

# Heraeus

## NIR Halogen Infrared Emitters for Heating and Drying Processes

### Infrared Heating Technology

Heating by means of infrared radiation is natural and simple. Infrared heat means heating without contact with the heat source and rapid heat-up, as large amounts of energy can be transferred in a short time. It means gentle heating, as the radiation penetrates into the object being heated and doesn't just act on the surface. Infrared emitters can be controlled quickly and precisely. Heating is targeted, can be localised and is switched on and off by the push of a button.

### InfraLight is the New Standard in Halogen Infrared Emitters

They have Standard emitter configuration designs, so that they can be easily interchanged. Because of the original Heraeus gold reflector, the emitters operate at a significantly higher efficiency than conventional lamps. Standard emitters are listed overleaf. For InfraLight emitters with non-standard sockets and ratings, please contact Heraeus Noblelight.

### InfraLight Emitters for all Infrared Processes

**for heating,** drying, evaporation, gelling, softening, hardening, tempering, forming, gluing, activating, brazing, laminating, disinfecting, baking.

**of materials** latex, foils, paper, carpets, rugs, textiles, plastics, glass, wood, chipboard, insulation board, furniture, fibres, printed circuit boards, car bodies, metals, castings, cores, membranes and shells, leather, foodstuffs.

**and coatings** lacquers, powder coatings, water coatings, primers, finish coats, paints and dyes, printing inks, thin films, glazing, pastes, glues, adhesives.

### Heraeus Noblelight offers Total Infrared Technology from NIR to CIR

- Standard emitters
- Twin tube infrared emitters in all commonly used wavelengths, cut to size for the particular process.
- IR modules and systems for industrial applications
- CIR® carbon infrared emitters
- Individual consultation, advice and the technical capability to develop IR systems for particular finishing processes.

**InfraLight – The new standard from the specialist.**

Heraeus Noblelight

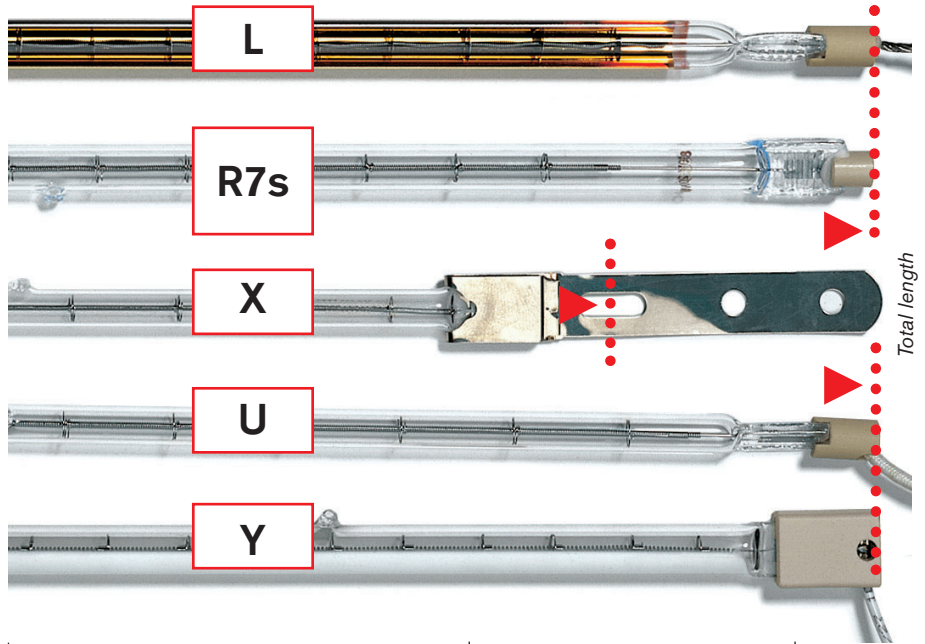


InfraLight emitters can be supplied with a choice of different emitter configurations. With any inquiry or order, please include the socket designation ( e.g. 4513 1740Y).

Emitters can be fitted with different reflectors, as required. When ordering, please specify the reflector designation (e.g. 4513 1740 YG).

The total length of the emitter, for emitter configurations L, R7s, U and Y, is the length between the ends of the complete emitter. For emitter configuration X, the length is the fitting length from the centre of the fitting hole in the metal plate (see diagram). For further information, please ask for our data sheets.

## Heraeus InfraLight – NIR Halogen Infrared Emitters



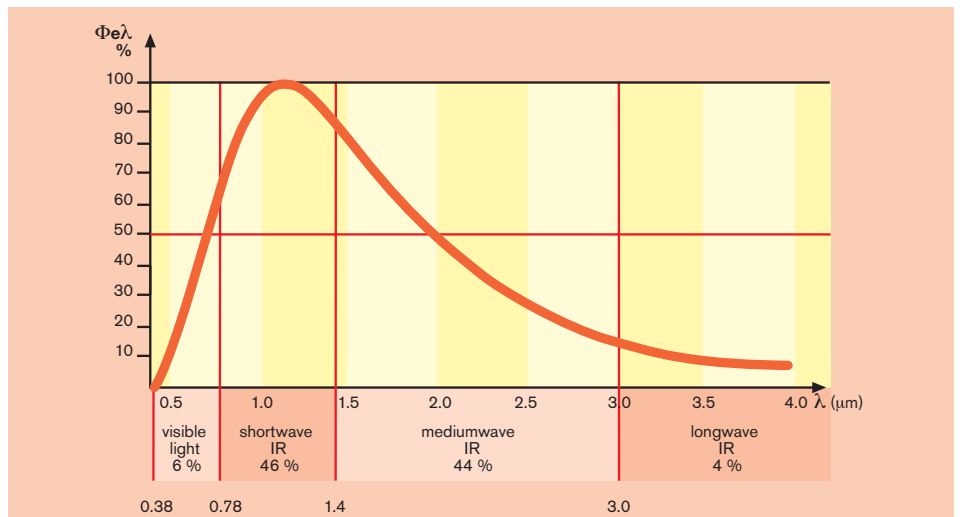
### The Standard Range

Power [Watt]	Rating [Voltage]	Heated Length [mm]	Emitter Configuration Total Length [mm]					Reflector		Type No.
			L	R7s	X*	U	Y	Without O	Gold G	
500	235	165	227	216	236	227	222	●	●	4513 1481
1000	235	272	355	344	365	355	348	●	●	4513 1731
1000	240	254	350	340	360	350	346	●	●	4513 1732
1600	240	406	503	493	513	503	499	●	●	4513 1738
2000	235	280	355	344	370	355	348	●	●	4513 1740
2000	235	410	498	488	508	498	494	●	●	4513 1742
2500	480	635	731	721	741	731	727	●	●	4513 1745
3000	400	700	788	778	798	788	784	●	●	4513 1746
3650	480	965	1062	1052	1072	1062	1058	●	●	4513 1749

\*Gold reflector only on request

### InfraLight Emitters with Gold Reflector

Without reflector emitters radiate 50% of the infrared radiation to the rear and 50% forwards. Consequently, only 50% of the potential radiation is available to heat a surface. With the Heraeus Gold reflector 95% of the available radiation is directed at the workpiece surface.



Spectral radiation distribution of an IR emitter at 2400 K (2450 K colour temperature).

InfraLight® is a registered trademark of Heraeus Noblelight GmbH.

We reserve the right to change the pictures and technical data of this brochure.

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