FFEH TcK - Full Flat Element Hollow TcK

Ceramic Full Flat Infrared Heating Element Hollow with type K Thermocouple

Ceramic infrared elements are used across industrial processes such as thermoforming, curing, drying, and gluing, as well as in infrared outdoor heaters and saunas. Most plastics—and many other materials—absorb infrared most efficiently in the 2–10 µm range, making ceramic heaters a preferred radiant emitter.

Hollow ceramic elements deliver uniform radiation output and are suited for installations where the emitter is positioned close to the target material. The recommended operating distance is 100–200 mm. These elements consist of a high temperature resistance alloy embedded in a lightweight hollow cast ceramic body filled with high-density insulation. This reduces rear heat loss and increases forward radiant efficiency.

Technical specification

Material	Ceramic body, black glaze, embedded resistance heating coil
Heater Voltage	230 V *(standard)*
Operating temperature	Max permissible 750°C *(1382°F)*
Useful wave-length range	2 - 10 µm *(microns)* - Long wave
Dimensions	245 x 60 x 36 mm
Average weight	302 g
Electric connection	120 mm ceramic beaded power leads 150 mm ceramic beaded thermocouple leads
Reflector thickness	Recomended thickness 0.75 - 0.9 mm *min/max thickness 0.5 - 1.5 mm*
Mounting slot size	42 x 15 mm
Element spacing	Minimum spacing between elements 5 mm
Average operating life	Up to 20,000 hrs depending on conditions
Standards	CE
Packaging (*L x W x H*)	252 x 65 x 64 mm

Standard FFEH TcK range

	Mean Surface Temperature °C	Max Power Density kW/m²
400 W	495	24
500 W	550	30
600 W	607	36
800 W	684	48
1000 W	755	60

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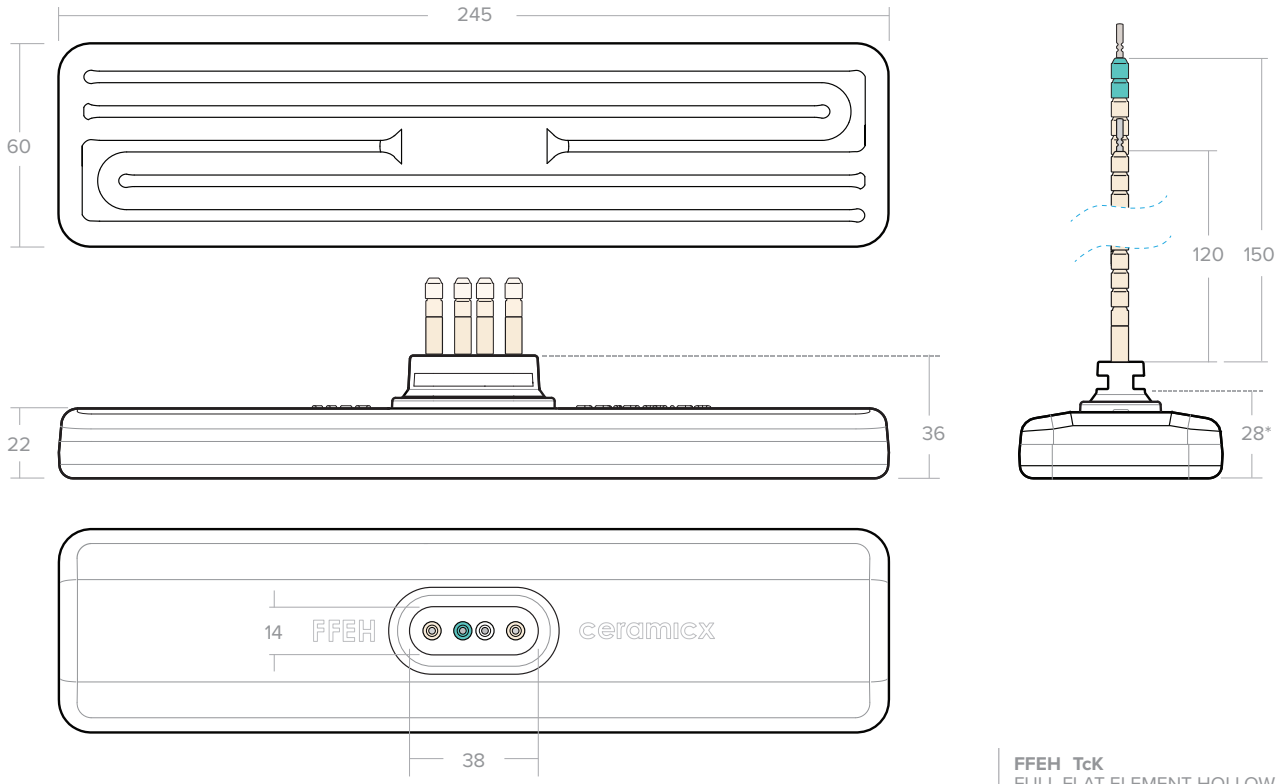

