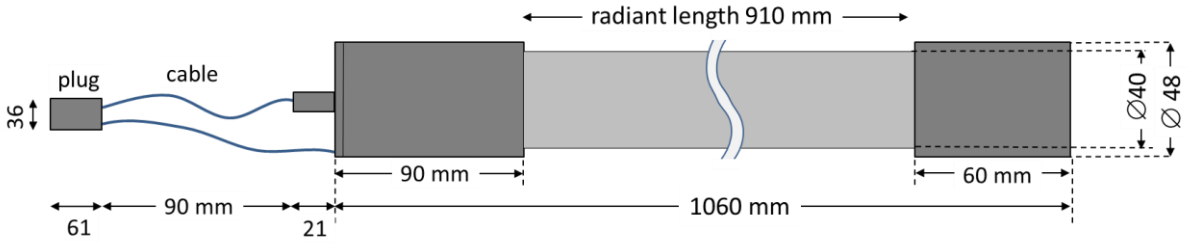
Technical Information
XERADEX L40/910/DB-AK48/90

Revision: 1.0 - 03/2020

Supersedes: -
Status: valid



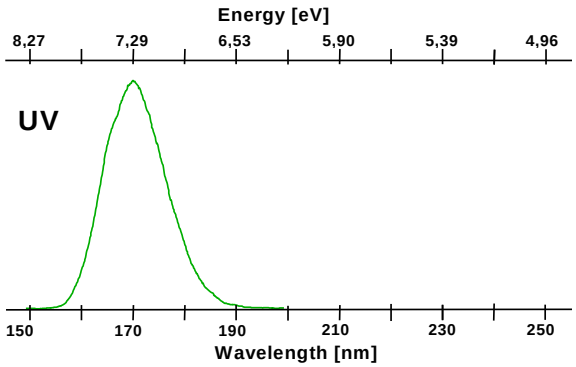
RADIUM XERADEX® VUV excimer lamps offer an exceptionally high VUV efficiency. XERADEX® lamps are the high-tech solution for cost effective surface cleaning/activation, purification or etching.

Electrical data

Rated power	450 W

Spectral data

Peak wavelength	172 nm
Irradiance at lamp surface @ 450W	120 mW/cm² [1)]
Generates ozone	yes



Operating conditions

Burning position	any
Cooling	optional
Power supply (ECG)	DBD 1000 220/240

Lifespan

Recommended service life[1)] @ 450W	1500 h
Recommended service life @ 150W	2500 h
Radiation flux at service life end	>70%

[1)] With input power 450W, active cooling required

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

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	Mate N-Lock (4 lin.)

Article No. **34317680**

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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