



Infrared Heat saves Energy

Infrared Heaters Fitting Exactly to Product and Process

Heating processes need a lot of energy. At increasing energy costs, it is worthwhile to have a closer look.

Modern heat sources, that need only to be switched on, if heat is really needed, that direct this exactly to the area where it is used, and that match the material optimally, are clearly in advantage over conventional heat sources.

Infrared emitters from Heraeus Noblelight match the product and the process and not vice versa. They emit energy at a wavelength, which fits exactly to the absorption spectra of the material. They can be shaped according to the edges or small areas to be heated. They transfer energy contact free, within seconds at high power. Only optimally matching heat sources save energy !

The Benefits of Infrared Heat

- High heat transfer capacity
- Contact free transfer of energy
- High efficiency

- Compact infrared modules for easy replacement of out-of-date heating sources
- Fitting wavelength for effective heat transfer
- Size and shape of emitters according to the form of the product to be heated saves production space
- Quick response times allow control of the emitters and help to save heating time



Infrared Heaters save Energy and Costs

The Correct Wavelength

The wavelength has a significant influence on the heating process.

- medium wave radiation is absorbed very well by many plastics, glass and especially water and is converted directly into heat
 - short wave radiation can penetrate deep into some solid materials and ensure a uniform through heating
- Medium wave Carbon emitters use less energy, compared to short wave, while drying water based coatings. Thus Carbon emitters can save significant amounts of energy costs.

Size and Shape

Individually shaped quartz glass emitters can follow work piece corners and edges to allow any required bending, welding, de-burring or the local activation of adhesives.

The Reflector

Reflectors as well as wave length converters target the radiation directly to the product. So the effective radiation is virtually doubled while plant and surrounding can stay relatively cool. Thus energy loss is minimized.

Easy Retrofitting of Plants

Infrared booster sections are modules, which are positioned in front of the existing heating oven. The booster rapidly heats the product up to the temperature which then can be maintained by the existing oven as long as necessary.

For some products, especially massive ones, this can equate to savings of up to 50% of the time required to dry or cure a coating.

Our Service

- Infrared modules for tests on-site or in our application center
- Technical advice and support for your tests by experienced technicians
- Just contact us !

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