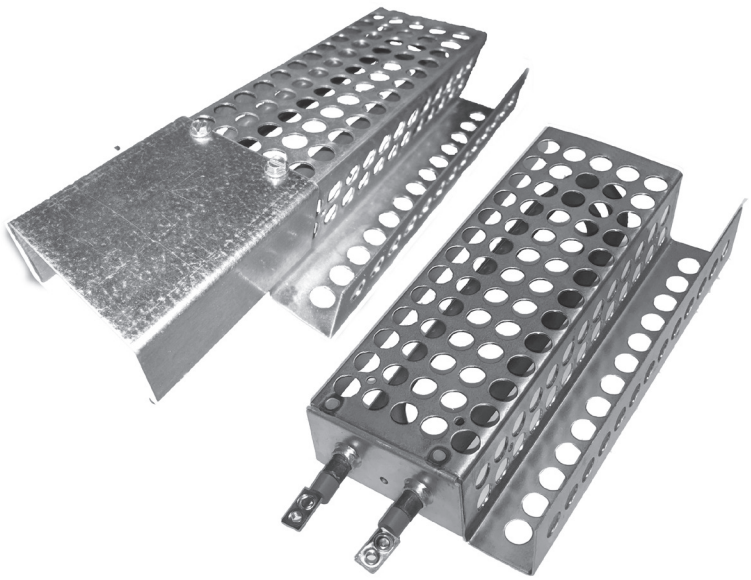
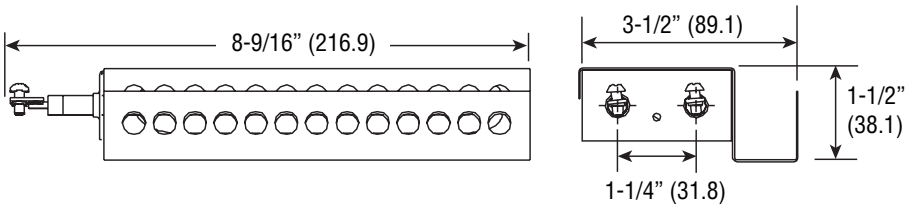
TEH
Tubular Enclosure and Switchgear Heaters

- **UL and CSA Component Recognized**
- **Optional Adjustable Ambient Thermostat 0-107°F (-18 to 42°C)**
- **Custom Designs Available**





Description

Type TEH Tubular Enclosure Heaters and General Purpose Air Heaters are used for freeze protection and condensate protection in electrical enclosures and switchgear. They can also be installed in equipment to keep mechanical components functioning in applications such as valve enclosures and line metering.

Applications

Freeze or condensate protection in enclosures containing mechanical and electronic equipment, such as: temperature control panels, control valve housings, ATMs, traffic signal boxes, and line metering enclosures.

Features

- Element construction features Nichrome A resistance wire, high grade MgO and INCOLOY sheath to ensure long life
- Moisture resistant terminal seal
- Standard Wattages to 400 watts, higher custom wattages available
- Multiple enclosure configurations for versatile mounting
- Optional ambient sensing adjustable thermostat
- Standard 8-32 Screw terminals or 1/4" Quick Disconnect for lead wire connection
- Galvanized sheet metal cover to prevent corrosion
- Optional terminal cover to prevent incidental contact

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Determining Minimum Recommended Wattage

°F/°C Above Ambient	Total Surface Area Ft² (m²)													
	2 (0.19)	3 (0.28)	4 (0.37)	5 (0.46)	6 (0.56)	7.5 (0.7)	9 (0.84)	10 (0.93)	15 (1.39)	20 (1.86)	25 (2.32)	30 (2.79)	40 (3.72)	50 (4.65)
Uninsulated Enclosures														
20	30	40	55	70	80	100	120	135	205	270	335	405	540	670
40	55	80	110	135	160	200	245	270	405	540	670	805	1,075	1,340
60	90	120	160	205	245	300	365	405	605	805	1,005	1,210	1,610	2,010
80	110	160	215	270	325	400	485	540	805	1,075	1,340	1,610	2,145	2,680
100	135	200	270	335	405	500	605	670	1,005	1,340	1,675	2,010	2,680	3,350
120	165	240	320	405	485	600	725	805	1,210	1,610	2,010	2,415	3,220	4,020
140	190	280	375	470	565	700	845	940	1,410	1,880	2,345	2,815	3,775	4,690
Insulated Enclosures														
20	10	10	15	20	20	25	30	35	50	65	80	100	130	160
40	15	20	30	35	40	50	60	65	100	130	160	195	260	320
60	20	30	55	50	60	75	90	100	145	195	240	290	385	480
80	30	40	55	65	80	100	115	130	195	260	320	320	515	640
100	35	50	65	80	100	125	145	160	240	320	400	400	640	800
120	40	60	80	100	115	150	175	195	290	385	480	480	770	960
140	45	70	90	115	135	175	205	225	340	450	560	560	900	1,120

