

# HEAT PADS AND INSULATION

Temperature maintenance without concern



Poly Processing's tank heating systems are specifically designed for temperature maintenance of polyethylene tanks. SilcoPad® tank heating systems maintain a desired product temperature, not to exceed 100 degrees F.

Each heating system consists of tank heating pad(s) and a temperature controller. The quantity and type of SilcoPad® tank heating pads required is determined by the size of the tank, the desired temperature maintenance and environmental conditions.

All tanks can be supplied with a Delta T heating system of 30, 60 or 100 degrees F.

Tanks are supplied with the heating panels and a controller installed by Poly Processing. The only field connection required is a power supply to the heating system.

Contact Us at 877-325-3142 CA or 866-590-6845 LA

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[www.polyprocessing.com](http://www.polyprocessing.com)

## Technical facts

- Silicone pad heater operates on 120 vac single phase with a maximum power density of 0.5 watts/sq.inch
- Silicone pad heaters fully comply with Article 427-23 (b) of the National Electric Code
- Heating systems range in size from 210 watts to 2,520 watts
- Controller incorporates two electronic thermostats, switching the heating system via one solid state relay
- Primary thermostat controls the desired product temperature
- Secondary thermostat provides overtemperature protection at 150° F
- Temperature sensing is performed by using two thermocouples
- Power supply requires a circuit breaker to be designed at minimum 125% of the heating load
- Circuit breakers must have a ground fault protector such as Square D type QO-EPD
- 2SPCP controller is for use in ordinary, non-hazardous areas
- 2HSPCP controller is suitable for use in hazardous Class I, Division 2, Groups B, C, D Class II, Division 2 areas
- Insulation average values: Density 2.43, R Value 6.5, K Factor 0.158
- Standard coating is mastic white acrylic vinyl

## Calculation examples

### Delta T selection

- The delta-T is the difference between the product temperature and the minimum ambient temperature.
- To maintain 60° F product in an environment temperature 0° F a delta-T 60 system would be selected.

### Power calculations

- A heating system with 2 - SP420 heating pads has a power requirement of 840 watts.
- By dividing the power by 120 VAC, the nominal current is 7 A.
- Sizing the circuit breaker at 125% requires a circuit breaker of 8.75A or greater.

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