

.red[®] Product (Heading)



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.

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

Contact your dealer for further information.



Product datasheet

Ordering information

Single element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|---------------------------------------|--------------|
| 173218 | H-C lamp 2.0" Aluminium/Al non-coded | Al non-coded |
| 173219 | H-C lamp 2.0" Antimony/Sb non-coded | Sb non-coded |
| 173220 | H-C lamp 2.0" Arsenic/As non-coded | As non-coded |
| 173221 | H-C lamp 2.0" Barium/Ba non-coded | Ba non-coded |
| 173222 | H-C lamp 2.0" Beryllium/Be non-coded | Be non-coded |
| 173223 | H-C lamp 2.0" Bismuth/Bi non-coded | Bi non-coded |
| 173224 | H-C lamp 2.0" Boron/B non-coded | B non-coded |
| 173225 | H-C lamp 2.0" Cadmium/Cd non-coded | Cd non-coded |
| 173226 | H-C lamp 2.0" Cesium/Cs non-coded | Cs non-coded |
| 173227 | H-C lamp 2.0" Calcium/Ca non-coded | Ca non-coded |
| 173228 | H-C lamp 2.0" Cerium/Ce non-coded | Ce non-coded |
| 173229 | H-C lamp 2.0" Chromium/Cr non-coded | Cr non-coded |
| 173230 | H-C lamp 2.0" Cobalt/Co non-coded | Co non-coded |
| 173231 | H-C lamp 2.0" Copper/Cu non-coded | Cu non-coded |
| 173232 | H-C lamp 2.0" Dysprosium/Dy non-coded | Dy non-coded |
| 173233 | H-C lamp 2.0" Erbium/Er non-coded | Er non-coded |
| 173234 | H-C lamp 2.0" Europium/Eu non-coded | Eu non-coded |
| 173235 | H-C lamp 2.0" Gadolinium/Gd non-coded | Gd non-coded |
| 173236 | H-C lamp 2.0" Gallium/Ga non-coded | Ga non-coded |
| 173237 | H-C lamp 2.0" Germanium/Ge non-coded | Ge non-coded |
| 173238 | H-C lamp 2.0" Gold/Au non-coded | Au non-coded |
| 173239 | H-C lamp 2.0" Hafnium/Hf non-coded | Hf non-coded |
| 173240 | H-C lamp 2.0" Holmium/Ho non-coded | Ho non-coded |
| 173241 | H-C lamp 2.0" Indium/In non-coded | In non-coded |
| 173242 | H-C lamp 2.0" Iridium/Ir non-coded | Ir non-coded |
| 173243 | H-C lamp 2.0" Iron/Fe non-coded | Fe non-coded |
| 173244 | H-C lamp 2.0" Lanthanum/La non-coded | La non-coded |
| 173245 | H-C lamp 2.0" Lead/Pb non-coded | Pb non-coded |
| 173246 | H-C lamp 2.0" Lithium/Li non-coded | Li non-coded |
| 173247 | H-C lamp 2.0" Lutetium/Lu non-coded | Lu non-coded |
| 173248 | H-C lamp 2.0" Magnesium/Mg non-coded | Mg non-coded |
| 173249 | H-C lamp 2.0" Manganese/Mn non-coded | Mn non-coded |
| 173250 | H-C lamp 2.0" Mercury/Hg non-coded | Hg non-coded |
| 173251 | H-C lamp 2.0" Molybdenum/Mo non-coded | Mo non-coded |
| 173252 | H-C lamp 2.0" Neodymium/Nd non-coded | Nd non-coded |

Product datasheet

Ordering information (cont.)

