

SPX

**For freeze protection
and process heating
applications
on Plastic Tanks**

SPX

PLASTIC TANK HEATING PAD

- ◆ Specifically designed for safe, reliable operation on heat sensitive plastic storage tanks
- ◆ Proven epoxy-glass laminate platform performance, with thousands of major installations worldwide
- ◆ Ultra low watt density, high efficiency, flexible heating pads with adhesive backing.

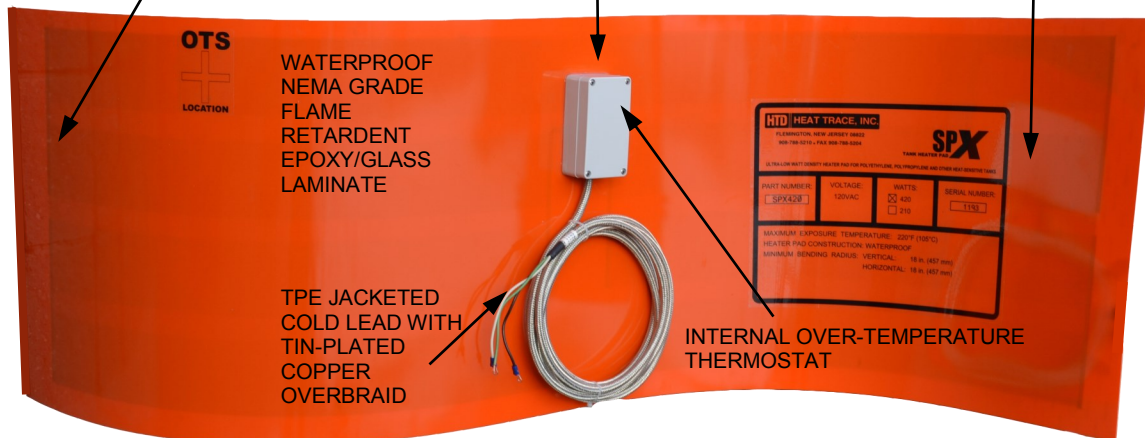
- ◆ FM Approved for use in unclassified, hazardous and corrosive environments for the United States and Canada
- ◆ Quick, simple, low cost, one person installation
- ◆ Two pad sizes and power outputs for conventional, small and custom-shaped tanks.



PROPRIETARY MULTI - PATH,
PARALLEL CIRCUIT HEATING
ELEMENT WITH CONTINUOUSLY
SPOT WELDED CONNECTIONS

WATERPROOF
EPOXY
ENCAPSULATED
POLYCARBONATE
TERMINATION
ENCLOSURE

INTERNAL ALUMINUM
GROUNDING SHIELD TO
COMPLY WITH NEC ARTICLE
427 23(b) REQUIREMENTS



WATERPROOF
NEMA GRADE
FLAME
RETARDENT
EPOXY/GLASS
LAMINATE

TPE JACKETED
COLD LEAD WITH
TIN-PLATED
COPPER
OVERBRAID

INTERNAL OVER-TEMPERATURE
THERMOSTAT

The HTD Heat Trace SPX heater pad is the latest step in the improvement of the SilcoPad range of heaters for plastic tanks.

The SPX epoxy/glass composite construction was first developed and used in the Eagle Panel range of products for heating FRP tanks. This rugged construction has been re-engineered for performance on heat-sensitive tanks, resulting in a new, ultra-low watt density, highly flexible, waterproof heating pad that includes adhesive backing for quick and simple installation.

The SPX tank heater pad has been specifically designed for temperature maintenance and freeze protection on heat-sensitive polyethylene and polypropylene tanks. These tanks require ultra-low watt density, evenly applied heat.

The SPX heater pad provides this with the added safety feature of an internal over-temperature thermostat. This extra feature ensures that the pad cannot operate above the maximum permissible temperature of the tank.

Being completely waterproof, the new SPX heater pad will continue to operate as designed even if rain, flooding or tank overflow infiltrates between the tank and the thermal insulation.

The new HTD Heat trace SPX 210 and SPX 420: engineered for efficiency, long life and safety.

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SPECIFICATIONS

PLASTIC TANK HEATING PAD

PRODUCT FEATURES

ULTRA-LOW WATT DENSITY SPX Tank Heater pads have a power rating of 0.39 w/sq.in(603 w/m²) for ultra-safe operation and reliability on heat-sensitive applications

LAMINATED CONSTRUCTION WITH PEEL AND STICK APPLICATION With its laminated, epoxy composite construction, the SPX heater pad is superbly qualified to meet the rigorous requirements for use in all industrial and climatic environments. It is extremely rugged, completely waterproof, dust-tight and corrosion-resistant.

MULTI-PATH PARALLEL CIRCUIT HEATING ELEMENT SPX heater pads are built with unique multi-path, parallel circuit heating elements that are significantly safer and more reliable than the series type heating elements used in competitors products.

DESIGN RATINGS

MAX MAINTAIN TEMP 150°F (66°C)

MAX EXPOSURE TEMP 220°F (104° C)

MIN INSTALLATION TEMP 40° F (4.4°C)

MINIMUM BENDING 15" (381 mm) Do not install SPX pads on any tank that is less than 30" (762 mm) diameter
VOLTAGE RATINGS 120 VAC

*Consult HTD for 240 VAC applications

CONSTRUCTION

HEATING ELEMENTS Multi-path, parallel circuitry

CIRCUIT CONNECTIONS Stainless steel bridge pieces continuously spot welded with triple welding passes

DIELECTRIC CONSTRUCTION Multi-layer glasscloth composite

LAMINATE PROPERTIES Density - 0.069 lbs/cu.in
Rockwell Hardness - 115
Flexural Strength - 50,000 psi
Dielectric Strength - 550 vpm
Flammability Rating - UL-94.V.O

GROUND SHIELD 5 mil thick aluminum mesh

TERMINATION METHOD Epoxy encapsulated polycarbonate termination box

COLD LEAD CABLE 3-16 AWG conductors with TPE outer jacket and Tin-Plated Copper over-braid

COLD LEAD LENGTHS Standard lengths:
SPX 210
SPX 420 10 FT (3 m)
SPX 210-16
SPX 420-16, 16 FT (4.87 m)
Custom cold lead lengths available to suit your application.
2 Ft. min., 50 Ft. max.

PRODUCT REFERENCES, RATINGS AND SIZES

SPX 420 420 Watts (0.39 w/sq.in)
60" long by 18" wide (457 x 762 mm)

SPX 210 210 Watts (0.39 w/sq.in)
30" long by 18" wide (457 x 1524 mm)

APPLICATIONS AND USAGE

TANK MATERIAL	APPLICATION RANGES	SPX 420	SPX 210
Polyethylene, Polypropylene	Up to 120° F (49°C)	YES	YES
FRP	Up to 150° F (66°C)	YES	YES
Steel, Stainless Steel	Up to 150° F (66°C)	YES	YES

T-RATING: T4A

APPROVALS

Factory Mutual approved to IEEE standard 515 and CSA standard C22.2 no.130-03 for use in the following areas:
Unclassified
Class I Div.2 Groups B,C,D
Class II Div.2 Group F,G
Class III Div.2



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