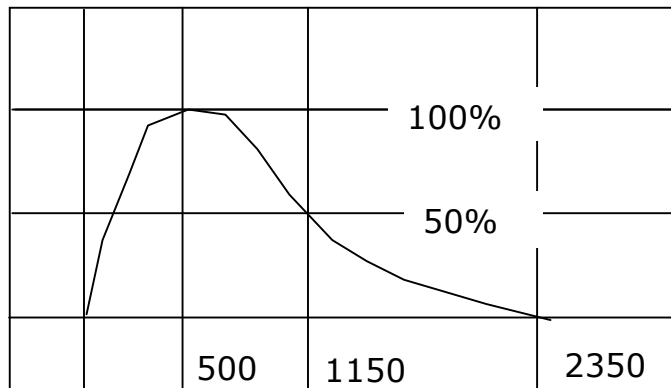
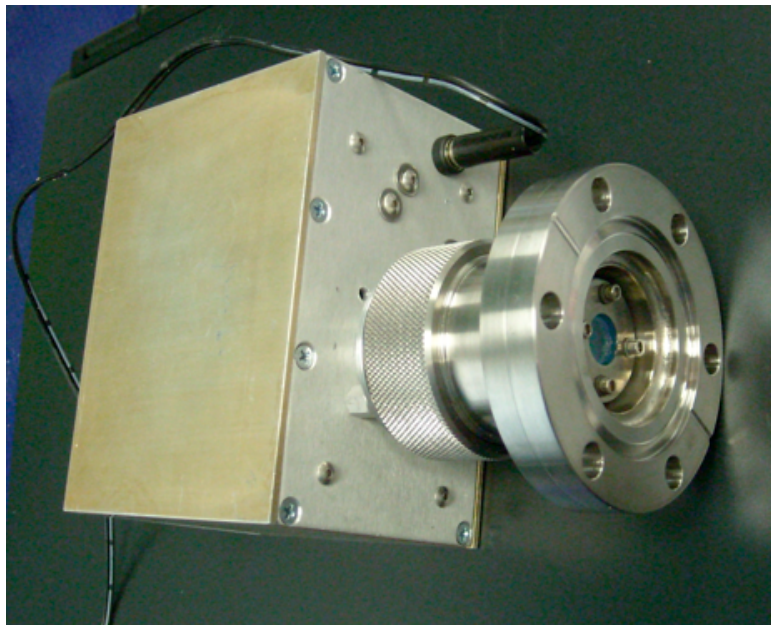
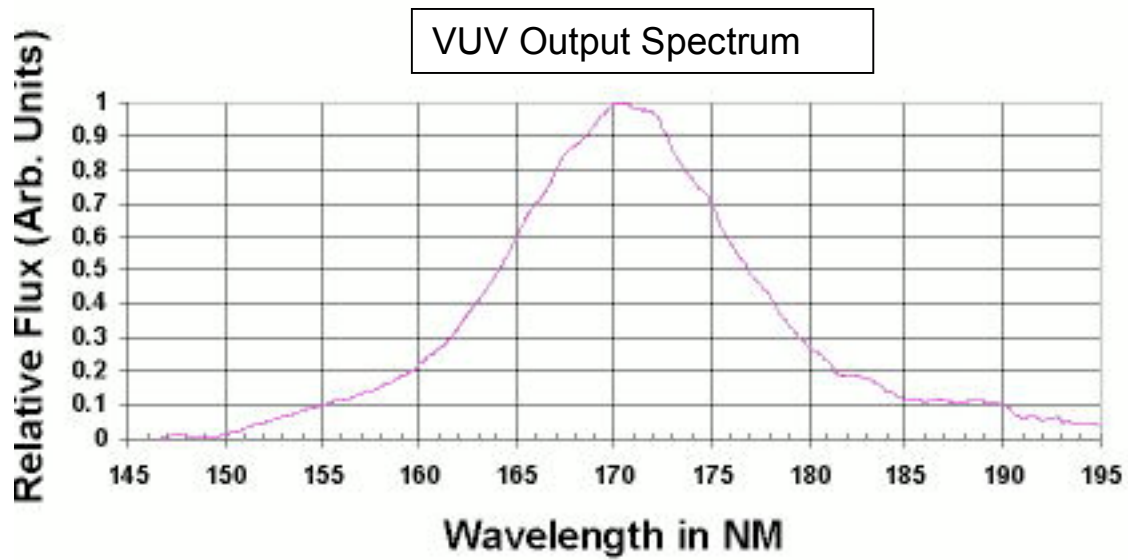


<b>Model No:</b>	<b>Description:</b>
XeCM-LHP	<p><b>Pulsed High Power Xenon 172 nm Vacuum Ultraviolet (VUV) light Source</b></p> <p>This Xenon filled RF powered lamp system is a reliable and maintenance free high intensity source of deep VUV emissions from 146 to 190 NM. Pulse repetition rate is typically 1 KHz and pulse width is 2 microseconds. This source mounts to a 6.8 cm CF flange (supplied) for convenient connection to a HV system. VUV fluxes greater than 10 Milliwatts are delivered through the output window for use in vacuum applications</p>

