

Technical Information

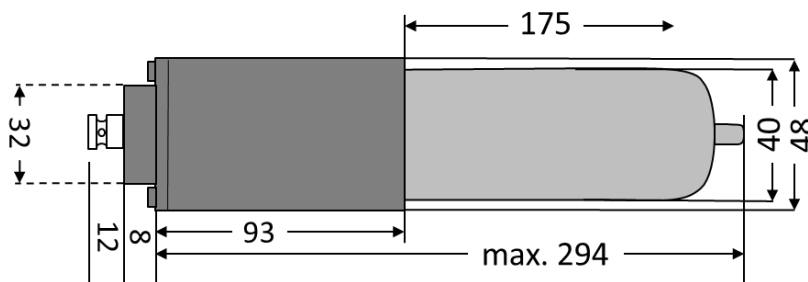
XERADEX L40/175SB-AZ48/93

Revision: 1.3 - 02/2020

Supersedes: 1.2 - -08/18

Status: valid

Data Sheet



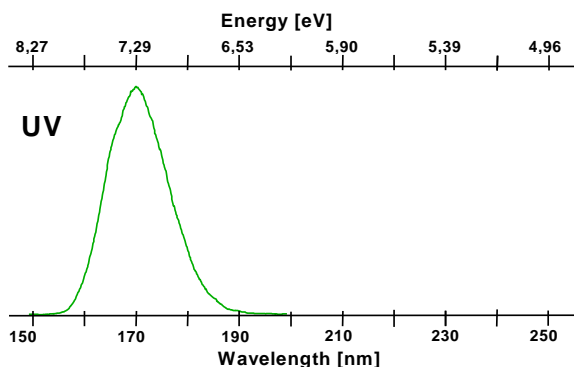
RADIUM XERADEX® VUV excimer lamps offer an exceptionally high VUV efficiency. XERADEX® lamps are the high-tech solution for cost effective surface cleaning/activation, purification or etching.

Electrical data

Rated power 20 W

Spectral data

Peak wavelength 172 nm
Radiation intensity at lamp surface 35 mW/cm²
Generates ozone yes



Operating conditions

Burning position any
Cooling not required
Electronic control gear (power supply) DBD 20

Lifespan

Recommended service life 2500 h
Radiation flux after 2500h >70%

For complete operating, design-in, transportation and storage guidelines, please kindly refer to the *Radium XERADEX® Application Notes*.

Dimensions

Overall length excluding connector 303,5 ± 3,0 mm
Radiant length 175 ± 3,0 mm
Tube diameter 40 ± 1,9 mm
Socket diameter 48 ± 0,3 mm
Socket denotation cylindrical
Connector MHV (BNC-HV)

RAD code

34317665

Applications

- Surface treatment
 - Removal of organic residue, resist
 - Cleaning of photomasks
 - Etching of plastic surfaces
- Activation of surface bonds
 - Improved deposition (photoresist, detergents)
 - Adjustment of contact angle
- Photo induced processes
 - Matting of lacquer
 - Ozone production
 - UV/ozone cleaning without external ozoniser

Advice

- Lamp emits high-energy UV radiation, which is readily absorbed by oxygen under generation of ozone.
- Provide ample ventilation and operate the lamp in suitable environment only.
- Lamp is designed for operation with matching power supply. Do not connect to any other power supply.
- Lamp is operated at high voltage. Lamp may only be installed, exchanged and operated by qualified personnel.



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Radium

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