Technical Specifications

The Sterlco® TC110 Series Water Temperature Control Units offer competitive pricing, short lead times, and utilize a simple design to meet basic TCU needs. These simple products provide a leaving water temperature up to 250°F (121°C). The tight temperature control of ±1.5°F (0.8°C) allows for more efficient production through increased temperature consistency and control.

### Standard Features
- 1/16 DIN temperature controller with Process and Setpoint LED readouts
- Graphic control panel with indicator and warning lights
- Compact cabinet with 2” casters
- Immersion heater with IEC contactor
- Integrated motor circuit protector
- 3/4” water supply, 1.5” process connections, valve size matches drain size
- 150 psi (10.3 bar) pressure relief valve
- Independent high temperature safety thermostat
- Adjustable low supply water pressure switch, factory set at 16 psig (1.1 bar)
- 3/4 hp through 7.5 hp cast iron process pumps with SICB/carbon mechanical seals
- Automatic vent sequence

### Optional Features
- 12 kW heater
- 1/2” and 3/4” cooling solenoid valve
- Manual bypass (shipped loose)
- Pressure regulator/relief valve for water supply (shipped loose)
- Pressure gauges (shipped loose)
- Y-strainer (shipped loose)
- Hammer arrestor (shipped loose)
- Auto system water purge (mold purge) (shipped loose)
- Ten foot power cord; no plug (shipped loose)
- Rubber feet (shipped loose)

### Availability
- Large quick ship inventory
- Options available with quick ship units
- 2 day turnaround for majority of product offering

### Value
- High quality at a low cost
- Durable, proven design
- Budget conscious, basic needs TCU

### Serviceability
- Simple, quick access design
- Open access to components
- Easily removable side panels
- Industry standard controller
Pump Curves

Charts show flows and pressures that are available for the standard pump options. Custom pumps available upon request.

<table>
<thead>
<tr>
<th>Pump HP (kW)</th>
<th>Flow GPM (LPM)</th>
<th>Pressure PSIG (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75 (.56)</td>
<td>30 (114)</td>
<td>25 (1.72)</td>
</tr>
<tr>
<td>1.0 (0.75)</td>
<td>35 (133)</td>
<td>30 (2.07)</td>
</tr>
<tr>
<td>2.0 (1.5)</td>
<td>50 (189)</td>
<td>30 (2.07)</td>
</tr>
<tr>
<td>3.0 (2.24)</td>
<td>60 (227)</td>
<td>40 (2.76)</td>
</tr>
<tr>
<td>5.0 (3.76)</td>
<td>75 (284)</td>
<td>54 (3.72)</td>
</tr>
<tr>
<td>7.5 (5.6)</td>
<td>90 (341)</td>
<td>63 (4.34)</td>
</tr>
</tbody>
</table>