

## SPX-C-640

**For freeze protection  
and process heating  
applications on metal and  
composite surfaces.**



# SPX-C

TANK HEATER PAD

- ◆ **Specifically designed for safe operation on FRP, SS, and Carbon Steel Tanks, Vessels and Surfaces**
- ◆ **Lightweight, flexible and waterproof construction allows temperature maintenance on curved or flat surfaced vessels**
- ◆ **18"x60", 640 Watts, 120 or 240 VAC**
- ◆ **Adhesive backing makes installation quick, simple and effective**
- ◆ **Proven epoxy-glass laminate platform performance, with thousands of major installations worldwide**
- ◆ **FM Approved for use in unclassified, hazardous and corrosive environments for the United States and Canada**



The SPX-C-640 tank heater pad is HTD Heat Trace's latest advancement and configuration in low watt-density surface heating technology.

The HTD epoxy/glass composite structure and proprietary heating element technology was first introduced 30 years ago in the construction of the type EGLX heater. This rugged construction has been re-engineered in the SPX-C-640 tank heater pad to provide an optimal size and power level for industrial tank temperature maintenance applications.

The SPX-C construction is waterproof, dust-tight and rugged, yet highly flexible. The electrical design provides uniform, low-watt density heat output for extended product reliability and safety on indoor and outdoor installations in classified and non-classified areas. The SPX-C-640 tank heater pad has been specifically designed to heat a wide range of tanks. At 18"x60", 640 watts, 120 or 240VAC configurations, The SPX-C-640 tank heater pad provides the safest and most reliable heating available for freeze protection and process temperature maintenance temperatures on Fiberglass, composite and metal tanks.

The SPX-C-640 heater pad is engineered for efficiency, safety and long life.

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**PRODUCT SPECIFICATIONS**  
**SPX-C-640**  
 PHYSICAL, ELECTRICAL &  
 THERMAL

**SPX-C**  
**HEATER PAD**

|   |   |                                  |
|---|---|----------------------------------|
| <b>PRODUCT FAMILY</b>                           | SPX   |                                  |
| <b>PRODUCT REFERENCES</b>                       | SPX-C-640   |                                  |
| <b>SIZE RANGE</b>                               | Length: 60 In. (1524mm)<br>Width: 18 In. (457mm)            |                                  |
| <b>PAD THICKNESS</b>                            | 0.05 inches (1.27 mm)                                       |                                  |
| <b>POWER RATINGS</b>                            | 640 Watts   |                                  |
| <b>POWER DENSITY</b>                            | 0.60 watts/inch <sup>2</sup> (930 watts/m <sup>2</sup> )    |                                  |
| <b>OPERATING VOLTAGE</b>                        | Either 120 or 240 Volts                                     |                                  |
| <b>TYPICAL MAXIMUM APPLICATION TEMPERATURES</b> | FRP<br>Steel  | 150° F(65.6°C)<br>180° F(82.2°C) |
| <b>T-RATING:</b>                                | T3  |                                  |
| <b>MAXIMUM EXPOSURE TEMPERATURE</b>             | 220° F (105°C)  |                                  |
| <b>MINIMUM TEMPERATURE DURING INSTALLATION</b>  | 0°F (-18°C) Without adhesive<br>40°F (4.44°C) With adhesive |                                  |
| <b>MINIMUM BENDING RADIUS</b>                   | 15 in (381 mm)  |                                  |
| <b>MINIMUM TANK DIAMETER</b>                    | 30 in (762 mm)  |                                  |

**ACCESSORIES**

**SEALING TAPE** Use 3" wide adhesive backed aluminum tape to seal the four edges of each SPX heater pad to the tank surface. This simple procedure prevents infiltration of thermal insulation between the tank surface and the heater pad.

**CONSTRUCTIONAL**

|                                 |   |
|---------------------------------|---|
| <b>HEATING ELEMENT</b>          | NiChrome heating element with continuously spot-welded connections                              |
| <b>DIELECTRIC MATERIALS</b>     | Multi-ply epoxy/glass composite   |
| <b>DIELECTRIC STRENGTH TEST</b> | 1.48KV for one minute   |
| <b>INTEGRAL GROUND PLANE</b>    | Expanded aluminum sheet   |
| <b>TERMINATION BOX</b>          | Aluminum  |
| <b>COLD LEAD CABLE</b>          | 3 conductor # 16 AWG tinned copper with TPE insulation and tinned copper over-braid             |
| <b>COLD LEAD LENGTHS</b>        | Custom cold lead lengths available to suit your application.<br>2 Ft. min., 50 Ft. max.         |
| <b>INSTALLATION METHOD</b>      | Factory applied adhesive backing with release liner, banding or layup into composite structure. |

**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  
 Class III Div.2



**CONTROLS**

The recommended controller for unclassified, non-hazardous area installations is type 2XTC micro-processor based tank heating controller

Use type 2HSPCP controller for classified area installations.



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