STERLING

Food | Beverage | Pharmaceutical | Medical

Sterlco® TC130 SERIES

Water Temperature Control Unit

Technical Specifications

The Sterlco® TC130 Series is the most advanced Temperature Control Unit (TCU) from Sterling. This latest innovation features multiple options to customize to your application. The unit has a standard operating temperature from 32° F (0°C) up to 250° F (121° C).

The heater capacities range from 9 kW to 48 kW. Pump sizes vary from ¾ hp to 10 hp. Both solenoid and modulating valves are available. The units have two controller choices (TS-5 or M5). The standard operating voltage is 460/3/60, but other voltages are available.

The TC130 & TC131 use Pressure Adaptive Technology which prevents nuisance shutdowns from water pressure drops. Troubleshooting is made easy via USB data logging. All of this comes with the longevity and reliability you've come to expect from Sterling TCUs.

Stainless Steel or Steel Cabinets
NEMA 4X or NEMA 12 Enclosures
Non-Marking Casters or Rubber Feet

Washdown Duty or TEFC Pump Motors
Non-Ferrous (brass) or Malleable Iron Construction
Solid State Relay or IEC Contactors

Features

All units include standard:

- Non-fused lockable rotary disconnect
- Safety thermostat to protect heater overload
- Motor branch circuit protection
- Half- and full-heat selectable capability
- Silicon carbide / carbon pump seal
- Automatic vent sequence
- Quick cool function
- Warranty – 2 year parts, 1 year factory labor, and 3 year controller

Popular options include:

- Audible / Visual alarm
- cULus listed control panel w/serialized label
- Remote control
- Manual bypass, Hammer arrestor or Y-strainer
- Pressure regulator/relief valve
- Auto system water mold purge
- Flow meter
- Cascade control remote probe
- Up to 300°F (149°C) operation
- Closed loop heat exchanger

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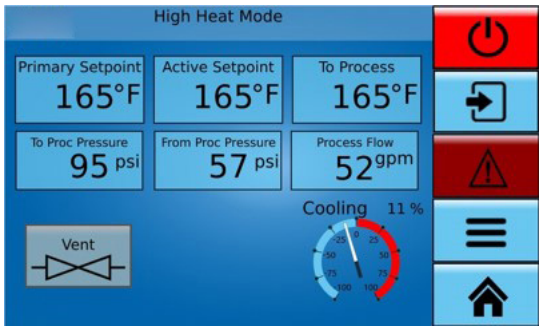
Controls

TS-5 Touch Screen Controller



All units include standard:

- 5" PLC color touch screen
- OPC UA / Euromap 82.1 (Tested w/ Arburg, Milacron)
- Ethernet - Modbus TCP

Options Available:

- Modbus RS-485
- Remote Setpont, Analog Retransmission & Signal Isolator

M5 Advanced Controller

All units include standard:

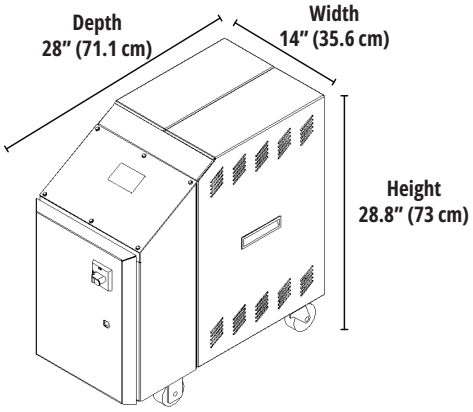
- 3.5" color screen
- Cascade control function

Options Available:

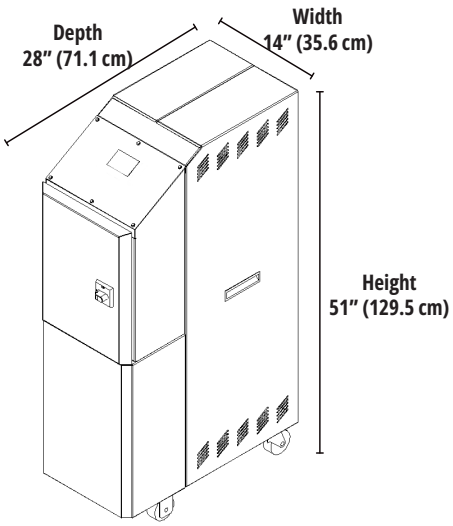
- Modbus RS-485 or SPI RS-485
- Ethernet – Modbus TCP
- Ethernet/IP (A-B)
- Profinet or Profibus
- Remote Setpont, Analog Retransmission & Signal Isolator

Product Diagrams

TC130 Compact



TC131 Upright



Installation

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Rev 06.22.2026