

Technical Information

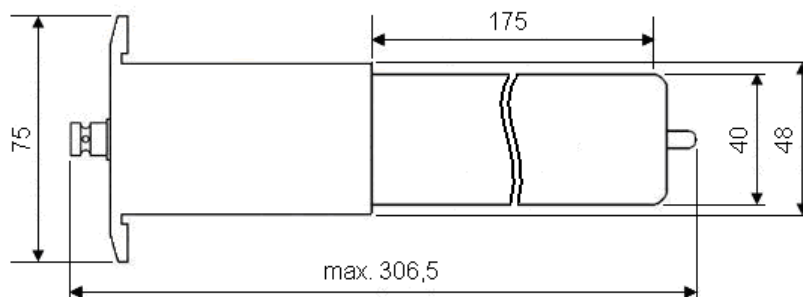
XERADEX L40/175/SB-SX48/KF50HV

Revision: 1.2 - 05/2017

Supersedes: 1.1 - 10/2009

Status: valid

Operating Instructions



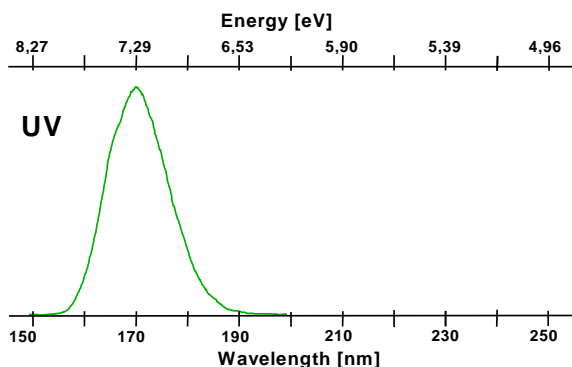
OSRAM XERADEX® VUV excimer lamps offer an exceptionally high VUV efficiency. XERADEX® lamps are the high-tech solution for cost effective surface cleaning/activation, purification or etching.

Electrical data

Rated power 20 W

Spectral data

Peak wavelength 172 nm
Radiation intensity at lamp surface 35 mW/cm²
Generates ozone yes



Operating conditions

Leak rate < 5 · 10⁻⁹ mbar l/s
Pressure range ¹⁾ < 0,05 mbar and > 500 mbar
Burning position any
Cooling not required
Electronic control gear (power supply) DBD 20

Lifespan

Recommended service life 2500 h
Radiation flux after 2500h >70%

¹⁾ Between 0.05 mbar and 500 mbar depending on surrounding gas-type, parasitic discharges may occur. Additional discharges may destroy lamp and ECG or vacuum equipment.

Dimensions

Overall length 303,5 ± 3,0 mm
Radiant length 175 ± 3,0 mm
Tube diameter 40 ± 1,9 mm
Socket diameter 48 ± 0,3 mm
Socket denomination ISO-KF50 Flange
Connector MHV (BNC-HV)

Radium Code

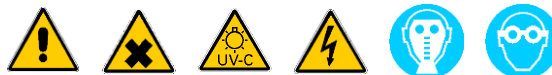
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Applications

- 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.



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

Radium Lampenwerk Wipperfuerth
Dr.-Eugen-Kersting-Strasse 6
D-51688 Wipperfürth · Germany
Phone +49 (0)2267 81-398
Fax +49 (0)2267 81-503
Email : xeradex@radium.de
Web : www.radium.de

