

Temperature Control Unit for Adhesive and Sealant Materials



Heat-Cool Material Temperature Control Unit
integrated with and mounted below the
Meter/Temperature Control Panel

Product Features:

- Integrated with Meter Control Panel
- Indicating Material Temperature
- Closed-Loop Water Circulator
- Polyethylene Circulation Tank
- Small Footprint Frame Mount
- Water Over-Under Temp Protection
- Sight Glass Level Indication
- Low Water Switch
- NEMA 12 Control Panel
- 120 Volt AC Operation
- 60° to 150° F Temperature Control

Customer Features and Benefits:

- Single Zone Water Jacketed Hoses and Components has lower cost total operating life
- Single Zone Temperature Control provides fast and easy temperature setting and change
- Compact footprint design reduces floor space requirements
- Water Jacketed components extends life and reduces maintenance cost
- Circulating system provides accurate and even temperature control without spikes
- Unusual shaped or un-heated components are easily jacketed to eliminate cold spots

Product Information

Note: Heat Only material temperature conditioners also available.

Advantages to Water Heat-Cool TCU vs. Electric Heated Systems



Heat-Cool Temperature Conditioning Unit Integrated with Sealant Equipment & Engineering ISD Metering Assembly and Control Panels

1. **Price:** Typically, electrically heated hose systems are more expensive due to materials that make up the heated hose system cost more to manufacture and require more components to operate. Water traced/insulation covers replace more expensive heated hoses, and one temperature controller replaces the need for multiple zone controllers.
2. **Design Features:** The Water Heat-Cool system is designed for wall or frame mounting. Power requirements are 240V-480V/1PH/60HZ. The individual tubing in the traced covers provide excellent water flow distribution for greater heat transfer for the fluid hoses and pressure pots. This proven technology assures even thermal transfer and virtually eliminates “hot-spots” (and cold-spots) often found in electrically heated hose systems. Many sealants and adhesives materials today are heat sensitive and a hot spot could cure material in the hose causing a restriction or blockage in the system.
3. **Hose Temperature Control:** The Heat-Cool TCU system is capable of heating from 60°F to 150°F, while maintaining a tolerance of $\pm 2^\circ\text{F}$ from set-point. Electrically heated hose systems can vary from set-point as much as 5°F to 20°F with each zone requiring it's each own dedicated controller.
4. **Pressure Tank Temperature Control:** Electric Band Heaters normally do not cover the entire material surface of the pressure tank, resulting in poor heat transfer to the material and heat being exhausted to the environment. Water Heat tubing in place of a band heater improves heat transfer by covering the entire area that comes in contact with the material.
5. **Maintenance:** The Heat-Cool system is designed to operate over the life of the system at a fraction of the cost. In the event the electrically heated hose fails during production, the system would have to be shut down for expensive hose replacement. The Heat-Cool system utilizes traced covers that wrap around an inexpensive standard fluid hose.