

# Innovative. Intensive. Targeted.

The product range of Heraeus comprises both Ultraviolet and Infrared – conventional lamps and new technologies for drying processes. Heraeus developments such as BlueLight and MagicHeat represent real advancements in drying technology and allow simplification of drying processes and the development of new equipment.

**BlueLight is an Excimer UV technology** featuring innovative UV lamps which in fact provide cold UV radiation and facilitate the use of UV drying in printing machines. BlueLight systems are being increasingly specified for processing temperature-sensitive materials, for curing spot varnishes and for offset printing.

**High power IR emitters** in Heraeus Carbon technology under the name of MagicHeat. These emitters employ predominantly that part of the infrared spectrum which is best suited for drying. As a result the drying power is improved, while the total irradiated energy can be reduced. Results: energy savings and reduced thermal stress on both paper and machine.

Amba is part of Heraeus Noblelight GmbH. Heraeus Amba Ltd. has assumed responsibility for the manufacture and world-wide distribution and sales of conventional UV lamps. Amba Lamps are known for high quality and fast delivery for a wide range of lamps.



## Classical Infrared Drying

### Short wave emitter

- High stability of Twin tube emitters
- Heated length up to 240 cm
- Power density up to 150 kW/m<sup>2</sup>
- With integral gold reflector

### InfraLight

- short wave halogen infrared emitters
- Standard replacement emitters
- Heated lengths 16.5 - 96.5 cm
- Power density up to 300 kW/m<sup>2</sup>
- With integral white or gold reflector

### Medium wave infrared emitter

- Very good efficiency for drying
- Twin tube emitters up to 600 cm in length
- Power Density up to 50 kW/m<sup>2</sup>
- Mainly for continuous processes
- Long life over 10,000 hours
- With integral gold reflector

**The new MagicHeat IR emitters offer a high efficiency for drying processes with energy savings up to 50%. That means less thermal stress on paper and machine and push button heat for processes which are switched on and off.**

### Round tube emitter with lengths up to 150 cm

- Power density up to 100 kW/m<sup>2</sup>
- With integral gold reflector

## The Carbon Infra-Red Technology

### New at DRUPA

**The carbon technology combined with the well-established twin tube emitter**

- Lengths up to 300 cm
- Power density up to 150 kW/m<sup>2</sup>
- With integral gold reflector

### The MagicHeat high power emitter

- Developed for high power densities
- Round tube emitter with carbon spiral filament
- Up to 150 cm in length
- Power density up to 190 kW/m<sup>2</sup>
- With integral gold reflector

# Infrared & Ultraviolet – for innovative solutions.

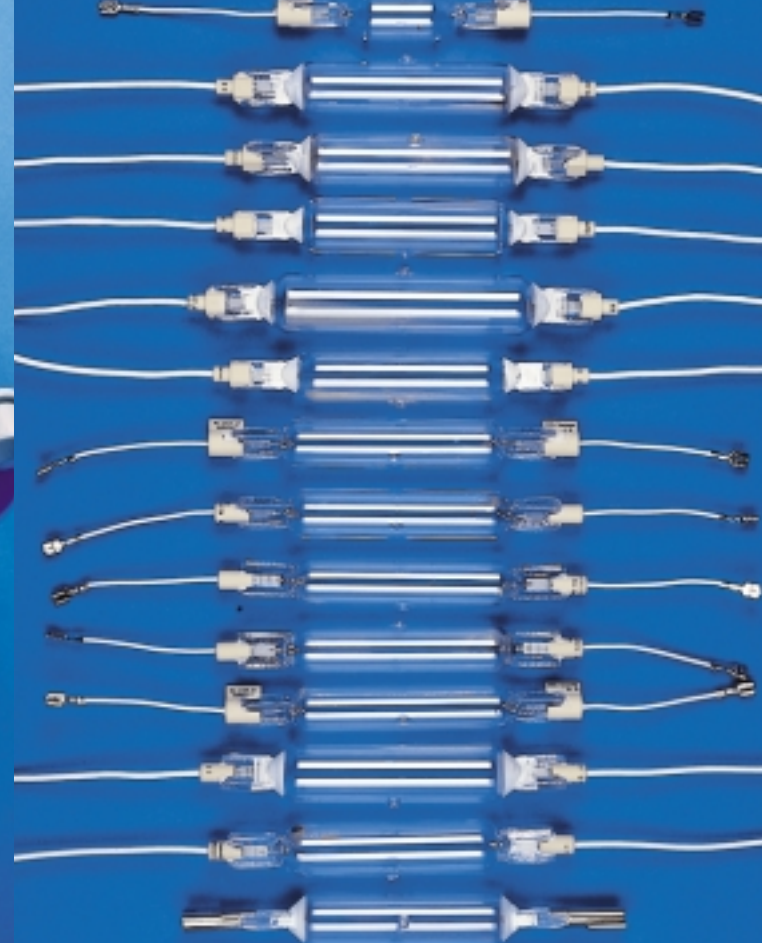
[www.heraeus-noblelight.com](http://www.heraeus-noblelight.com)

Excimer emitters produce cold UV light, without any infrared component, so that printing machines and printing material such as paper or foil remain cold.

BlueLight produces no ozone so there is no need for air extraction. UV radiation is switched on and off at the touch of a button.

Conventional printing speeds, e.g. 500 m/min for clear varnish are achieved.

# BlueLight



Heraeus

## Light from the Specialists

Solutions for the Printing Industry

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## The Excimer UV Technology

### Excimer UV lamp

- Lamp unit with cooler and power supply
- Unit for fitting to printing machines and UV driers
- Illuminated length 30 cm up to 100 cm
- Power 1.5 kW up to 5 kW
- There is no need for exhaust equipment
- Varnishes and inks for BlueLight drying are available on the market

### BlueLight UV curing system

- Drier unit with BlueLight emitters and nitrogen flushing
- Can be fitted to printing machines without exhaust systems
- Track width up to 100 cm
- Power 10 kW (for 2 lamp units)
- Can be used as intermediate or end drier
- Short curing times, fast in-line processing

## Classical UV Drying and Exposure

### Amba Lamps

- UV lamps with a mercury spectrum also Gallium and Iron spectra
- Suitable for all well-known printing machines and UV driers
- Lengths up to 250 cm
- Power up to 30 kW
- Single lamps can be supplied
- Used throughout the world

### Metal halide lamps for reprography

- For exposing printing plates and film materials
- Replacement lamps for all customary equipments
- Power range 400 W to 8000 W.

Heraeus Noblelight GmbH  
Heraeus Amba Ltd.

LIGHTSOURCES FROM

UV TO IR