

P R E S S I N F O R M A T I O N

Issued on behalf of:

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New Infra-Red Module from Heraeus Speeds Up Heating

The new solid reflector infrared module (SRM) from Heraeus Noblelight can significantly speed up heating or improve quality in the processing of thin and sensitive materials such as textiles or tissues. Its special construction, incorporating external, top-mounted radial fans, air inlets and outlets, eliminates any air movement over the substrate to be heated, avoiding heat losses due to convection and any possibility of thermal shock.

The SRM has an internal reflector sheet and at least one carbon infrared (CIR) emitter, fitted with its own Gold- or Quartz Reflective Coating (QRC) reflector, is mounted in front of the reflector sheet. (Developed by Heraeus, the coating of QRC reflectors features a special nano- and microstructure which provides very high diffusion reflection characteristics to ensure the stability of process parameters, such as temperature and coating homogeneity.) Gold reflectors can be used for power densities up to 50 kW/m², while QRC reflectors are suitable for power densities up to 70 kW/m². The complete module is air-cooled by radial

fans mounted on its top side and a series of baffles prevents any cooling air from contacting the substrate to be heated.

Typical applications of the new module include homogenous heating of materials of low thermal conductivity, heating of thermally sensitive materials such as textiles and plastic foils, heating of composite materials both carbon and glass fibres, fusing of polymer and synthetic materials and curing of resin systems.

Heraeus specialises in the production and application of high quality energy sources covering the electromagnetic spectrum from ultraviolet to infrared. It has over 40 years experience in infrared technology and offers the expertise, products and systems to provide efficient and effective solutions to drying, heating and curing problems throughout industry.

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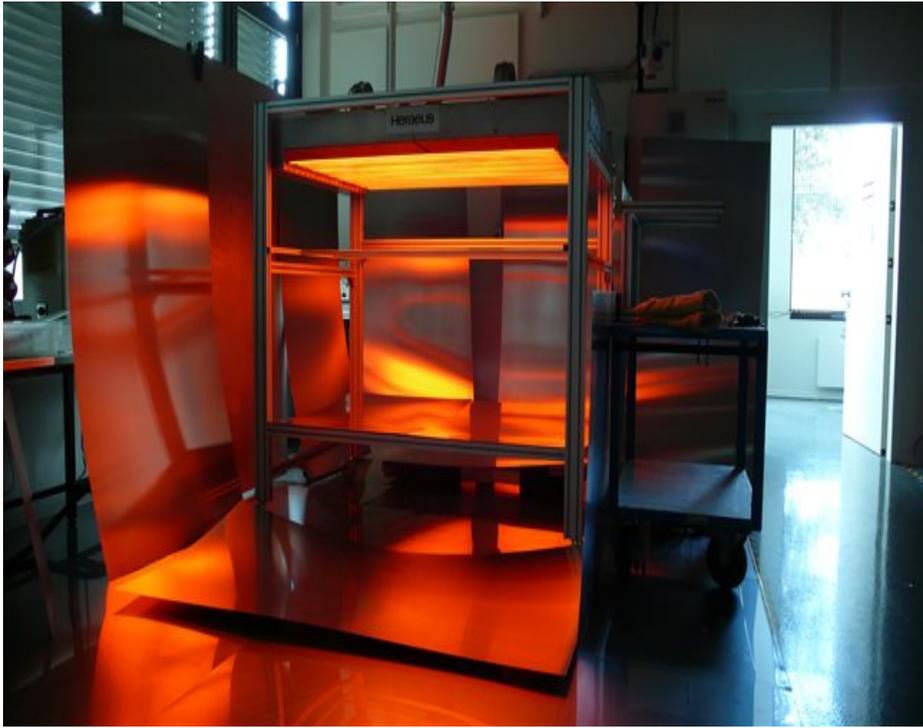
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The new Solid Reflector Infrared Module from Heraeus