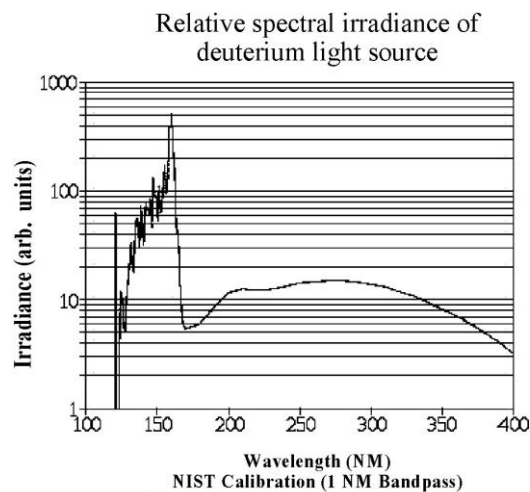
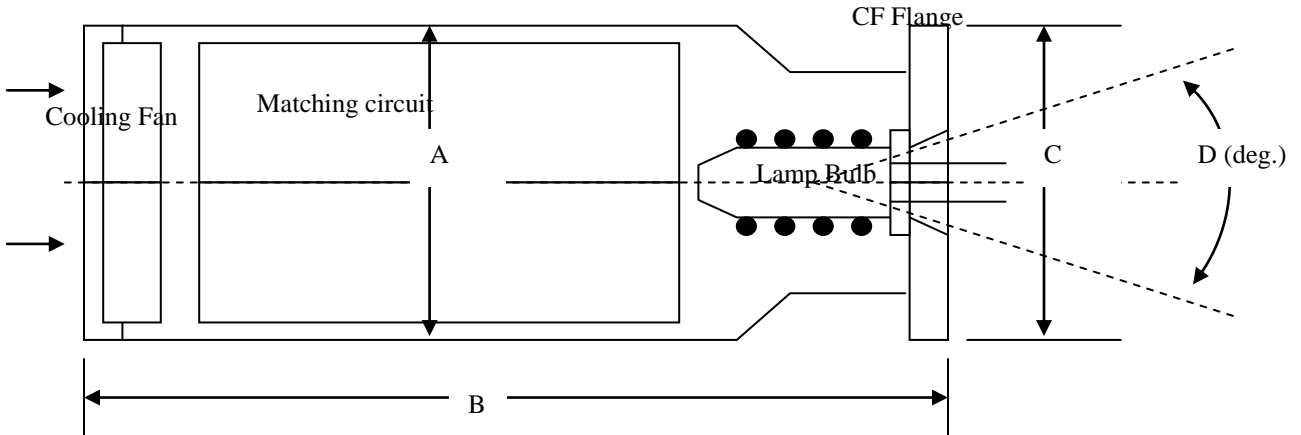


Model No:	Description:
D2ArCM-LHP	<p><b>High Power Deuterium VUV/UV Source</b></p> <p>This 115 to 1,000 NM RF lamp system is a reliable and maintenance free source of emissions from 115 to 7,000 NM. This source mounts to a 6 inch CF for convenient connection to a UHV system. VUV fluxes are delivered through the magnesium fluoride output window for use in vacuum applications such as photoionization, photolithography and mass spectroscopy. Lamp tube life is enhanced by internal thermal source of D2. Lower power versions of this lamp were used to UV/VUV flat-field the WF/PC II camera in-flight on the HST.</p>

Electrical /Optical Specifications/General:				
Specification	Minimum	Typical	Maximum	units
Gas Fill		Deuterium		na
Peak wavelengths	-	160, 260	-	NM
Full Spectral Range	-	110 to 7,000	-	NM
VUV Intensity (100 to 200 nm)	$2 \times 10^{16}$	$4 \times 10^{16}$	-	Photons/sec/sr
Full angle output cone	22	28	34	Degrees
Window Material		MgF <sub>2</sub>		na
Clear Aperture of window	0.4		1.8	CM.
Pulse	Modulation to 1 kz available as option			
Certification	NIST Traceable Calibration of Irradiance in Vacuum			
Plasma depth behind face of front flange	2.0	3.0	4.0	CM.
Plasma diameter	0.9		4	CM.
Plasma length	3		10	CM.
Input Power	25	75	120	Watts
Input voltage	70	115	260	VAC
Input Line Frequency	50	60	65	Hz
Mounting flange	6 inch Conflat is standard, lamp can be sealed to UHV 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			



## Mechanical Specifications (configuration A)



Dimension	Value	Unit
A	6.0	Inches
B	21.0 (Max)	Inches
C	6.0 (Max)	Inches
D	30 (Typ.)	Degrees
Tolerances	±0.005	Inches
Materials		
Window	Magnesium Flouride	
Body	Aluminum	
Mass	5 kg.	
Vacuum Adapters	Stainless Steel	

