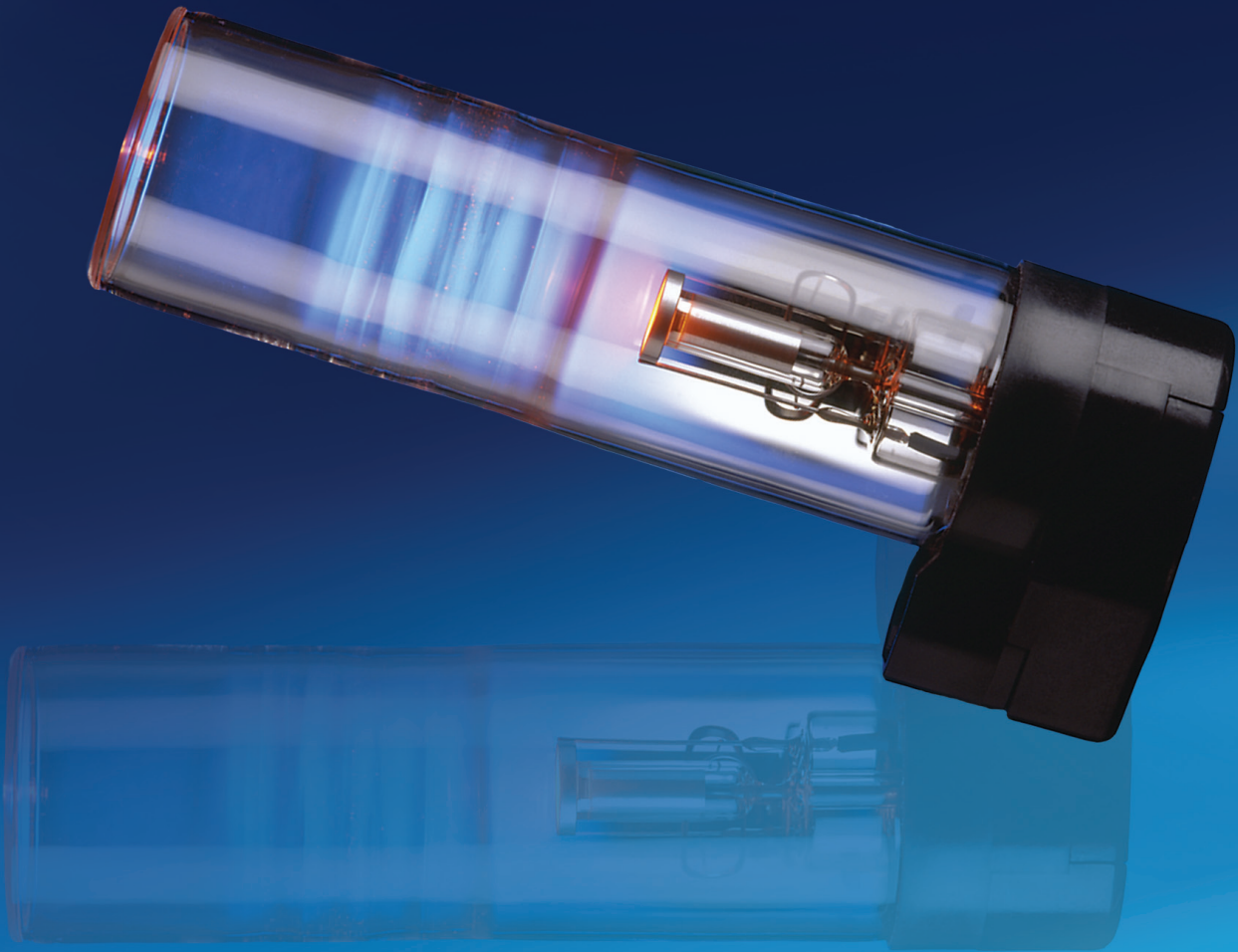


Kinesis Hollow Cathode Lamps



High Quality Hollow Cathode Lamps for all the Leading AA Instruments



kinesis-group.com

 **Kinesis**
Scientific Experts

Hollow Cathode Lamps

The Kinesis range of high performance Single Element Hollow Cathode lamps are available in 37mm (1.5") or 50mm (2") in both Coded and Uncoded versions.

- Available in 37mm (1.5") or 50mm (2")
- Coded and Uncoded available
- For direct use in AA systems manufactured by:
 - Unicam
 - Shimadzu
 - Hitachi
 - Perkin Elmer
 - Varian
 - GBC
 - Thermo
 - Analytik Jena
 - Other manufacturers are available upon request
- Includes 70 single element and more than 120 multi-element combinations
- Available with two to seven different element combinations
- Low-Current and High-Current versions for optimum performance in all OEM systems (please contact us for more information)

HOLLOW CATHODE LAMP GUARANTEE

Kinesis Hollow Cathode Lamps come with a guaranteed lifetime of 5000 mA hrs - even for elements like As or Hg.



