Technical Information

XERADEX L40/1400/DB-AZ48/90

Revision: **1.3 - 03/2020**
Supersedes: **1.2 – 01/2019**
Status: **valid**

Radium TECH

radiant length 1400 mm
plug   cable
36
Ø40 Ø48
90 mm
61   90 mm   21
60 mm
1550 mm

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.
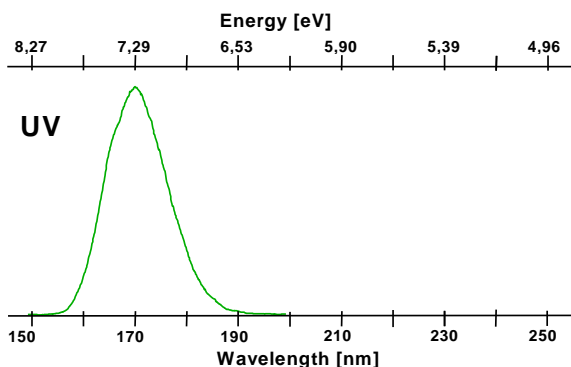
Electrical data

Rated power	700 W

Spectral data

Peak wavelength	172 nm
Irradiance at lamp surface @ 700W	120 mW/cm² [1]
Generates ozone	yes

Energy [eV]
8,27   7,29   6,53   5,90   5,39   4,96
UV
150   170   190   210   230   250
Wavelength [nm]

Dimensions

Overall length	1550 ± 2,0 mm
Radiant length	1400 ± 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.   34317600

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[1] @ 700W	1500 h
Recommended service life @ 230W	2500 h
Radiation flux at service life end	>70%

[1] With input power 700W, 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.*