

## **.red<sup>®</sup> Hollow cathode lamps**



### **Product datasheet**

#### **Description**

#### **Features**

• **red** brand hollow cathode lamps are offered for most atomic absorption spectrometer instrument/element combinations:

- Non-coded
- Data coded for Thermo (Unicam), Agilent (Varian) and Perkin Elmer
- Single and multi-element
- 1½" (37mm) and 2" (51mm)
- Sharp, narrow band width spectral lines
- Neon filled
- Quartz or Pyrex windowed depending on wavelength
- Unique serial number for traceability

All • **red** brand hollow cathode lamps are shipped with detailed instructions on installation.



#### **Applications**

• **red** brand hollow cathode lamps are gas discharge devices in which the discharge is highly constrained around the cathode of a specific metal. The resultant output is a unique line spectrum, the most intense of which are suitable for highly specific and sensitive metals analysis.

The technology can be extended to include the following applications:

- Atomic absorption spectrophotometry
- Atomic fluorescence spectroscopy
- Multi-wavelength laser tuning and Laser output stabilisation
- Multicomponent analysers
- Environmental analysers
- Medicinal analysers

#### **Fittings and instruments**

• **red** 1.5" (37mm) lamps are fitted with a 2-pin octal base. while the 2" (51mm) version has a flying lead terminating in a standard M9 plug. Data coded versions of these lamps use multiple pinned octal bases specific to the intended manufacturer whilst the coded plug terminating 51mm lamps mates with the M12 socket in the instrument.

1.5" (37mm) lamps are suited to most makes of AA and can be used in PE instruments with care and additional hardware.

2" (51mm) lamps are restricted for use in Perkin Elmer instruments.

Contact your dealer for further information.

Distributed by  
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**STRATLAB**

**Product datasheet**

**Ordering information**

**Single element, 1.5" (37mm) diameter lamps, coded for Unicam instruments**

Code	Description	Model
172700	H-C lamp 1.5" Aluminium/Al coded Pye-Uni	Al for Pye-Unicam
172701	H-C lamp 1.5" Antimony/Sb coded Pye-Uni	Sb for Pye-Unicam
172702	H-C lamp 1.5" Arsenic/As coded Pye-Uni	As for Pye-Unicam
172703	H-C lamp 1.5" Barium/Ba coded Pye-Unicam	Ba for Pye-Unicam
172704	H-C lamp 1.5" Beryllium/Be coded Pye-Uni	Be for Pye-Unicam
172705	H-C lamp 1.5" Bismuth/Bi coded Pye-Unicam	Bi for Pye-Unicam
172706	H-C lamp 1.5" Boron/B coded Pye-Unicam	B for Pye-Unicam
172707	H-C lamp 1.5" Cadmium/Cd coded Pye-Uni	Cd for Pye-Unicam
172708	H-C lamp 1.5" Cesium/Cs coded Pye-Unicam	Cs for Pye-Unicam
172709	H-C lamp 1.5" Calcium/Ca coded Pye-Uni	Ca for Pye-Unicam
172710	H-C lamp 1.5" Cerium/Ce coded Pye-Unicam	Ce for Pye-Unicam
172711	H-C lamp 1.5" Chromium/Cr coded Pye-Uni	Cr for Pye-Unicam
172712	H-C lamp 1.5" Cobalt/Co coded Pye-Unicam	Co for Pye-Unicam
172713	H-C lamp 1.5" Copper/Cu coded Pye-Unicam	Cu for Pye-Unicam
172714	H-C lamp 1.5" Dysprosium/Dy coded Pye-Un	Dy for Pye-Unicam
172715	H-C lamp 1.5" Erbium/Er coded Pye-Unicam	Er for Pye-Unicam
172716	H-C lamp 1.5" Europium/Eu coded Pye-Uni	Eu for Pye-Unicam
172717	H-C lamp 1.5" Gadolinium/Gd coded Pye-Un	Gd for Pye-Unicam
172718	H-C lamp 1.5" Gallium/Ga coded Pye-Uni	Ga for Pye-Unicam
172719	H-C lamp 1.5" Germanium/Ge coded Pye-Uni	Ge for Pye-Unicam
172720	H-C lamp 1.5" Gold/Au coded Pye-Unicam	Au for Pye-Unicam
172721	H-C lamp 1.5" Hafnium/Hf coded Pye-Uni	Hf for Pye-Unicam
172722	H-C lamp 1.5" Holmium/Ho coded Pye-Uni	Ho for Pye-Unicam
172723	H-C lamp 1.5" D2 coded for Pye-Unicam	D2 for Pye-Unicam
172724	H-C lamp 1.5" Indium/In coded Pye-Unicam	In for Pye-Unicam
172725	H-C lamp 1.5" Iridium/Ir coded Pye-Uni	Ir for Pye-Unicam
172726	H-C lamp 1.5" Iron/Fe coded Pye-Unicam	Fe for Pye-Unicam
172727	H-C lamp 1.5" Lanthanum/La coded Pye-Uni	La for Pye-Unicam
172729	H-C lamp 1.5" Lithium/Li coded Pye-Uni	Li for Pye-Unicam
172730	H-C lamp 1.5" Lutetium/Lu coded Pye-Uni	Lu for Pye-Unicam
172728	H-C lamp 1.5" Lead/Pb coded Pye-Unicam	Pb for Pye-Unicam
172731	H-C lamp 1.5" Magnesium/Mg coded Pye-Uni	Mg for Pye-Unicam
172732	H-C lamp 1.5" Manganese/Mn coded Pye-Uni	Mn for Pye-Unicam
172733	H-C lamp 1.5" Mercury/Hg coded Pye-Unicam	Hg for Pye-Unicam

