

Low pressure 10-k Zinc Lamps are major sources of extreme short wave UV radiation. They produce a variety of spectral lines with the strongest at 213.9nm. The lamps incorporate a special processing technique found only with **BHK** 10-K Zinc Lamps which offer exceptionally long life.

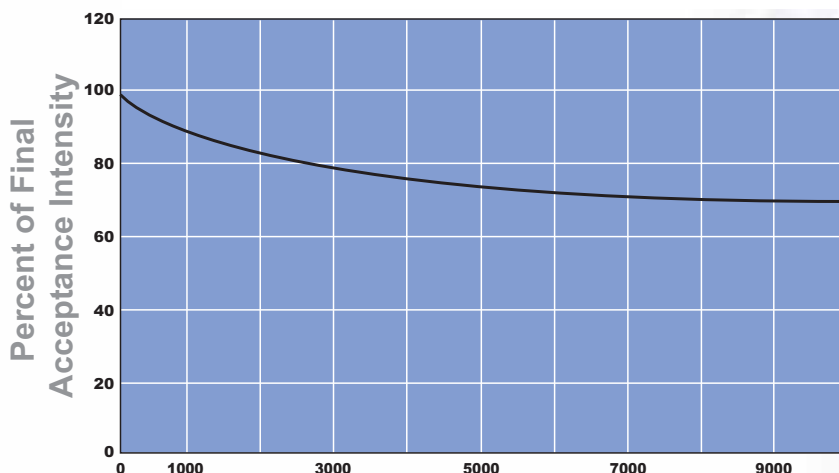
In addition, the 10-K Zinc Lamps are constructed with a special vacuum jacket around the double bore body and heat shield. The jacket isolates the lamp body, with the zinc arc, from the external environment. This gives the lamp body excellent temperature stability resulting in very low noise and steady lamp intensity that is relatively independent of external temperature fluctuations. The radiance from the lamp comes from two ports located on opposite sides of the lamp. This radiance can be used from both ports simultaneously, from a single port, and from any portion of the arc. A high output mark on the lamp informs the user which of the two ports is to be used for maximum output.



Features

- **10,000 Hour Lifetime**
(see page 2 for details)
- **Short Wave UV Radiation**
- **High Light Output Stability**
- **Efficient Two Port Output**
- **Low Noise**
- **Custom Designs and Configurations**
- **Special Vacuum Jacket Construction**
- **High Frequency Power Supplies Available**
- **ISO 9001:2008 Certified**

10-K Zinc Lamp Typical Life Data



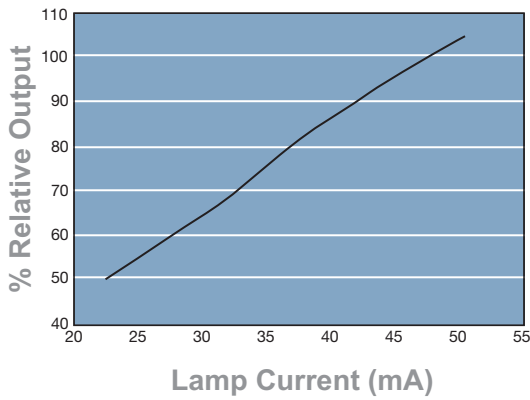
Hours of Continuous Operation
on BHK 25 KHz Inverter at 48mA

Applications

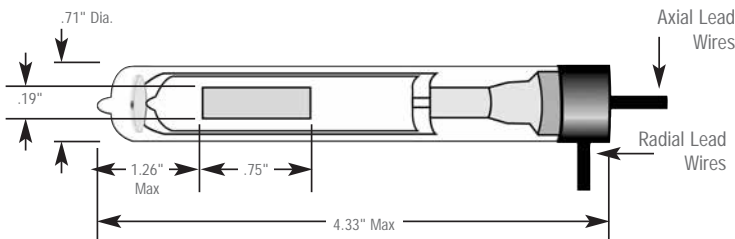
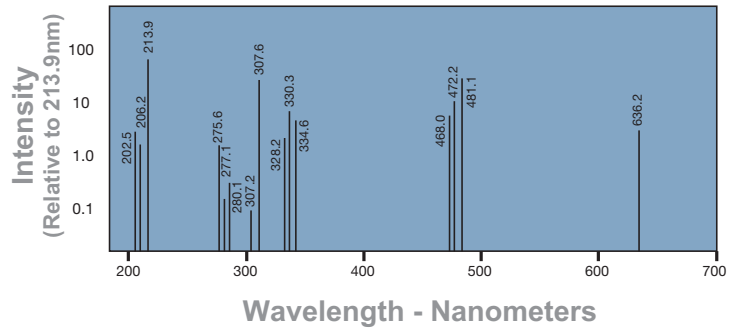
- **Analytical Instruments**
- **Wavelength Calibration**
- **Spectroscopy**
- **Interferometers**
- **HPLC Instruments**
- **Air Pollution Monitoring**
- **Photochemical Studies**

