Ceramic Infrared Heater

MALTEC-H

Ceramic infrared heat elements are efficient and robust heating elements, which provide long wave infrared radiation. They are used among others for curing and drying processes. They are available in various standard sizes and power ratings. This modular approach allows arrangement of elements in a heating array providing an even heat profile over the whole target area. Elements in the array can be mounted at different heights to cater for uneven surfaces. Ceramic infrared emitters can be supplied with integrated thermocouple, allowing precise measurement and control of heating power. The ceramic infrared heat elements are manufactured by molding a resistance wire into the ceramic substance. Ceramic elements operatein the of 300°C to 700°C (572°F - 1292°F) producing infrared wavelengths in the 2 - 10-micron range. Most plastics and many other materials absorb infrared best in this range, which makes the ceramic heater the most popular infrared radiant emitter on the market. A range of aluminized steel reflectors are also available to ensure the maximum amount of infrared radiation is reflected forward to the target area.

Application

Used in a range of applications from industrial to engineering, infrared ceramic heating elements and ceramic infrared emitters (IR heat emitter) are efficient, long- lasting ceramic infrared heaters. Providing long wave infrared radiation these robust ceramic infrared heating elements have a wide array of uses including in thermoforming heaters, packaging, outdoor heaters and saunas in leisure centers. They are also used in curing, paint drying as well as a wide range of drying applications.

- Plastic Industries
  - Thermoforming & Vacuum Forming for plastification of Sheets / rolls.
  - Lamination and welding of Plastic
  - Curing / Shrinking Of PVC Paste.
- Paper Industries
  - Drying of Paper Pulp, Drying of Paper Glue.
  - Drying of Paper Coating, Adhesive Activation.
- Rubber Industries
  - Preheating & vulcanizing of rubber Sheets
  - Preheating of Synthetic Pipes before Coupling.
- Paint Industries
  - Stoving for Car Bodies epoxy. Lacquer Steel Panels
- Textile Industries
  - Drying Of finished Textile / Garments / Carpets. Setting of Nylon & Perlon Threads.
- Screen Printing
  - Ink Drying, Instruments Dial Plastic. Fascia Panel Aluminum.
- Food & Other Industries
  - Baking & Brewing of Bakery Products, Packaging Food Product.
  - Drying Tobacco, Sprayed and Powder Coating.

Material

Ceramic

Dpstar Group

Ceramic Infrared Heating Elements

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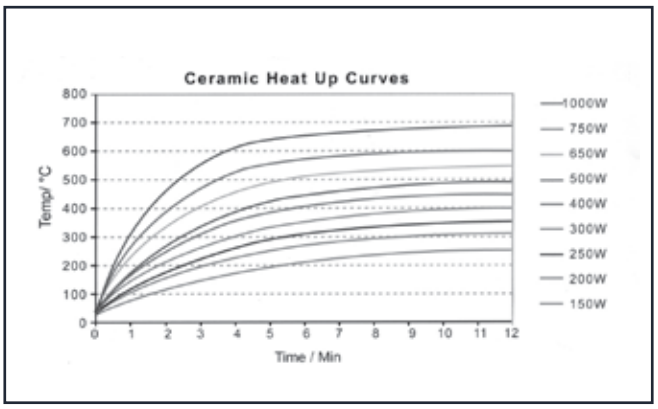

- Based on FTE test of average surface temperature with an infrared thermometer set at an emissivity of 0.9 (with the element mounted in an aluminised steel reflector, RAS)
- These temperatures also apply to the FFE and the SFSE
- For FTE and HFE devide the wattage by two For QTE and QFE devide the wattage by four

Standard Features

- Iron-chrome aluminium resistance wire.
- Heater Voltage: 230 Volts standard.(other voltages available on request)
- Useful wavelength range: 2 to 10 Microns -Average Operating Life: 5,000 - 10,000 Hours.
- Recommended radiation distance from heater is 100mm to 200 mm.
- Supplied with 100mm± 10mm ceramic beaded power leads.
- UL approved

Cat No.	Description	Wattage
HTE 200W	122 x 60mm	200 watts
HTE 250W	122 x 60mm	250 watts
HTE 325W	122 x 60mm	325 watts
HTE 350W	122 x 60mm	350 watts
HTE 500W	122 x 60mm	500 watts

Type HTE - Half Trough Emitter

Cat No.	Description	Wattage
FTE 350W	245 x 60mm	350 watts
FTE 400W	245 x 60mm	400 watts
FTE 500W	245 x 60mm	500 watts
FTE 650W	245 x 60mm	650 watts
FTE 1000W	245 x 60mm	1000 watts

Type FTE - Full Trough Emitter Suitable for most applications

Cat No.	Description	Wattage
SFSE 150W	122 x 122mm	150 watts
SFSE 220W	122 x 122mm	220 watts
SFSE 250W	122 x 122mm	250 watts
SFSE 300W	122 x 122mm	300 watts
SFSE 350W	122 x 122mm	350 watts
SFSE 400W	122 x 122mm	400 watts
SFSE 500W	122 x 122mm	500 watts
SFSE 600W	122 x 122mm	600 watts
SFSE 650W	122 x 122mm	650 watts
SFSE 800W	122 x 122mm	800 watts
SFSE 1000W	122 x 122mm	1000 watts

Type SFSE - Square Emitter