oil temperature controller is a single zone oil circulating high temperature control system with heating and cooling capabilities that is suitable for standard operation to 400°F (205°C) with optional capabilities to 550°F.

Our use of the highest quality components and a robust design assures a dependable, long lasting, trouble free machine. All components easily accessible for servicing when necessary.

## GREATER CAPACITY

A standard 12kW flanged heater is twice as large as many of the heaters available. With the 3.7 square foot exchanger, the TCO Series also features greater cooling capacity

## FEATURES

- Convenient upright design
- Attractive, heavy gauge sheet metal cabinet
- Industrial grade casters
- Recessed controls to protect components
- Highly visible system status indicators
- 1" NPT process and return connections
- 3/4" NPT water supply and drain connections
- 5.5 gallon, baffled expansion/reservoir tank
- Y-strainer on return line to keep fluid clean
- Heavy duty positive displacement pump
- Mechanical pump seals
- Flow rates of 10 ~ 24gpm @ 30 ~ 50psi
- Low watt density, steel sheath heater element
- Shell & tube type heat exchanger for cooling
- Mercury heating contactor
- Process system pressure gauge
- Full flow bypass valve
- Fused motor and heater protection
- Fused transformer protection
- IEC motor starter
- Motor overload protection

## CONTROLS & SAFETIES

- High temperature safety thermostat
- Pressure relief valve on heat exchanger
- NEMA 1 electrical specifications
- NEC electrical code conformance
- UL listed electrical components
- Digital, microprocessor based, PID control
- Auto-tune feature
- Bright, easy-to-read LED display
- Approach control of set-point
- Set-point "deviation" indication
- Lockout feature
- Fault indication for sensor failure
- Plug-in, interchangeable control outputs

## OPTIONS

- Heating or cooling only functions
- Increased cooling capacities
- Increased pumping capacities
- RS-485 communications
- Pump Reverse
- Audible or visual alarms