10-K Zinc Analamps®

Light Output vs. Current



Zinc Emission Data



Axial End View



Radial End View



Lead Terminations (All use 20KV Silicone Lead Wire)

TYPE	DESCRIPTION
1	18" Axial Leads, Bare End Wire
2	18" Radial Leads, Bare End Wire
3	18" Axial Leads with Power Supply Connector*
4	18" Radial Leads with Power Supply Connector*

*Mates with 90-0005-02 Power Supply

These lamps are available with either radial or axial lead wire configurations and Delrin end caps. Choose from a number of OEM or stand alone power supplies for your application as well as connectors and lead wire configurations. Custom lead and connector configurations are also available at your request.

P/N	SPECTRAL AND ELECTRICAL								DIMENSIONAL DATA			
	PEAK λ (nm)	MINIMUM INTENSITY ($\mu\text{W}/\text{cm}^2/\text{nm}$) @ 1 Meter	LAMP NOISE Note 1	DRIFT (Per Hr) Note 2	TYPICAL WARM-UP TIME Note 3	START V (Vrms) MAX.	TYPICAL OPER. V (Vrms) ($\pm 20\%$)	OPERATING CURRENT (mA)	* LEAD LENGTH	LEAD TERMINATIONS	PWR SUPPLY CONNECTOR REQ'D	END CAP
89-9025-01	213.9	≥ 0.25	$\leq 0.1\%$	$\leq 3\%$	10 Min.	1500	160	47.5	18" $\pm 1/4$ "	Type 1	Yes	Delrin
89-9025-02	213.9	≥ 0.25	$\leq 0.1\%$	$\leq 3\%$	10 Min.	1500	160	47.5	18" $\pm 1/4$ "	Type 2	Yes	Delrin
89-9025-11	213.9	≥ 0.25	$\leq 0.1\%$	$\leq 3\%$	10 Min.	1500	160	47.5	18" $\pm 1/4$ "	Type 3	No	Delrin
89-9025-12	213.9	≥ 0.25	$\leq 0.1\%$	$\leq 3\%$	10 Min.	1500	160	47.5	18" $\pm 1/4$ "	Type 4	No	Delrin

- Notes: 1. Single beam, time constant of 0.1 Sec. Wavelength of maximum intensity. 2. Taken under stable temperature conditions after 1 hour warmup.
 3. To maximum light output. 4. All lamps have 2 pigtail leads (20KV 22Awg)
 Standard lamp base is Delrin. RTV or Ceramic bases are available upon request.

Zinc Power Supplies

Part No.	Style	Frequency	Input Voltage	Output Current	Output Voltage	Dimensions
68-0026-01	OEM/PCB	25KHz	12V	47.5mA	1100V	3.25" L x 2.75" W x 0.75" H
68-0026-02	OEM/PCB	25KHz	24V	47.5mA	1100V	3.25" L x 2.75" W x 0.75" H
68-0026-03	OEM/PCB	25KHz	48V	47.5mA	1100V	3.25" L x 2.75" W x 0.75" H
90-0005-02	Stand Alone	25KHz	85-230VAC	47.5mA	1100V	6.50" L x 4.00" W x 2.25" H
90-0010-01	Stand Alone	50/60Hz	100-115VAC	47.5mA	1500V	4.25" L x 6.25" W x 3.50" H

10-K Zinc Lamp Warranty: Under continuous operation and operating on a BHK supplied or approved power supply, the 10-K Zinc Lamp is warranted to operate with a minimum intensity equal to or higher than 50% of the initial intensity specification during the first 10,000 hours of operation or 18months, whichever occurs first.

Under intermittent operation on a BHK supplied or approved power supply, the 10-K Zinc Lamp is warranted to operate with a minimum intensity equal to or higher than 50% of the initial intensity specification during the first 2,500 hours of operation or 18months, whichever occurs first.