Single element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|---|--------------|
| 173253 | H-C lamp 2.0" Nickel/Ni non-coded | Ni non-coded |
| 173254 | H-C lamp 2.0" Niobium/Nb non-coded | Nb non-coded |
| 173255 | H-C lamp 2.0" Osmium/Os non-coded | Os non-coded |
| 173256 | H-C lamp 2.0" Palladium/Pd non-coded | Pd non-coded |
| 173257 | H-C lamp 2.0" Phosphorus/P non-coded | P non-coded |
| 173258 | H-C lamp 2.0" Platinum/Pt non-coded | Pt non-coded |
| 173259 | H-C lamp 2.0" Potassium/K non-coded | K non-coded |
| 173260 | H-C lamp 2.0" Praseodymium/Pr non-coded | Pr non-coded |
| 173261 | H-C lamp 2.0" Rhenium/Re non-coded | Re non-coded |
| 173262 | H-C lamp 2.0" Rhodium/Rh non-coded | Rh non-coded |
| 173263 | H-C lamp 2.0" Rubidium/Rb non-coded | Rb non-coded |
| 173264 | H-C lamp 2.0" Ruthenium/Ru non-coded | Ru non-coded |
| 173265 | H-C lamp 2.0" Samarium/Sm non-coded | Sm non-coded |
| 173266 | H-C lamp 2.0" Scandium/Sc non-coded | Sc non-coded |
| 173267 | H-C lamp 2.0" Selenium/Se non-coded | Se non-coded |
| 173268 | H-C lamp 2.0" Silicon/Si non-coded | Si non-coded |
| 173269 | H-C lamp 2.0" Silver/Ag non-coded | Ag non-coded |
| 173270 | H-C lamp 2.0" Sodium/Na non-coded | Na non-coded |
| 173271 | H-C lamp 2.0" Strontium/Sr non-coded | Sr non-coded |
| 173272 | H-C lamp 2.0" Tantalum/Ta non-coded | Ta non-coded |
| 173273 | H-C lamp 2.0" Tellurium/Te non-coded | Te non-coded |
| 173274 | H-C lamp 2.0" Terbium/Tb non-coded | Tb non-coded |
| 173275 | H-C lamp 2.0" Thallium/Tl non-coded | Tl non-coded |
| 173276 | H-C lamp 2.0" Thorium/Th non-coded | Th non-coded |
| 173277 | H-C lamp 2.0" Thulium/Tm non-coded | Tm non-coded |
| 173278 | H-C lamp 2.0" Tin/Sn non-coded | Sn non-coded |
| 173279 | H-C lamp 2.0" Titanium/Ti non-coded | Ti non-coded |
| 173280 | H-C lamp 2.0" Tungsten/W non-coded | W non-coded |
| 173281 | H-C lamp 2.0" Vanadium/V non-coded | V non-coded |
| 173282 | H-C lamp 2.0" Ytterbium/Yb non-coded | Yb non-coded |
| 173283 | H-C lamp 2.0" Yttrium/Y non-coded | Y non-coded |
| 173284 | H-C lamp 2.0" Zinc/Zn non-coded | Zn non-coded |
| 173285 | H-C lamp 2.0" Zirconium/Zr non-coded | Zr non-coded |

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Ordering information (cont.)