UNICAM/THERMO

OEM PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
9423 390 20131	Aluminium	37mm Uncoded Standard	HCL-AL-37
9423 390 30131	Aluminium	37mm Unicam Coded	HCL-AL-37-U
9423 390 20511	Antimony	37mm Uncoded Standard	HCL-SB-37
9423 390 30511	Antimony	37mm Unicam Coded	HCL-SB-37-U
9423 390 26331	Arsenic	37mm Uncoded Standard	HCL-AS-37
9423 390 30331	Arsenic	37mm Unicam Coded	HCL-AS-37-U
9423 390 20561	Barium	37mm Uncoded Standard	HCL-BA-37
9423 390 30561	Barium	37mm Unicam Coded	HCL-BA-37-U
9423 390 20041	Beryllium	37mm Uncoded Standard	HCL-BE-37
9423 390 30041	Beryllium	37mm Unicam Coded	HCL-BE-37-U
9423 390 20831	Bismuth	37mm Uncoded Standard	HCL-BI-37
9423 390 30831	Bismuth	37mm Unicam Coded	HCL-BI-37-U
9423 390 20051	Boron	37mm Uncoded Standard	HCL-B-37
9423 390 30051	Boron	37mm Unicam Coded	HCL-B-37-U
9423 390 20481	Cadmium	37mm Uncoded Standard	HCL-CD-37
9423 390 30481	Cadmium	37mm Unicam Coded	HCL-CD-37-U
9423 390 20551	Caesium	37mm Uncoded Standard	HCL-CS-37
9423 390 30551	Caesium	37mm Unicam Coded	HCL-CS-37-U
9423 390 20201	Calcium	37mm Uncoded Standard	HCL-CA-37
9423 390 30201	Calcium	37mm Unicam Coded	HCL-CA-37-U
9423 390 20241	Chromium	37mm Uncoded Standard	HCL-CR-37
9423 390 30241	Chromium	37mm Unicam Coded	HCL-CR-37-U
9423 390 20271	Cobalt	37mm Uncoded Standard	HCL-CO-37
9423 390 30271	Cobalt	37mm Unicam Coded	HCL-CO-37-U
9423 390 20291	Copper	37mm Uncoded Standard	HCL-CU-37
9423 390 30291	Copper	37mm Unicam Coded	HCL-CU-37-U
9423 361 10191	Deuterium	37mm Uncoded Standard	HCL-D2-37
9423 390 20661	Dysprosium	37mm Uncoded Standard	HCL-DY-37
9423 390 30661	Dysprosium	37mm Unicam Coded	HCL-DY-37-U
9423 390 20681	Erbium	37mm Uncoded Standard	HCL-ER-37
9423 390 30681	Erbium	37mm Unicam Coded	HCL-ER-37-U
9423 390 20631	Europium	37mm Uncoded Standard	HCL-EU-37
9423 390 30631	Europium	37mm Unicam Coded	HCL-EU-37-U
9423 390 20641	Gadolinium	37mm Uncoded Standard	HCL-GD-37
9423 390 30641	Gadolinium	37mm Unicam Coded	HCL-GD-37-U
9423 390 20311	Gallium	37mm Uncoded Standard	HCL-GA-37
9423 390 30311	Gallium	37mm Unicam Coded	HCL-GA-37-U
9423 390 20321	Germanium	37mm Uncoded Standard	HCL-GE-37
9423 390 30321	Germanium	37mm Unicam Coded	HCL-GE-37-U
9423 390 20791	Gold	37mm Uncoded Standard	HCL-AU-37
9423 390 30791	Gold	37mm Unicam Coded	HCL-AU-37-U
9423 390 20721	Hafnium	37mm Uncoded Standard	HCL-HF-37
9423 390 30721	Hafnium	37mm Unicam Coded	HCL-HF-37-U
9423 390 20671	Holmium	37mm Uncoded Standard	HCL-HO-37
9423 390 30671	Holmium	37mm Unicam Coded	HCL-HO-37-U

Hollow Cathode Lamps

UNICAM/THERMO continued

OEM PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
9423 390 20491	Indium	37mm Uncoded Standard	HCL-IN-37
9423 390 30491	Indium	37mm Unicam Coded	HCL-IN-37-U
9423 390 20771	Iridium	37mm Uncoded Standard	HCL-IR-37
9423 390 30771	Iridium	37mm Unicam Coded	HCL-IR-37-U
9423 390 20261	Iron	37mm Uncoded Standard	HCL-FE-37
9423 390 30261	Iron	37mm Unicam Coded	HCL-FE-37-U
9423 390 20571	Lanthanum	37mm Uncoded Standard	HCL-LA-37
9423 390 30571	Lanthanum	37mm Unicam Coded	HCL-LA-37-U
9423 390 20821	Lead	37mm Uncoded Standard	HCL-PB-37
9423 390 30821	Lead	37mm Unicam Coded	HCL-PB-37-U
9423 390 20031	Lithium	37mm Uncoded Standard	HCL-LI-37
9423 390 30031	Lithium	37mm Unicam Coded	HCL-LI-37-U
9423 390 20711	Lutetium	37mm Uncoded Standard	HCL-LU-37
9423 390 30711	Lutetium	37mm Unicam Coded	HCL-LU-37-U
9423 390 20121	Magnesium	37mm Uncoded Standard	HCL-MG-37
9423 390 30121	Magnesium	37mm Unicam Coded	HCL-MG-37-U
9423 390 20251	Manganese	37mm Uncoded Standard	HCL-MN-37
9423 390 30251	Manganese	37mm Unicam Coded	HCL-MN-37-U
9423 390 20801	Mercury	37mm Uncoded Standard	HCL-HG-37
9423 390 30801	Mercury	37mm Unicam Coded	HCL-HG-37-U
9423 390 20421	Molybdenum	37mm Uncoded Standard	HCL-MO-37
9423 390 30421	Molybdenum	37mm Unicam Coded	HCL-MO-37-U
9423 390 20601	Neodymium	37mm Uncoded Standard	HCL-ND-37
9423 390 30601	Neodymium	37mm Unicam Coded	HCL-ND-37-U
9423 390 20281	Nickel	37mm Uncoded Standard	HCL-NI-37
9423 390 30281	Nickel	37mm Unicam Coded	HCL-NI-37-U
9423 390 20411	Niobium	37mm Uncoded Standard	HCL-NB-37
9423 390 30411	Niobium	37mm Unicam Coded	HCL-NB-37-U
9423 390 20761	Osmium	37mm Uncoded Standard	HCL-OS-37
9423 390 30761	Osmium	37mm Unicam Coded	HCL-OS-37-U
9423 390 20461	Palladium	37mm Uncoded Standard	HCL-PD-37
9423 390 30461	Palladium	37mm Unicam Coded	HCL-PD-37-U
9423 390 20151	Phosphorous	37mm Uncoded Standard	HCL-P-37
9423 390 30151	Phosphorous	37mm Unicam Coded	HCL-P-37-U
9423 390 20781	Platinum	37mm Uncoded Standard	HCL-PT-37
9423 390 30781	Platinum	37mm Unicam Coded	HCL-PT-37-U
9423 390 20191	Potassium	37mm Uncoded Standard	HCL-K-37
9423 390 30191	Potassium	37mm Unicam Coded	HCL-K-37-U
9423 390 20591	Praseodymium	37mm Uncoded Standard	HCL-PR-37
9423 390 30591	Praseodymium	37mm Unicam Coded	HCL-PR-37-U
9423 390 20751	Rhenium	37mm Uncoded Standard	HCL-RE-37
9423 390 30751	Rhenium	37mm Unicam Coded	HCL-RE-37-U
9423 390 20451	Rhodium	37mm Uncoded Standard	HCL-RH-37
9423 390 30451	Rhodium	37mm Unicam Coded	HCL-RH-37-U
9423 390 20371	Rubidium	37mm Uncoded Standard	HCL-RB-37

