

TDOS SERIES HOT OIL TCU

Compact in size, but big in performance, TDOS hot oil temperature control units provide accurate process temperature control wherever you want it—not wherever it fits. This versatile unit's controls and connections are optimally located for ease of use and hookup.

Standard Features

- Off-the-shelf auto-tune microprocessor-based PID temperature controller with process and set value LED readout
- 2-gallon (8-liter) reservoir
- Check valve on water supply
- IEC contactors
- Compact cabinet with removable panels
- 1.5 sq. ft. water-cooled heat exchanger
- Mechanical seal pump
- 100° to 400°F (204°C) operating temperature
- 6 kW 3-phase heater
- Small footprint: 13 1/2" W, 22" L and 30" H
- 6 gpm flow at 50 psi
- Heavy-duty 3/4 hp positive-displacement pump
- NEMA 1 electrics
- High temperature safety thermostat
- Pump Discharge pressure safety switch
- Pressure actuated bypass
- Reservoir with sight glass
- Independent safety therm with safety contactor

Optional Features

- 3.7 sq. ft. heat exchanger, outside the unit, 1/2" supply connection, 3/4" drain
- Y-strainer on process return
- Pump reverse
- High temperature hose (see next page for details)
- Audible alarm
- Low level alarm
- Manual bypass
- Autovent



Specifications

Model	Pump hp (kW)	Flow, gpm (l pm)	Pressure, psi (kPa, bars)	Dimensions, in. (mm)
TDOS	0.75 (.56)	6 (22.7)	50 (344.8, 3.45)	Height 27 (705)
				Width 13 (330)
				Depth 31 (787)

Because of high temperatures, flash steam may accrue in heat exchangers. Some applications may require the use of a condensate tank. Consult factory for non-matching dual zones with differing flows and pressures.

High Temperature Hose Options

Part Number	Diameter, in.	Length, ft. (m)
572-16969-02	0.75	6 (1.83)
572-16969-12	0.75	10 (3.05)
572-16969-76	1	5 (1.52)
572-16969-08	1	10 (3.05)
572-16969-53	1	15 (4.57)
572-16969-59	1.5	10 (3.05)
572-16969-49	1.5	15 (4.57)

Hose material is Flexonics Series 101 corrugated hose fabricated from carbon steel fittings and stainless steel hose with single braid.