



HEAT & COOL

TCO SERIES HOT OIL TEMPERATURE CONTROL UNITS



Precise Temperature Control, Rugged Design

Engineered To Withstand the Rigors Of High-Temperature Heat Transfer

100°-550°F Operating Range

Immersion-Style Heaters

TrueTemp TCO Series Hot Oil Temperature Control Units from AEC provide highly accurate control for production applications requiring a continuous supply of high-temperature-controlled fluids.

A DIN-style, auto-tuning PID fuzzy logic controller monitors process temperature to cycle the heating/cooling process. This off-the-shelf controller ensures precise adherence to programmed temperature setpoints and carries a five-year warranty.

Units are available in 12kW, 18kW or 24kW configurations. Each provides consistent and reliable heating up to 550°F. To reduce energy consumption, a half heat/full heat feature is incorporated into the control circuit.

TrueTemp TCO Series Hot Oil Temperature Control Units feature an optional closed circuit heat exchanger for cooling in capacities from 3.9 to 6.7 sq. ft. The "U" type heat exchanger design offers superior heat transfer and is highly resistant to thermal stress when cooling water enters the system. Changeable and replaceable tube bundles help to minimize maintenance.

STANDARD FEATURES

- Simplified internal design to deliver more efficient heat transfer
- An off-the-shelf, DIN-style, auto-tuning PID fuzzy logic controller
- High-flow pumps with 18 gpm to 24 gpm capacities
- Easy-access cabinet design
- Compact footprint: 18 1/4" W x 42" D x 46" H



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Optional advanced controller

TRUETEMP TCO SERIES

- Vertically mounted pump available in 1 and 2 Hp
- Immersion-style heaters
- Half heat or full heat capability for tighter temperature control
- Easily removable side panels allow quick access to internal components
- Oil pressure switch
- Non-fused, lockable disconnect
- Easy-to-read graphic display control panel

FEATURES

- Premium-efficiency, extended cycle cooling valves
- NEMA 12 electrical cabinet with branch fusing
- To-process pressure gauge
- Independent safety thermostat
- IEC contractors and motor starter
- Controls meet NFPA 70/79 standards

AVAILABLE OPTIONS

- Automatic Auto-Vent Sequence removes air from system to minimize oxidation
- Advanced controller (as shown above)
- Low level alarm
- Manual bypass
- 3.9- or 6.7-square-foot heat exchanger
- NEMA-4/4x enclosure/entire unit
- Drain valve
- Hour meter
- Audible/visual alarms
- Pulse cooling
- Leak detection circuit
- Communications - RS485/SPI, RS232 or 485/GEN
- Multi-port manifold
- Other off-the-shelf DIN PID controllers
- Remote mountable controls
- Lexan® cover



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