

nextThermal[®]
smart heat management

Heat Cartridge Heater Solutions

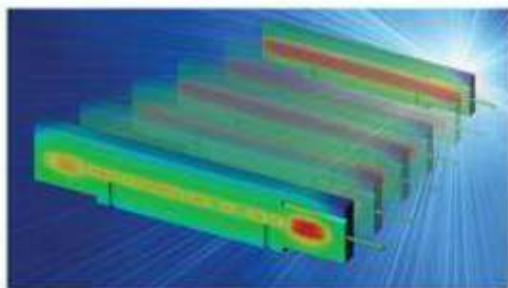


fewer system amps
longer life
25% energy savings
faster responding

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



This chart is representative of standard cartridge heater configurations. Please call Nextthermal 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.



Industrial Heat Sources

PO Box 770327
1414 Riverside Drive, Suite 204
Lakewood, Ohio, 44107
Tel: 844-862-7880
Fax: 216-862-7979
Email: info@ihshotair.com
Website: www.ihshotair.com

Nexthermal heaters...



Improve effectiveness and life of electric vehicle batteries

Extend the capabilities of existing hot runner injection molding designs and assist new product development

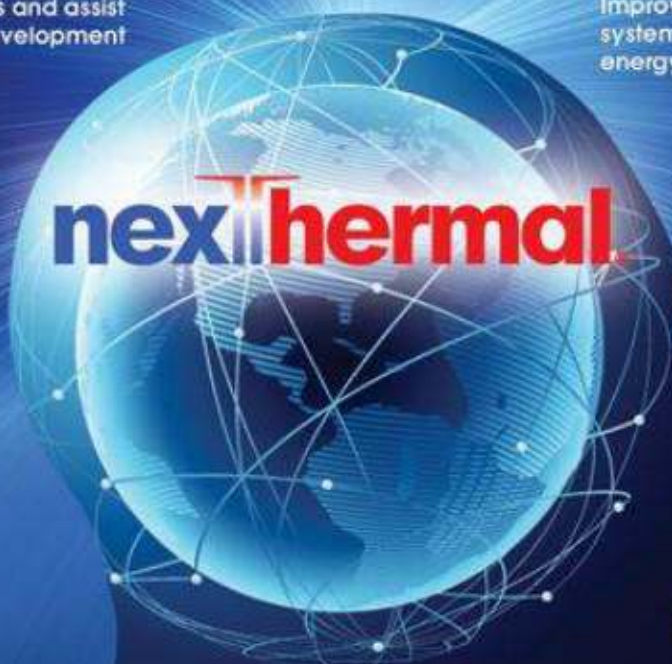
Helped make disease detection of Malaria, Bird Flu and more than 2000 other diseases faster, more affordable and portable

Participated in the 2010 Olympics testing for controlled substances and creating snow

Enable mass spectrometry 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



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