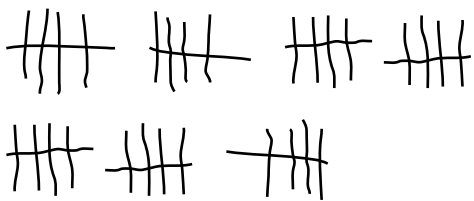


# The Natural Germ Killer.



## BlueLight® Hygienic System:

The new solution for reliable surface disinfection  
of food packaging.

# Time for germs to pack up.

**100 %  
hygienic  
UV!**

The new solution for best surface disinfection of food packaging: The innovative BlueLight® Hygienic System exterminates germs and minimizes energy costs – with extraordinary reliability (LOG3 reduction) and energy savings of up to 90%!

Other facts that scare germs and delight customers: high UV intensity, cold radiation, no water cooling and low investment costs of the industry 4.0 ready BlueLight® Hygienic System.

Bad news for germs!

# The best of different worlds.



BlueLight® Hygienic System

With BlueLight® Hygienic System, you get the best out of different worlds. First, the smart hygienic design with its guaranteed high killing rate gives germs no chance: Microorganisms like bacteria, yeasts and molds are killed within seconds by intensive UV light.

But BlueLight® Hygienic System not only is a natural germ killer with a deadly accuracy to please the food industry – enabling you to develop new areas of business. It also has a significantly higher output than conventional low pressure lamp systems. And if you are comparing it to medium pressure lamp systems, you'll save an unbelievable amount of up to 90 % of energy with BlueLight® Hygienic System!

## 1 Your hygienic design advantages:

### Simply turn on the light

From invention to prevention: Microbiologically sensitive bulk products, such as foodstuffs, demand hygienic packaging materials. To significantly extend the shelf life of products simply turn on the BlueLight® Hygienic System.

### Guaranteed high killing rate:

The increased germ level reduction has the highest UV LP-intensity in the market. According to the tests of the renowned Fraunhofer Institute, Heraeus BlueLight® Hygienic System easily reaches LOG3 reduction and has an excellent efficiency fighting the reference germ *Apergillus brasiliensis*. The number of returns is substantially reduced, saving food manufacturers time and money.

### No chance for germs: the smart hygienic design

of Heraeus BlueLight® Hygienic System makes products more hygienic and increases the quality level of your food products. Thanks to its innovative hygienic design it is easy to clean and ensures the required process safety.

Heraeus BlueLight® Hygienic System is not only designed according to the EHEDG guidelines created to enhance food safety, but also meets EU and US standards like DIN norms (ISO14159 / DIN EN 1672-2:).

## 2 Your low pressure lamp advantages:

### Higher output

As good as it gets: The advanced lamp technology with its minimum waste of stray light and air cooling stands for an optimal use of energy and UV. The convincing result: a much higher output than before. Furthermore, the 8,000 hour lifetime of the UV bulbs results in low service and maintenance efforts.

## 3 Your medium pressure lamp advantages:

### Energy savings of up to 90%!

Due to the special lamp technology, Heraeus BlueLight® Hygienic System needs only 3 kW power compared to the 50 kW of alternative technologies like medium pressure or flash. This means an almost unbelievable energy saving of 90%!

#### Sample calculation:

Machine run time: **3,500 h/year\***  
Energy costs: **HBS = 1,260 €/year**  
**(3 kW power) vs.**  
**MP System = 21,000 €/year**  
**(50 kW power)**  
Savings of energy costs per year: **19,740 €/year**

(\*two shift operation 0,12 €/kWh/3,500 h)



## 4 Your industry 4.0 advantages:

### BlueLight® Hygienic System makes things easy for you

Heraeus BlueLight® Hygienic System is ready for **industry 4.0**. It can easily be installed into existing machines, due to its compact modules. The handy touch display at the control cabinet enables a smart maintenance and UV control. The exchange of the lamps could not be easier.

## 5 Your ecological advantages:

### Green and clean

The smart UV system reduces waste, improves hygienic conditions and leads to a longer shelf life of food. Its superior efficiency, relatively cold radiation, easy-going maintenance and absence of chemicals or solvents result in a reduced CO<sub>2</sub> footprint. The IP 67 protection class ensures a safe and clean process under wet or dry conditions.

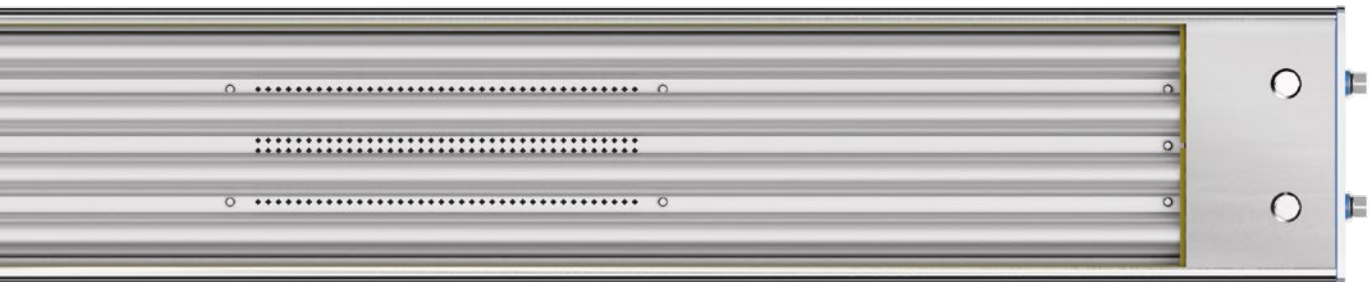
## 6 Your Heraeus advantages:

### All you need from a single source

Your strong and reliable partner Heraeus has everything you need to achieve your goals: tailor-made solutions, fascinating products and a highly motivated staff eager to make visions become reality.

