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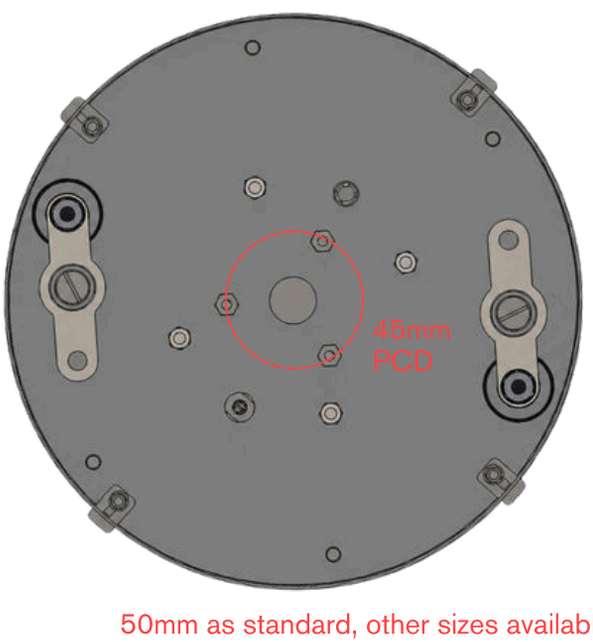
Thermic Edge
Vacuum Heating Technology

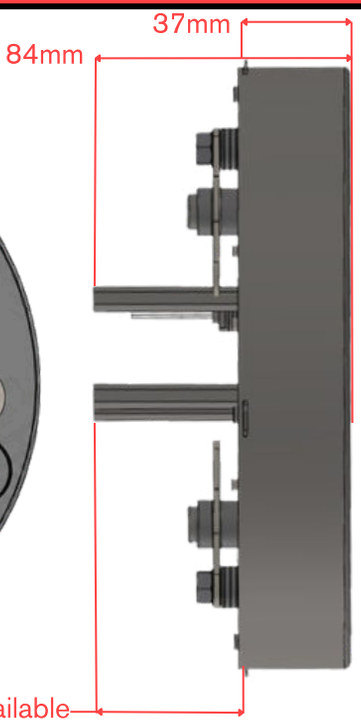
SAMPLE MULTIPURPOSE HEATERS RANGE

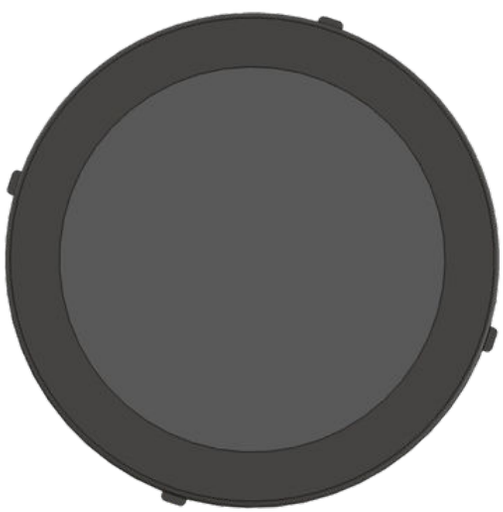
Thermic Edge's Sample Heater provides a flexible solution for precise sample heating across a wide range of vacuum and controlled atmosphere applications, including CVD, PVD, ALD, surface science, thin film deposition and materials research.

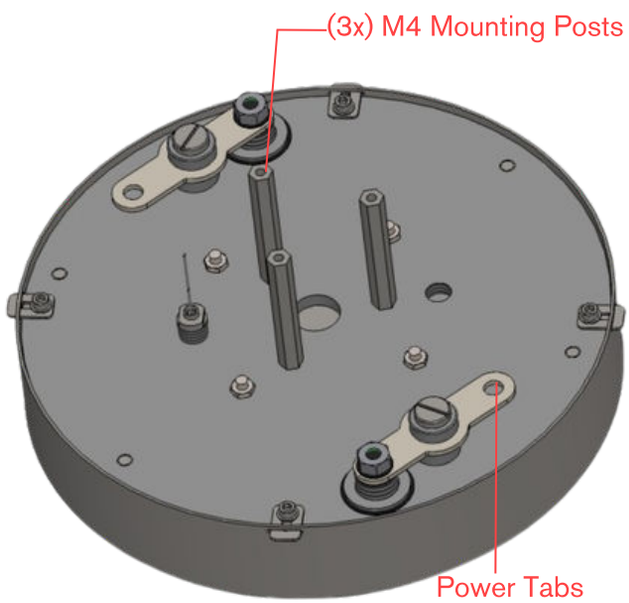
Its modular design allows the heater body, heating element and mounting configuration to be changed or upgraded to suit different materials, chamber layouts and process requirements. High power density supports rapid temperature ramping, while the low mass construction helps reduce cooling times between process cycles. Combined with strong thermal uniformity across the heated area, the Sample Heater offers reliable and consistent performance for both research and industrial sample heating applications.

