

Technical Information

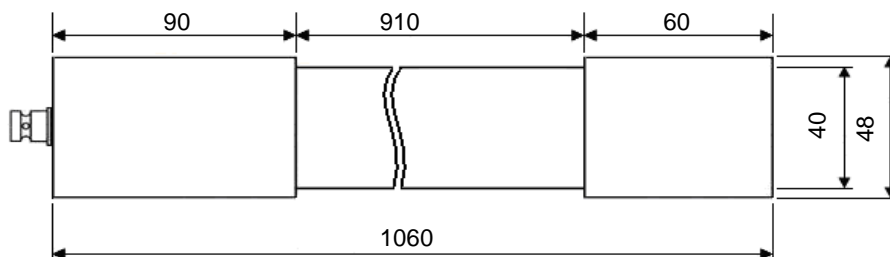
XERADEX L40/910/DB-SH48/90

Revision: 1.2 - 10/2019

Supersedes: 1.1 - 10/2009

Status: valid

Operating Instructions



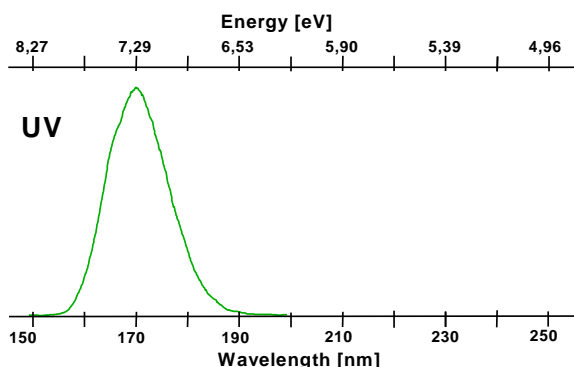
Radium XERADEX® VUV excimer lamps offer an exceptionally high VUV efficiency. XERADEX® lamps are the high-tech solution for cost effective surface cleaning/activation, purification or etching.

Electrical data

Rated power 150 W

Spectral data

Peak wavelength 172 nm
Irradiance at lamp surface 40 mW/cm²
(Irradiance at lamp surface 80 mW/cm² ¹⁾)
Generates ozone yes



Operating conditions

Burning position any
Cooling optional
Power supply (ECG) DBD 300 110/240

Lifespan

Recommended service life²⁾ 2500 h
Radiation flux after 2500h²⁾ >70%

¹⁾ With increased input power, active cooling required

²⁾ Based on irradiance of 40 mW/cm²

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

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Dimensions

Overall length 1060 ± 2,0 mm
Radiant length 910 ± 2,0 mm
Tube diameter 40 ± 1,9 mm
Socket diameter 48 ± 0,3 mm
Socket denomination Tubular
Connector MHV (BNC-HV)

Article:

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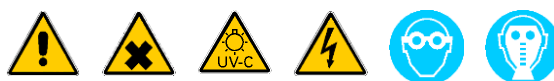
Article:

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 ozonator

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.



Radium