FFEH TcK
FULL FLAT ELEMENT HOLLOW
WITH TYPE K THERMOCOUPLE

Tolerances apply, all dimensions mm.
* Face of reflector - face of element using 0.75 mm reflector, mounting hole size 15 x 42 mm

25W32

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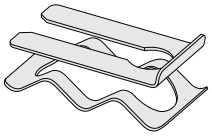
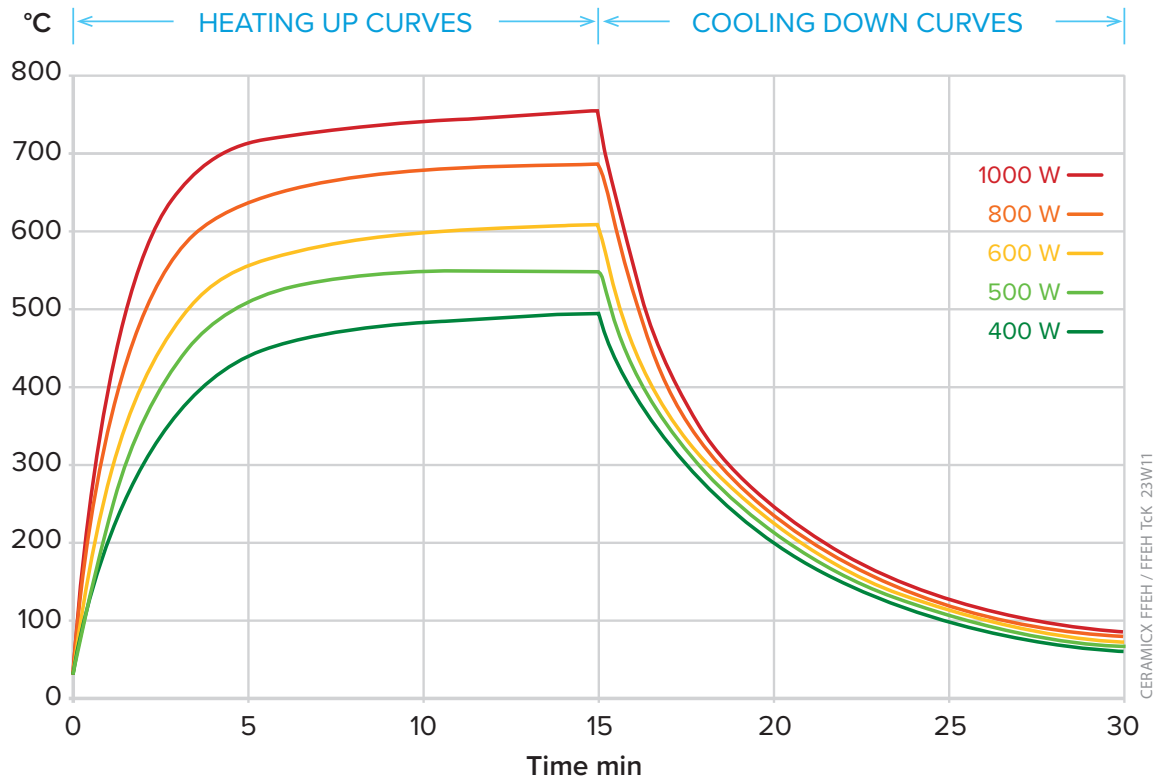
Element supplied with Wave Spring and Clip





FFEH TcK Heat up and cool down curves showing average surface temperature measured with a thermal imaging camera set to an emissivity of 0.95 (*element mounted in a polished aluminium clad steel reflector*)

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