

Infrared Heater



Who is Nexthermal ?

Unlock the Power of Precision Heating with Nexthermal

At Nexthermal, we specialize in crafting custom-built electric heaters and temperature sensors tailored for industrial manufacturing and innovative product development. When heat and sensing are critical to your operations, our bespoke solutions provide the most cost-effective enhancements for your unique conditions.



"Nexthermal harnesses cutting-edge technology and unparalleled industry expertise to create robust heating solutions."

Partner with us to design the perfect temperature sensors and heaters for your needs.

By integrating your specific process knowledge and goals with our thermal transfer expertise, we can achieve:

- Reduced Cycle Times
- Enhanced Product Quality
- Increased Throughput Capabilities

Experience the transformative power of precision heating with Nexthermal.

CERTIFICATE



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As your partner, Nexthermal Strives to be:

Approachable - Welcoming discussions, highly interested in the details of your application. Sincerely committed to helping you succeed.

Dynamic - Responding with a sense of urgency, proactively anticipating and planning for challenges, demonstrating agility that incorporates your input and experience to accelerate the best solution.

Knowledgeable - Our application experience and ability to understand your process will generate market driven solutions, which leads you to clearly see that Nexthermal is your heat management expert.

International - HQ in the United States, we have a global reach. With customers and strategic partners worldwide, Nexthermal has the resources to generate the right solution delivering world class benefits well beyond your investment in our products and services.

Innovative - Delivering application-based solutions with your requirements in mind. Developing new product capabilities to address emerging needs.

Milestone

1986

Hotset Corporation established in Battle Creek, Michigan as a separate entity and strategic partner to Hotset GmbH.

1991

Initial cartridge heater produced.

1998

U.S. coil heater production launched.

2002

Pressed-in-Brass coil heater introduced.

2003

Production facility expanded.

2006

Manufacturing begins in Bangalore, India. Introduced anti-seize coating and highly moisture resistant coil heater head.

2008

Selected as the exclusive Elstein marketing agent in the United States.

2009

Hotflow circulation heater invented, targeting electric vehicle, medical, and food production markets.

2010

Renamed Nexthermal to emphasize commitment to heat management solutions worldwide. Introduced eheat energy efficient cartridge heaters.

2012

Nexthermal Thermal Solution team created, providing customers with advanced thermal modeling and design capabilities for development projects.

2014

Nexthermal becomes a 100% U.S. owned company. Introduced Nextflex Flexible Tubular Heater. Began manufacturing Thermocouples.

2015

Received certified minority-owned business certification. Expanded U.S. manufacturing facility.

2018

Began initial planning stage for another production expansion.

2022

Nexthermal India In-house R&D recognized by The Department of Scientific and Industrial Research.

SINCE 1986

Full Trough (FTE)



Electrical Data

Wattage (W)	150	250	300	400	500*	650*	750	800	1000*
Mean surface temp (°C)	272	351	405	480	515	596	624	639	726
Max Power Density (kW/m2)	9.2	15.3	18.4	24.6	30.7	40	46.1	49.2	61.5

245 x 60 x 34 mm

Half Trough Element (HTE)



Electrical Data

Wattage (W)	125	150	200	250	300	325*	400	500*
Mean surface temp (°C)	351	405	480	515	561	596	636	726
Max Power Density (kW/m2)	15.1	18.1	24.2	30.2	36.3	39.3	48.4	60.5

122 x 60 x 34 mm

Square Flat Solid Element (SFSE)



Electrical Data

Wattage (W)	150	250	400*	500	600*	650	1000
Mean surface temp (°C)	272	351	480	515	561	596	700
Max Power Density (kW/m2)	9	15	24	30	36	39	60

122 x 122 x 26 mm

Full Flat Element Hollow (FFEH)



245 x 60 x 36 mm

Electrical Data

Wattage (W)	400	500	600*	800	1000
Mean surface temp (°C)	495	550	607	684	755
Max Power Density (kW/m ²)	24	30	36	48	60

Half Flat Element Hollow (HFEH)



122 x 60 x 36 mm

Electrical Data

Wattage (W)	200	250	300	400	500
Mean surface temp (°C)	495	550	607	684	755
Max Power Density (kW/m ²)	24	30	36	48	60

Quarter Flat Element Hollow (QFEH)



60 x 60 x 36 mm

Electrical Data

Wattage (W)	125	250
Mean surface temp (°C)	550	755
Max Power Density (kW/m ²)	30	60

Square Flat Infrared Element Hollow (SFEH)

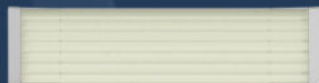


122 x 122 x 37.5 mm

Electrical Data

Wattage (W)	400	500	600*	800	1000
Mean surface temp (°C)	497	548	602	710	755
Power Density (kW/m ²)	24.8	31	37.2	49.6	60

Full Quartz Element (FQE)



247 x 22.5 x 62.5 mm

Electrical Data

Wattage (W)	150	250	300	400*	500	650	750	1000*
Mean surface temp (°C)	343	438	477	542	593	664	690	772
Max Power Density (kW/m ²)	8.8	14.6	17.6	23.5	29.3	38.2	44	58.7