**We are UV.**





### BlueLight® Hygienic System

- **UV module made of material and components according to hygienic standards for specific challenges**
- **Standardized flange for stainless steel pipe**
- **1 air cooling module and 1 control module for easy maintenance and service**
- **1 cable (5 m)**
- **Additionally:**
  - Kit with extension cable (25 m)
  - Hoses (3 m)

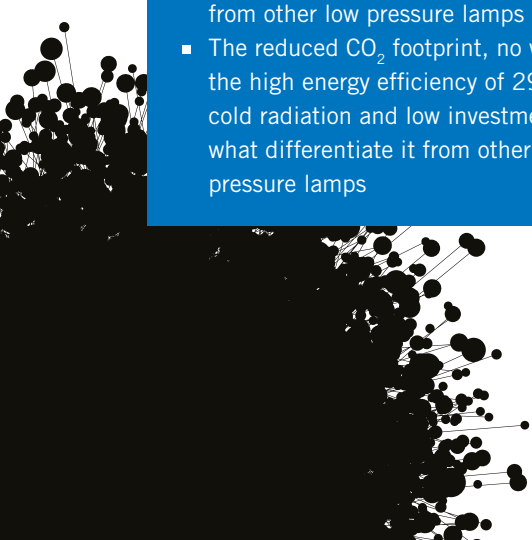
### The UV module

- **UV module with 4 high power bulbs for very high UV intensity**
- **Large UV window with narrow frame**
  - Compact design to place modules easily next to each other for homogenous radiation and challenging applications
- **Hygienic design:**
  - Sloped housing: no water or germ pool
  - Tri-clamp hose connections for standardized mechanical interface
  - Hygienic cable connectors and screws

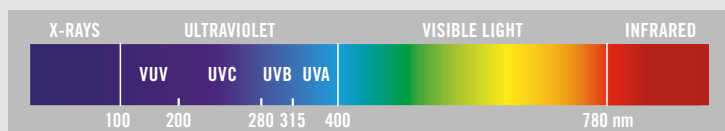
### Heraeus BlueLight® is different:

- The higher UV intensity, IP67 and its hygienic design are what differentiate it from other low pressure lamps
- The reduced CO<sub>2</sub> footprint, no water cooling, the high energy efficiency of 29%, the cold radiation and low investment costs are what differentiate it from other medium pressure lamps

- The low investments costs are what differentiate it from flash systems
- No use of chemistry is what differentiates it from H<sub>2</sub>O<sub>2</sub> systems
- Lower costs and higher UV efficiency are what differentiate it from LED systems
- The air cooled system for easier and better maintenance is what differentiates it from water cooled systems



## Inspiring. Visionary. Heraeus.



The future starts with Heraeus. By 1904, the UV quartz glass lamp had already been invented. Of course, in Hanau. This was not the last time Heraeus was ahead of its time. Countless innovations up to combined applications with UV and infrared have since confirmed our role as an inventor, a pioneer and a leader in technology.

Today, we offer a complete portfolio of UV solutions covering all types of technology – from systems with discharge lamps to LEDs and microwave-stimulated lamps. For more than 110 years now, we have been a global leader with representations all over the world.

As a result, the urge to look at things in a different light is in our genes. And for you, this means that we advance you and your enterprise and give you a competitive advantage. With UV – because this is something our engineers shine a new light on again and again.

This innovative strength has characterised our work for you – from the beginning till the present day. As a consequence, our UV products meet the highest demands: our own. And you can rest assured you will achieve your goals together with Heraeus, the UV pioneer – now and in the future:

**Think UV. Think Heraeus.**

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

### Germany

Heraeus Noblelight GmbH  
Heraeusstrasse 12-14  
63450 Hanau  
Phone +49 6181 35 4499  
Fax +49 6181 35 164499  
hng-uv@heraeus.com  
heraeus-noblelight.com

### USA

Heraeus Noblelight  
America LLC  
910 Clopper Road  
Gaithersburg, MD 20878  
Phone +1 301 527 2660  
Fax +1 301 527 2661  
info.hna.uvp@heraeus.com

### Japan

Heraeus K.K.  
Noblelight Division  
Sumitomo Fudosan Otowa  
Bldg. 1F, 2F, 5F  
2-9-3 Otsuka, Bunkyo-ku  
112-0012, Tokyo  
Phone +81 3 6902 6602  
Fax +81 3 6902 6613  
info.hkk@heraeus.com

### China

Heraeus Noblelight (Shenyang) Ltd.  
Shanghai Branch  
2F, 5th Building, No. 406 Guilin Road,  
Xuhui District  
Shanghai 200233, P.R. China  
Phone +86 21 3357 5555  
Fax +86 21 3357 5333  
info.hns@heraeus.com