

Enclosure heaters designed for all conditions.

These units are a necessity when freeze and condensation protection is required. The enclosure heater can be ordered by themselves with an adhesive backing or factory vulcanized to an aluminum plate. The plate will have a flange for easy bolt in assembly. As well, the unit can come with an optional air sensing thermostat in line, bonded to the heater or remote mounted.



Applications

Freeze or condensation prevention examples include but are not limited to:

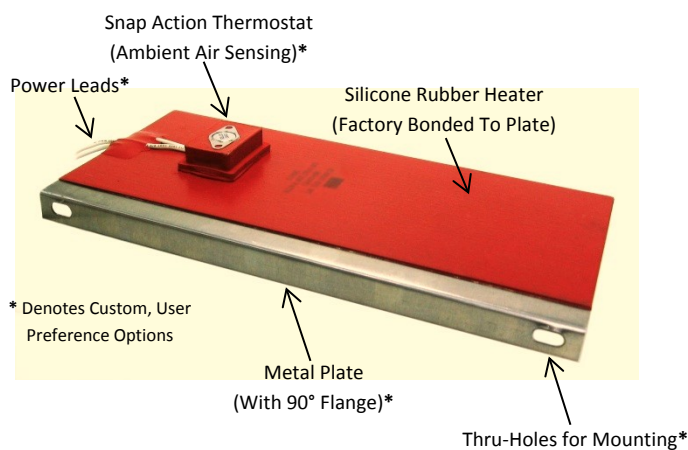
- Enclosures with temperature sensitive components
- Card driven Kiosks
- Valve housings
- Vending coin box
- Traffic signal boxes

Factory Specifications

Contact factory for specific application questions.

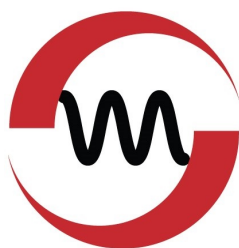
- 120 volt (Contact the factory for alternate voltages)
- Watt density of (5 W/in²)

Enclosure Heater – Example Configuration



Features

- Various mounting options
- Quick delivery
- Safe and reliable
- Custom designs available upon request

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Minimum Usage Requirements

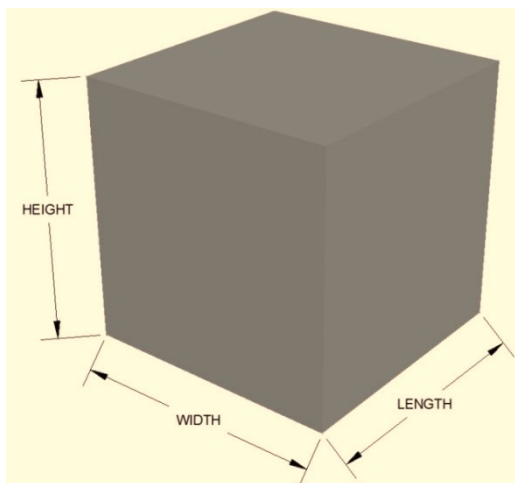
The chart below is used to determine the total wattage requirements for both insulated and non-insulated enclosures assuming the enclosures are basically air tight. If the enclosure is located where windy conditions are add an additional 50% to the wattage requirement listed.

Non bold is non-insulated; bold is for insulated enclosures

Total enclosure surface area in Sq. Ft.																
Temperature rise from ambient °F		2	3	4	5	6	7	8	9	10	15	20	25	30	40	50
	20	30	40	55	70	80	95	110	120	135	205	270	335	405	540	670
		10	10	15	20	20	25	30	30	35	50	65	80	100	130	160
	40	55	80	110	135	160	190	215	245	270	405	540	670	805	1075	1340
		15	20	30	35	40	45	55	60	65	100	130	160	195	260	320
	60	90	120	160	205	245	285	325	365	405	605	805	1005	1210	1610	2010
		20	30	55	50	60	70	80	90	100	145	195	240	290	385	480
	80	110	160	215	270	325	375	430	185	540	805	1075	1340	1610	2145	2680
		30	40	55	65	80	90	105	115	130	195	260	320	385	515	640
	100	135	200	270	335	405	470	540	605	670	1005	1340	1675	2010	2680	3350
		35	50	65	80	100	115	130	145	160	240	320	400	480	640	800
	120	165	240	320	405	485	565	645	725	805	1210	1610	2010	2415	3220	4020
		40	60	80	100	115	135	155	175	195	290	385	480	580	770	960
	140	190	280	375	470	565	660	750	845	940	1410	1880	2345	2815	3755	4690
		45	70	90	115	135	160	180	205	225	340	450	560	675	900	1120

$$\text{Area} = 2(WL + LH + HW)$$

$$\text{Sq}' = A/144''$$



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Considerations for Enclosures

- External size of the enclosure (LxWxH)
- Insulated or non-insulated
- Air tight or ventilated
- Enclosure location inside or outside
- Lowest anticipated ambient temperature
- Optimum internal temperature
- Mounting space available



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