



EUV-XL-L Flow Lamp



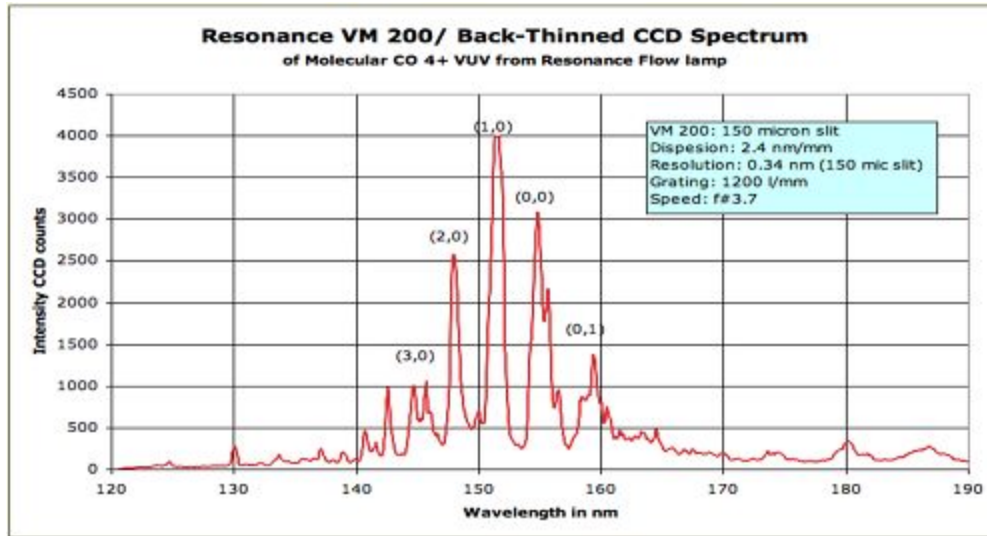
The Resonance EUV windowless source is an RF excited flow lamp with a capillary bore in an EMI shielded enclosure. This lamp mounts to a 33.78 mm or larger CF type flange.

The lamp assembly has an integral RF exciter which is powered by a small wall plug power supply. This supply is sufficient to produce emissions from the principal neutral rare gas species in the range of 10 photons per second per steradian.

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| <p>The Resonance EUV-X-L Flow Lamp system can be configured as a windowless source of EUV emissions or with interchangeable LiF or MgF₂ windows. With the interchangeable window the system can be used to produce emissions above the LiF cut-off of 104 nm. If coupled with a Resonance VM Series monochromator, this will work as a tunable light source from 25nm up to 800 nm.</p> | <p>Features</p> <ul style="list-style-type: none">Greater than 10¹⁵ photons/sec/ster for major spectral linesProvides EUV light down to 30 nm<1 kg massEasy connection to a monochromator for use as an EUV tunable light sourceLow astigmatism |
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| EUV-X-L Specifications | |
|------------------------|--|
| Power In | 110-240 V |
| Power Supply | 20 W RF |
| Wavelength Range | 30-800 nm |
| Current | 0.5 A @ 110 V maximum |
| Mass | 800 g |
| Intensity | >1015 photons/sec/str (major spectral lines) |
| Vacuum Adapter | 2.75 inch CF flange standard |

| Major Spectral Lines | |
|----------------------|------------------------|
| Species | Wavelength |
| He | 58.43 |
| Ne | 73.59, 74.37 |
| Ar | 104.82, 106.67 |
| H | 102.57, 121.57 |
| O | 130.22, 130.48, 130.61 |
| N | 120.00 |
| Cl | 118.00 |
| N ₂ | LBH Bands |



EUV spectrum with Resonance He flow lamp and VM300
Monochromator with CsI microchannel plate at 1000 V
He flow lamp at 4e-4 He plus 1.4e-4 air