Two element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|-------------------------------------|-----------------------|
| 173286 | H-C lamp 2.0" Al/Ca non-coded | Al/Ca non-coded |
| 173287 | H-C lamp 2.0" Al/Si non-coded | Al/Si non-coded |
| 173288 | H-C lamp 2.0" Ba/Ca non-coded | Ba/Ca non-coded |
| 173289 | H-C lamp 2.0" Ba/Sr non-coded | Ba/Sr non-coded |
| 173290 | H-C lamp 2.0" Cd/Cu non-coded | Cd/Cu non-coded |
| 173291 | H-C lamp 2.0" Ca/Mg non-coded | Ca/Mg non-coded |
| 173292 | H-C lamp 2.0" Cr/Ag non-coded | Cr/Ag non-coded |
| 173293 | H-C lamp 2.0" Cr/Cu non-coded | Cr/Cu non-coded |
| 173294 | H-C lamp 2.0" Cr/Mn non-coded | Cr/Mn non-coded |
| 173295 | H-C lamp 2.0" Co/Cu non-coded | Co/Cu non-coded |
| 173296 | H-C lamp 2.0" Co/Mn non-coded | Co/Mn non-coded |
| 173297 | H-C lamp 2.0" Co/Ni non-coded | Co/Ni non-coded |
| 173298 | H-C lamp 2.0" Co/Zr non-coded | Co/Zr non-coded |
| 173299 | H-C lamp 2.0" Cu/Mg non-coded | Cu/Mg non-coded |
| 173300 | H-C lamp 2.0" Cu/Ni non-coded | Cu/Ni non-coded |
| 173301 | H-C lamp 2.0" Au/Ni non-coded | Au/Ni non-coded |
| 173302 | H-C lamp 2.0" Fe/Mn non-coded | Fe/Mn non-coded |
| 173303 | H-C lamp 2.0" Li/Mg non-coded | Li/Mg non-coded |
| 173304 | H-C lamp 2.0" Na/K non-coded | Na/K non-coded |
| 173305 | H-C lamp 2.0" Na/K Argon non-coded | Na/K Argon non-coded |
| 173306 | H-C lamp 2.0" Na/K Quartz non-coded | Na/K Quartz non-coded |
| 173307 | H-C lamp 2.0" Al/Li non-coded | Al/Li non-coded |
| 173308 | H-C lamp 2.0" As/Bi non-coded | As/Bi non-coded |
| 173309 | H-C lamp 2.0" Cr/Zr non-coded | Cr/Zr non-coded |
| 173310 | H-C lamp 2.0" In/P non-coded | In/P non-coded |
| 173311 | H-C lamp 2.0" Sn/Te non-coded | Sn/Te non-coded |
| 173312 | H-C lamp 2.0" Cu/Pb non-coded | Cu/Pb non-coded |
| 173313 | H-C lamp 2.0" Al/Cu non-coded | Al/Cu non-coded |
| 173314 | H-C lamp 2.0" As/Ni non-coded | As/Ni non-coded |
| 173315 | H-C lamp 2.0" Ba/Mg non-coded | Ba/Mg non-coded |
| 173316 | H-C lamp 2.0" Cd/Ag non-coded | Cd/Ag non-coded |
| 173317 | H-C lamp 2.0" Ca/Cu non-coded | Ca/Cu non-coded |
| 173318 | H-C lamp 2.0" Ca/Zn non-coded | Ca/Zn non-coded |
| 173319 | H-C lamp 2.0" Cr/Co non-coded | Cr/Co non-coded |
| 173320 | H-C lamp 2.0" Cr/Fe non-coded | Cr/Fe non-coded |

Product datasheet

Ordering information (cont.)

Two element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|-------------------------------|-----------------|
| 173321 | H-C lamp 2.0" Cr/Ni non-coded | Cr/Ni non-coded |
| 173322 | H-C lamp 2.0" Co/Fe non-coded | Co/Fe non-coded |
| 173323 | H-C lamp 2.0" Co/Mo non-coded | Co/Mo non-coded |
| 173324 | H-C lamp 2.0" Co/Zn non-coded | Co/Zn non-coded |
| 173325 | H-C lamp 2.0" Cu/Fe non-coded | Cu/Fe non-coded |
| 173326 | H-C lamp 2.0" Cu/Mn non-coded | Cu/Mn non-coded |
| 173327 | H-C lamp 2.0" Cu/Zn non-coded | Cu/Zn non-coded |
| 173328 | H-C lamp 2.0" In/Ag non-coded | In/Ag non-coded |
| 173329 | H-C lamp 2.0" Fe/Ni non-coded | Fe/Ni non-coded |
| 173330 | H-C lamp 2.0" Mg/Zn non-coded | Mg/Zn non-coded |
| 173331 | H-C lamp 2.0" Al/Mg non-coded | Al/Mg non-coded |
| 173332 | H-C lamp 2.0" Al/Ti non-coded | Al/Ti non-coded |
| 173333 | H-C lamp 2.0" Bi/Sb non-coded | Bi/Sb non-coded |
| 173334 | H-C lamp 2.0" Au/Ag non-coded | Au/Ag non-coded |
| 173335 | H-C lamp 2.0" Si/Ti non-coded | Si/Ti non-coded |
| 173336 | H-C lamp 2.0" Cd/Zn non-coded | Cd/Zn non-coded |
| 173337 | H-C lamp 2.0" Na/Pb non-coded | Na/Pb non-coded |

