

## Technical Information

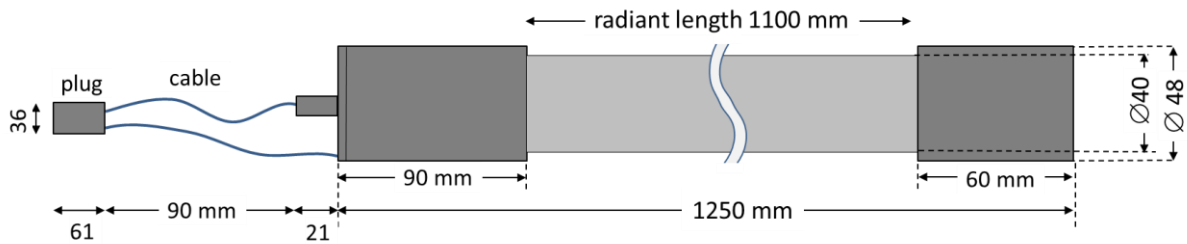
# XERADEX L40/1100/DB-AZ48/90

Revision: 1.3 - 03/2020

Supersedes: 1.2 – 01/2019

Status: valid

# Radium TECH



## 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 550 W

### Spectral data

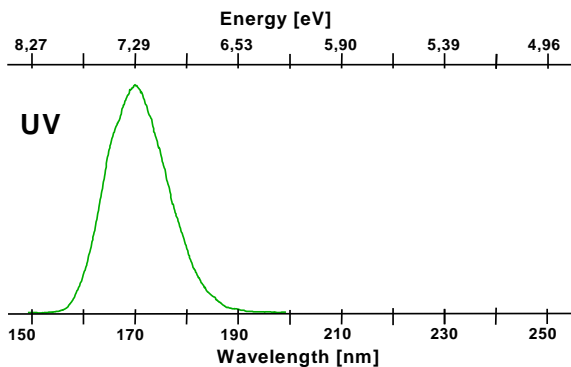
Peak wavelength 172 nm  
Irradiance at lamp surface @550W 120 mW/cm<sup>2</sup> <sup>1)</sup>  
Generates ozone yes

### Dimensions

Overall length 1250 ± 2,0 mm  
Radiant length 1100 ± 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.

34317634



### 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

### Operating conditions

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

### Lifespan

Recommended service life<sup>1)</sup> @ 550W 1500 h  
Recommended service life @ 180W 2500 h  
Radiation flux at service life end >70%

<sup>1)</sup> With input power 550W, active cooling required

### 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.

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



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