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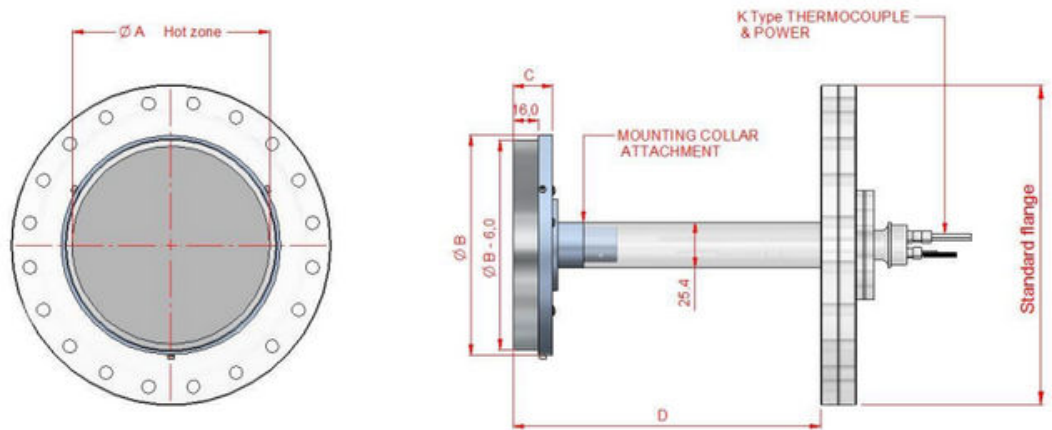
800°C CERAMIC TOPPED IN VACUUM FLANGE MOUNTED HEATER WITH NICR FILAMENT

Features

- 800C Ceramic top plate temperature (1000C Element temperature)
- Integrated type K thermocouple and power feedthroughs
- Ramp rate up to 400C per Minute
- Can be mounted in any orientation
- Element head is detachable for in chamber mounting through small ports.
- Reliable low cost proven design.
- For use in high vacuum, inert atmosphere and O₂ / air.
- Custom sizes available on request.
- Can be used as direct replacement for Halogen lamp heaters
- Additional outer heatshield available as an option.
- Water cooling of additional outer heatshield available as an option.



Heater with water cooled outer heatshield



In Vacuum @1000C

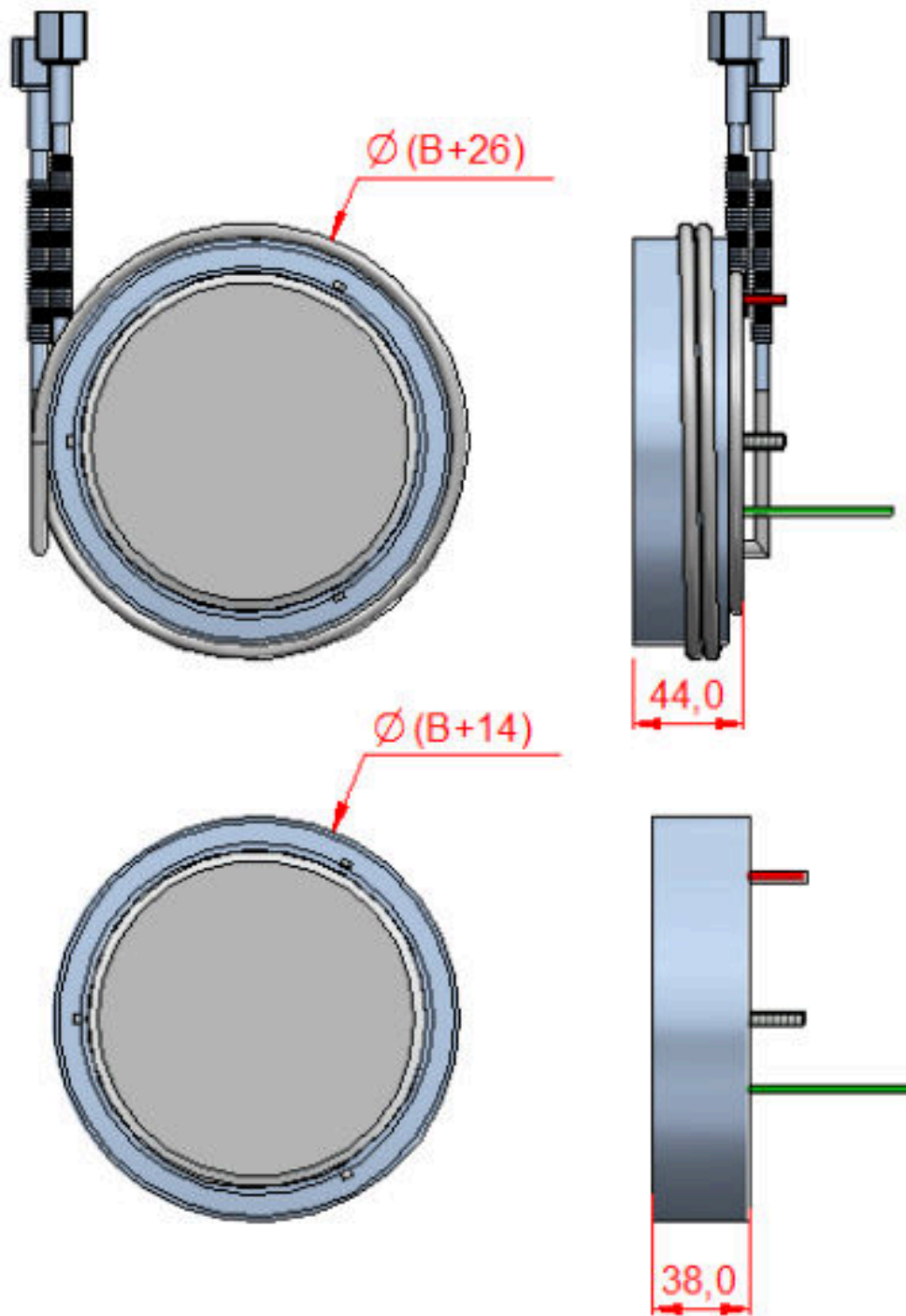
Part No	ØA – Hot Zone	ØB – Heater o.d.	C – Heater Thickness	O.D. cooled shield OPTION	Voltage Max	Current Max	Power Max
HCBF-NCR-02	52 (2")	66	25	92	40	10	400
HCBF-NCR-03	78 (3")	92	25	118	85	15	1275
HCBF-NCR-04	105 (4")	119	25	145	110	15	1650
HCBF-NCR-05	129 (5")	143	25	169	170	17	2890
HCBF-NCR-06	156 (6")	170	25	196	200	20	4000
HCBF-NCR-07	179 (7")	193	25	219	125	36	4500
HCBF-NCR-08	205 (8")	219	25	245	150	36	5400

Power, voltage and current figures are an indication only. Heaters can be made with different voltages and power densities.

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Drawing showing heater with additional outer heatshield & water cooling option

(M6 Stud, shown below, would not be present for flange mounted heater option)



- Outer heatshield improves heater uniformity and reduces heat load on chamber
- Water cooling using $\varnothing 6.0\text{mm}$ tube wrap
- Connection via 4VCR or swagelok fittings.
- Can be supplied with flexible bellows hoses.
- Cooling water flow rate 1 ltr/min @ ambient temperature