Three element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|----------------------------------|--------------------|
| 173338 | H-C lamp 2.0" Al/Ca/Li non-coded | Al/Ca/Li non-coded |
| 173339 | H-C lamp 2.0" Al/Cu/Si non-coded | Al/Cu/Si non-coded |
| 173340 | H-C lamp 2.0" Al/Mg/Li non-coded | Al/Mg/Li non-coded |
| 173341 | H-C lamp 2.0" Ba/Ca/Sr non-coded | Ba/Ca/Sr non-coded |
| 173342 | H-C lamp 2.0" Cd/Cu/Ag non-coded | Cd/Cu/Ag non-coded |
| 173343 | H-C lamp 2.0" Ca/Mg/Zn non-coded | Ca/Mg/Zn non-coded |
| 173344 | H-C lamp 2.0" Cr/Co/Fe non-coded | Cr/Co/Fe non-coded |
| 173345 | H-C lamp 2.0" Cr/Co/Ni non-coded | Cr/Co/Ni non-coded |
| 173346 | H-C lamp 2.0" Cr/Cu/Fe non-coded | Cr/Cu/Fe non-coded |
| 173347 | H-C lamp 2.0" Cr/Cu/Ni non-coded | Cr/Cu/Ni non-coded |
| 173348 | H-C lamp 2.0" Cr/Fe/Ni non-coded | Cr/Fe/Ni non-coded |
| 173349 | H-C lamp 2.0" Cr/Mn/Zn non-coded | Cr/Mn/Zn non-coded |
| 173350 | H-C lamp 2.0" Co/Cu/Mn non-coded | Co/Cu/Mn non-coded |
| 173351 | H-C lamp 2.0" Co/Fe/Mn non-coded | Co/Fe/Mn non-coded |
| 173352 | H-C lamp 2.0" Co/Mn/Ni non-coded | Co/Mn/Ni non-coded |

Product datasheet

Ordering information (cont.)

Three element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|----------------------------------|--------------------|
| 173353 | H-C lamp 2.0" Cu/Fe/Mn non-coded | Cu/Fe/Mn non-coded |
| 173354 | H-C lamp 2.0" Cu/Fe/Ni non-coded | Cu/Fe/Ni non-coded |
| 173355 | H-C lamp 2.0" Cu/Mn/Ni non-coded | Cu/Mn/Ni non-coded |
| 173356 | H-C lamp 2.0" Cu/Ni/Zn non-coded | Cu/Ni/Zn non-coded |
| 173357 | H-C lamp 2.0" Co/Cd/Ni non-coded | Co/Cd/Ni non-coded |
| 173358 | H-C lamp 2.0" Al/Cu/Fe non-coded | Al/Cu/Fe non-coded |
| 173359 | H-C lamp 2.0" As/Sb/Bi non-coded | As/Sb/Bi non-coded |
| 173360 | H-C lamp 2.0" Cd/Cu/Ni non-coded | Cd/Cu/Ni non-coded |
| 173361 | H-C lamp 2.0" Cr/Fe/Mo non-coded | Cr/Fe/Mo non-coded |
| 173362 | H-C lamp 2.0" Co/Ni/Pt non-coded | Co/Ni/Pt non-coded |
| 173363 | H-C lamp 2.0" Pb/Ag/Zn non-coded | Pb/Ag/Zn non-coded |
| 173364 | H-C lamp 2.0" Mn/Fe/Zn non-coded | Mn/Fe/Zn non-coded |
| 173365 | H-C lamp 2.0" Al/Ca/Mg non-coded | Al/Ca/Mg non-coded |
| 173366 | H-C lamp 2.0" Al/Mg/Fe non-coded | Al/Mg/Fe non-coded |
| 173367 | H-C lamp 2.0" Ba/Ca/Mg non-coded | Ba/Ca/Mg non-coded |
| 173368 | H-C lamp 2.0" Ba/Mg/Sr non-coded | Ba/Mg/Sr non-coded |
| 173369 | H-C lamp 2.0" Cd/Cu/Zn non-coded | Cd/Cu/Zn non-coded |
| 173370 | H-C lamp 2.0" Cr/Co/Cu non-coded | Cr/Co/Cu non-coded |
| 173371 | H-C lamp 2.0" Cr/Co/Mn non-coded | Cr/Co/Mn non-coded |
| 173372 | H-C lamp 2.0" Cr/Cu/Ag non-coded | Cr/Cu/Ag non-coded |
| 173373 | H-C lamp 2.0" Cr/Cu/Mn non-coded | Cr/Cu/Mn non-coded |
| 173374 | H-C lamp 2.0" Cr/Fe/Mn non-coded | Cr/Fe/Mn non-coded |
| 173375 | H-C lamp 2.0" Cr/Mn/Ni non-coded | Cr/Mn/Ni non-coded |
| 173376 | H-C lamp 2.0" Co/Cu/Fe non-coded | Co/Cu/Fe non-coded |
| 173377 | H-C lamp 2.0" Co/Cu/Ni non-coded | Co/Cu/Ni non-coded |
| 173378 | H-C lamp 2.0" Co/Fe/Ni non-coded | Co/Fe/Ni non-coded |
| 173379 | H-C lamp 2.0" Co/Mo/Zn non-coded | Co/Mo/Zn non-coded |
| 173380 | H-C lamp 2.0" Cu/Fe/Mo non-coded | Cu/Fe/Mo non-coded |
| 173381 | H-C lamp 2.0" Cu/Fe/Zn non-coded | Cu/Fe/Zn non-coded |
| 173382 | H-C lamp 2.0" Cu/Mo/Zn non-coded | Cu/Mo/Zn non-coded |
| 173383 | H-C lamp 2.0" Cu/Pb/Zn non-coded | Cu/Pb/Zn non-coded |
| 173384 | H-C lamp 2.0" Al/Ca/Ni non-coded | Al/Ca/Ni non-coded |
| 173385 | H-C lamp 2.0" Al/Cu/Mg non-coded | Al/Cu/Mg non-coded |
| 173386 | H-C lamp 2.0" Ca/Cu/Zn non-coded | Ca/Cu/Zn non-coded |
| 173387 | H-C lamp 2.0" Al/Ca/Fe non-coded | Al/Ca/Fe non-coded |
| 173388 | H-C lamp 2.0" Co/Ni/Au non-coded | Co/Ni/Au non-coded |
| 173389 | H-C lamp 2.0" Cu/Fe/Mg non-coded | Cu/Fe/Mg non-coded |
| 173390 | H-C lamp 2.0" Cu/Pb/Sn non-coded | Cu/Pb/Sn non-coded |

