HFEH TcK - Half Flat Element Hollow TcK

Ceramic Half 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.

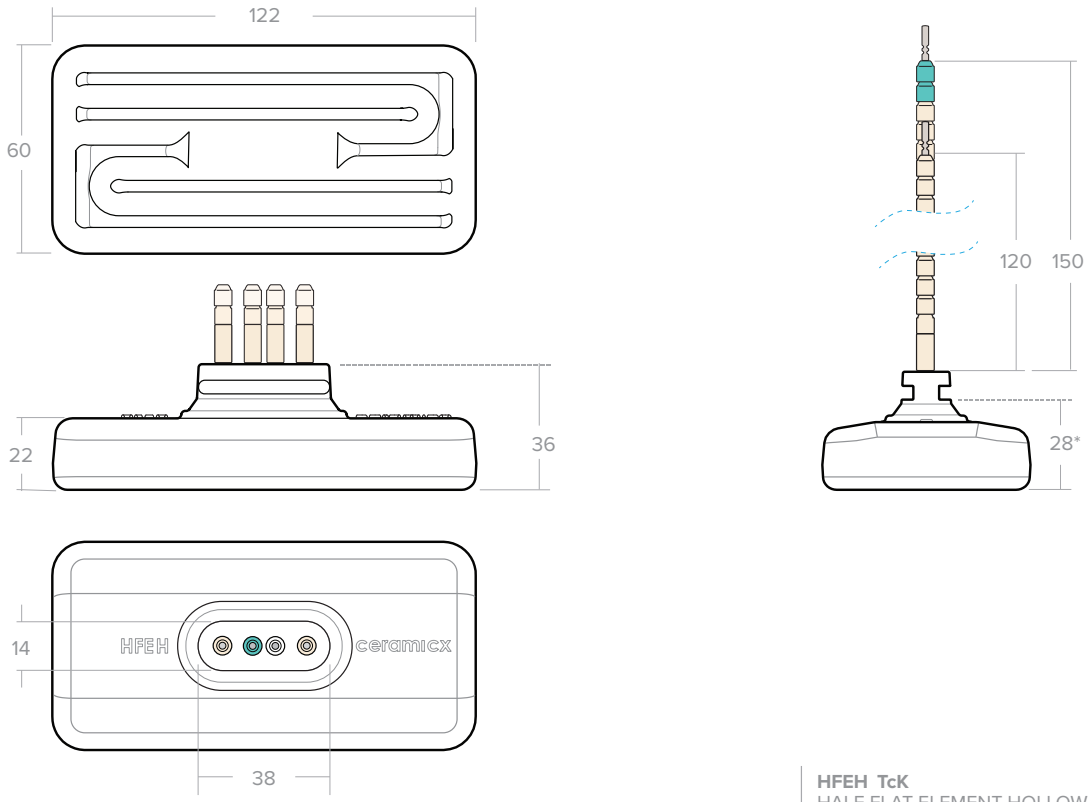
Technical specification

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	122 x 60 x 36 mm
Average weight	172 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*)	126 x 65 x 64 mm

Standard HFEH TcK range

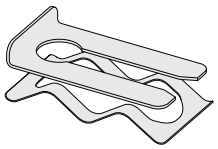
	Mean Surface Temperature °C	Max Power Density kW/m²
200 W	495	24
250 W	550	30
300 W	607	36
400 W	684	48
500 W	755	60

ceramicx
INFRARED FOR INDUSTRY
www.ceramicx.com



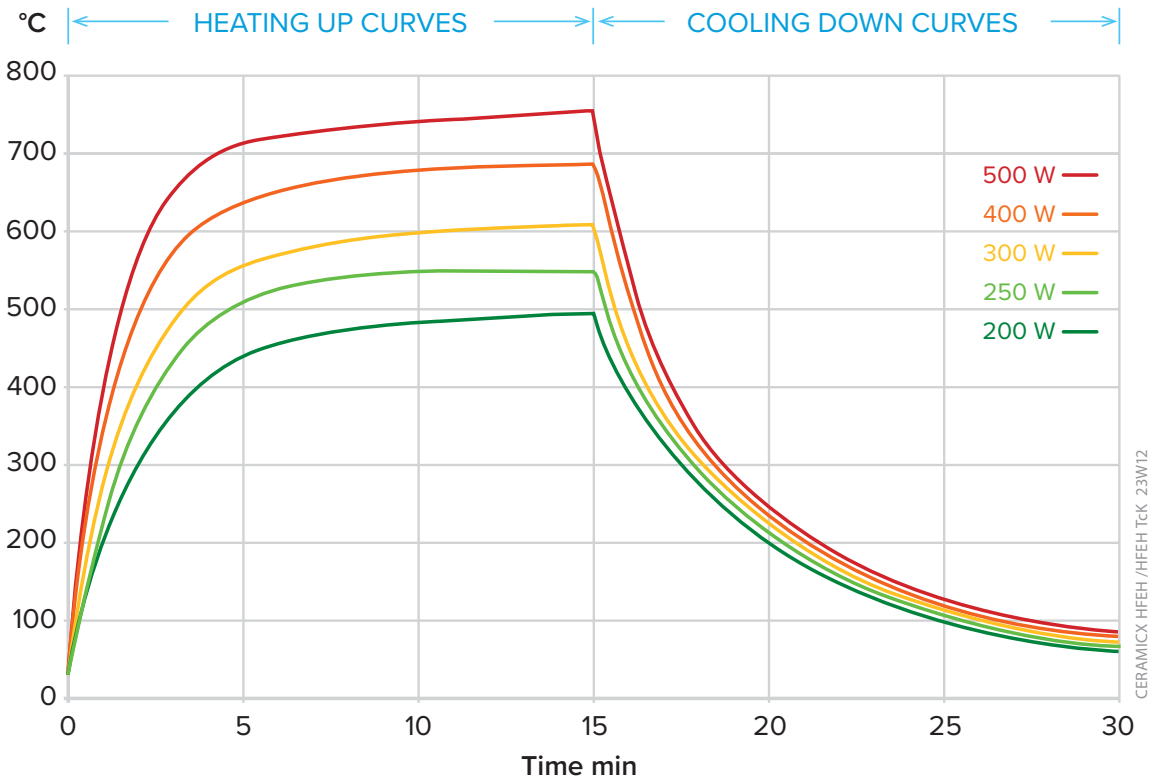
ceramicx
INFRARED FOR INDUSTRY

Element supplied with
Wave Spring and Clip



HFEH TcK
HALF 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

25W42



HFEH 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*)

CERAMICX LTD. Gortnagrough, Ballydehob, Co. Cork, P81 H026, Ireland +353 28 37510 sales@ceramicx.com