

Hollow Cathode Lamp



Our hollow cathode lamps are fitted as originals by many of the world foremost atomic absorption instrument manufacturers and as replacements by many end-users.

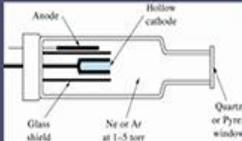
Our lamp program includes approx. 70 single elements in the versions 37 mm (1.5") "Standard" and 50 mm (2.0") "Perkin Elmer" and, therefore covers a wide range of instruments.

PRODUCT ADVANTAGES

BODELUD(BEIJING) ENERGY CONSERVATION TECHNOLOGY CO., LTD

Hollow cathode lamp

- Used in AAS
- Filled with Ne or Ar at a pressure of 130-700 Pa (1-5 Torr).
- When high voltage is applied between anode and cathode, filler gas becomes ionised
- Positive ions accelerated toward cathode
- Strike cathode with enough energy to "sputter" metal atoms from the cathode to yield cloud with excited atoms
- Atoms emit line spectra



LONG LIFE: 5000 MA HOURS

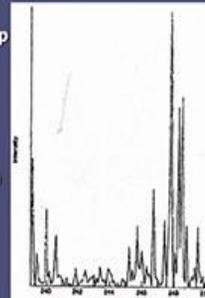
Each regular element lamp carries 5000 mA-Hour warranty. Some volatile element lamp carries 3000 mA-Hour warranty, such as As, Se, Sb, Bi, Pb, Cd, etc.



HIGH INTENSITY

Example: Output from iron hollow cathode lamp

- Small portion of spectrum from Fe hollow cathode lamp
- Shows sharp lines characteristic of gaseous atoms
- Linewidths are artificially broadened by monochromator (bandwidth = 0.08 nm)



Specs

Category	Data
Glowing starting voltage:	350 V
Radiation stability:	1% over 30 minutes
Size: 1.5" lamps	Diameter: 38 mm, Length: 160 mm
Size: 2" lamps	Diameter: 50 mm, Length: 180 mm
Lifetime:	5000 mA hours

● Precautions

- We recommend operating current for 1/3 of the maximum current. To obtain best result and maximize lamp life, use the recommended operating current. Operate the lamp at the lowest current at which acceptable reading is attained. Keep the lamp window clean. Start with recommended current, allowing for 20-30 minute warm-up period.

- Perkin Elmer
- Shimadzu
- Hitachi
- Agilent/Varian
- Analytik Jena
- GBC
- Therm Fisher
- Buck Scientific
- P.G Instrument
- Etc.

● Warranty

The materials used are pre-selected with high quality performance and every lamp is thoroughly tested to ensure it meets the accuracy, reliability and sustainability. We will replace any lamp that does not perform up to its specifications during warranty period. We guarantee 100% money return if found any quality issue or unsatisfactory whenever you select our HCL lamps. Usually, each HCL lamp carries 5000 mA hours (six months) or whichever comes first.

● OEM available

● Ordering information

- OSIS Instrument Solution 003023748-K
- 8, Jalan Waterfall 1, 48000, Rawang, Selangor, Malaysia.
- Tel: 012-2919329
- ✉ osis.instrument@gmail.com
- ✉ <https://www.osis-instrument.com>