



Heraeus Hollow Cathode Lamps

High Quality Lamps for all Instrument Brands

Hollow cathode lamps are primarily used in instruments for atomic absorption spectroscopy (AAS).

Heraeus hollow cathode lamps are designed for optimal performance and characterised by good chemical sensitivity and spectral response, combined with stable light output and low noise.

Heraeus hollow cathode lamps are available both for OEMs and as a replacement lamp by discerning users the world over. The range includes standard lamps and data-coded versions for PerkinElmer, Varian and ThermoFisher atomic absorption spectrometers. Lamps for use with Smith-Hieftje background correction can also be offered.

Heraeus Hollow Cathode Lamp range includes:

- 70 single-element lamps
- More than 120 multi-element lamps with up to seven combined elements
- 1½" (37 mm) and 2" (50 mm) diameters
- Low-Current and High-Current versions for optimum performance in all OEM systems
- Standard and coded lamps
- Available for OEMs and end users
- High stability, low noise and long service life due to advanced cathode technology
- Special power supply available

Applications of Hollow Cathode Lamps

- Atomic Absorption Spectroscopy (AAS)
- Atomic Fluorescence Spectroscopy
- Multi wavelength laser tuning
- Laser output stabilisation (optogalvanic effect)
- Multi component analysers
- Medical analysers



Single-Element Lamps

The Heraeus catalogue includes 70 single-element lamps in standard 37 mm (1½ inch) and 50 mm (2 inch) diameters to fit almost any AA instrument. All cathode materials are selected from the highest purity available – usually 99.99 % or better – to ensure high spectral line intensity, stability and low noise with good analytical sensitivity. The window material is selected to achieve the optimum transmission of the primary spectral lines of the cathode element. Borosilicate glass is used for wavelengths over 350 nm, and high quality quartz for shorter wavelengths.

Multi-Element Lamps

Heraeus manufactures the largest range of multi-element lamps offering only those combinations which provide sufficient energy and an acceptable lifetime for each element with no spectral interference. Multi-element hollow cathode lamps are available with two to seven different element combinations. These are particularly useful for carrying out routine analysis on a number of different elements in the same sample, such as alloys.



37 mm Hollow Cathode Lamp



50 mm Hollow Cathode Lamp

Replacement Lamps

Use our replacement lamp search engine on our website to find the right hollow cathode lamp for your appliance.

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