



Heat Cartridge Heater Solutions

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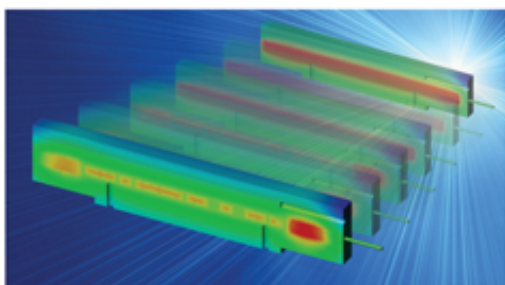
fewer system amps
longer life
25% energy savings
faster responding



Next Generation
Energy Efficient
Cartridge Heater

patent pending

eheat cartridge heaters improve performance and energy efficiency



Nexthermal eheat cartridge heaters are constructed with a special high thermal transfer sheath material that creates a fast responding, longer lasting, more energy efficient heater.

At the same rated wattage, Nexthermal eheat cartridge heaters have measured up to 25% improved energy efficiency over traditional build cartridge heaters.

Nexthermal eheat Cartridge heaters are the fast responding, energy efficient and direct replacements for your existing cartridge heaters.

Extend the capabilities of your existing system with eheat cartridge heaters, or develop around its strengths to bring smart heat management capabilities to your market.



Nexthermal eheat cartridge heaters:




- The high thermal transfer sheath results in a heater that can perform the same work with fewer watts - saving energy and reducing total system amperage.
- For higher watt density applications such as hot glue systems, the eheat delivers heat to the application faster, resulting in more heat delivered with a lower heater core temperature. This extends heater life.
- Nexthermal eheat cartridge heaters reach set point faster, and can reduce cycle times of demanding applications.




Heat Cartridge Heater Reference Chart

maximum recommended continuous operating temperature 650 °F

Diameter	Diameter Tolerance		Maximum Heater Length	Construction		Thermo-couple	
	Standard Swage to Size Tolerance	Premium Centerless Grind Tolerance		High Watt Density	Medium Watt Density	J	K
.250"	.248 - .244"	.2488-.2472"	60.0"	●	●	●	●
.3125"	.3105 - .3066"	.3114-.3098"	70.0"	●	●	●	●
.375"	.373 - .369"	.3732-.3717"	80.0"	●	●	●	●
.500"	.498 - .494"	.4972-.4957"	100.0"	●	●	●	●
.625"	.623 - .619"	.6232-.6217"	100.0"	●	●	●	●
6.5mm	●	6.48-6.44mm	1524 mm	●	●	●	●
8.0mm	●	7.98-7.94mm	1178 mm	●	●	●	●
9.0mm	●	8.98-8.94mm	1178 mm	●	●	●	●
9.5mm	●	9.48-9.44mm	2032 mm	●	●	●	●
10.0mm	●	9.98-9.94mm	2032 mm	●	●	●	●
12.5mm	●	12.48-12.44mm	2540 mm	●	●	●	●
16.0mm	●	15.98-15.94mm	2540 mm	●	●	●	●

		Temp. Rating		Movement	Moisture
		°F	°C		
Potting Options	Ceramic	1000	538	Good	Not Recommended
	Silicone - Standard	500	260	Excellent	Excellent
	Silicone - High Temp.	650	343	Excellent	Excellent
	Epoxy	600	315	Very Good	Very Good
Lead Options	Fiberglass (Standard)	482	250	Good	Not Recommended
	Teflon®	500	260	Excellent	Excellent
	Silicone	356	180	Excellent	Excellent
	Silicone Cable	356	180	Excellent	Excellent

Lead Protection		
Fiberglass Sleeve	Braided Metal Sleeve	Aarmor Cable
		

Exit and Removal		
Right Angle Exit	Right Angle Block	Flange
		

This chart is representative of standard cartridge heater configurations. Please call Nexthermal at 269-964-0271 for additional options, special configurations and assemblies.

Teflon® is a registered trademark of the E.I. du Pont de Nemours & Company.

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Nexthermal heaters...



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and portable

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controlled substances
and creating snow

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systems to detect
parts per billion

Improve aerospace hydraulic
system responsiveness and
energy efficiency

Create energy savings
opportunity and more
hygienic design for food
production companies

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*Imagine what we can do when we
combine experience and innovate together.*