INFRARED ELEMENTS IN CERAMIC
FTE - FULL TROUGH ELEMENT

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
Heater voltage	230 V
Operating temperature	Max permissible 750ºC
Useful wave-length range	2 to 10 µm (microns) long wavelength
Dimensions	245x60x34 mm
Average weight	192 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 FTE	Power W	Mean surface temperature ºC	Max power density kW/m²	Article no
FTE 150	150	272	9	3054110150
FTE 250	250	351	15	3054110250
FTE 300	300	405	18	3054110300
FTE 400	400	480	24	3054110400
FTE 500	500	515	30	3054110500
FTE 600	600	551	36	3054110600
FTE 650	650	596	39	3054110650
FTE 750	750	624	45	3054110750
FTE 800	800	639	48	3054110800
FTE 1000	1000	726	60	3054111000

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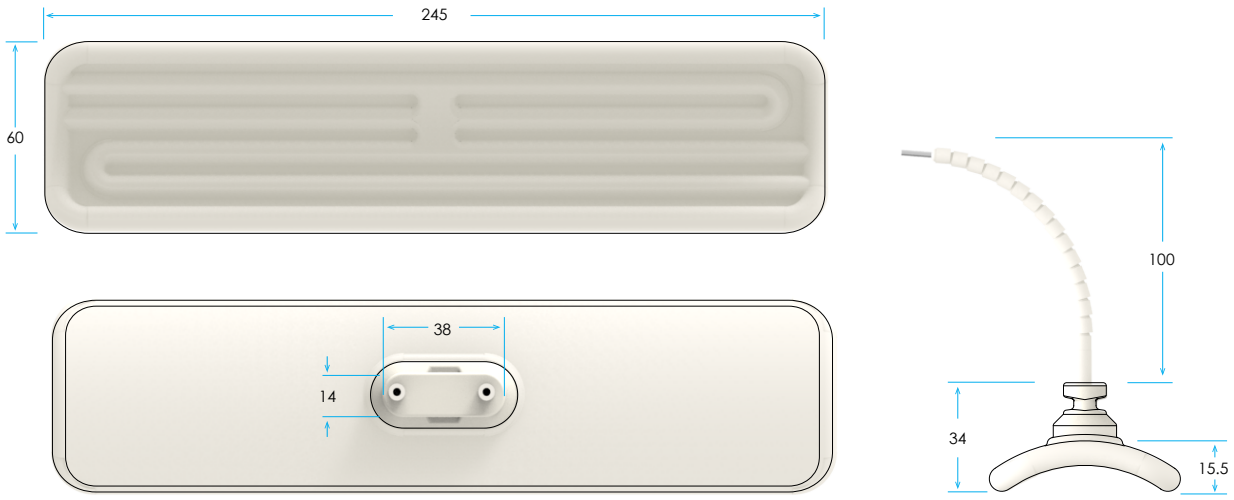
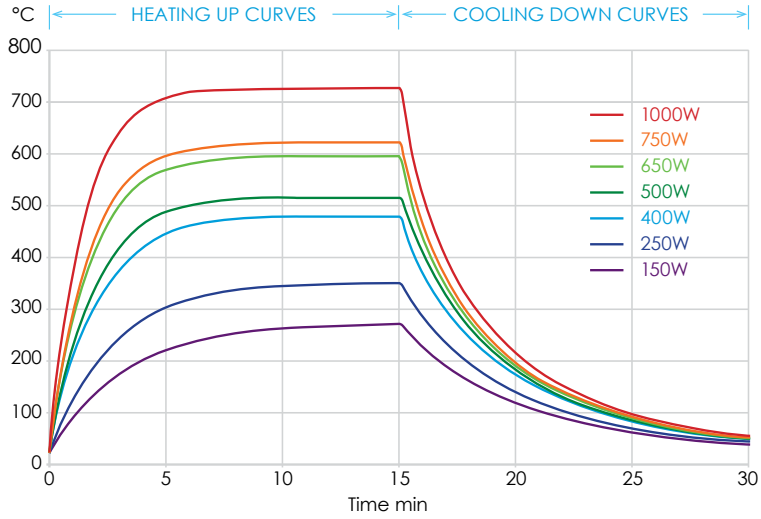


Heat up - Cool down curves



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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

Projectors type PAS, different options
Reflectors of aluminised steel type RAS, different options
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

Backer-SE-Ver.01