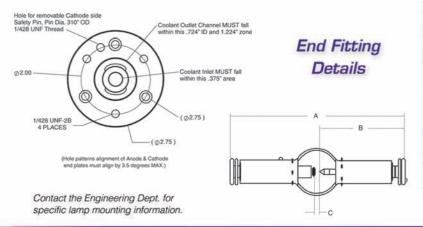


HIGH POWER LIQUID-COOLED XENON LAMPS





Superior Quartz lamps have longer life and stability due to cooling inlets that allow the greatest coolant flow available.



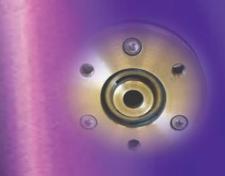
Flectrical & Photometric Data

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SPECIFICATION:	SX120001	SX150001	SX20000D	SX32000D
Lamp Electrical Data:				
	12.000	45,000	20,000	22.000
Lamp Power Size (Watts)	12,000	15,000	20,000	32,000
Arc Voltage Range (Vdc)	31-36	32-38	36-43	43-49
Lamp Current Range (Min-Max)(Amps)	275-375	275-400	275-525	325-700
Lamp Warranty (hours/starts) at rated power	1200 / 300	1200 / 300	500/250 @ 18-20kW	200* / 100
			400/200 @ 20.1-22kW	When Operated as follows:
(Starting & stand-by Current for 12 & 15K)	(220-270 Amps)	(220-270 amps)	350/175 @ 22.1-23kW	0-67 hours @ 600 Amps
ILIN IN DEPOSIT OF THE PARTY OF	MERCE CO. SUSTAINED TO SECURITION OF THE PERCENT OF		300/150 @ 23.1-24kW	68-135 hours @ 650 Amps
			250/125 @ 24.1-25kW	136-200 hours @ 700 amps
			(which ever occurs first)	
PHOTOMETRIC BRIGHTNESS - Cd/sq mm	375 Amps	400 Amps	525 Amps	700 Amps
.25mm circular area at Cathode tip	7400	8300	11,000	14,000
2.0 mm circular area at Cathode tip	3900	4200	7000	8000
3.0mm H x 6.0mm L rectangle at Cathode tip	1700	1850	3000	4000

Coolant Specifications

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SPECIFICATION:	SX120001	SX150001	SX20000D	SX32000D
FLOW RATES Min / Max (Gallons / Minute)				
Anode and Cathode in Series:	4.0 / 6.0	4.0 / 6.0	5.0 / 6.0	5.0 / 6.0
Anode:	4.0 / 6.0	4.0 / 6.0	5.0 / 6.0	5.0 / 6.0
Cathode:	3.5 / 6.0	3.5 / 6.0	3.5 / 6.0	3.5 / 6.0
COOLANT PRESSURE (PSIG)			1	
Max Lamp & System Pressure	250	250	250	250
Anode & Cathode in Series:				
Min Pressure Drop Across Lamp:	70	70	90	90
Nominal Anode Input Pressure	120	120	140	140
Nominal Cathode Output Pressure	25	25	30	30
Minumum Cathode Output Pressure	20	20	25	25
Anode & Cathode Cooled Seperately:				
Minimum Pressure Drop Across Lamp	35	35	40	40
Nominal Anode Input Pressure	120	120	140	140
Nominal Cathode Input Pressure	70	70	90	90
Nominal Cathode Output Pressure	25	25	30	30
Minimum Cathode Output Pressure	20	20	25	25

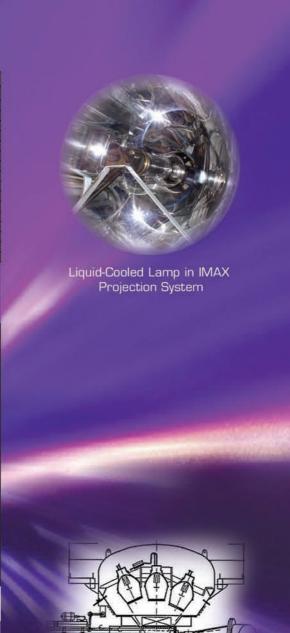
Coolant: Deionized or distilled water with a maintained specific conductance of 50 micromhos per cm, maximum. Outdoor searchlight lamp - a mixture of ethylene glycol and deionized or distilled water may be used. Filter: 10 microns at anode inlet for deionized or distilled water. 25 microns for ethylene glycol and deionized or distilled water mixture.





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SPECIFICATION:	SX120001	SX150001	SX20000D	SX32000D*	
DIMENSIONS:					
Overal Lamp Length A: (+156" / 4mm)	18.86" / 479mm	18.86* / 479mm	19.00" / 483mm	19.00" / 483mm	
Negative End to Cathode Tip B:	9.26" / 235mm	9.26" / 235mm	9.26" / 235mm	9.26" / 235mm	
Arc Gap - Cold C:	.384"(10mm) (+01")	.432" (11mm)(+01")	.511" (13mm)(+03)	.511" (13mm)(+03)	
Vessel Diameter	4.50" (114mm) O.D.	4.50° (114mm) O.D.	5.375* (136.5mm) O.D.	5.375" (136.5mm) O.D.	
Lamp Weight:	11 lbs. (5 kG)	11 lbs (5 kG)	12 lbs. (5.5 kG)	12 lbs. (5.5 kG)	



Space/Solar Simulator Lamp Assembly

## Markets and Applications

- Large Format Film Projection
- High-Power Area Searchlight
- · High-Power Flood Lighting
- · Space and Solar Simulators

### Technical Highlights

- 12,000 to 32,000 Watt Power Levels
- Durable Construction for Long Life
- Most Efficient Internal Electrode Cooling Passages
- Keyed Anode & Cathode Mounting Plates
- Brass End-Flanges for Maximum Electrical Contact
- Available Adapter Flanges for different mounting configurations
- Made in USA

# SUPERIOR QUARTZ PRODUCTS -LIGHT YEARS AHEAD



### **Corporate Office:**

2701 Baglyos Circle • Bethlehem, PA 18020 • 610-317-3450 • fax 610-317-3451• www.sqpuv.com

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