Product datasheet

Ordering information (cont.)

Four element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|-------------------------------------|-----------------------|
| 173416 | H-C lamp 2.0" Al/Ca/Fe/Mg non-coded | Al/Ca/Fe/Mg non-coded |
| 173417 | H-C lamp 2.0" Ba/Ca/Mg/Sr non-coded | Ba/Ca/Mg/Sr non-coded |
| 173418 | H-C lamp 2.0" Cd/Cu/Pb/Zn non-coded | Cd/Cu/Pb/Zn non-coded |
| 173419 | H-C lamp 2.0" Cr/Ag/Cu/Ni non-coded | Cr/Ag/Cu/Ni non-coded |
| 173420 | H-C lamp 2.0" Cr/Co/Cu/Mn non-coded | Cr/Co/Cu/Mn non-coded |
| 173421 | H-C lamp 2.0" Cr/Co/Fe/Mn non-coded | Cr/Co/Fe/Mn non-coded |
| 173422 | H-C lamp 2.0" Cr/Co/Mn/Ni non-coded | Cr/Co/Mn/Ni non-coded |
| 173423 | H-C lamp 2.0" Cr/Cu/Fe/Ni non-coded | Cr/Cu/Fe/Ni non-coded |
| 173424 | H-C lamp 2.0" Cr/Fe/Mn/Ni non-coded | Cr/Fe/Mn/Ni non-coded |
| 173425 | H-C lamp 2.0" Co/Cu/Fe/Ni non-coded | Co/Cu/Fe/Ni non-coded |
| 173426 | H-C lamp 2.0" Co/Cu/Mn/Ni non-coded | Co/Cu/Mn/Ni non-coded |
| 173427 | H-C lamp 2.0" Co/Fe/Mn/Ni non-coded | Co/Fe/Mn/Ni non-coded |
| 173428 | H-C lamp 2.0" Al/Cu/Fe/Ti non-coded | Al/Cu/Fe/Ti non-coded |
| 173429 | H-C lamp 2.0" Co/Cu/Fe/Mo non-coded | Co/Cu/Fe/Mo non-coded |
| 173430 | H-C lamp 2.0" Al/Ca/Li/Mg non-coded | Al/Ca/Li/Mg non-coded |
| 173431 | H-C lamp 2.0" Cd/Ag/Cu/Zn non-coded | Cd/Ag/Cu/Zn non-coded |
| 173432 | H-C lamp 2.0" Cr/Ag/Cu/Fe non-coded | Cr/Ag/Cu/Fe non-coded |
| 173433 | H-C lamp 2.0" Cr/Co/Cu/Fe non-coded | Cr/Co/Cu/Fe non-coded |
| 173434 | H-C lamp 2.0" Cr/Co/Cu/Ni non-coded | Cr/Co/Cu/Ni non-coded |
| 173435 | H-C lamp 2.0" Cr/Co/Fe/Ni non-coded | Cr/Co/Fe/Ni non-coded |
| 173436 | H-C lamp 2.0" Cr/Cu/Fe/Mn non-coded | Cr/Cu/Fe/Mn non-coded |
| 173437 | H-C lamp 2.0" Cr/Cu/Mn/Ni non-coded | Cr/Cu/Mn/Ni non-coded |
| 173438 | H-C lamp 2.0" Co/Cu/Fe/Mn non-coded | Co/Cu/Fe/Mn non-coded |
| 173439 | H-C lamp 2.0" Co/Cu/Mn/Mo non-coded | Co/Cu/Mn/Mo non-coded |
| 173440 | H-C lamp 2.0" Co/Cu/Mo/Zn non-coded | Co/Cu/Mo/Zn non-coded |
| 173441 | H-C lamp 2.0" Cu/Fe/Mn/Zn non-coded | Cu/Fe/Mn/Zn non-coded |
| 173442 | H-C lamp 2.0" Ca/Cu/Mn/Mo non-coded | Ca/Cu/Mn/Mo non-coded |
| 173443 | H-C lamp 2.0" Cr/Cu/Fe/Zn non-coded | Cr/Cu/Fe/Zn non-coded |

