

Coil Heater Solutions





who is Nexthermal?







Nexthermal is a new name for a company that has focused passion and energy toward 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 Marthermal 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 — American roots with a global reach.

Standard Coil Heater Configuration Chart

						Ma	ximum	Rating	s				Sheath Material SS321 Nickel	
Coil Heater	Profile		Minimum Inside		Voltage	Watt Density (per sq. inch)		Straight Heated		Thermo- couple			Nickel	
Туре	100000	Profile												
	inches	mm	inches	mm		on Sheath	on Sheath	Brass	inches	mm	J	K		
Micro Mini	0.039×.067	1.0×1.7	0.236	6.00	240	38.7	52	80	112.2	2850				
Mini Flat	0.051×.090	1.3x2.3	0.236	6.00	240	38.7	52	80	112.2	2850				
Mini Round	ø0.055	ø1.4	0.236	6.00	240	38.7	52	80	112.2	2850				
Mini Round	Ø0.070	ø1.8	0.236	6.00	240	38.7	52	80	112.2	2850				
Square	0.118×.118	3.0×3.0	0.472	12.00	240	38.7	52	80	86.6	2200				
Flat	0.071×.126	1.8x3.2	0.472	12.00	240	38.7	52	80	86.6	2200				
Flat	0.087×.165	2.2x4.2	0.472	12.00	240	38.7	52	80	86.6	2200				- 1
Flat	0.098x.134	2.5x3.4	0.472	12.00	240	38.7	52	80	86.6	2200				
Round	ø0.118	ø3.0	0.472	12.00	240	38.7	52	80	86.6	2200				
Round	ø0.125	ø3.18	0.472	12.00	240	38.7	52	80	86.6	2200				
Round	ø0.157	ø4.0	0.472	12.00	240	38.7	52	80	86.6	2200				
Maxi	0.181x.338	4.6X8.6	0.80	20.00	480	87	97	95	86.6	2200				

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

Coil ID	Tolerance ID with Pressed on Sheath(mm)
Mini	+0.05 to +0.10
Standard	+0.05 to +0.10
Maxi	+0.05 to +0.15
Clamping	strap recommended above 2".

Coil ID	Mini, Standard & Maxi ID Tolerance						
(mm)	<30mm Long	≥30mm Long					
6.5-12	-0.05 to -0.2	-0.1 to -0.3					
13-30	-0.1 to -0.3	-0.2 to -0.4					
31-50	-0.2 to -0.4	-0.3 to -0.6					
	over 50mm - specified on	your drawing					

Lead Options	Temp.	Rating	Movement	Moisture	
roso open	°F	C	Management.		
Teflori (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. Hotlock and Axial Clamp heaters are available with ± 2% wattage tolerance.

Ado	ditional Opt	ions	Coil	Heater Asser	nblies	Lead Protection			
Pressed on Sheaths			Mini Coil Heaters		All Coil Heaters	Fiberglass	Braided	Armor	
With Tab	Without Tab	ID/OD Tube	Hotlock	Axial Clamp	Pressed in Brass	Fiberglass Sleeve	Metal Sleeve	Cable	
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Coil Heater Profiles



Mini Coil Heaters

Nexthermal offers a range of mini coll heaters. flat and round for when space is constrained. We can wind in thermocouples and support a bending radius of 3mm.



The power of a Nexthermal call heater in a smaller size with a bending radius of 6mm.





2.2 x 4.2mm Flat Coil Heater

Thin enough to keep not outer diameter to a minimum, wide enough to bring more power to heating surface. Supports internal TC. Bending radius arms.

2.5 x 3.4mm Coil Heater

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





3.0mm, 3.18mm and 4.0mm Round Coil Heater

Proven coll heater product excellent for form in growe and 3D heating applications. Internal TC. Minkhum bending radius 6mm.

3.0mm Square Coil Heater

Structurally sound and increases the surface area in contact with form in groove assemblies and applications.





4.6 x 8.6mm Maxi Coil Heater

Highly durable heater used in large format injection molding and diecast applications. Minimum bending radius 10mm.

