INFRARED ELEMENTS IN CERAMIC HTE-K
HALF TROUGH ELEMENT WITH THERMOCOUPLE

BACKER

Properties

The standard range of ceramic infrared elements in stock are used in a wide range of industrial and engineering applications such as thermoforming, packaging, paint curing, printing, drying, gluing, sterilisation, roasting etc. They are also very effectively in infrared outdoor heaters and saunas.

Most plastics and many other materials absorb infrared best in wavelength 2-10 µm, which makes the ceramic heater the most popular radiant emitter on the market.

Technical specification

Material	Ceramic solid body in white glace colour with an embedded high temperature resistance wire and a built-in thermocouple type K
Heater voltage	230 V
Operating temperature	Max permissible 750°C
Useful wave-length range	2 to 10 µm (microns) long wavelength
Dimensions	122x60x34 mm
Average weight	135 g
Electric connection	100 mm ceramic beaded power leads
Assembly	Recommended radiation distance from heater is 100 mm to 200 mm Mounting slot size oval 15x42 mm Steel wave spring and clip set included
Average operating life	Up to 20 000 hrs depending on conditions
Standards	CE, UL-499

Standard assortment

Model HTE-K	Power W	Mean surface temperature °C	Max power density kW/m²	Article no
HTE-K 125	125	351	15	3054120126
HTE-K 150	150	405	18	3054120151
HTE-K 200	200	480	24	3054120201
HTE-K 250	250	515	30	3054120251
HTE-K 300	300	561	36	3054120301
HTE-K 325	325	596	39	3054120326
HTE-K 400	400	636	48	3054120401
HTE-K 500	500	726	60	3054120501

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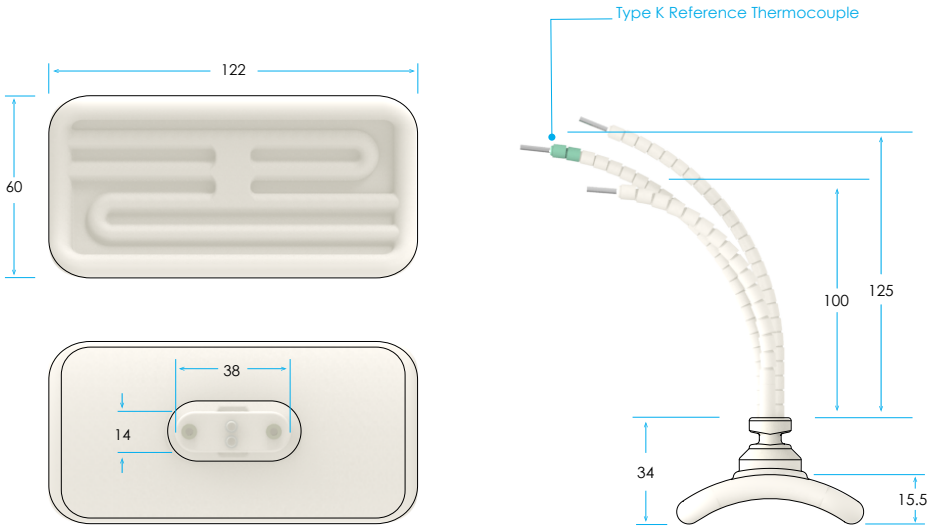
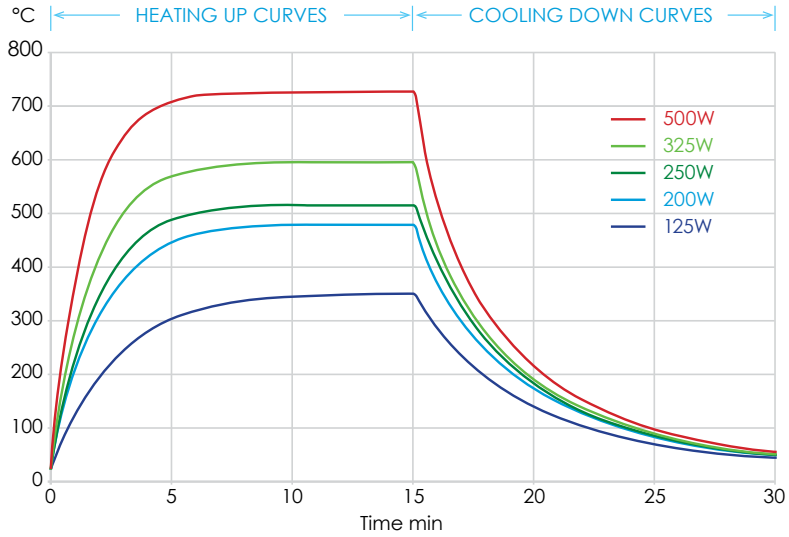


Heat up - Cool down curves



HTE HALF TROUGH ELEMENT 24.01.17

Based on tests of average surface temperature with an infrared thermometer set at an emissivity of 0.95
(element mounted in an aluminised steel reflector, RAS) Maximum approved operating temperature 750°C

Options

Reflector of aluminised steel type RAS 0.5 article no 3050018100
High temperature NPC cable and ceramic terminal blocks, different options
Mounting bracket article no 3009010301
Stainless steel bus bars 8x2x1000 mm article no 3005020305
Other voltages, wattages, lead lengths and ceramic glaze colours available on request

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