



TRUETEMP™ TCU SERIES

WATER TEMPERATURE CONTROL UNITS



Precise Temperature Control In A Rugged, Reliable Design

Innovative Design Promotes Turbulent Water Flow To Maximize Heat Transfer Performance

High Flow Pumps With 32° - 250°F Operating Range

Immersion-Style, Stainless Steel Incoly®-Sheathed Heaters

TrueTemp™ TCU Series Water Temperature Control Units from AEC provide highly accurate control for production applications requiring a continuous supply of temperature-controlled water.

A DIN-style, auto-tuning PID fuzzy logic controller monitors process water temperature to cycle the heating/cooling process. Accurate to within +/-1°F, it ensures precise adherence to programmed temperature setpoints. This off-the-shelf controller carries a five-year warranty.

Compact units are available in 9kW, 12kW, 18kW or 24kW configurations. Upright units are available in 9kW, 12kW, 18kW, 24kW, 36kW or 48kW configurations. These units provide consistent and reliable heating where city, tower or chilled water is too cold for direct process use. To minimize energy consumption, a half heat/full heat is incorporated into the control circuit.

TrueTemp™ TCU Series Water Temperature Control Units are available in either direct injection or closed circuit configurations for controlled cooling. For direct injection cooling, solenoid valves regulate the flow of heated water to the process water stream. Closed circuit configurations cycle heated water through a closed-loop heat exchanger assembly.

- Rugged all-cast design minimizes connection points to increase water circuit integrity
- An off-the-shelf, DIN-style, auto-tuning PID fuzzy logic controller accurate to within +/-1°F
- High-flow pumps with 30gpm to 120 gpm capacities
- Easy-access cabinet design
- Compact—13"W x 27" D x 28 3/4" H
- Upright—13" W x 27" D x 48" H



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MATERIAL HANDLING



HEAT & COOL



BLEND & RECLAIM



GRANULATE



DOWNSTREAM EXTRUSION



AUTOMATE



SYSTEMS CONTRACTING



SERVICE

ENGINEERING TOTAL PROCESS SOLUTIONS WITH INTEGRATED AEC EQUIPMENT

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TRUETEMP™ TCU SERIES

WATER TEMPERATURE CONTROL UNITS



TRUETEMP™ TCU SERIES

- Rugged all-cast design minimizes connection points to increase water circuit integrity
- Vertically mounted pump available in 3/4, 1, 2, 3, 5, 7 1/2, and 10 horsepower (available in upright unit only)
- Immersion-style, stainless steel Incoly®-sheathed heaters
- Half heat or full heat capability for tighter temperature control
- Two-piece cabinet design allows easy access to internal components
- Non-fused, lockable disconnect
- NI resistant pump seal with integral seal flush line
- Easy-to-read graphic display control panel
- Premium-efficiency, extended-cycle cooling valves
- NEMA 12 electrical cabinet with branch fusing
- Liquid-filled gauges indicate To- and From-process water pressure
- Process water bypass line for heater protection
- Water supply pressure switch indicates low system water pressure
- High pressure relief valve
- Independent safety thermostat
- IEC contractors and motor starter
- Controls meet NFPA 70/79 standards



Optional advanced controller

AVAILABLE OPTIONS

- Digital flow meter
- Advanced controller
- Quick-cool capability
- NEMA 4/4x enclosure
- All brass, non ferrous construction
- 300°F operation
- Communications: RS485, RS232
- System water purge capability
- Hammer arrestor
- Remote control/start/stop capability
- Closed loop circuit
- Modulating valve



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