Product datasheet

Ordering information (cont.)

Five element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|--|--------------------------|
| 173444 | H-C lamp 2.0" Cr/Co/Cu/Fe/Ni non-coded | Cr/Co/Cu/Fe/Ni non-coded |
| 173445 | H-C lamp 2.0" Cr/Co/Fe/Mn/Ni non-coded | Cr/Co/Fe/Mn/Ni non-coded |
| 173446 | H-C lamp 2.0" Cu/Co/Fe/Mn/Zn non-coded | Cu/Co/Fe/Mn/Zn non-coded |
| 173447 | H-C lamp 2.0" Cr/Cu/Fe/Ni/Ag non-coded | Cr/Cu/Fe/Ni/Ag non-coded |
| 173448 | H-C lamp 2.0" Cu/Fe/Pb/Ni/Zn non-coded | Cu/Fe/Pb/Ni/Zn non-coded |
| 173588 | H-C lamp 2.0" Cr/Co/Cu/Fe/Mn non-coded | Cr/Co/Cu/Fe/Mn non-coded |
| 173589 | H-C lamp 2.0" Cr/Co/Cu/Mn/Ni non-coded | Cr/Co/Cu/Mn/Ni non-coded |
| 173590 | H-C lamp 2.0" Cr/Cu/Fe/Mn/Ni non-coded | Cr/Cu/Fe/Mn/Ni non-coded |
| 173591 | H-C lamp 2.0" Cr/Cu/Fe/Mn/Zn non-coded | Cr/Cu/Fe/Mn/Zn non-coded |
| 173592 | H-C lamp 2.0" Co/Cu/Fe/Mn/Mo non-coded | Co/Cu/Fe/Mn/Mo non-coded |

Six element, 2" (51mm) diameter lamps, non-coded - Perkin Elmer

| Code | Description | Model |
|--------|--|---------------------------|
| 173449 | H-C lamp 2.0" Al/Ca/Cu/Fe/Mg/Si non-code | Al/Ca/Cu/Fe/Mg/Si non-cod |
| 173450 | H-C lamp 2.0" Al/Ca/Cu/Fe/Mg/Si/Zn n.cod | Al/Ca/Cu/Fe/Mg/Si/Zn n.co |
| 173593 | H-C lamp 2.0" Cr/Co/Cu/Fe/Mn/Ni non-code | Cr/Co/Cu/Fe/Mn/Ni non-cod |
| 173594 | H-C lamp 2.0" Cr/Co/Fe/Mn/Ni/Ti non-code | Cr/Co/Fe/Mn/Ni/Ti non-cod |