

LOW PRESSURE UVC LAMPS

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www.heraeus-noblelight.com

For disinfection, oxidation and ozone generation

UVC radiation at 254nm has an intensive germicidal effect. Micro-organisms, such as viruses, bacteria, fungi and yeasts are effectively killed. There is no need for additives. At wavelengths below 230nm, the energy of the UV radiation is sufficient to dissociate chemical compounds. Below 200nm, ozone is produced from oxygen and organic compounds are oxidized.

Classical Low Pressure UVC Lamps

offer excellent efficiency. 40% of the electrical power is converted into UVC radiation at 254nm. If synthetic quartz is used as the lamp material, VUV radiation at 185nm is also emitted.

Goldspot® Amalgam Lamps

These high power, low pressure UVC lamps achieve three times the UVC output of classical, low pressure UVC lamps and can be used at higher ambient temperatures. Because of their high efficiency, long operating life and low operating costs, Goldspot Amalgam lamps are a cost-effective alternative to medium pressure UV lamps. They save energy and generate very little heat.

Low pressure, UVC Lamps from Heraeus Noblelight.

- NN lamps: classical low pressure UVC lamps of high efficiency, emitting at 254nm, ozone-free.
- NNI lamps: Goldspot Amalgam UVC lamps with triple the UVC output, higher ambient temperature up to 60°C, emitting at 254nm, ozone-free.
- NNQ lamps: classical low pressure UVC lamps with a synthetic quartz tube, emitting at 254nm and 185nm, ozone-generating.
- NIQ lamps: Goldspot Amalgam UVC lamps with a synthetic quartz tube, emitting at 254nm and 185nm, ozone-generating.

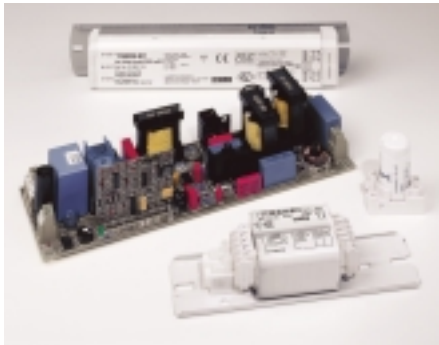
hi-Tech lamps

800-229-6509

info@hi-techlamps.com



Plastic or ceramic bases for low pressure UVC lamps, other bases available on request.

