



Quartzglass Infrared Emitters

Infrared heat is transferred without making physical contact and is thus used in applications involving delicate surfaces, vacuum or moving product.

Since heat is transferred by infrared light, gasses from solvents or steam can be freely extracted without loss of energy.

To achieve optimum results it is important that the infrared emitter is carefully matched to the properties of the product in terms of wavelength, shape and power output.



Quartz glass infrared elements emit in the short- to medium-wave spectrum, transferring heating energy fast, cleanly and efficiently. They are indispensable in many modern industrial processes for drying, curing, melting, softening, shrinking and stretching of foils, laminates, coatings and fabric.

Quartz glass emitters with reflective gold plating are particularly efficient, virtually doubling the heat concentration on the product.

Unitemp designs and manufactures infrared heating arrays to suit customers' requirements.

Typical applications:



Plastics:
for welding, pre-heating, softening and melting of plastic material.

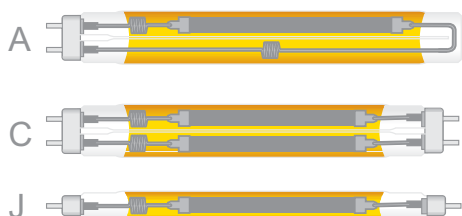
Packaging:
for drying or softening (hotmelt) of adhesives, shrinking and stretching of films, gelation of sealing pastes, preheating of sealing areas.

Paper and Textile:
for setting, hardening, drying and curing of fabric and inks.

Paint:
For accelerated drying of paint and for melting of powder-coating.

Chemical:
To keep granular substances dry, to preheat and to initiate heat sensitive processes.

Design type and cross section:



Cross section



Twin tube

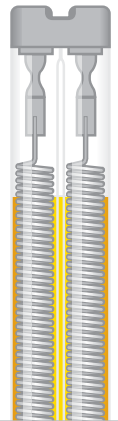


Single tube

Medium Wave Twin Tube Standard Emitters

Medium Wave emitters distinguish themselves with their cost-efficiency and long life. Plastics, water and most industrial materials absorb medium wave Infrared light especially well. Medium wave emitters are thus widely used for drying of paints and lacquers and for processing of foils and sheet. Twin-tube emitters can be supplied in lengths up to 6m, thus providing even heat distribution over wide stretches of material.

Stock Code	Gold Reflector	total length	heated length	unheated ends	length of connection wire	voltage (V)	power (W)	section (mm)	Type
UHI-HM-05001823	Yes	400	300	50 / 50	500	230	500	18 x 8	B
UHI-HM-10002223	Yes	600	500	50 / 50	500	230	1000	22 x 10	B
UHI-HM-20003323	Yes	900	800	50 / 50	500	230	2000	33 x 15	B
UHI-HM-25503323	Yes	1100	1000	50 / 50	500	230	2500	33 x 15	B
UHI-HM-32503323	Yes	1420	1300	60 / 60	500	230	3250	33 x 15	B
UHI-HM-37503323	Yes	1600	1500	50 / 50	500	230	3750	33 x 15	B
UHI-HM-41003340	Yes	1800	1700	50 / 50	500	400	4100	33 x 15	B
UHI-HM-45003340	Yes	1920	1800	60 / 60	500	400	4500	33 x 15	B
UHI-HM-57503340	Yes	2400	2300	50 / 50	500	400	5750	33 x 15	B
UHI-HM-57503340	Yes	2600	2500	50 / 50	500	400	6250	33 x 15	B
UHI-HM-25002223	Yes	1300	1200	50 / 50	500	230	2500	22 x 10	C



Medium Wave Carbon Emitters

Carbon emitters radiate in the medium wave spectrum, offering a higher power density and much faster heat-up / cool down times than the conventional medium wave emitters. They, thus, allow higher processing speed and prevent fire hazard or burning of material when stoppages occur.

Stock Code	Gold Reflector	total length	heated length	unheated ends	length of connection wire	voltage (V)	power (W)	section (mm)	Type
UHI-HC-100005N	No	430	300	75 / 55	500	57.5	1000	19	J
UHI-HC-200011N	No	730	600	75 / 55	1000 / 500	115	2000	19	J
UHI-HC-100005G	Yes	430	300	75 / 55	500	57.5	1000	19	J
UHI-HC-200011G	Yes	730	600	75 / 55	1000 / 500	115	2000	19	J
UHI-HC-400020G	Yes	1145	1000	99 / 55	500	200	4000	19	J



Short Wave Twin Tube Standard Emitters

Short Wave emitters excel through very fast heat-up / cool-down times, high power density and good penetration. They are thus used for deep penetration into some solids and in drying or heating processes where high energy density and fast response is essential. Life expectancy of short wave emitters is less than medium wave emitters due to the high filament temperature.

Stock Code	Gold Reflector	total length	heated length	unheated ends	length of connection wire	voltage (V)	power (W)	section (mm)	Type
UHI-HS1100053000	Yes	1100	1000	75 / 25	500	400	3000	23 x 11	A
UHI-HS0145050600	Yes	145	80	40 / 25	500	115	600	23 x 11	B
UHI-HS0300051500	Yes	300	200	75 / 25	500	230	1500	23 x 11	B
UHI-HS0405051200	Yes	405	340	40 / 25	500	230	1200	23 x 11	B
UHI-HS0600053000	Yes	600	500	75 / 25	500	400	3000	23 x 11	B
UHI-HS0600103000	Yes	600	500	75 / 25	1000	400	3000	23 x 11	B
UHI-HS0082000250	Yes	82	45	25 / 12	Two Pins	57	250	23 x 11	B
UHI-HS0650053000	Yes	650	500	75 / 75	500	230	3000	23 x 11	C
UHI-HS0850054200	Yes	850	700	75 / 75	500	230	4200	23 x 11	C
UHI-HS1150056000	Yes	1150	1000	75 / 75	500	400	6000	23 x 11	C
UHI-HS1450057000	Yes	1450	1300	75 / 75	500	400	7000	23 x 11	C
UHI-HS1850057000	Yes	1850	1700	75 / 75	500	400	7000	23 x 11	D