UNICAM/THERMO continued

OEM PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
9423 390 30371	Rubidium	37mm Unicam Coded	HCL-RB-37-U
9423 390 20441	Ruthenium	37mm Uncoded Standard	HCL-RU-37
9423 390 30441	Ruthenium	37mm Unicam Coded	HCL-RU-37-U
9423 390 20621	Samarium	37mm Uncoded Standard	HCL-SM-37
9423 390 30621	Samarium	37mm Unicam Coded	HCL-SM-37-U
9423 390 20211	Scandium	37mm Uncoded Standard	HCL-SC-37
9423 390 30211	Scandium	37mm Unicam Coded	HCL-SC-37-U
9423 390 20341	Selenium	37mm Uncoded Standard	HCL-SE-37
9423 390 30341	Selenium	37mm Unicam Coded	HCL-SE-37-U
9423 390 20141	Silicon	37mm Uncoded Standard	HCL-SI-37
9423 390 30141	Silicon	37mm Unicam Coded	HCL-SI-37-U
9423 390 20471	Silver	37mm Uncoded Standard	HCL-AG-37
9423 390 30471	Silver	37mm Unicam Coded	HCL-AG-37-U
9423 390 20111	Sodium	37mm Uncoded Standard	HCL-NA-37
9423 390 30111	Sodium	37mm Unicam Coded	HCL-NA-37-U
9423 390 20381	Strontium	37mm Uncoded Standard	HCL-SR-37
9423 390 30381	Strontium	37mm Unicam Coded	HCL-SR-37-U
9423 390 20731	Tantalum	37mm Uncoded Standard	HCL-TA-37
9423 390 30731	Tantalum	37mm Unicam Coded	HCL-TA-37-U
9423 390 20521	Tellurium	37mm Uncoded Standard	HCL-TE-37
9423 390 30521	Tellurium	37mm Unicam Coded	HCL-TE-37-U
9423 390 20651	Terbium	37mm Uncoded Standard	HCL-TB-37
9423 390 30651	Terbium	37mm Unicam Coded	HCL-TB-37-U
9423 390 20811	Thallium	37mm Uncoded Standard	HCL-TL-37
9423 390 30811	Thallium	37mm Unicam Coded	HCL-TL-37-U
9423 390 20691	Thulium	37mm Uncoded Standard	HCL-TM-37
9423 390 30691	Thulium	37mm Unicam Coded	HCL-TM-37-U
9423 390 20501	Tin	37mm Uncoded Standard	HCL-SN-37
9423 390 30501	Tin	37mm Unicam Coded	HCL-SN-37-U
9423 390 20221	Titanium	37mm Uncoded Standard	HCL-TI-37
9423 390 30221	Titanium	37mm Unicam Coded	HCL-TI-37-U
9423 390 20741	Tungsten	37mm Uncoded Standard	HCL-W-37
9423 390 30741	Tungsten	37mm Unicam Coded	HCL-W-37-U
9423 390 20231	Vanadium	37mm Uncoded Standard	HCL-V-37
9423 390 30231	Vanadium	37mm Unicam Coded	HCL-V-37-U
9423 390 20701	Ytterbium	37mm Uncoded Standard	HCL-YB-37
9423 390 30701	Ytterbium	37mm Unicam Coded	HCL-YB-37-U
9423 390 20391	Yttrium	37mm Uncoded Standard	HCL-Y-37
9423 390 30391	Yttrium	37mm Unicam Coded	HCL-Y-37-U
9423 390 20301	Zinc	37mm Uncoded Standard	HCL-ZN-37
9423 390 30301	Zinc	37mm Unicam Coded	HCL-ZN-37-U
9423 390 20401	Zirconium	37mm Uncoded Standard	HCL-ZR-37
9423 390 30401	Zirconium	37mm Unicam Coded	HCL-ZR-37-U

Hollow Cathode Lamps

VARIAN/AGILENT

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
56-101001-00	Aluminium	37mm Varian Coded	HCL-AL-37-V
56-101220-00	Aluminium	37mm Uncoded Standard	HCL-AL-37
56-101002-00	Antimony	37mm Varian Coded	HCL-SB-37-V
56-101221-00	Antimony	37mm Uncoded Standard	HCL-SB-37
56-101003-00	Arsenic	37mm Varian Coded	HCL-AS-37-V
56-101222-00	Arsenic	37mm Uncoded Standard	HCL-AS-37
56-101004-00	Barium	37mm Varian Coded	HCL-BA-37-V
56-101223-00	Barium	37mm Uncoded Standard	HCL-BA-37
56-101005-00	Beryllium	37mm Varian Coded	HCL-BE-37-V
56-101224-00	Beryllium	37mm Uncoded Standard	HCL-BE-37
56-101006-00	Bismuth	37mm Varian Coded	HCL-BI-37-V
56-101225-00	Bismuth	37mm Uncoded Standard	HCL-BI-37
56-101007-00	Boron	37mm Varian Coded	HCL-B-37-V
56-101226-00	Boron	37mm Uncoded Standard	HCL-B-37
56-101008-00	Cadmium	37mm Varian Coded	HCL-CD-37-V
56-101227-00	Cadmium	37mm Uncoded Standard	HCL-CD-37
56-101009-00	Caesium	37mm Varian Coded	HCL-CS-37-V
56-101228-00	Caesium	37mm Uncoded Standard	HCL-CS-37
56-101010-00	Calcium	37mm Varian Coded	HCL-CA-37-V
56-101229-00	Calcium	37mm Uncoded Standard	HCL-CA-37
56-101011-00	Cerium	37mm Varian Coded	HCL-CE-37-V
56-101230-00	Cerium	37mm Uncoded Standard	HCL-CE-37
56-101012-00	Chromium	37mm Varian Coded	HCL-CR-37-V
56-101231-00	Chromium	37mm Uncoded Standard	HCL-CR-37
56-101013-00	Cobalt	37mm Varian Coded	HCL-CO-37-V
56-101232-00	Cobalt	37mm Uncoded Standard	HCL-CO-37
56-101014-00	Copper	37mm Varian Coded	HCL-CU-37-V
56-101233-00	Copper	37mm Uncoded Standard	HCL-CU-37
56-101243-00	Deuterium	37mm Uncoded Standard	HCL-D2-37
56-101015-00	Dysprosium	37mm Varian Coded	HCL-DY-37-V
56-101234-00	Dysprosium	37mm Uncoded Standard	HCL-DY-37
56-101016-00	Erbium	37mm Varian Coded	HCL-ER-37-V
56-101235-00	Erbium	37mm Uncoded Standard	HCL-ER-37
56-101017-00	Europium	37mm Varian Coded	HCL-EU-37-V
56-101236-00	Europium	37mm Uncoded Standard	HCL-EU-37
56-101018-00	Gadolinium	37mm Varian Coded	HCL-GD-37-V
56-101237-00	Gadolinium	37mm Uncoded Standard	HCL-GD-37
56-101019-00	Gallium	37mm Varian Coded	HCL-GA-37-V
56-101238-00	Gallium	37mm Uncoded Standard	HCL-GA-37
56-101020-00	Germanium	37mm Varian Coded	HCL-GE-37-V
56-101239-00	Germanium	37mm Uncoded Standard	HCL-GE-37
56-101021-00	Gold	37mm Varian Coded	HCL-AU-37-V
56-101240-00	Gold	37mm Uncoded Standard	HCL-AU-37
56-101022-00	Hafnium	37mm Varian Coded	HCL-HF-37-V
56-101241-00	Hafnium	37mm Uncoded Standard	HCL-HF-37

