

INFRARED HEATING TECHNOLOGY FOR THE SEMICONDUCTOR INDUSTRY

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.

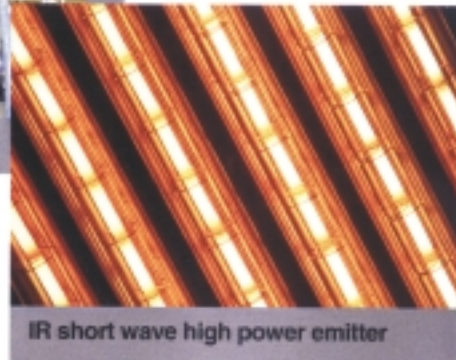


Silicon wafer



Vacuum chamber with IR-emitters*

INFRARED



IR short wave high power emitter

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.

Infrared Applications

- Heating wafers in de-gassing and annealing processes
- Recycling processes (e.g. sulphuric acid)
- Drying silicon wafer
- Heating of floatglass prior to coating

Heraeus – your partner in advanced technologies

Heraeus Noblelight has many years experience in infrared thermal technology. We offer individual advice and attention for applications as well as the extensive facilities of our Application and Test Centers.

Heraeus has the optimum spectrum for each application.

- Twin tube infrared emitters for high power density
- Carbon infrared technology for highly efficient drying processes
- Targeted heating for complex surface geometry and in all conventional wavelengths

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