

Radium

XERADEX

Excimer lamps 172 nm

Application fields

- Activation of surface bonds
- Adjustment of wetting angle
- Cleaning of photo masks
- Removal of organic residue
- Matting of acrylic lacquers without matting agent
- Removal of photoresist
- Photo induced etching (e.g. Teflon)
- Photo induced CVD at lower process temperature
- Photocatalytic processes in advanced wafer processing
- Removal of organic toxins in water
- Lacquer hardening without Photoinitiator
- Photo induced surface oxidation
- Surface treatment for improved adhesion
- Increased pump speed for vacuum systems

Product properties

- Instant-On source for Vacuum UV radiation; no warm-up phase
- Monochromatic light source for Xenon excimer radiation at 172 nm (FWHM14nm)
- No UV-A, No UV-B radiation
- Patented pulse mode operation for high conversion efficiency of about 40%
- Light weight
- No cooling required
- Nitrogen purging required
- No limitations on switching cycles
- Capable of instant restrike with no detriment to lamp life
- Lamp life: 2500 hrs
- Different lengths available
- Two versions for use in vacuum available
- Made in Germany



XERADEX

		W	ø d mm	I_{RAD} mm		L70 h	Control gear
1	34317363 XERADEX L40/120/SB-SX48/KF50/HV	20	40	120	Single	2500	DBD 20
1	34317385 XERADEX L40/120/SB-SX48/KF50	20	40	120	Single	2500	DBD 20
2	34317003 XERADEX L40/120/SB-AZ48/93	20	40	120	Single	2500	DBD 20
2	34317665 XERADEX L40/175/SB-AZ48/93	20	40	175	Single	2500	DBD 20
1	34317388 XERADEX L40/175/SB-SX48/KF50/HV	20	40	175	Single	2500	DBD 20
3	34317386 XERADEX L40/375/DB-AZ48/90	60/180	40	375	Double	2500/1500	DBD 300
3	34317387 XERADEX L40/620/DB-AZ48/90	100/300	40	620	Double	2500/1500	DBD 300
3	34317436 XERADEX L40/910/DB-AZ48/90	150/300	40	910	Double	2500/1500	DBD 300
3	34317444 XERADEX L40/910/DB-SH48/90	150	40	910	Double	2500	DBD 300
3	34317634 XERADEX/L40/1100/DB-AZ48/90	180/550	40	1100	Double	2500/1500	DBD 1000
3	34317600 XERADEX L40/1400/DB-AZ48/90	230/700	40	1400	Double	2500/1500	DBD 1000
3	34317595 XERADEX L40/1600/DB-AZ48/90	270/800	40	1600	Double	2500/1500	DBD 1000
3	34317534 XERADEX/L40/1800/DB-AZ48/90	300/900	40	1800	Double	2500/1500	DBD 1000
3	34317554 XERADEX L40/1800/DB-SH48/90	300	40	1800	Double	2500	DBD 1000
3	34317541 XERADEX L40/2100/DB-AZ48/90	350/1000	40	2100	Double	2500/1500	DBD 1000
3	34317276 XERADEX/L40/2200/DB-AZ48/90	370/1000	40	2200	Double	2500/1500	DBD 1000
3	34317658 XERADEX/L40/2300/DB-AZ48/90	380/1000	40	2300	Double	2500/1500	DBD 1000
	34317460 RXC 1200 1000W OG	-	-	-	-	-	-
	34317461 RXC 1400 1200W OG	-	-	-	-	-	-
	34317462 RXC 1600 1400W OG	-	-	-	-	-	-

Different lengths, wave lengths and VUV-reflectors upon special request

Control gears

52312907	DBD 20/110-240	-	-	-	-	-	-
52317629	DBD 300 MK2 DIM	-	-	-	-	-	-
52317009	DBD 1000/220-240 DIM	-	-	-	-	-	-

Safety precautions:
XERADEX lamps produce extremely intense UV radiation that is heavily absorbed by oxygen. Ozone is produced as a result. Adequate ventilation must therefore be provided during their operation. The lamps should be operated only in airtight enclosures. XERADEX lamps are operated at high voltage and may only be connected to original DBD control gear designed for this purpose. Never connect them to any other control gear. Lamps are operated at high voltage and may only be installed, exchanged and operated by qualified personnel.