**Product datasheet**

**Ordering information (cont.)**

**Single element, 1.5" (37mm) diameter lamps, coded for Unicam instruments**

Code	Description	Model
172734	H-C lamp 1.5" Molybdenum/Mo coded Pye-Un	Mo for Pye-Unicam
172735	H-C lamp 1.5" Neodymium/Nd coded Pye-Uni	Nd for Pye-Unicam
172736	H-C lamp 1.5" Nickel/Ni coded Pye-Unicam	Ni for Pye-Unicam
172737	H-C lamp 1.5" Niobium/Nb coded Pye-Uni	Nb for Pye-Unicam
172738	H-C lamp 1.5" Osmium/Os coded Pye-Unicam	Os for Pye-Unicam
172739	H-C lamp 1.5" Palladium/Pd coded Pye-Uni	Pd for Pye-Unicam
172740	H-C lamp 1.5" Phosphorus/P coded Pye-Uni	P for Pye-Unicam
172741	H-C lamp 1.5" Platinum/Pt coded Pye-Unic	Pt for Pye-Unicam
172742	H-C lamp 1.5" Potassium/K coded Pye-Uni	K for Pye-Unicam
172743	H-C lamp 1.5" Praesodym/Pr coded Pye-Uni	Pr for Pye-Unicam
172744	H-C lamp 1.5" Rhenium/Re coded Pye-Unic	Re for Pye-Unicam
172745	H-C lamp 1.5" Rhodium/Rh coded Pye-Uni	Rh for Pye-Unicam
172746	H-C lamp 1.5" Rubidium/Rb coded Pye-Uni	Rb for Pye-Unicam
172747	H-C lamp 1.5" Rhuthenium/Ru coded Pye-Un	Ru for Pye-Unicam
172748	H-C lamp 1.5" Samarium/Sm coded Pye-Uni	Sm for Pye-Unicam
172749	H-C lamp 1.5" Scandium/Sc coded Pye-Uni	Sc for Pye-Unicam
172750	H-C lamp 1.5" Selenium/Se coded Pye-Uni	Se for Pye-Unicam
172751	H-C lamp 1.5" Silicon/Si coded Pye-Uni	Si for Pye-Unicam
172752	H-C lamp 1.5" Silver/Ag coded Pye-Unicam	Ag for Pye-Unicam
172753	H-C lamp 1.5" Sodium/Na coded Pye-Unicam	Na for Pye-Unicam
172754	H-C lamp 1.5" Strontium/Sr coded Pye-Uni	Sr for Pye-Unicam
172755	H-C lamp 1.5" Tantalum/Ta coded Pye-Uni	Ta for Pye-Unicam
172756	H-C lamp 1.5" Tellurium/Te coded Pye-Uni	Te for Pye-Unicam
172757	H-C lamp 1.5" Terbium/Tb coded Pye-Uni	Tb for Pye-Unicam
172758	H-C lamp 1.5" Thallium/Tl coded Pye-Uni	Tl for Pye-Unicam
172759	H-C lamp 1.5" Thorium/Th coded Pye-Uni	Th for Pye-Unicam
172760	H-C lamp 1.5" Thulium/Tm coded Pye-Unic	Tm for Pye-Unicam
172761	H-C lamp 1.5" Tin/Sn coded Pye-Unicam	Sn for Pye-Unicam
172762	H-C lamp 1.5" Titanium/Ti coded Pye-Uni	Ti for Pye-Unicam
172763	H-C lamp 1.5" Tungsten/W coded Pye-Unic	W for Pye-Unicam
172764	H-C lamp 1.5" Vanadium/V coded Pye-Unica	V for Pye-Unicam
172765	H-C lamp 1.5" Ytterbium/Yb coded Pye-Uni	Yb for Pye-Unicam
172766	H-C lamp 1.5" Yttrium/Y coded Pye-Unicam	Y for Pye-Unicam
172767	H-C lamp 1.5" Zinc/Zn coded Pye-Unicam	Zn for Pye-Unicam
172768	H-C lamp 1.5" Zirconium/Zr coded Pye-Uni	Zr for Pye-Unicam

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The logo for STRATLAB, consisting of the word "STRATLAB" in a bold, uppercase, sans-serif font. The letters "S" and "B" are flanked by orange squares.