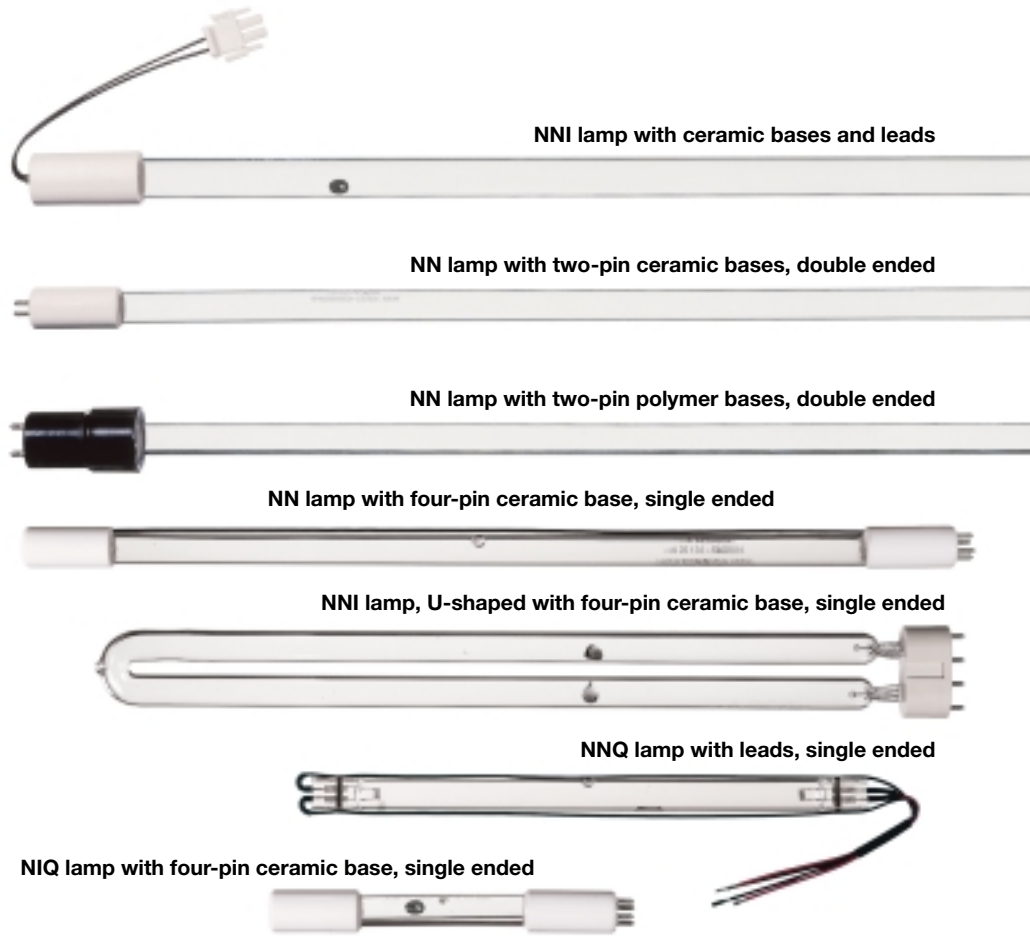


Electronic ballasts or starters with magnetic ballasts can be supplied to meet requirements.

Heraeus Noblelight offers the complete UV technology

- Low pressure UVC lamps
- Medium pressure UV lamps
- Excimer UV lamps
- Ballasts

We supply a wide range of standard types as spare lamps. Tailor-made UV lamps are produced in close cooperation with customers to meet their requirements. Heraeus Noblelight is a preferred partner for companies producing systems for water-treatment, air-treatment and surface-treatment.



NNI lamp with ceramic bases and leads

NN lamp with two-pin ceramic bases, double ended

NN lamp with two-pin polymer bases, double ended

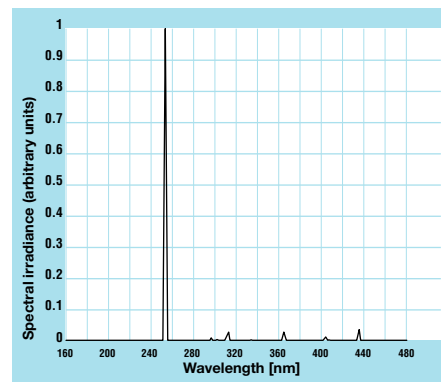
NN lamp with four-pin ceramic base, single ended

NNI lamp, U-shaped with four-pin ceramic base, single ended

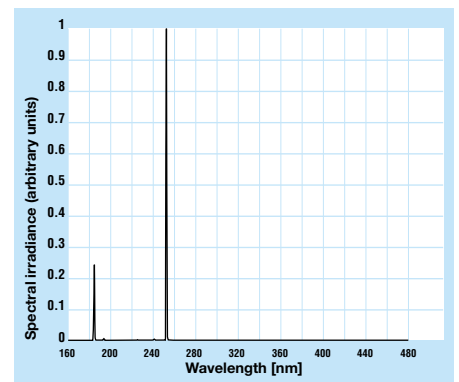
NNQ lamp with leads, single ended

NIQ lamp with four-pin ceramic base, single ended

Examples of different lamp types, bases and connections. All designs can be supplied as NN-, NNI-, NNQ-, NIQ-lamps.



Typical Spectrum of NN lamps and NNI Amalgam lamps



Typical Spectrum of NNQ lamps and NIQ Amalgam lamps

Technical Data – Low Pressure UVC Lamps

	NN	NNI	NNQ	NIQ
Spectrum: Wavelength	254 nm	254 nm	185 nm, 254 nm	185 nm, 254 nm
Electrical Power	5 – 50 W	50 – 300 W	5 – 50 W	50 – 300 W
Typical UV-Efficiency at 254nm	40 %	30 %	40 %	30 %
Typical UV-Efficiency at 185nm	—	—	5 – 10 %	5 – 10 %
Specific Electrical Power	0,5 W/cm	2 W/cm	0,5 W/cm	2 W/cm
Arc length*	10 – 100 cm	25 – 150 cm	10 – 100 cm	25 – 150 cm
Typical ambient temperature	10 – 30 °C	5 – 60 °C	10 – 30 °C	5 – 60 °C

*Other lengths on request

We reserve the right to change the illustrations and technical data provided in this leaflet

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Heraeus

Heraeus Noblelight GmbH
P.O.Box 15 63
D-63405 Hanau
Germany
Phone +49 (6181) 35-99 25
Telefax +49 (6181) 35-99 26
E-Mail: hng-disinfection@heraeus.com
www.heraeus-noblelight.com

Heraeus Noblelight Ltd.
8, Caldbeck Road
Bromborough, Wirral
Merseyside CH62 3PL/England
Phone +44 (151) 343 0545
Telefax +44 (151) 343 9883
E-Mail:
hnl-bromborough@heraeus.com
www.heraeus-noblelight.com

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800-229-6509

info@hi-techlamps.com