VARIAN/AGILENT continued

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
56-101023-00	Holmium	37mm Varian Coded	HCL-HO-37-V
56-101242-00	Holmium	37mm Uncoded Standard	HCL-HO-37
56-101025-00	Indium	37mm Varian Coded	HCL-IN-37-V
56-101244-00	Indium	37mm Uncoded Standard	HCL-IN-37
56-101026-00	Iridium	37mm Varian Coded	HCL-IR-37-V
56-101245-00	Iridium	37mm Uncoded Standard	HCL-IR-37
56-101027-00	Iron	37mm Varian Coded	HCL-FE-37-V
56-101246-00	Iron	37mm Uncoded Standard	HCL-FE-37
56-101028-00	Lanthanum	37mm Varian Coded	HCL-LA-37-V
56-101247-00	Lanthanum	37mm Uncoded Standard	HCL-LA-37
56-101029-00	Lead	37mm Varian Coded	HCL-PB-37-V
56-101248-00	Lead	37mm Uncoded Standard	HCL-PB-37
56-101030-00	Lithium	37mm Varian Coded	HCL-LI-37-V
56-101249-00	Lithium	37mm Uncoded Standard	HCL-LI-37
56-101031-00	Lutetium	37mm Varian Coded	HCL-LU-37-V
56-101250-00	Lutetium	37mm Uncoded Standard	HCL-LU-37
56-101032-00	Magnesium	37mm Varian Coded	HCL-MG-37-V
56-101251-00	Magnesium	37mm Uncoded Standard	HCL-MG-37
56-101033-00	Manganese	37mm Varian Coded	HCL-MN-37-V
56-101252-00	Manganese	37mm Uncoded Standard	HCL-MN-37
56-101034-00	Mercury	37mm Varian Coded	HCL-HG-37-V
56-101253-00	Mercury	37mm Uncoded Standard	HCL-HG-37
56-101035-00	Molybdenum	37mm Varian Coded	HCL-MO-37-V
56-101254-00	Molybdenum	37mm Uncoded Standard	HCL-MO-37
56-101036-00	Neodymium	37mm Varian Coded	HCL-ND-37-V
56-101255-00	Neodymium	37mm Uncoded Standard	HCL-ND-37
56-101037-00	Nickel	37mm Varian Coded	HCL-NI-37-V
56-101256-00	Nickel	37mm Uncoded Standard	HCL-NI-37
56-101038-00	Niobium	37mm Varian Coded	HCL-NB-37-V
56-101257-00	Niobium	37mm Uncoded Standard	HCL-NB-37
56-101039-00	Osmium	37mm Varian Coded	HCL-OS-37-V
56-101258-00	Osmium	37mm Uncoded Standard	HCL-OS-37
56-101040-00	Palladium	37mm Varian Coded	HCL-PD-37-V
56-101259-00	Palladium	37mm Uncoded Standard	HCL-PD-37
56-101077-00	Phosphorous	37mm Varian Coded	HCL-P-37-V
56-101260-00	Phosphorous	37mm Uncoded Standard	HCL-P-37
56-101041-00	Platinum	37mm Varian Coded	HCL-PT-37-V
56-101261-00	Platinum	37mm Uncoded Standard	HCL-PT-37
56-101042-00	Potassium	37mm Varian Coded	HCL-K-37-V
56-101262-00	Potassium	37mm Uncoded Standard	HCL-K-37
56-101043-00	Praseodymium	37mm Varian Coded	HCL-PR-37-V
56-101263-00	Praseodymium	37mm Uncoded Standard	HCL-PR-37
56-101044-00	Rhenium	37mm Varian Coded	HCL-RE-37-V
56-101264-00	Rhenium	37mm Uncoded Standard	HCL-RE-37
56-101045-00	Rhodium	37mm Varian Coded	HCL-RH-37-V

Hollow Cathode Lamps

VARIAN/AGILENT continued

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
56-101265-00	Rhodium	37mm Uncoded Standard	HCL-RH-37
56-101046-00	Rubidium	37mm Varian Coded	HCL-RB-37-V
56-101266-00	Rubidium	37mm Uncoded Standard	HCL-RB-37
56-101047-00	Ruthenium	37mm Varian Coded	HCL-RU-37-V
56-101267-00	Ruthenium	37mm Uncoded Standard	HCL-RU-37
56-101048-00	Samarium	37mm Varian Coded	HCL-SM-37-V
56-101268-00	Samarium	37mm Uncoded Standard	HCL-SM-37
56-101049-00	Scandium	37mm Varian Coded	HCL-SC-37-V
56-101269-00	Scandium	37mm Uncoded Standard	HCL-SC-37
56-101050-00	Selenium	37mm Varian Coded	HCL-SE-37-V
56-101270-00	Selenium	37mm Uncoded Standard	HCL-SE-37
56-101051-00	Silicon	37mm Varian Coded	HCL-SI-37-V
56-101271-00	Silicon	37mm Uncoded Standard	HCL-SI-37
56-101052-00	Silver	37mm Varian Coded	HCL-AG-37-V
56-101272-00	Silver	37mm Uncoded Standard	HCL-AG-37
56-101053-00	Sodium	37mm Varian Coded	HCL-NA-37-V
56-101273-00	Sodium	37mm Uncoded Standard	HCL-NA-37
56-101054-00	Strontium	37mm Varian Coded	HCL-SR-37-V
56-101274-00	Strontium	37mm Uncoded Standard	HCL-SR-37
56-101055-00	Tantalum	37mm Varian Coded	HCL-TA-37-V
56-101275-00	Tantalum	37mm Uncoded Standard	HCL-TA-37
56-101056-00	Tellurium	37mm Varian Coded	HCL-TE-37-V
56-101276-00	Tellurium	37mm Uncoded Standard	HCL-TE-37
56-101057-00	Terbium	37mm Varian Coded	HCL-TB-37-V
56-101277-00	Terbium	37mm Uncoded Standard	HCL-TB-37
56-101058-00	Thallium	37mm Varian Coded	HCL-TL-37-V
56-101278-00	Thallium	37mm Uncoded Standard	HCL-TL-37
56-101060-00	Thulium	37mm Varian Coded	HCL-TM-37-V
56-101280-00	Thulium	37mm Uncoded Standard	HCL-TM-37
56-101061-00	Tin	37mm Varian Coded	HCL-SN-37-V
56-101281-00	Tin	37mm Uncoded Standard	HCL-SN-37
56-101062-00	Titanium	37mm Varian Coded	HCL-TI-37-V
56-101282-00	Titanium	37mm Uncoded Standard	HCL-TI-37
56-101063-00	Tungsten	37mm Varian Coded	HCL-W-37-V
56-101283-00	Tungsten	37mm Uncoded Standard	HCL-W-37
56-101065-00	Vanadium	37mm Varian Coded	HCL-V-37-V
56-101285-00	Vanadium	37mm Uncoded Standard	HCL-V-37
56-101066-00	Ytterbium	37mm Varian Coded	HCL-YB-37-V
56-101286-00	Ytterbium	37mm Uncoded Standard	HCL-YB-37
56-101067-00	Yttrium	37mm Varian Coded	HCL-Y-37-V
56-101287-00	Yttrium	37mm Uncoded Standard	HCL-Y-37
56-101068-00	Zinc	37mm Varian Coded	HCL-ZN-37-V
56-101288-00	Zinc	37mm Uncoded Standard	HCL-ZN-37
56-101069-00	Zirconium	37mm Varian Coded	HCL-ZR-37-V
56-101289-00	Zirconium	37mm Uncoded Standard	HCL-ZR-37

