Heraeus

Odor reduction up to 95 % with special UV solution

Highly efficient and less energy consuming

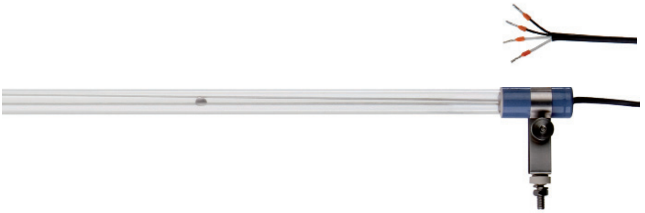
Odor reduction with Heraeus UV solution saves money and energy

Odors play an important role in our life. They can trigger emotions, memories, desire or hunger. However they can also warn us of potential dangers, such as decaying food or potential toxic chemicals.

The increasing concentration of population in urban areas and the industrialization, and at the same time the improvement of life standards mean an increased challenge in the control of odors. Some countries have even implemented strict regulations such as the Regulation of Odor Emission in Germany (Geruchsimmisionsrichtlinie or GIRL), which are being increasingly enforced by local environmental agencies, in an effort to establish a balance between economic activity and the comfort of the population in the surrounding areas.

The Heraeus UV solution is a vital element to minimize the impact of odors to the surroundings. The efficiency of the technology has been proven in several applications, where the use of typical filtration techniques is insufficient.

In combination with methods such as electrostatic precipitators, mechanical filtration or non-thermal plasma, odors can be reduced up to 95% with reduced energy and resources consumption compared to the energy-intensive thermal oxidation processes.



The complexity of the chemical composition of odors make each case different and unique.
Heraeus Noblelight offers a test reactor unit with an optional olfactometric evaluation. This can provide valuable information to determine if your odor problem can be reduced with UV successfully.

Advantages of the Heraeus UV Solution

- **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

Lamp specifications

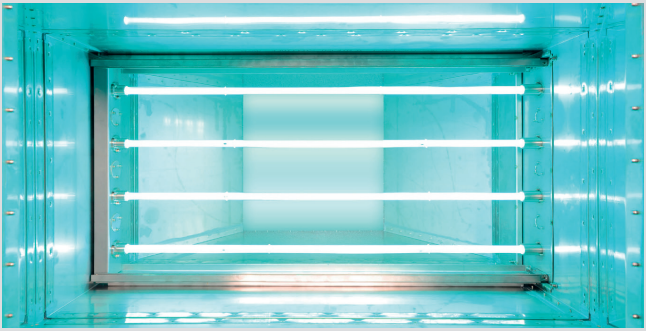
Lamp type	ozone generating
Use at ambient temperatures	up to 80° C
UV-emission	185 nm, 254 nm
Electrical Power	50-300 W
Lamp length	25-150 cm
Typical service life	up to 10,000 h

UV lamp types from Heraeus Noblelight

Lamp type	Ambient temperature	Overall length
NAQ 170 / 90 XL	20° – 40° C	900 mm
NAQ 200/120XL	20° – 40° C	1200 mm
NAQ 290 / 155 XL	20° – 40° C	1554 mm
NIQ 170 / 90 XL	40° – 80° C	900 mm
NIQ 200 / 120 XL	40° – 80° C	1200 mm
NIQ 290 / 155 XL	40° – 80° C	1554 mm

Various application areas

- Water treatment plants
- Garbage processing stations
- Restaurants (fast food)
- Coffee roasters
- Fish packaging
- Cooking oil extraction
- Bakeries
- Meat processing



UV lamps have to be installed only by qualified specialist personnel. The ambient conditions, air speed and temperature must be taken into account accordingly in the design of UV lamps, in order to be able to carry out a successful installation.

Technical data is subject to modification. UVP69 E/04.14

www.heraeus-noblelight.com
Germany
Heraeus Noblelight GmbH
Heraeusstrasse 12-14
63450 Hanau, Germany
Phone +49 6181 35 5964
Fax +49 6181 35 9926
hng-uv@heraeus.com