



CUSTOM DESIGNED, FLEXIBLE, LOW-PROFILE WATERPROOF HEATER PADS



SPX/C SALES 9/10/14

SPX

For freeze protection and process heating applications on plastic, metal and composite surfaces

- Specifically designed for safe operation on polyethylene, polypropylene, FRP and other types of heat-sensitive materials
- Custom sizes and power outputs to fit any application
- Proven epoxy-glass laminate platform performance, with thousands of major installations worldwide

SPX-C heater pads are specifically designed to provide the unique product and system features essential for the safe and reliable application of heat to the surface of heat-sensitive plastic, FRP and metal tanks, hoppers, chutes and other custom applications.

SPX-C heater pads are custom designed with pad dimensions and power outputs available for each unique application. The SPX-C can be engineered with ultra-low watt density for freeze protection on extremely heat-sensitive composites and is also available with watt densities up to 0.60 Watts a square inch, for maximum maintain temperatures up to 180°F(82°C)

The total construction of the SPX-C heater pad is completely waterproof. Each SPX-C heater is supplied with a rugged, encapsulated, factory made power termination complete with over-braided cold leads in custom lengths to suit your application

The SPX-C heater pad uses a proprietary heating element with continuously spot welded connections. This heating element is laminated into multiple layers of NEMA grade flame retardant, epoxy-glass composite to form a flexible, lightweight heater pad that is easily and quickly installed onto flat or curved surfaces. Optional factory-applied adhesive backing can be used to bond the heater pad directly to the heated surface, allowing one person to complete a simple and effective installation in a matter of just a few minutes.

The SPX-C heater construction also includes an internal aluminum ground shield for full compliance with the latest requirements of the National Electric Code. Each SPX-C heater pad is custom designed for its application, ensuring that the gentle, low-watt density heating will provide the right amount of power for the circumstances, regardless of environment, while protecting the structure and contents of each piece of equipment heated.



- Lightweight, flexible and waterproof construction allows temperature maintenance of confined or oddly shaped vessels and surfaces
- Optional adhesive backing makes installation quick, simple and effective
- FM Approved for use in unclassified, hazardous and corrosive environments for the United States and Canada



The SPX-C heater pad is suitable for use in normal areas as well as areas classified as hazardous.



PRODUCT SPECIFICATIONS

PX-C HEATER PAD

PHYSICAL, ELECTRICAL & THERMAL

PRODUCT FAMILY	SPX		CONSTRUCT
PRODUCT REFERENCES	SPX-C		HEATING ELEMENT
SIZE RANGE	Length: Up to 96 Width: Up to 18	In. (2438mm) In. (457mm)	
PAD THICKNESS	0.05 inches (1.27 mm)		DIELECTRIC MATERIA
POWER RATINGS	Up to 1037 Watts		DIELECTRIC STRENGT
MAXIMUM POWER DENSITY0.60 watts/inch ² (930 watts/m ²)			TEST
OPERATING VOLTAGE	12-240 Volts		INTEGRAL GROUND PLANE
TYPICAL MAXIMUM APPLICATION TEMPERATURES	Polyethylene Polypropylene PVC CPVC	120° F (49°C) 120° F 140° F(60°C) 150° F(65.5°C)	TERMINATION BOX
The above maximum applica the materials listed. Service t material depend upon operat Maximum permissible operat type of tank must be determi End Usor	FRP Steel tion temperatures a emperature ratings ing pressure and m ing temperatures for ned by the Tank Ma	150° F 180° F(82.2°C) are only typical for for each tank ay be lower. or each specific anufacturer and/or	COLD LEAD CABLE
T-RATING:	Т3		
			INSTALLATION METHO
MAXIMUM EXPOSURE TEMPERATURE	220° F (105°C)		
MINIMUM TEMPERATURE DURING INSTALLATION	0°F (-18°C) Without adhesive 40°F (4.44°C) With adhesive		APPROVAL
MINIMUM BENDING RADIUS	15 in (381 mm)		Factory Mutual approved IEEE standard 515 and
MINIMUM TANK DIAMETER	30 in (762 mm)	for use in the following an	
ACCESSORIES			Class I Div.2 Groups B, Class II Div.2 Group F

SEALING TAPE

Use type IAAT 3 adhesive backed aluminum tape to seal the four edges of each SPX-C heater pad to the tank surface. This simple procedure prevents infiltration of thermal insulation between the tank surface and the heater pad.



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

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to 130-03 reas: C,D Class III Div.2



CONTROLS

The recommended controller for unclassified, nonhazardous area installations is type 2SPCP with dual electronic thermostats for process control and high temperature cut out.

Use type 2HSPCP controller to provide the same features on all hazardous area installations.



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