SHIMADZU

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
200-38422-01	Aluminium	37mm Uncoded Standard	HCL-AL-37
200-38456-02	Aluminium	37mm Self Reversal	HCL-AL-37-SR
200-38422-24	Antimony	37mm Uncoded Standard	HCL-SB-37
200-38456-44	Antimony	37mm Self Reversal	HCL-SB-37-SR
200-38422-42	Arsenic	37mm Uncoded Standard	HCL-AS-37
200-38456-03	Arsenic	37mm Self Reversal	HCL-AS-37-SR
200-38422-03	Barium	37mm Uncoded Standard	HCL-BA-37
200-38456-06	Barium	37mm Self Reversal	HCL-BA-37-SR
200-38422-04	Beryllium	37mm Uncoded Standard	HCL-BE-37
200-38422-43	Bismuth	37mm Uncoded Standard	HCL-BI-37
200-38456-08	Bismuth	37mm Self Reversal	HCL-BI-37-SR
200-38422-39	Boron	37mm Uncoded Standard	HCL-B-37
200-38422-06	Cadmium	37mm Uncoded Standard	HCL-CD-37
200-38456-10	Cadmium	37mm Self Reversal	HCL-CD-37-SR
200-38422-27	Caesium	37mm Uncoded Standard	HCL-CS-37
200-38422-05	Calcium	37mm Uncoded Standard	HCL-CA-37
200-38456-09	Calcium	37mm Self Reversal	HCL-CS-37-SR
200-38422-07	Chromium	37mm Uncoded Standard	HCL-CR-37
200-38456-12	Chromium	37mm Self Reversal	HCL-CE-37-SR
200-38422-09	Cobalt	37mm Uncoded Standard	HCL-CO-37
200-38456-11	Cobalt	37mm Self Reversal	HCL-CO-37-SR
200-38422-08	Copper	37mm Uncoded Standard	HCL-CU-37
200-38456-14	Copper	37mm Self Reversal	HCL-CU-37-SR
200-38422-60	Dysprosium	37mm Uncoded Standard	HCL-DY-37
200-38422-61	Erbium	37mm Uncoded Standard	HCL-ER-37
200-38422-62	Europium	37mm Uncoded Standard	HCL-EU-37
200-38422-63	Gadolinium	37mm Uncoded Standard	HCL-GD-37
200-38422-40	Gallium	37mm Uncoded Standard	HCL-GA-37
200-38422-11	Germanium	37mm Uncoded Standard	HCL-GE-37
200-38422-25	Gold	37mm Uncoded Standard	HCL-AU-37
200-38456-04	Gold	37mm Self Reversal	HCL-AU-37-SR
200-38422-64	Hafnium	37mm Uncoded Standard	HCL-HF-37
200-38422-65	Holmium	37mm Uncoded Standard	HCL-HO-37
200-38422-48	Indium	37mm Uncoded Standard	HCL-IN-37
200-38422-66	Iridium	37mm Uncoded Standard	HCL-IR-37
200-38422-10	Iron	37mm Uncoded Standard	HCL-FE-37
200-38456-18	Iron	37mm Self Reversal	HCL-FE-37-SR
200-38422-29	Lanthanum	37mm Uncoded Standard	HCL-LA-37
200-38456-27	Lanthanum	37mm Self Reversal	HCL-LA-37-SR
200-38422-21	Lead	37mm Uncoded Standard	HCL-PB-37
200-38456-37	Lead	37mm Self Reversal	HCL-PB-37-SR
200-38422-30	Lithium	37mm Uncoded Standard	HCL-LI-37
200-38456-28	Lithium	37mm Self Reversal	HCL-LI-37-SR
200-38422-67	Lutetium	37mm Uncoded Standard	HCL-LU-37
200-38422-12	Magnesium	37mm Uncoded Standard	HCL-MG-37