HEATER SIZES:

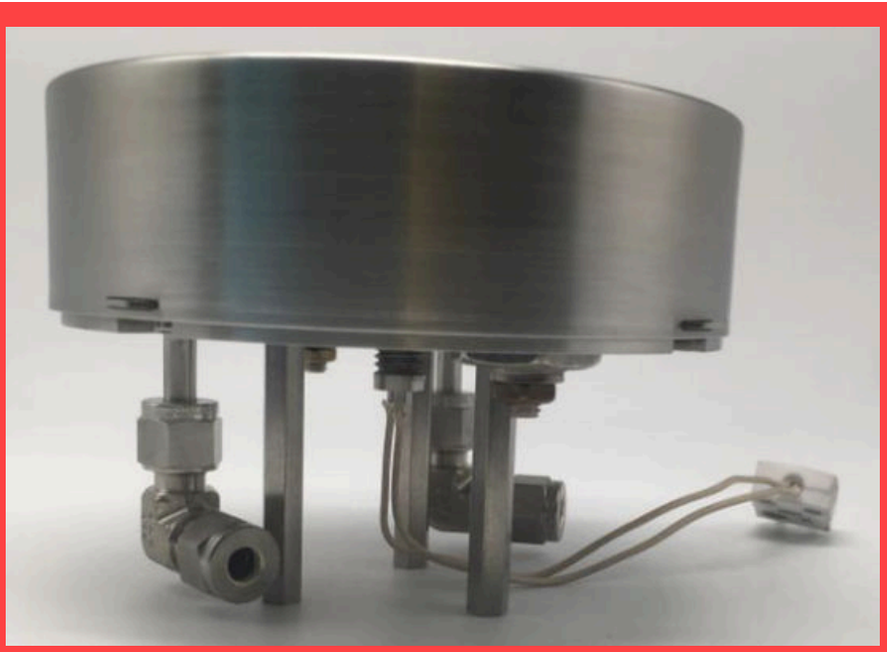








Heater body materials range:
st/stl 304, Inconel alloy 600, Molybdenum, Tungsten.
Element Range:
CCC, Graphite + SiC coating (O2 compatible), Graphite.
The sample heater can be supplied with or without a ceramic top plate, and with various sample holder options. The sample heater has rear mounting posts, and can be mounted in any orientation. Sprung heater thermocoouple with option of additional thermocouple on certain heater sizes



SAMPLE HEATER STANDARD RANGE

1000c ceramic top plate temperature with inconel body, alumina / inconel heatshields and G + SiC3 element. For use in Ultra high vacuum, High Vacuum, O2, N2, H2, Inert and atmospheric conditions. Change this to that.

Part No.	Hot zone ø	o.d. (mm)	Power (KW)	Heatshields	Element	Power legs	Ceramic supports	Top plate	TC
VH-2-1000-GS-O2	2"	105	1.5	Al2O3+In600	G + SiC	Nickel	Alumina	ABN2000	K
VH-3-1000-GS-O2	3"	130	2.1	Al2O3+In600	G + SiC	Nickel	Alumina	ABN2000	K
VH-4-1000-GS-O2	4"	170	4.5	Al2O3+In600	G + SiC	Nickel	Alumina	ABN2000	K
VH-6-1000-GS-O2	6"	203	6.0	Al2O3+In600	G + SiC	Nickel	Alumina	ABN2000	K

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1000c ceramic top plate temperature with molybdenum body, heatshields and CCC element
For use in High vacuum, N2 or inert atmosphere

Part No.	Hot zone ø	o.d. (mm)	Power (KW) Approx	Heatshields	Element	Power legs	Ceramic supports	Top plate	TC
VH-2-1000-CC-HV	2"	105	0.6	Moly	CCC	Moly	Alumina	ABN2000	K
VH-3-1000-CC-HV	3"	130	1.2	Moly	CCC	Moly	Alumina	ABN2000	K
VH-4-1000-CC-HV	4"	158	2.2	Moly	CCC	Moly	Alumina	ABN2000	K
VH-6-1000-CC-HV	6"	203	3.3	Moly	CCC	Moly	Alumina	ABN2000	K

1600c ceramic top plate temperature with molybdenum body, heatshields and CCC element
For use in High vacuum, N2 or inert atmosphere.

Part No.	Hot zone ø	o.d. (mm)	Power (KW) Approx	Heatshields	Element	Power legs	Ceramic supports	Top plate	TC
VH-2-1600-CC-HV	2"	99	2.2	Moly	CCC	Moly	Alumina	ABN2000	C
VH-3-1600-CC-HV	3"	130	4.0	Moly	CCC	Moly	Alumina	ABN2000	C
VH-4-1600-CC-HV	4"	158	7.2	Moly	CCC	Moly	Alumina	ABN2000	C
VH-6-1600-CC-HV	6"	203	11.2	Moly	CCC	Moly	Alumina	ABN2000	C

Abbreviations:
ABN2000 = AlN +BN ceramic
CCC = Carbon carbon composite
G + SiC = Silicon carbide coated graphite,
Moly = Molybdenum,
st/stl = Stainless steel,
PBN = Pyrolytic Boron Nitride,
PG = Pyrolytic Graphite,
AlN = Aluminium Nitride,
TC = Thermocouple,
Al2O3 = Alumina, In600 = Inconel Alloy 600.

Alternative elements also available on request: - Graphite + PBN coating, PBN/PG/PBN ceramic composite, Moly, Tantalum, CCC + PG coating

Alternative top plate materials also available: Alumina, AlN, PBN, Graphite + PBN, Sapphire, SiC coated graphite.

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