

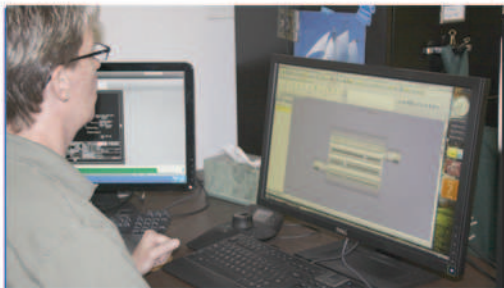


## Coil Heater Solutions

[www.nexthermal.com](http://www.nexthermal.com)



## who is Nexthermal?



Nexthermal is a new name for a company that has focused its passion and energy to the creation of electric heating elements, systems and engineering services since 1986. Nexthermal solves heating application challenges and creates dramatic process capability improvements for our customers.

Our customers' requirements, product development plans and competitive position in the marketplace drive our smart heat management innovation. Ingenuity, collaboration and a sense of urgency converts concepts to products and capabilities.

*If heat is vital to your process...  
add **Nexthermal** to your team!*

As you engage **Nexthermal** our goal is that you conclude we are:

- **Approachable** — Sincerely committed to help you.
- **Dynamic** — Responding with a sense of urgency.
- **Knowledgeable** — Your heat management expert.
- **International** — United States roots with a global reach.



# Standard Coil Heater Configuration Chart



Coil Heater Type	Profile Imperial		Minimum Bending Radius		Voltage	Maximum Ratings				Thermo-couple		Sheath Material	
						Watt Density		Straight Heated Length		Inbuilt*		SS321	Nickel
	inches	mm	inches	mm		Without Pressed on Sheath	With Pressed on Sheath			J	K		
Micro Mini	.039x.067	1.0x1.7	0.118	3.00	240	38.7	52	112.2	2850	●	●	●	●
Mini Flat	.051x.090	1.3x2.3	0.118	3.00	240	38.7	52	112.2	2850	●	●	●	●
Mini Round	0.055	1.40	0.118	3.00	240	38.7	52	112.2	2850	●	●	●	●
Mini Round	0.070	1.80	0.118	3.00	240	38.7	52	112.2	2850	●	●	●	●
Square	.118x.118	3.0x3.0	0.25	6.35	240	38.7	52	86.6	2200	●	●	●	●
Flat	.071x.126	1.8x3.2	0.25	6.35	240	38.7	52	86.6	2200	●	●	●	●
Flat	.087x.165	2.2x4.2	0.25	6.35	240	38.7	52	86.6	2200	●	●	●	●
Flat	.098x.134	2.5x3.4	0.25	6.35	240	38.7	52	86.6	2200	●	●	●	●
Round	0.118	3.00	0.25	6.35	240	38.7	52	86.6	2200	●	●	●	●
Round	0.125	3.18	0.25	6.35	240	38.7	52	86.6	2200	●	●	●	●
Round	0.126	3.20	0.25	6.35	240	38.7	52	86.6	2200	●	●	●	●
Round	0.157	4.00	0.25	6.35	240	38.7	52	86.6	2200	●	●	●	●
Maxi	.181x.338	4.6x8.6	0.40	10.16	380	87	90	86.6	2200	●	●	●	●

\*Externally wound thermocouples are available for all Nexthermal coil heaters.

Coil ID	Tolerance ID With Pessed on Sheath	Coil ID (mm)	Standard Coil Tolerance on ID		Coil ID (mm)	Maxi Coil Tolerance on ID
			<30 mm Long	≥30 mm Long		
Mini	+ .05 to + .10	6.5-12	- .05 to - .2	- .1 to - .3	30-49	- .1 to - .3
Standard Coil	+ .05 to + .10	13-30	- .01 to - .3	- .2 to - .4	50 +	- .2 to - .4
Maxi	+ .05 to + .15	31-50	- .2 to - .4	- .3 to - .6		

Lead Options		Temp. Rating		Movement	Moisture
		°F	°C		
	Teflon (Standard)	500	260	Excellent	Excellent
	High Temp Fiberglass (Not Available on Minis)	932	500	Not Recommended	Not Recommended

Standard wattage tolerance for Nexthermal coil heaters is ±10%. Premium wattage tolerance is ±5%. Standardized heaters may be designed with tighter than published wattage tolerances. Consult Nexthermal Engineering.

Additional Options			Coil Heater Assemblies			Lead Protection		
Pressed on Sheaths		ID/OD Tube	Mini Coil Heaters		All Coil Heaters Pressed in Brass	Fiberglass Sleeve	Braided Metal Sleeve	Armor Cable
With Tab	Without Tab		Hotlock	Axial Clamp				
								





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# Coil Heater Assemblies



## Mini Coil Heaters

Nexthermal offers a range of minicoil heaters, flat and round for when space constrained. We can wind in thermocouples and support a bending radius of .125".



## 1.8 x 3.2mm Flat Coil Heater

The power of a Nexthermal coil heater, supporting internal TC and a bending radius of .167".



## 2.2x 4.2mm Flat Coil Heater

Thin enough to keep net outer diameter to a minimum, wide enough to bring more power to heating surface. Supports internal TC. Bending radius .250".



## 2.5 x 3.4mm Coil Heater

Our most popular coil heater and a standard for OEMs. Internal TC option. Bending radius .250".



## 3.0mm, 3.18 mm and 4.0 mm Round Coil Heater

Proven coil heater product excellent for form in groove and 3D heating applications. Internal TC. Minimum bending radius .250".



## 4.6 x 8.6 Maxi Coil Heater

Highly durable heater used in large format injection molding and diecast applications. Minimum bending radius .375".

## Coil Heater Based Assemblies



Hotlock



Axial Clamp Heater



Pressed in Brass Heater