

# HEAT MAINTENANCE SYSTEM WITH INSULATION

## Temperature Maintenance With Peace of Mind



Poly Processing's tank heating systems are specifically designed for temperature maintenance of polyethylene tanks. SPX 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 SPX Tank Heating Pads required is determined by the size of the tank, desired temperature maintenance and environmental conditions. Tanks are available with standard heating systems with a delta-T of 30, 60 and 100F.

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.

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# The Tank Heat Maintenance System

SPX Tank Heating Systems are specifically designed for temperature maintenance on Poly Processing's polyethylene tanks. SPX Tank Heating Systems maintain the desired product temperature, not to exceed 100°F. Each heating system consists of tank heating pad(s) and a temperature controller. The controller comes in a NEMA4X/IP66 polycarbonate enclosure so that it can be safely used indoors or outdoors.

The heating controller is convenient to monitor, whether you're up close or away from the chemical storage tank. High-visibility LED lights indicate the process sensor temperature, over-limit sensor temperature, and heater current using a simple Settings menu. Alarms and system status can be paired with remote monitoring systems, so you'll always know if the temperature or current has gone out of acceptable range. Two controllers may be used for larger tanks or for redundant systems if necessary.

Poly Processing's double wall SAFE-Tanks are available with heat maintenance systems as well.

The 2XTC is a digital heating controller, which provides important advantages over other tanks that are still using analog controllers:

- Digital temperature reading replace hard-to-read analog dials.
- High and low temperature limits can be reset in seconds by pushing a couple buttons.
- Use with up to 6 SPX heating pads
- No need to unscrew and replace control dials with preset locks.
- 4-20mA retransmission output allows you to use remote monitoring.
- A single digital box can handle either 120V or 240V. Analog systems require a different box for each.

## 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.

### FOR MORE INFORMATION

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