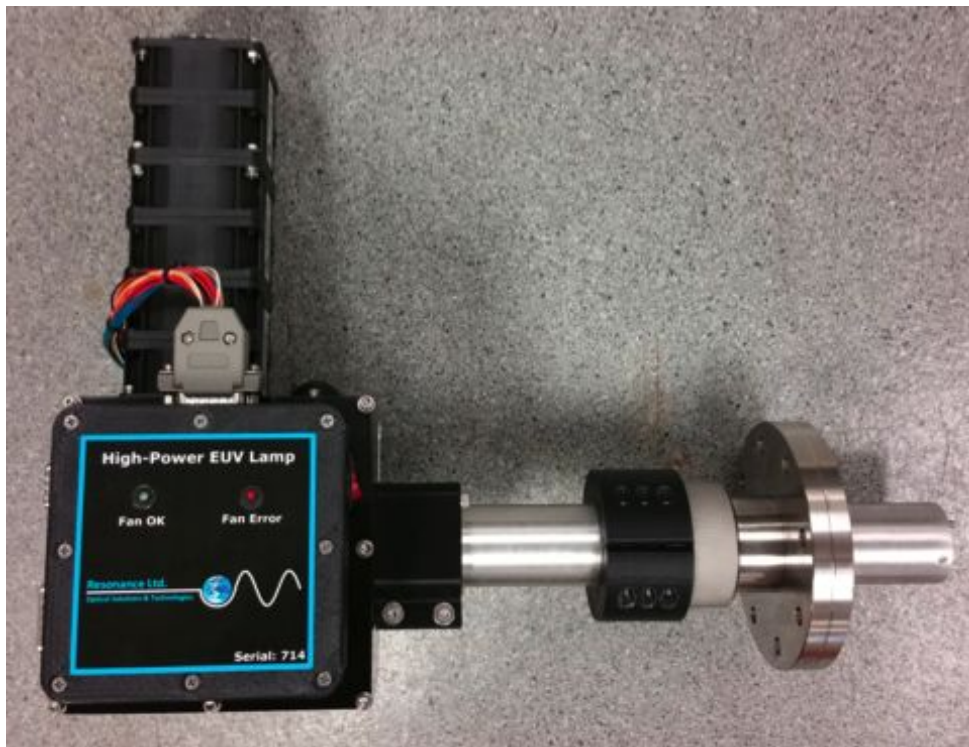


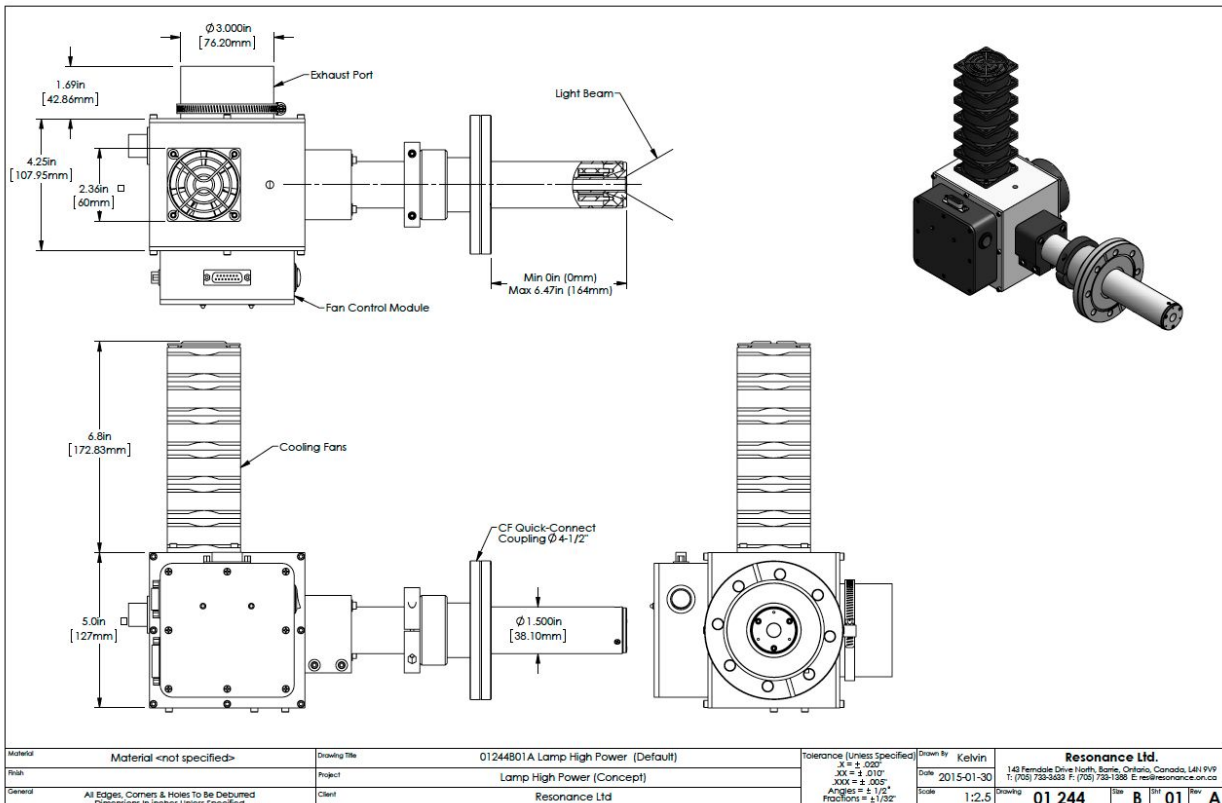


High Power Lamps



High-Power VUV Light Sources: Model Numbers KrCM-LHP, XeCM-LHP

This RF powered lamp system is a reliable and maintenance-free high intensity source of deep VUV emissions between 116 and 200 nm. This source mounts to a 4.5-inch CF flange for easy connection to a high-vacuum system. The lamp is re-entrant to allow optimum positioning. VUV fluxes greater than 100 milliwatts/sterad are delivered through the MgF2 window for vacuum applications such as photoionization TOF mass spectroscopy. Lamp bulbs are interchangeable for easy replacement. The temperature-controlled high-speed fan eliminates the need for water cooling. Normally this source will operate with either a Krypton or Xenon Bulb. These bulbs are interchangeable and other bulbs and or fill pressures are available on a custom basis.



| Electrical /Optical Specifications/General: | | | | |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|--------------|
| Specification | Minimum | Typical | Maximum | Units |
| Available bulbs | | Krypton or Xenon | | - |
| Peak wavelengths Krypton | - | 116.5, 123.6, 145 | - | NM |
| Peak Wavelengths Xenon | | 147, 172 | | NM |
| VUV Intensity Krypton | | 1x10 ¹⁷ | | Ph/sec./st. |
| VUV Intensity Xenon | | 2x10 ¹⁷ | | Ph/sec./st. |
| Full angle output cone | 15 | 16 | 17 | Degrees |
| Window Material | | MgF ₂ | | - |
| Clear Aperture | | 0.9 | | CM. |
| Certification | Calibration of Irradiance in Vacuum | | | |
| Input Power | 5 | 100 | 300 | Watts |
| Input voltage | 70 | 115 | 260 | VAC |
| Input Line Frequency | 50 | 60 | 65 | Hz |
| Mounting flange | 4.5 inch CF is standard, lamp can be sealed to HV system | | | |
| Cooling | Forced air cooling with variable speed fan | | | |
| System | Complete system includes RF power supply, EMI shielded enclosure, Vacuum flange, operating manual, all cables and NIST Traceable calibration | | | |

Power pattern