Half Quartz Element (HQE)



123.5 x 22.5 x 62.5 mm

Electrical Data

Wattage (W)	150	250	325	400*	500*
Mean surface temp (°C)	477	593	664	709	722
Max Power Density (kW/m ²)	17.2	28.7	37.3	45.99	57.4



Quarter Quartz Element (QQE)



62.5 x 62.5 x 22.5 mm

Electrical Data

Wattage (W)	150	250*
Mean surface temp (°C)	642	772
Max Power Density (kW/m ²)	32.9	54.8



Square Quartz Element (SQE)



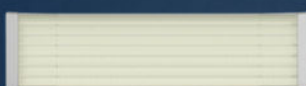
123.5 x 123.5 x 22.5 mm

Electrical Data

Wattage (W)	150	650	1000
Mean surface temp (°C)	343	664	772
Max Power Density (kW/m ²)	8.8	38.2	58.7



Pillared Full Quartz Element (PFQE & PFQE-L)



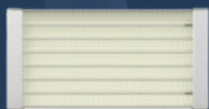
247 x 62.5 x 59 mm

Electrical Data

Wattage (W)	150	250	400	500	650	750	1000*
Mean surface temp (°C)	343	438	542	593	664	690	772
Max Power Density (kW/m ²)	8.8	14.6	23.5	29.3	38.2	44	58.7



Pillared Half Quartz Element (PHQE)

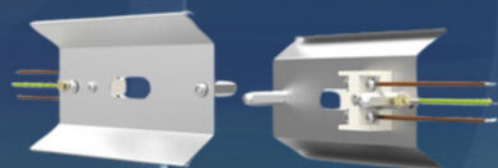


123.5 x 62.5 x 59 mm

Electrical Data

Wattage (W)	250	325	400	500*
Mean surface temp (°C)	593	664	720	772
Max Power Density (kW/m2)	28.7	37.3	45.9	57.4

Reflector Aluminised Clad Steel - RAS



Reflector Material : Polished aluminium clad steel
Mounting Studs : M6 X 2 Nos
Leads : 300mm high temperature fiberglass insulated

Electrical Data

RAS Model	0.5	1	2	3	4	5
Max.Wattage(W)	500	1000	3000	3000	4000	5000
Designed For	HTE/HFEH	FTE/FFEH	FTE/FFEH	FTE/FFEH	FTE/FFEH	FTE/FFEH



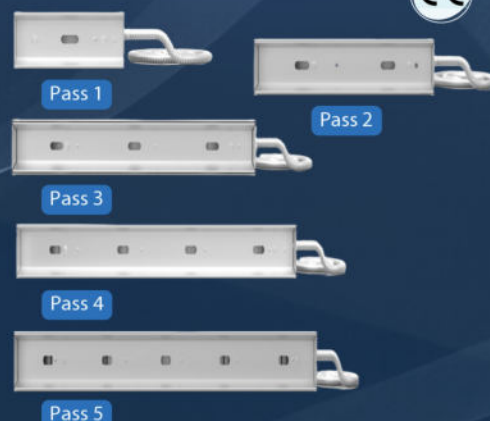
Projector Aluminum Clad Steel (PAS)



- Ideal solution in areas where positional heat is required quickly, economically and effectively.
- Reflector material 0.75mm aluminium clad steel . Ø 16 mm metal conduit, length 1.5m.

Electrical Data

Model	Max.Wattage(W)
Pass 1	650
Pass 2	1300
Pass 3	1950
Pass 4	2600
Pass 5	3250
Designed for FTE / FFEH	



For more details about IR heaters ,customized heaters and engineering solutions, reach out to our sales and technical team.



UNITED STATES

Headquarters, Manufacturing
Location & Sales Office :
Battle Creek,
Michigan
Phone:
(269) 964-0271
Email:
sales@nexthermal.com



INDIA

Manufacturing Location &
Sales Office : Bengaluru,
Karnataka
Phone:
1800-891-9863
Email:
sales@nexthermal.in



CHINA

Sales Office :
Dongguan,
Guangdong
Phone:
138-0982-5158
nexthermal_china@outlook.com



Explore more about us



APPLICATION



Nexthermal has experience in a diverse range of industries with the ability to offer solutions for various applications.

PRODUCTS & SERVICES

HEATERS



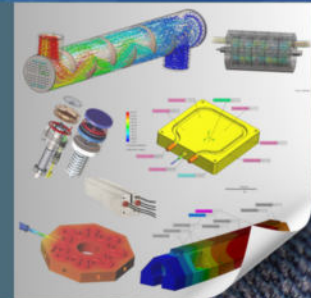
- Cartridge / Rod Heaters
- Coil/Cable/ Nozzle Heaters
- Nextflex Flexible Tubular Heaters
- Tubular Heaters
- Infrared Heaters
- Silicone Rubber Heaters

OTHER PRODUCTS



- Temperature Sensors
- Temperature Control Panels
- SpecView SCADA Software
- UL-Rated Wiring Harnesses

SERVICES



- Thermal Design & Analysis
- Assemblies & System Solutions