Hollow Cathode Lamps

SHIMADZU continued

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
200-38456-30	Magnesium	37mm Self Reversal	HCL-MG-37-SR
200-38422-13	Manganese	37mm Uncoded Standard	HCL-MN-37
200-38456-31	Manganese	37mm Self Reversal	HCL-MN-37-SR
200-38422-28	Mercury	37mm Uncoded Standard	HCL-HG-37
200-38422-31	Molybdenum	37mm Uncoded Standard	HCL-MO-37
200-38456-36	Molybdenum	37mm Self Reversal	HCL-MO-37-SR
200-38422-68	Neodymium	37mm Uncoded Standard	HCL-ND-37
200-38422-15	Nickel	37mm Uncoded Standard	HCL-NI-37
200-38456-35	Nickel	37mm Self Reversal	HCL-NI-37-SR
200-38422-32	Niobium	37mm Uncoded Standard	HCL-NB-37
200-38422-69	Osmium	37mm Uncoded Standard	HCL-OS-37
200-38422-41	Palladium	37mm Uncoded Standard	HCL-PD-37
200-38422-80	Phosphorous	37mm Uncoded Standard	HCL-P-37
200-38422-20	Platinum	37mm Uncoded Standard	HCL-PT-37
200-38422-22	Potassium	37mm Uncoded Standard	HCL-K-37
200-38456-28	Potassium	37mm Self Reversal	HCL-K-37-SR
200-38422-70	Praseodymium	37mm Uncoded Standard	HCL-PR-37
200-38422-44	Rhenium	37mm Uncoded Standard	HCL-RE-37
200-38422-49	Rhodium	37mm Uncoded Standard	HCL-RH-37
200-38422-33	Rubidium	37mm Uncoded Standard	HCL-RB-37
200-38422-45	Ruthenium	37mm Uncoded Standard	HCL-RU-37
200-38422-72	Samarium	37mm Uncoded Standard	HCL-SM-37
200-38422-71	Scandium	37mm Uncoded Standard	HCL-SC-37
200-38422-46	Selenium	37mm Uncoded Standard	HCL-SE-37
200-38456-46	Selenium	37mm Self Reversal	HCL-SE-37-SR
200-38422-16	Silicon	37mm Uncoded Standard	HCL-SI-37
200-38456-47	Silicon	37mm Self Reversal	HCL-SI-37-SR
200-38422-02	Silver	37mm Uncoded Standard	HCL-AG-37
200-38456-01	Silver	37mm Self Reversal	HCL-AG-37-SR
200-38422-14	Sodium	37mm Uncoded Standard	HCL-NA-37
200-38456-33	Sodium	37mm Self Reversal	HCL-NA-37-SR
200-38422-34	Strontium	37mm Uncoded Standard	HCL-SR-37
200-38456-50	Strontium	37mm Self Reversal	HCL-SR-37-SR
200-38422-35	Tantalum	37mm Uncoded Standard	HCL-TA-37
200-38422-47	Tellurium	37mm Uncoded Standard	HCL-TE-37
200-38422-73	Terbium	37mm Uncoded Standard	HCL-TB-37
200-38422-74	Thallium	37mm Uncoded Standard	HCL-TL-37
200-38422-75	Thulium	37mm Uncoded Standard	HCL-TM-37
200-38422-18	Tin	37mm Uncoded Standard	HCL-SN-37
200-38456-49	Tin	37mm Self Reversal	HCL-SN-37-SR
200-38422-17	Titanium	37mm Uncoded Standard	HCL-TI-37
200-38456-54	Titanium	37mm Self Reversal	HCL-TI-37-SR
200-38422-36	Tungsten	37mm Uncoded Standard	HCL-W-37
200-38422-19	Vanadium	37mm Uncoded Standard	HCL-V-37
200-38456-56	Vanadium	37mm Self Reversal	HCL-V-37-SR

SHIMADZU continued

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
200-38422-77	Ytterbium	37mm Uncoded Standard	HCL-YB-37
200-38422-76	Yttrium	37mm Uncoded Standard	HCL-Y-37
200-38422-23	Zinc	37mm Uncoded Standard	HCL-ZN-37
200-38456-60	Zinc	37mm Self Reversal	HCL-ZN-37-SR
200-38422-37	Zirconium	37mm Uncoded Standard	HCL-ZR-37

Hollow Cathode Lamps

PERKIN ELMER

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
0303-6009	Aluminium	50mm Uncoded Standard	HCL-AL-50
N3050103	Aluminium	50mm Coded Lumina	HCL-AL-50-A
0303-6010	Antimony	50mm Uncoded Standard	HCL-SB-50
N3050170	Antimony	50mm Coded Lumina	HCL-SB-50-A
0303-6011	Arsenic	50mm Uncoded Standard	HCL-AS-50
N3050105	Arsenic	50mm Coded Lumina	HCL-AS-50-A
0303-6012	Barium	50mm Uncoded Standard	HCL-BA-50
N3050109	Barium	50mm Coded Lumina	HCL-BA-50-A
0303-6013	Beryllium	50mm Uncoded Standard	HCL-BE-50
N3050110	Beryllium	50mm Coded Lumina	HCL-BE-50-A
0303-6014	Bismuth	50mm Uncoded Standard	HCL-BI-50
N3050111	Bismuth	50mm Coded Lumina	HCL-BI-50-A
0303-6015	Boron	50mm Uncoded Standard	HCL-B-50
N3050108	Boron	50mm Coded Lumina	HCL-B-50-A
0303-6016	Cadmium	50mm Uncoded Standard	HCL-CD-50
N3050115	Cadmium	50mm Coded Lumina	HCL-CD-50-A
	Caesium	50mm Uncoded Standard	HCL-CA-50
0303-6017	Calcium	50mm Uncoded Standard	HCL-CA-50-A
N3050114	Calcium	50mm Coded Lumina	HCL-CS-50
0303-6021	Chromium	50mm Uncoded Standard	HCL-CR-50
N3050119	Chromium	50mm Coded Lumina	HCL-CR-50-A
0303-6022	Cobalt	50mm Uncoded Standard	HCL-CO-50
N3050118	Cobalt	50mm Coded Lumina	HCL-CO-50-A
0303-6024	Copper	50mm Uncoded Standard	HCL-CU-50
N3050121	Copper	50mm Coded Lumina	HCL-CU-50-A
0303-6025	Dysprosium	50mm Uncoded Standard	HCL-DY-50
N3050122	Dysprosium	50mm Coded Lumina	HCL-DY-50-A
0303-6026	Erbium	50mm Uncoded Standard	HCL-ER-50
N3050123	Erbium	50mm Coded Lumina	HCL-ER-50-A
0303-6027	Europium	50mm Uncoded Standard	HCL-EU-50
N3050124	Europium	50mm Coded Lumina	HCL-EU-50-A
0303-6028	Gadolinium	50mm Uncoded Standard	HCL-GD-50
N3050129	Gadolinium	50mm Coded Lumina	HCL-GD-50-A
0303-6029	Gallium	50mm Uncoded Standard	HCL-GA-50
N3050128	Gallium	50mm Coded Lumina	HCL-GA-50-A
0303-6030	Germanium	50mm Uncoded Standard	HCL-GE-50
N3050130	Germanium	50mm Coded Lumina	HCL-GE-50-A
0303-6031	Gold	50mm Uncoded Standard	HCL-AU-50
N3050107	Gold	50mm Coded Lumina	HCL-AU-50-A
0303-6032	Hafnium	50mm Uncoded Standard	HCL-HF-50
N3050133	Hafnium	50mm Coded Lumina	HCL-HF-50-A
0303-6033	Holmium	50mm Uncoded Standard	HCL-HO-50
N3050135	Holmium	50mm Coded Lumina	HCL-HO-50-A
0303-6034	Indium	50mm Uncoded Standard	HCL-IN-50
N3050137	Indium	50mm Coded Lumina	HCL-IN-50-A

