



Reduction of odors and air pollutants

Exhaust air treatment with UV light: effective and efficient

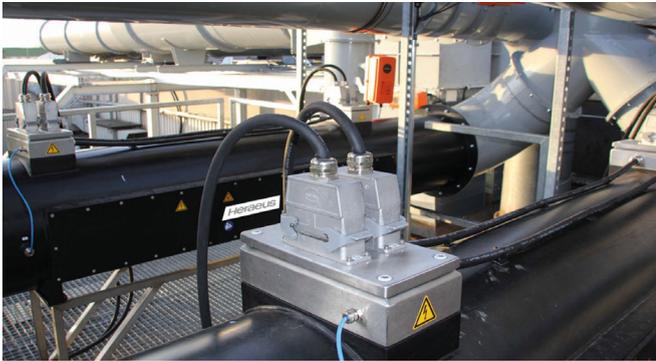
Heraeus Noblelight, worldwide leading manufacturer of specialty light sources, offers UV solutions for the photochemical treatment of air and exhaust air. This process provides low investment and operating costs, and enables space-saving installation due to its compact design.

Vacuum UV radiation at a wavelength of 185 nm directly photolyses and neutralizes contaminants and odors in the air. At the same time, the vacuum UV radiation produces ozone from the oxygen in the air around the lamp. This subsequently breaks down again into excited oxygen, as highly-reactive free radicals react with organic molecules such as fats and aromatic hydrocarbons.

High-performance UV systems from Heraeus Noblelight remain extremely effective even at ambient temperatures of up to 80° C. The special longlife coating of the lamp tube results in the very long UV lamp service life of at least 10,000* operating hours.

Thanks to the extremely high-performance UV lamp, one single Vacuum UV lamp can replace 4 to 6 low pressure lamps. Existing low pressure lamp systems can be converted quickly and easily.

* 80% of the original UV output measured under laboratory conditions



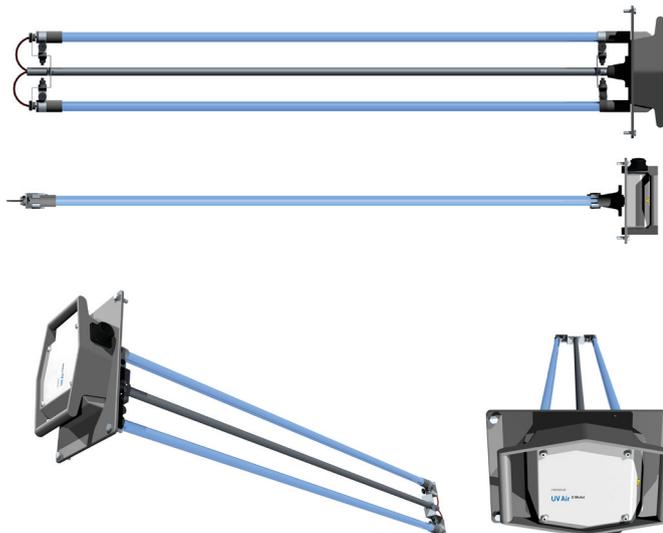
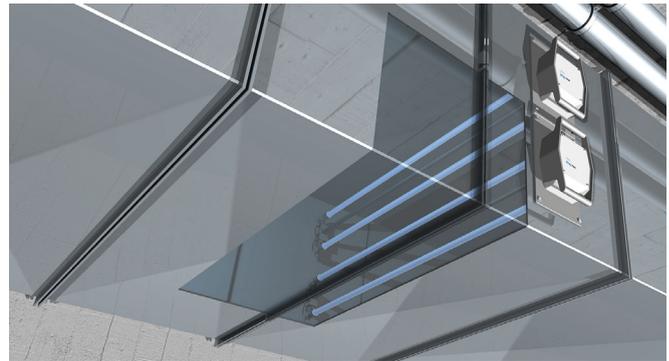
Advantages of the efficient UV lamp for air treatment

- **Low space requirement:** 1 Amalgam Vacuum UV lamp instead of 4-6 low pressure lamps
- **Effectiveness time:** at least 10,000 h due to the new longlife coating - reduces maintenance costs
- **Ambient temperature:** can heat up to 80° C, and therefore the UV lamp is also suitable for high temperatures
- **High cost effectiveness:** due to low investment and installation costs, since only one UV lamp is required

UV light and its applications

UV light at the wavelength of 185nm treats the air effectively. Heraeus vacuum UV emitters are used for the breakdown of:

- **Odors** (food processing industry, waste water treatment plants, livestock stables, unpleasant odours)
- **Fats**
- **Solvents and VOCs**



Lamp specifications

Lamp type	ozone-generating
Use at ambient temperature	up to 80° C
UV emission	185 nm, 254 nm
Electrical output	50–600 W
Luminous length	300-1,550 mm
Typical useful life	up to 12,000 h

Germany
Heraeus Noblelight GmbH
 Heraeusstraße 12–14
 63450 Hanau
 Phone +49 6181 35-4499
 Fax +49 6181 35-9926
 hng-uv@heraeus.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

UK
Heraeus Noblelight Ltd.
 Cambridge Science Park,
 Milton Road
 Cambridge CB4 0GQ
 Phone +44 1223 42 3324
 hnl.customerservice@heraeus.com