

# **.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.

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## **Product datasheet**

### **Ordering information**

#### **Single element, 2" (50mm) diameter lamps, coded for Perkin Elmer instruments**

Code	Description	Model
173451	H-C lamp 2.0" Al P.E. coded	Al for Perkin Elmer
173453	H-C lamp 2.0" As P.E. coded	As for Perkin Elmer
173454	H-C lamp 2.0" Ba P.E. coded	Ba for Perkin Elmer
173455	H-C lamp 2.0" Be P.E. coded	Be for Perkin Elmer
173456	H-C lamp 2.0" Bi P.E. coded	Bi for Perkin Elmer
173457	H-C lamp 2.0" B P.E. coded	B for Perkin Elmer
173458	H-C lamp 2.0" Cd P.E. coded	Cd for Perkin Elmer
173459	H-C lamp 2.0" Cs P.E. coded	Cs for Perkin Elmer
173460	H-C lamp 2.0" Ca P.E. coded	Ca for Perkin Elmer
173461	H-C lamp 2.0" Ce P.E. coded	Ce for Perkin Elmer
173462	H-C lamp 2.0" Cr P.E. coded	Cr for Perkin Elmer
173463	H-C lamp 2.0" Co P.E. coded	Co for Perkin Elmer
173464	H-C lamp 2.0" Cu P.E. coded	Cu for Perkin Elmer
173465	H-C lamp 2.0" Dy P.E. coded	Dy for Perkin Elmer
173466	H-C lamp 2.0" Er P.E. coded	Er for Perkin Elmer
173467	H-C lamp 2.0" Eu P.E. coded	Eu for Perkin Elmer
173468	H-C lamp 2.0" Gd P.E. coded	Gd for Perkin Elmer
173469	H-C lamp 2.0" Ga P.E. coded	Ga for Perkin Elmer
173470	H-C lamp 2.0" Ge P.E. coded	Ge for Perkin Elmer
173471	H-C lamp 2.0" Au P.E. coded	Au for Perkin Elmer
173472	H-C lamp 2.0" Hf P.E. coded	Hf for Perkin Elmer
173473	H-C lamp 2.0" Ho P.E. coded	Ho for Perkin Elmer
173474	H-C lamp 2.0" In P.E. coded	In for Perkin Elmer
173475	H-C lamp 2.0" Ir P.E. coded	Ir for Perkin Elmer
173476	H-C lamp 2.0" Fe P.E. coded	Fe for Perkin Elmer
173477	H-C lamp 2.0" La P.E. coded	La for Perkin Elmer
173479	H-C lamp 2.0" Li P.E. coded	Li for Perkin Elmer
173480	H-C lamp 2.0" Lu P.E. coded	Lu for Perkin Elmer
173483	H-C lamp 2.0" Hg P.E. coded	Hg for Perkin Elmer
173492	H-C lamp 2.0" K P.E. coded	K for Perkin Elmer
173502	H-C lamp 2.0" Ag P.E. coded	Ag for Perkin Elmer
173452	H-C lamp 2.0" Sb P.E. coded	Sb for Perkin Elmer
173478	H-C lamp 2.0" Pb P.E. coded	Pb for Perkin Elmer

**Product datasheet**

**Ordering information (cont.)**

**Single element, 2" (50mm) diameter lamps, coded for Perkin Elmer instruments**

Code	Description	Model
173481	H-C lamp 2.0" Mg P.E. coded	Mg for Perkin Elmer
173482	H-C lamp 2.0" Mn P.E. coded	Mn for Perkin Elmer
173484	H-C lamp 2.0" Mo P.E. coded	Mo for Perkin Elmer
173485	H-C lamp 2.0" Nd P.E. coded	Nd for Perkin Elmer
173486	H-C lamp 2.0" Ni P.E. coded	Ni for Perkin Elmer
173487	H-C lamp 2.0" Nb P.E. coded	Nb for Perkin Elmer
173488	H-C lamp 2.0" Os P.E. coded	Os for Perkin Elmer
173489	H-C lamp 2.0" Pd P.E. coded	Pd for Perkin Elmer
173490	H-C lamp 2.0" P P.E. coded	P for Perkin Elmer
173491	H-C lamp 2.0" Pt P.E. coded	Pt for Perkin Elmer
173493	H-C lamp 2.0" Pr P.E. coded	Pr for Perkin Elmer
173494	H-C lamp 2.0" Re P.E. coded	Re for Perkin Elmer
173495	H-C lamp 2.0" Rh P.E. coded	Rh for Perkin Elmer
173496	H-C lamp 2.0" Rb P.E. coded	Rb for Perkin Elmer
173497	H-C lamp 2.0" Ru P.E. coded	Ru for Perkin Elmer
173498	H-C lamp 2.0" Sm P.E. coded	Sm for Perkin Elmer
173499	H-C lamp 2.0" Sc P.E. coded	Sc for Perkin Elmer
173500	H-C lamp 2.0" Se P.E. coded	Se for Perkin Elmer
173501	H-C lamp 2.0" Si P.E. coded	Si for Perkin Elmer
173503	H-C lamp 2.0" Na P.E. coded	Na for Perkin Elmer
173504	H-C lamp 2.0" Sr P.E. coded	Sr for Perkin Elmer
173505	H-C lamp 2.0" Ta P.E. coded	Ta for Perkin Elmer
173506	H-C lamp 2.0" Te P.E. coded	Te for Perkin Elmer
173507	H-C lamp 2.0" Tb P.E. coded	Tb for Perkin Elmer
173508	H-C lamp 2.0" Tl P.E. coded	Tl for Perkin Elmer
173509	H-C lamp 2.0" Th P.E. coded	Th for Perkin Elmer
173510	H-C lamp 2.0" Tm P.E. coded	Tm for Perkin Elmer
173511	H-C lamp 2.0" Sn P.E. coded	Sn for Perkin Elmer
173512	H-C lamp 2.0" Ti P.E. coded	Ti for Perkin Elmer
173513	H-C lamp 2.0" W P.E. coded	W for Perkin Elmer
173515	H-C lamp 2.0" V P.E. coded	V for Perkin Elmer
173516	H-C lamp 2.0" Yb P.E. coded	Yb for Perkin Elmer
173517	H-C lamp 2.0" Y P.E. coded	Y for Perkin Elmer
173518	H-C lamp 2.0" Zn P.E. coded	Zn for Perkin Elmer
173519	H-C lamp 2.0" Zr P.E. coded	Zr for Perkin Elmer