PERKIN ELMER continued

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
0303-6036	Iridium	50mm Uncoded Standard	HCL-IR-50
N3050138	Iridium	50mm Coded Lumina	HCL-IR-50-A
0303-6037	Iron	50mm Uncoded Standard	HCL-FE-50
N3050126	Iron	50mm Coded Lumina	HCL-FE-50-A
0303-6038	Lanthanum	50mm Uncoded Standard	HCL-LA-50
N3050141	Lanthanum	50mm Coded Lumina	HCL-LA-50-A
0303-6039	Lead	50mm Uncoded Standard	HCL-PB-50
N3050157	Lead	50mm Coded Lumina	HCL-PB-50-A
0303-6040	Lithium	50mm Uncoded Standard	HCL-LI-50
N3050142	Lithium	50mm Coded Lumina	HCL-LI-50-A
	Lutetium	50mm Uncoded Standard	HCL-LU-50
0303-6042	Magnesium	50mm Uncoded Standard	HCL-MG-50
N3050144	Magnesium	50mm Coded Lumina	HCL-MG-50-A
0303-6043	Manganese	50mm Uncoded Standard	HCL-MN-50
N3050145	Manganese	50mm Coded Lumina	HCL-MN-50-A
0303-6044	Mercury	50mm Uncoded Standard	HCL-HG-50
N3050134	Mercury	50mm Coded Lumina	HCL-HG-50-A
0303-6045	Molybdenum	50mm Uncoded Standard	HCL-MO-50
N3050146	Molybdenum	50mm Coded Lumina	HCL-MO-50-A
0303-6046	Neodymium	50mm Uncoded Standard	HCL-ND-50
N3050150	Neodymium	50mm Coded Lumina	HCL-ND-50-A
0303-6047	Nickel	50mm Uncoded Standard	HCL-NI-50
N3050152	Nickel	50mm Coded Lumina	HCL-NI-50-A
0303-6023	Niobium	50mm Uncoded Standard	HCL-NB-50
N3050150	Niobium	50mm Coded Lumina	HCL-NB-50-A
	Osmium	50mm Uncoded Standard	HCL-OS-50
0303-6049	Palladium	50mm Uncoded Standard	HCL-PD-50
N3050158	Palladium	50mm Coded Lumina	HCL-PD-50-A
0303-6050	Phosphorous	50mm Uncoded Standard	HCL-P-50
N3050155	Phosphorous	50mm Coded Lumina	HCL-P-50-A
0303-6051	Platinum	50mm Uncoded Standard	HCL-PT-50
N3050162	Platinum	50mm Coded Lumina	HCL-PT-50-A
0303-6052	Potassium	50mm Uncoded Standard	HCL-K-50
N3050139	Potassium	50mm Coded Lumina	HCL-K-50-A
0303-6053	Praseodymium	50mm Uncoded Standard	HCL-PR-50
N3050161	Praseodymium	50mm Coded Lumina	HCL-PR-50-A
0303-6056	Rhenium	50mm Uncoded Standard	HCL-RE-50
N3050165	Rhenium	50mm Coded Lumina	HCL-RE-50-A
0303-6057	Rhodium	50mm Uncoded Standard	HCL-RH-50
N3050166	Rhodium	50mm Coded Lumina	HCL-RH-50-A
	Rubidium	50mm Uncoded Standard	HCL-RB-50
0303-6059	Ruthenium	50mm Uncoded Standard	HCL-RU-50
N3050168	Ruthenium	50mm Coded Lumina	HCL-RU-50-A
0303-6060	Samarium	50mm Uncoded Standard	HCL-SM-50
N3050174	Samarium	50mm Coded Lumina	HCL-SM-50-A

Hollow Cathode Lamps

PERKIN ELMER continued

PART NUMBER	ELEMENT	DESCRIPTION	KINESIS PART NUMBER
0303-6061	Scandium	50mm Uncoded Standard	HCL-SC-50
N3050171	Scandium	50mm Coded Lumina	HCL-SC-50-A
0303-6062	Selenium	50mm Uncoded Standard	HCL-SE-50
N3050172	Selenium	50mm Coded Lumina	HCL-SE-50-A
0303-6063	Silicon	50mm Uncoded Standard	HCL-SI-50
N3050173	Silicon	50mm Coded Lumina	HCL-SI-50-A
0303-6064	Silver	50mm Uncoded Standard	HCL-AG-50
N3050102	Silver	50mm Coded Lumina	HCL-AG-50-A
0303-6065	Sodium	50mm Uncoded Standard	HCL-NA-50
N3050148	Sodium	50mm Coded Lumina	HCL-NA-50-A
0303-6066	Strontium	50mm Uncoded Standard	HCL-SR-50
N3050176	Strontium	50mm Coded Lumina	HCL-SR-50-A
0303-6068	Tantalum	50mm Uncoded Standard	HCL-TA-50
N3050177	Tantalum	50mm Coded Lumina	HCL-TA-50-A
0303-6069	Tellurium	50mm Uncoded Standard	HCL-TE-50
N3050180	Tellurium	50mm Coded Lumina	HCL-TE-50-A
0303-6070	Terbium	50mm Uncoded Standard	HCL-TB-50
N3050178	Terbium	50mm Coded Lumina	HCL-TB-50-A
0303-6071	Thallium	50mm Uncoded Standard	HCL-TL-50
N3050183	Thallium	50mm Coded Lumina	HCL-TL-50-A
0303-6073	Thulium	50mm Uncoded Standard	HCL-TM-50
N3050184	Thulium	50mm Coded Lumina	HCL-TM-50-A
0303-6074	Tin	50mm Uncoded Standard	HCL-SN-50
N3050175	Tin	50mm Coded Lumina	HCL-SN-50-A
0303-6075	Titanium	50mm Uncoded Standard	HCL-TI-50
N3050182	Titanium	50mm Coded Lumina	HCL-TI-50-A
0303-6076	Tungsten	50mm Uncoded Standard	HCL-W-50
N3050187	Tungsten	50mm Coded Lumina	HCL-W-50-A
0303-6078	Vanadium	50mm Uncoded Standard	HCL-V-50
N3050186	Vanadium	50mm Coded Lumina	HCL-V-50-A
0303-6079	Ytterbium	50mm Uncoded Standard	HCL-YB-50
N3050190	Ytterbium	50mm Coded Lumina	HCL-YB-50-A
0303-6080	Yttrium	50mm Uncoded Standard	HCL-Y-50
N3050189	Yttrium	50mm Coded Lumina	HCL-Y-50-A
0303-6081	Zinc	50mm Uncoded Standard	HCL-ZN-50
N3050191	Zinc	50mm Coded Lumina	HCL-ZN-50-A
0303-6082	Zirconium	50mm Uncoded Standard	HCL-ZR-50
N3050192	Zirconium	50mm Coded Lumina	HCL-ZR-50-A

