

## 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.



### Factory Specifications

Contact factory for specific application questions.

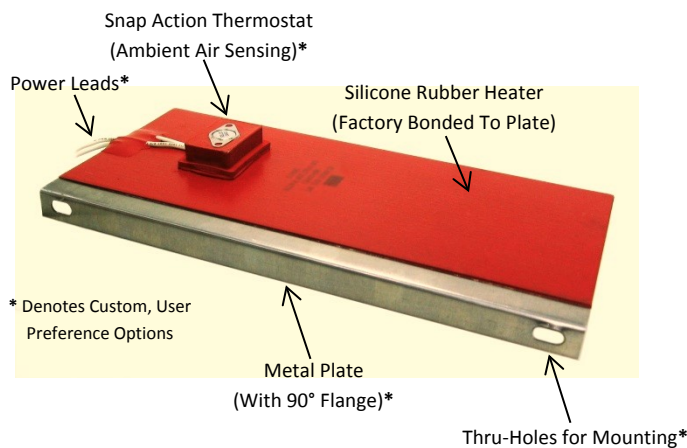
- 120 volt (Contact the factory for alternate voltages)
- Watt density of (5 W/in<sup>2</sup>)

### Applications

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

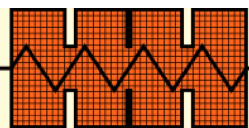
- Enclosures with temperature sensitive components
- Card driven Kiosks
- Valve housings
- Vending coin box
- Traffic signal boxes

Enclosure Heater – Example Configuration



### Features

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



## Hi-Heat Industries, Inc.

256 Hanover Road Lewistown, Montana 59457  
 Phone: (406) 538-7411 Fax: (406) 538-3152  
 All heaters are hand crafted in Montana, USA.

web: [www.hiheat.com](http://www.hiheat.com)

e-mail: [info@hiheat.com](mailto:info@hiheat.com)

For rep in your area, contact factory

## Minimum Usage Requirements

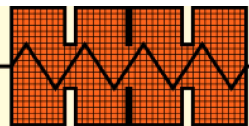
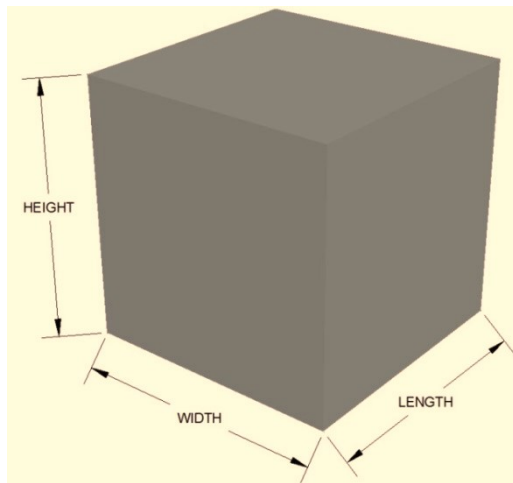
The chart below is used to determine the total wattage requirements for both insulated and non-insulated enclosures assuming the enclosures are basically air tight. If the enclosure is located where windy conditions are add an additional 50% to the wattage requirement listed.

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
		<b>10</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>30</b>	<b>35</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>100</b>	<b>130</b>	<b>160</b>
40		55	80	110	135	160	190	215	245	270	405	540	670	805	1075	1340
		<b>15</b>	<b>20</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>100</b>	<b>130</b>	<b>160</b>	<b>195</b>	<b>260</b>	<b>320</b>
60		90	120	160	205	245	285	325	365	405	605	805	1005	1210	1610	2010
		<b>20</b>	<b>30</b>	<b>55</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>145</b>	<b>195</b>	<b>240</b>	<b>290</b>	<b>385</b>	<b>480</b>
80		110	160	215	270	325	375	430	485	540	805	1075	1340	1610	2145	2680
		<b>30</b>	<b>40</b>	<b>55</b>	<b>65</b>	<b>80</b>	<b>90</b>	<b>105</b>	<b>115</b>	<b>130</b>	<b>195</b>	<b>260</b>	<b>320</b>	<b>385</b>	<b>515</b>	<b>640</b>
100		135	200	270	335	405	470	540	605	670	1005	1340	1675	2010	2680	3350
		<b>35</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>100</b>	<b>115</b>	<b>130</b>	<b>145</b>	<b>160</b>	<b>240</b>	<b>320</b>	<b>400</b>	<b>480</b>	<b>640</b>	<b>800</b>
120		165	240	320	405	485	565	645	725	805	1210	1610	2010	2415	3220	4020
		<b>40</b>	<b>60</b>	<b>80</b>	<b>100</b>	<b>115</b>	<b>135</b>	<b>155</b>	<b>175</b>	<b>195</b>	<b>290</b>	<b>385</b>	<b>480</b>	<b>580</b>	<b>770</b>	<b>960</b>
140		190	280	375	470	565	660	750	845	940	1410	1880	2345	2815	3755	4690
		<b>45</b>	<b>70</b>	<b>90</b>	<b>115</b>	<b>135</b>	<b>160</b>	<b>180</b>	<b>205</b>	<b>225</b>	<b>340</b>	<b>450</b>	<b>560</b>	<b>675</b>	<b>900</b>	<b>1120</b>

Area = 2(WL+LH+HW)

Sq' = A/144"



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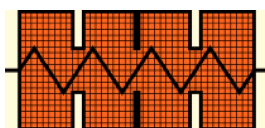
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## Considerations for Enclosures

- 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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