

Infrared Heat for Processing in Vacuum

Infrared radiation is a reliable heat source for many industrial heating processes. Infrared heating technology transfers large amounts of energy in a short time. It helps saving energy as it can be easily switched on and off. Heraeus infrared heating technology offers important features: Heating only where it is required, with the optimum wavelength for the product to be heated and in harmony with the process.

Operating in Vacuum

Infrared heating technology requires no contact with the material and no intermediate medium such as air or water. Heraeus can modify emitters to operate under vacuum conditions. These can be produced with individual sockets, leads and voltages.

Every closed emitter type can be modified for the operation in vacuum: Short wave, fast response medium wave, or Carbon. Emitter design:

- no gold reflector
- no ceramics
- molybdenum leads
- low voltage of 50 -70V

We can construct complete IR systems to operate in vacuum. For any special application we can modify the standard emitters. Contact us !

Infrared Applications

- Heating wafers in de-gassing and annealing processes
- Drying of products in vacuum chambers
- Heating of float glass prior to coating
- Coating processes in vacuum chambers

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