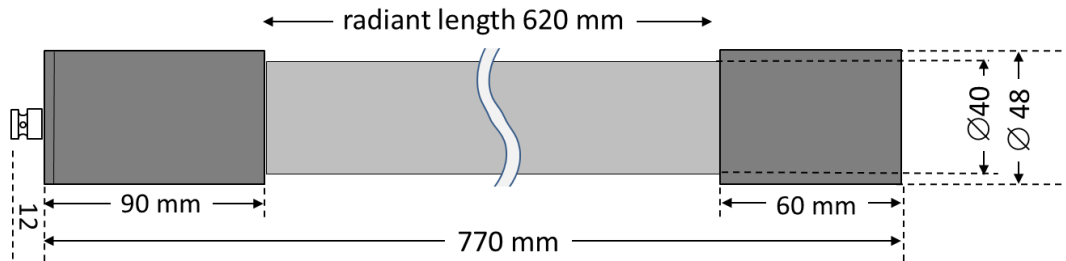


# Technical Information

## XERADEX L40/620/DB-AZ48/90

Revision: 1.1 - 11/2020

Supersedes: -  
Status: valid



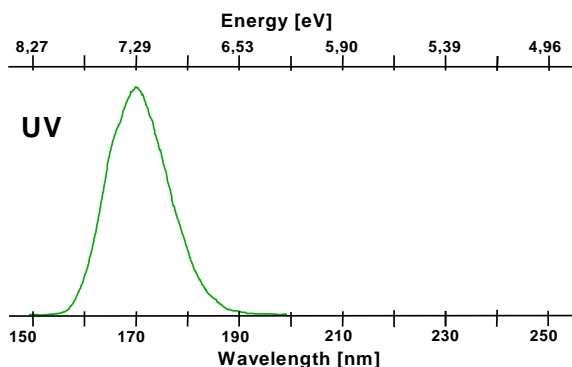
**RADIUM XERADEX®** VUV excimer lamps offer an exceptionally high VUV efficiency. XERADEX® lamps are the high-tech solution for cost effective surface cleaning/activation, purification or etching.

### Electrical data

Rated power 100W (275W <sup>1)</sup>)

### Spectral data

Peak wavelength 172 nm  
Irradiance at lamp surface 45 mW/cm<sup>2</sup> (120mW/cm<sup>2</sup> <sup>1)</sup>)  
Generates ozone yes



### Operating conditions

Burning position any  
Cooling optional  
Power supply (ECG) DBD 300MK2 110/240

### Lifespan

Recommended service life<sup>1)</sup> @275W 1500 h  
Recommended service life @100W 2500 h  
Radiation flux at service life end >70%

<sup>1)</sup> With input power 275W, active lamp cooling required, max. possible power of dimmable ECG DBD300MK2 is coded at RADIUM before delivery

### Dimensions

Overall length 770 ± 2,0 mm  
Radiant length 620 ± 2,0 mm  
Tube diameter 40 ± 1,9 mm  
Socket diameter 48 ± 0,3 mm  
Socket denomination Tubular  
Connector MHV (BNC-HT)

Article No.

**34317387**

### 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.

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

