



## Hollow Cathode Lamps from Heraeus Noblelight

Since the friendly takeover of Cathodeon and IST Spectral Technologies, Heraeus Noblelight offers a large variety of high-quality hollow cathode lamps. Heraeus hollow cathode lamps are fitted as originals by many of the worlds foremost atomic absorption instrument manufacturers and as replacements by many end-users.

The Heraeus lamp program includes approx. 70 single- and more than 120 multi-element lamps in the versions "Standard" and "Perkin Elmer" and, therefore covers a wide range of instruments. Where appropriate, these lamps are available with data-coded bases, allowing the instrument to automatically identify the lamp element. In addition, a range of lamps specifically designed for use with Smith-Hieftje background correction systems is available.

37 mm (1½ inch)  
 "Standard" Hollow Cathode Lamps



37 mm standard hollow cathode lamp

50 mm (2 inch)  
 "Perkin Elmer" Hollow Cathode Lamps



50 mm hollow cathode lamp (Perkin Elmer AAnalyst coded)

Heraeus 37 mm hollow cathode lamps are suitable for most commercial atomic absorption spectrometers: Analytik Jena, Baird Atomic, Beckman, Chemtech Analytical, Corning-EEL (Evans), Fisher Jarrell-Ash, GBC, Hitachi, Instrument Laboratory, Jenoptik, Unicam, Rank-Hilger, Scintrex, Shandon Southern, Shimadzu, Thermo Jarrell-Ash, Varian, Zeiss.

AAS instruments manufactured by Perkin Elmer require lamps with a diameter of 50 mm (2 inches). Non-coded lamps come with a 9-pin connector, coded versions have a 12-pin connector.

### Coded Hollow Cathode Lamps

We offer a large variety of data-coded single- and multi-element lamps for instruments manufactured by Perkin Elmer, Thermo-Unicam and Varian. Data coded lamps incorporate in the base or connector a unique electronic configuration which the instrument recognises and uses to set default operating parameters for the routine analysis of that element. The electronic configuration of the data-coding is specific to each instrument manufacturer and is not interchangeable.

### Warranty

Heraeus hollow cathode lamps are warranted to emit spectra for a period of 24 months from the date of despatch or 5000 mA hours usage, whichever occurs first. HCLs for Smith-Hieftje systems are warranted for 500 hours with the exception of the elements As, La, Sb and Tl (150 hours), Bi, Cs, Na, Si and Ti (200 hours), Te and K (300 hours).

### Order Information

Information gained from part numbers, for example 3QNYxx-xx or 5UNxx-xx:

3 or 5	=	37 mm or 50 mm	-SH	=	Smith-Hieftje (Self-Reversal, Giant Pulse)
Q, U or B	=	Window material: Quartz, UV-Glass oder Borosilicate	-U	=	Thermo-Unicam coded
N or A	=	Gas fill: Ne or Ar	-V	=	Varian coded
X or Y	=	Shape (only 37 mm lamps)	-P	=	Perkin Elmer coded (12-Pin)
xx	=	Chemical element	-A	=	Perkin Elmer AAnalyst coded