INFRARED ELEMENTS IN CERAMIC FFE - FULL FLAT 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.

The solid cast heater body is flat, producing a diffuse radiant output to target distance in some applications.

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	245x60x26 mm
Average weight	182 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 FFE	Power W	Mean surface temperature ºC	Max power density kW/m²	Article no
FFE 250	250	351	15	3054190250
FFE 300	300	405	18	3054190300
FFE 400	400	480	24	3054190400
FFE 500	500	515	30	3054190500
FFE 650	650	596	39	3054190650
FFE 750	750	624	45	3054190750
FFE 1000	1000	726	60	3054191000

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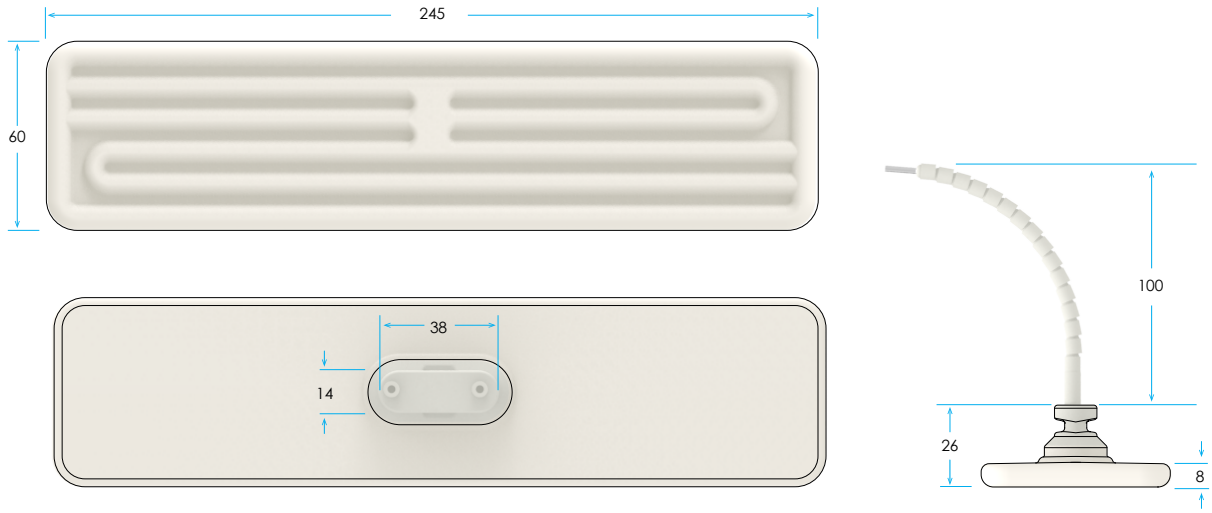
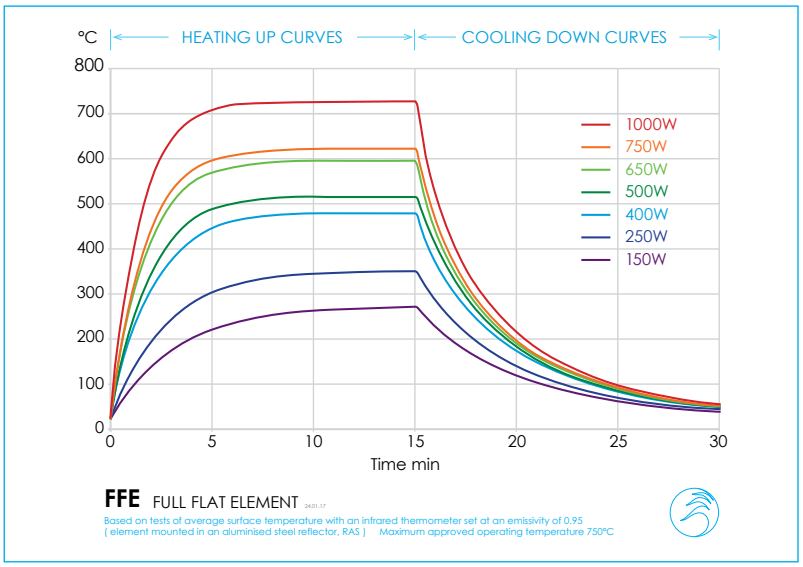


Heat up - Cool down curves



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

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