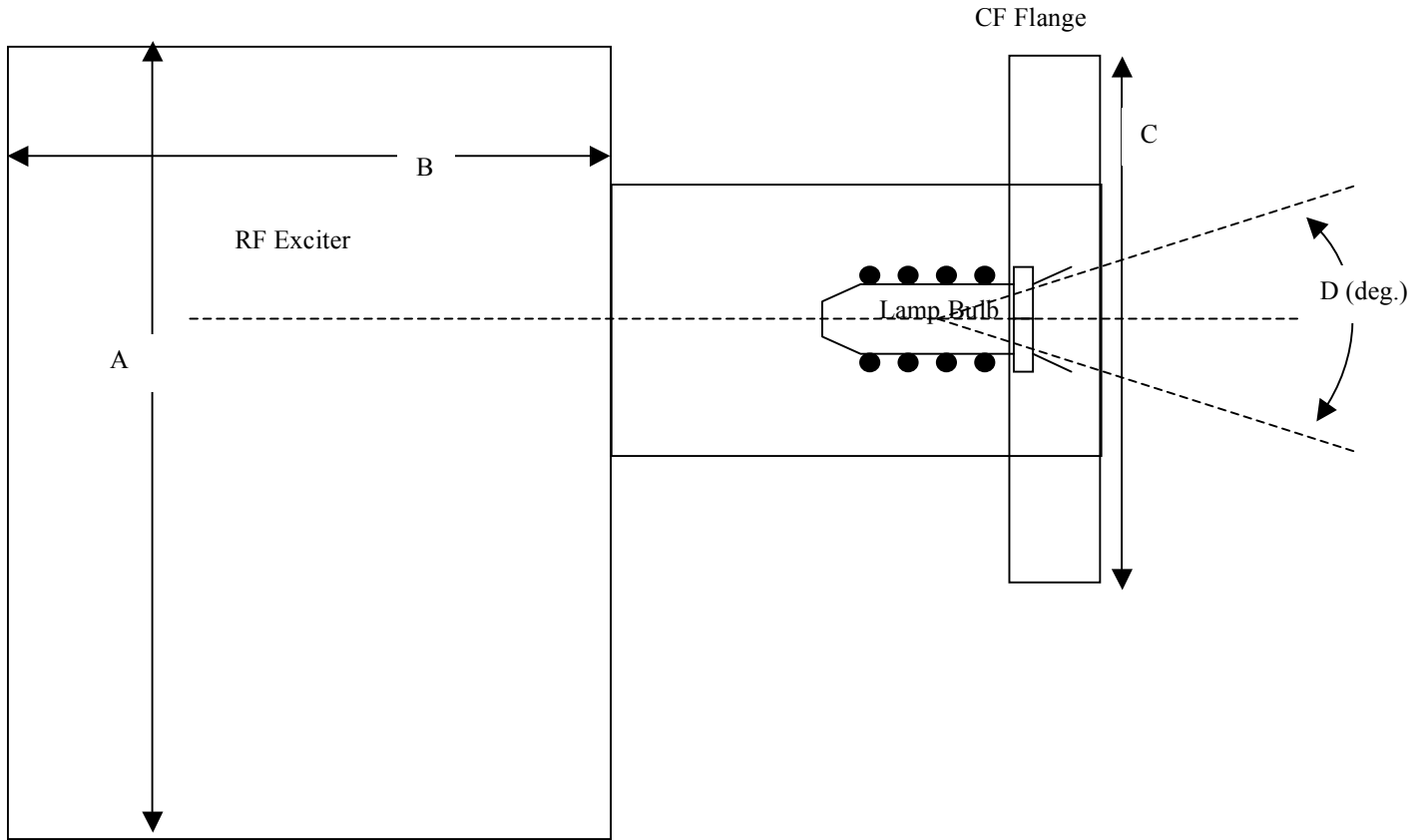
Electrical /Optical Specifications/General:				
Specification	Minimum	Typical	Maximum	units
<b>Gas Fill</b>		<b>Xenon</b>		<b>na</b>
<b>Peak wavelengths</b>	-	<b>172.0</b>	-	<b>NM</b>
<b>Full Spectral Range</b>	-	<b>130 to 7,000</b>	-	<b>NM</b>
<b>VUV Intensity</b>	<b><math>0.7 \times 10^{16}</math></b>	<b><math>1.2 \times 10^{16}</math></b>	<b>2e16</b>	<b>Photons/sec/sr</b>
<b>Full angle output cone</b>	<b>30</b>	<b>45</b>	<b>65</b>	<b>Degrees</b>
<b>Window Material</b>		<b>MgF<sub>2</sub></b>		<b>na</b>
<b>Clear Aperture of window</b>	<b>0.9</b>	<b>0.1</b>	<b>1.1</b>	<b>CM.</b>
<b>Pulse</b>	Modulation to 1 kHz available as option			
<b>Certification</b>	<b>NIST Traceable Calibration of Irradiance in Vacuum</b>			
Plasma diameter	0.4	0.7	0.9	CM.
Plasma length	1.5	20	2.2	CM.
Plasma depth behind face of front flange	1.5	2.0	3.0	CM.
Input Power	5	8	15	Watts
Input voltage	70	115	260	VAC
Input Line Frequency	50	60	65	Hz
Mounting flange	2.75 inch CF is standard, lamp can be sealed to HV system			
Cooling	Forced air cooling with internal fan			
Intensity monitor	Intensity monitor available as an option			
Thermal control	na			
System	Complete system includes power supply, EMI shielded enclosure, Vacuum flange and NIST Traceable calibration			

Relative Optical output vs. time in nanoseconds





## Mechanical Specifications (configuration A)



Dimension	Value	Unit
A	10.5	cm
B	8	cm
C	6.8	cm
D	45 (Typ.)	Degrees
Tolerances	± 1	mm
Materials		
Window	Magnesium Fluoride	
Body	Aluminum	
Mass	1 kg.	
Vacuum Adapters	Stainless Steel	