

## Ceramic Infrared Emitters

Infrared heat is an excellent non-contact heat source and is thus used in applications involving delicate surfaces, for pre-heating, softening, curing and drying.

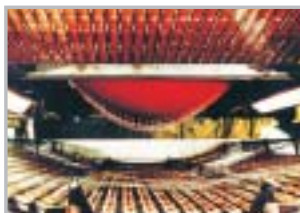
Ceramic infrared elements emit in the medium- to long wave spectrum, producing a gentle and even heat which lends itself to softening of plastic before forming. They are extensively used in the plastics industry for vacuum forming, pre-heating, softening of pipe ends before shaping, softening of Perspex before bending and heating of plastic surfaces to remove scratch marks. In the packaging industry ceramic infrared emitters are used to dry inks, to soften hotmelt glues, to preheat bags before sealing and for shrink wrapping.



Ceramic infrared emitters are exceptionally robust and durable. 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.

### Applications



thermoforming of boat hulls



drying paints and curing resins



heating of plastic tubes



heating of bottle bottoms



3D-Heating for lamination



glass tempering

## HTS Range



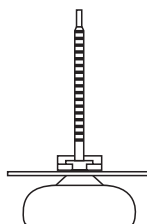
**HTS/1**  
250 x 62.5



**HTS/2**  
125 x 62.5



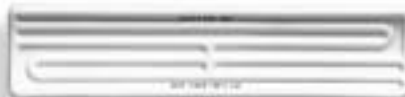
**HTS**  
125 x 125



side view

**HTS** emitters offer superior energy efficiency and faster heat-up time. Less heat is lost towards the back of the element, resulting in a cooler termination chamber. This eliminates the problem of overheating cables and busbars

## FSR Range



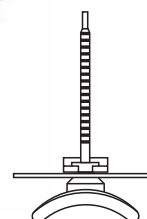
**FSR**  
250 x 62.5



**FSR/2**  
125 x 62.5



**FSR/4**  
62.5 x 62.5



side view

**FSR** emitters are universally used and offer an economic solution. They are characterised by their concave design which reduces heat absorption by the wiring space.

HTS/1 high temperature ceramic emitter (250mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYHTS1-0250	250	
UHI-LYHTS1-0400	400	
UHI-LYHTS1-0600	600	
UHI-LYHTS1-0800	800	
UHI-LYHTS1-1000	1000	
UHI-LYHTS10250	250	NiCr-Ni (K-Type)
UHI-LYHTS10400	400	NiCr-Ni (K-Type)
UHI-LYHTS10600	600	NiCr-Ni (K-Type)
UHI-LYHTS10800	800	NiCr-Ni (K-Type)
UHI-LYHTS11000	1000	NiCr-Ni (K-Type)

HTS/2 high temperature ceramic emitter (125mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYHTS2-0125	125	
UHI-LYHTS2-0200	200	
UHI-LYHTS2-0300	300	
UHI-LYHTS2-0400	400	
UHI-LYHTS2-0500	500	
UHI-LYHTS20125	125	NiCr-Ni (K-Type)
UHI-LYHTS20200	200	NiCr-Ni (K-Type)
UHI-LYHTS20300	300	NiCr-Ni (K-Type)
UHI-LYHTS20400	400	NiCr-Ni (K-Type)
UHI-LYHTS20500	500	NiCr-Ni (K-Type)

FSR high temperature ceramic emitter (250mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYFSR--0150	150	
UHI-LYFSR--0250	250	
UHI-LYFSR--0300	300	
UHI-LYFSR--0400	400	
UHI-LYFSR--0500	500	
UHI-LYFSR--0650	650	
UHI-LYFSR--1000	1000	
UHI-LYTFSR-0150	150	NiCr-Ni (K-Type)
UHI-LYTFSR-0250	250	NiCr-Ni (K-Type)
UHI-LYTFSR-0300	300	NiCr-Ni (K-Type)
UHI-LYTFSR-0400	400	NiCr-Ni (K-Type)
UHI-LYTFSR-0500	500	NiCr-Ni (K-Type)
UHI-LYTFSR-0650	650	NiCr-Ni (K-Type)
UHI-LYTFSR-1000	1000	NiCr-Ni (K-Type)

