

Deuterium Lamps for HPLC Detectors and UV-Vis Spectrometers



Sooner or later, every deuterium lamp reaches the end of its useful life. Many instrument manufacturers demand extremely high prices from their users for replacement lamps. However, as only very few of these companies produce deuterium lamps themselves, they generally outsource them from well-known manufacturers such as Heraeus Noblelight or Hamamatsu.

As an official "preferred distributor" for Heraeus Noblelight products and a close partner of other companies, who fit Hamamatsu lamps with instrument-specific brackets and flanges, we are in a position to offer prealigned lamps for almost all instruments at prices well below those demanded by the instrument manufacturers. We offer our customers competent technical advice and maintain stock of many common lamps, enabling us to deliver fast.

Our databases are compiled with great care and attention. We guarantee that the listed lamps are suitable for your instruments. Should this not be the case, we will take them back and refund the full purchase price. You, our customers, are working with cutting-edge technology, so please: if you are using instrumentation that isn't listed on our website or if you need a lamp that isn't shown there, please contact us with as much information as possible. We will do our best to help you.

Heraeus Noblelight GmbH (Ger) took over Cathodeon Ltd. (GB) in 2004. A year later they purchased the American lamp manufacturer IST Spectral Technologies. The three product lines have been rationalised and, as of June 2006, the Cathodeon and IST brand names are no longer being used by the new owner. With immediate effect, lamps from

all three production facilities are being marketed and sold under the Heraeus Noblelight name.

Heraeus Noblelight Deuterium Lamps

Deuterium lamps emit an almost continuous spectrum of light ranging from the main UV wavelengths of 160 - 400 nm to the visible spectral range (800 nm). This makes them the ideal light source for high precision absorption measurements, e.g. in HPLC. Heraeus Noblelight offers a wide range of deuterium lamps: Lamps with a guaranteed lifetime of 1000 or 2000 hours, quartz or UV-glass envelopes, shine-through lamps and different sorts of special lamps, for example for very short wavelengths (vacuum UV-lamps) or especially high intensities.

TECHNICAL DATA

Lamp type:	DX	DS	UV glass
Max. noise (AU):	2×10^{-5}	2×10^{-5}	2×10^{-4}
Guaranteed lifetime (h):	2000	1000	1000
Spectral range (nm):	185-600	185-600	200-600
Aperture diameter (mm):	0.5/1.0	0.5/1.0	0.5/0.75/1.0

WARRANTY

Heraeus Noblelight offers a warranty time of 1000 hours for all DO- and DS-types, resp. 2000 hours for all DX-types. The typical life expectancy is defined as the hours at which the lamp intensity falls to 50% of its original value at 280 nm.

SEARCH FOR REPLACEMENT LAMP / ORDER INFORMATION

By clicking on the instrument manufacturer in the drop-down list on our webpage www.msscientific.de/deuterium_lamps.htm, you will see a selection of available instrument models. Once you have identified your model, further information regarding lamp type and pricing is provided.

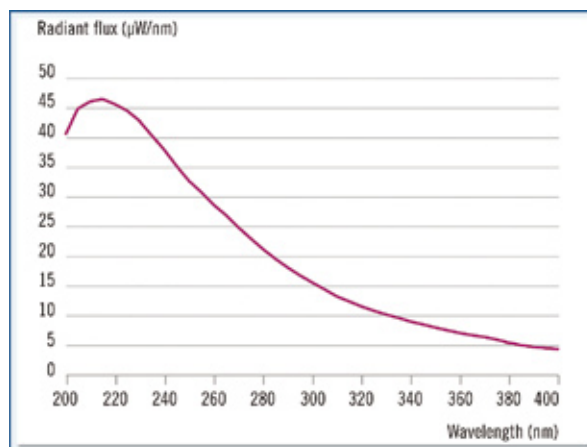


Image above: Emission spectrum of doped quartz deuterium lamp