Standard Parts list

Volts	Watts	Without Thermostat		With Thermostat	
		PCN	Model	PCN	Model
120	100	058616	TEH-A-100W-120V-O-O-O-D	058739	TEH-A-100W-120V-O-O-A-T
240	100	058624	TEH-A-100W-240V-O-O-O-D	058747	TEH-A-100W-240V-O-O-A-T
120	150	058632	TEH-A-150W-120V-O-O-O-D	058755	TEH-A-150W-120V-O-O-A-T
240	150	058640	TEH-A-150W-240V-O-O-O-D	058763	TEH-A-150W-240V-O-O-A-T
120	250	058659	TEH-A-250W-120V-O-O-O-D	058771	TEH-A-250W-120V-O-O-A-T
240	250	058667	TEH-A-250W-240V-O-O-O-D	058780	TEH-A-250W-240V-O-O-A-T
120	300	058675	TEH-A-300W-120V-O-O-O-D	058798	TEH-A-300W-120V-O-O-A-T
240	300	058683	TEH-A-300W-240V-O-O-O-D	058800	TEH-A-300W-240V-O-O-A-T
120	350	058691	TEH-A-350W-120V-O-O-O-D	058819	TEH-A-350W-120V-O-O-A-T
240	350	058704	TEH-A-350W-240V-O-O-O-T	058827	TEH-A-350W-240V-O-O-A-T
120	400	058712	TEH-A-400W-120V-O-O-O-T	058835	TEH-A-400W-120V-O-O-A-T
240	400	058720	TEH-A-400W-240V-O-O-O-T	058843	TEH-A-400W-240V-O-O-A-T

Notes:
1. 8-32 Screw Terminals are Standard on Stock Parts
2. Type "A" Enclosure Standard on Stock Parts
3. Models "With Thermostat" include 0-107°F (-18 to 42°C) adjustable ambient thermostat.

TEH
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Notes:
1. Enclosure type "C" includes mounting bracket option "S".
2. Heaters with enclosure type "D" are designed to be mounted on top of those with enclosure type "C". See instructions for details.
3. Standard models available in 25 W increments up to 400W max.
4. Thermostat option only available with type A enclosure.
5. For custom designs, including voltages, wattages, and configurations with preset thermostats. contact sales.

Model

TEH

Code	Enclosure Type
A	Base with U-Shaped Mounting
B	Base with L-Shaped Mounting
C	Base with Mounting Brackets
D	Top

Code	Power (Watts)
XXXW	

Code	Voltage (Volts)
24	24 V
120	120 V
208	208 V
240	240 V

Code	Terminal Cover
0	None
T	Included

Code	Mounting Brackets
0	None
S	Included (See note 1)

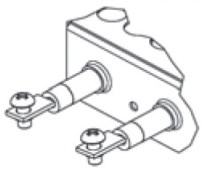
Code	Thermostat
0	None
A	Adjustable
P	Preset

Code	Terminal Type
T	8-32 Terminals (Std.)
D	1/4" Quick Disconnect

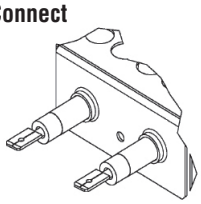
TEH-	A-	200W-	120V-	T-	S-	A-	T	Typical Model Number

Terminal Configurations

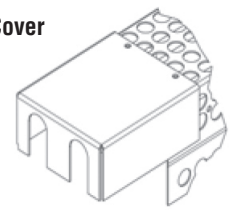
8-32 Screw Terminals



1/4" Quick Connect

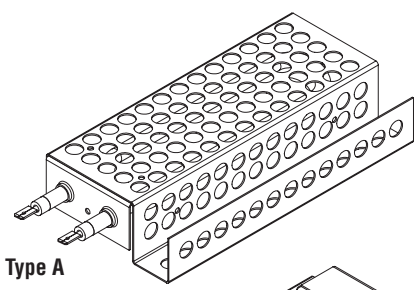


Terminal Cover

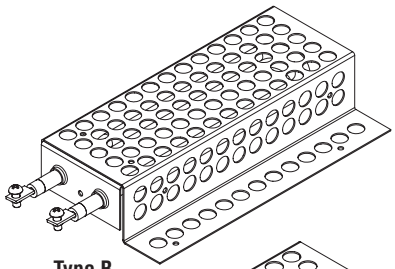


*See specification data sheet for full dimensions (SDS- PB301)

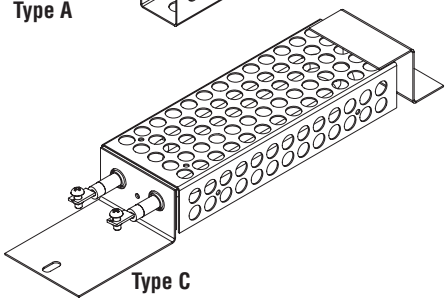
Element Closure Configurations



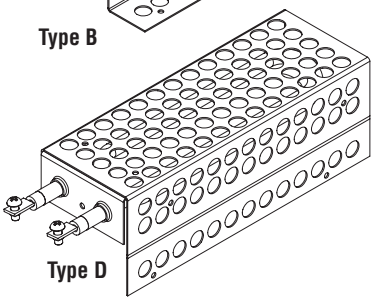
Type A



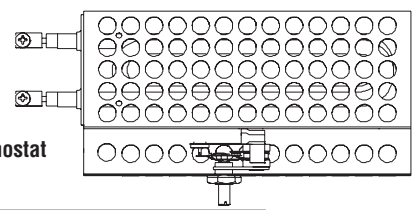
Type B



Type C



Type D



Type A with Thermostat