FSR/2 high temperature ceramic emitter (125mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYFSR2-0125	125	
UHI-LYFSR2-0200	200	
UHI-LYFSR2-0325	325	
UHI-LYFSR2-0500	500	
UHI-LYTFSR20125	125	NiCr-Ni (K-Type)
UHI-LYTFSR20200	200	NiCr-Ni (K-Type)
UHI-LYTFSR20325	325	NiCr-Ni (K-Type)
UHI-LYTFSR20500	500	NiCr-Ni (K-Type)

## HSR Range



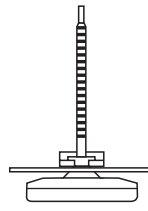
**HSR/1**  
250 x 62.5



**HSR**  
125 x 125



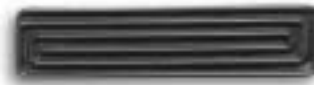
**HSR/2**  
125 x 62.5



side view

**HSR** high speed radiators are particularly suitable for use in clocked production processes or if temperature has to drop quickly when there is a stoppage, in order to prevent damage.

## SHTS Range



**SHTS/1**  
250 x 62.5



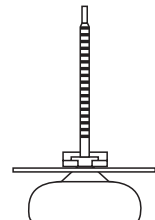
**SHTS/2**  
125 x 62.5



**SHTS/4**  
62.5 x 62.5



**SHTS**  
125 x 125



side view

**SHTS** super high temperature emitters provide exceptionally high surface rating (up to 77 kW/m<sup>2</sup>) and have a gold reflector at the back which increases energy transfer and efficiency.

HSR high temperature ceramic emitter (125mm x 125mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYHSR-0250	250	
UHI-LYHSR-0400	400	
UHI-LYHSR-0600	600	
UHI-LYHSR-0800	800	
UHI-LYHSR-1000	1000	

HSR/1 high temperature ceramic emitter (250mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYHSR1-0250	250	
UHI-LYHSR1-0400	400	
UHI-LYHSR1-0600	600	
UHI-LYHSR1-0800	800	
UHI-LYHSR1-1000	1000	

HSR/2 high temperature ceramic emitter (125mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYHSR2-0125	125	
UHI-LYHSR2-0200	200	
UHI-LYHSR2-0300	300	
UHI-LYHSR2-0400	400	
UHI-LYHSR2-0500	500	

SHTS high temperature ceramic emitter (125mm x 125mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYSHTS-1200	1200	
UHI-LYTSHTS-1200	1200	NiCr-Ni (K-Type)

SHTS/1 high temperature ceramic emitter (250mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYSHTS11200	1200	
UHI-LYTSHTS11200	1200	NiCr-Ni (K-Type)

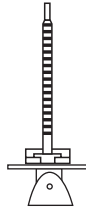
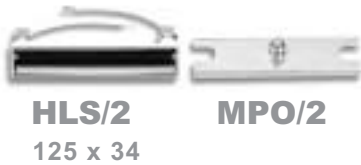
SHTS/2 high temperature ceramic emitter (125mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYSHTS20600	600	
UHI-LYTSHTS20600	600	NiCr-Ni (K-Type)

SHTS/4 high temperature ceramic emitter (62.5mm x 62.5mm)

stock code	wattage at 230V ac	thermocouple
UHI-LYSHTS40300	300	
UHI-LYTSHTS40300	300	NiCr-Ni (K-Type)

## HLS Range



side view

**HLS** high performance emitters operate in the medium wave IR spectrum. Due to the incorporated gold plated parabolic reflector efficiency is increased above 80% and target surface temperatures of up to 700°C can be achieved. They are ideally suited for processes where high temperatures or high production throughput is needed.

## IOT Range



**IOT** screw emitters can be screwed in like standard light bulbs and are popular heaters in terrariums, heating of pets and livestock, breeding, medical and catering technology

Screwcap: E27 Edison

HLS high temperature ceramic emitter (245mm x 60mm)		
stock code	wattage at 230V ac	comment
UHI-LYHLS-0750	750	
UHI-LYHLS-MP0		Mounting plate

HLS/2 high temperature ceramic emitter (245mm x 60mm)		
stock code	wattage at 230V ac	comment
UHI-LYHLS2-0325	325	
UHI-LYHLS-MP02		Mounting plate

IOT high temperature ceramic emitter		
stock code	wattage at 230V ac	style
UHI-LYIOT-00060	60	IOT/75
UHI-LYIOT-00100	100	IOT/75
UHI-LYIOT-00150	150	IOT/90
UHI-LYIOT-00250	250	IOT/90