ALL OTHER INSTRUMENTS

ELEMENT	DESCRIPTION	KINESIS PART NUMBER
Aluminium	37mm Uncoded Standard	HCL-AL-37
Antimony	37mm Uncoded Standard	HCL-SB-37
Arsenic	37mm Uncoded Standard	HCL-AS-37
Barium	37mm Uncoded Standard	HCL-BA-37
Beryllium	37mm Uncoded Standard	HCL-BE-37
Bismuth	37mm Uncoded Standard	HCL-BI-37
Boron	37mm Uncoded Standard	HCL-B-37
Cadmium	37mm Uncoded Standard	HCL-CD-37
Caesium	37mm Uncoded Standard	HCL-CS-37
Calcium	37mm Uncoded Standard	HCL-CA-37
Cerium	37mm Uncoded Standard	HCL-CE-37
Chromium	37mm Uncoded Standard	HCL-CR-37
Cobalt	37mm Uncoded Standard	HCL-CO-37
Copper	37mm Uncoded Standard	HCL-CU-37
Deuterium	37mm Uncoded Standard	HCL-D2-37
Dysprosium	37mm Uncoded Standard	HCL-DY-37
Erbium	37mm Uncoded Standard	HCL-ER-37
Europium	37mm Uncoded Standard	HCL-EU-37
Gadolinium	37mm Uncoded Standard	HCL-GD-37
Gallium	37mm Uncoded Standard	HCL-GA-37
Germanium	37mm Uncoded Standard	HCL-GE-37
Gold	37mm Uncoded Standard	HCL-AU-37
Hafnium	37mm Uncoded Standard	HCL-HF-37
Holmium	37mm Uncoded Standard	HCL-HO-37
Indium	37mm Uncoded Standard	HCL-IN-37
Iridium	37mm Uncoded Standard	HCL-IR-37
Iron	37mm Uncoded Standard	HCL-FE-37
Lanthanum	37mm Uncoded Standard	HCL-LA-37
Lead	37mm Uncoded Standard	HCL-PB-37
Lithium	37mm Uncoded Standard	HCL-LI-37
Lutetium	37mm Uncoded Standard	HCL-LU-37
Magnesium	37mm Uncoded Standard	HCL-MG-37
Manganese	37mm Uncoded Standard	HCL-MN-37
Mercury	37mm Uncoded Standard	HCL-HG-37
Molybdenum	37mm Uncoded Standard	HCL-MO-37
Neodymium	37mm Uncoded Standard	HCL-ND-37
Nickel	37mm Uncoded Standard	HCL-NI-37
Niobium	37mm Uncoded Standard	HCL-NB-37
Osmium	37mm Uncoded Standard	HCL-OS-37
Palladium	37mm Uncoded Standard	HCL-PD-37
Phosphorous	37mm Uncoded Standard	HCL-P-37
Platinum	37mm Uncoded Standard	HCL-PT-37
Potassium	37mm Uncoded Standard	HCL-K-37
Praseodymium	37mm Uncoded Standard	HCL-PR-37
Rhenium	37mm Uncoded Standard	HCL-RE-37

Hollow Cathode Lamps

ALL OTHER INSTRUMENTS *continued*

ELEMENT	DESCRIPTION	KINESIS PART NUMBER
Rhodium	37mm Uncoded Standard	HCL-RH-37
Rubidium	37mm Uncoded Standard	HCL-RB-37
Ruthenium	37mm Uncoded Standard	HCL-RU-37
Samarium	37mm Uncoded Standard	HCL-SM-37
Scandium	37mm Uncoded Standard	HCL-SC-37
Selenium	37mm Uncoded Standard	HCL-SE-37
Silicon	37mm Uncoded Standard	HCL-SI-37
Silver	37mm Uncoded Standard	HCL-AG-37
Sodium	37mm Uncoded Standard	HCL-NA-37
Strontium	37mm Uncoded Standard	HCL-SR-37
Tantalum	37mm Uncoded Standard	HCL-TA-37
Tellurium	37mm Uncoded Standard	HCL-TE-37
Terbium	37mm Uncoded Standard	HCL-TB-37
Thallium	37mm Uncoded Standard	HCL-TL-37
Thulium	37mm Uncoded Standard	HCL-TM-37
Tin	37mm Uncoded Standard	HCL-SN-37
Titanium	37mm Uncoded Standard	HCL-TI-37
Tungsten	37mm Uncoded Standard	HCL-W-37
Vanadium	37mm Uncoded Standard	HCL-V-37
Ytterbium	37mm Uncoded Standard	HCL-YB-37
Yttrium	37mm Uncoded Standard	HCL-Y-37
Zinc	37mm Uncoded Standard	HCL-ZN-37
Zirconium	37mm Uncoded Standard	HCL-ZR-37

OPERATING CURRENTS - UNCODED STANDARD HOLLOW CATHODE LAMPS

ELEMENT	MAX. CURRENT AMPS		RECOMMENDED CURRENT	
	37mm /1.5" Dia. STANDARD LAMPS	50mm /2" Dia. PERKIN ELMER LAMPS	37mm /1.5" Dia. STANDARD LAMPS	50mm /2" Dia. PERKIN ELMER LAMPS
Aluminium	10	30	8	25
Antimony	15	25	12	20
Arsenic	12	18	10	18
Barium	15	30	12	25
Beryllium	15	30	12	20
Bismuth	12	15	10	12
Boron	15	30	12	25
Cadmium	8	10	6	6
Caesium	10	10	8	8
Calcium	6	10	5	8
Cerium	15	20	15	20
Chromium	12	12	10	10
Cobalt	15	40	12	30
Copper	5	20	4	15
Deuterium	25			
Dysprosium	15	30	12	25
Erbium	15	30	12	25
Europium	12	30	10	25
Gadolinium	15	30	12	25
Gallium	15	20	12	15
Germanium	15	30	12	25
Gold	10	20	8	10
Hafnium	15	30	12	25
Holmium	15	30	12	25
Indium	10	25	8	20
Iridium	15	30	12	25
Iron	15	30	12	30
Lanthanum	15	30	12	25
Lead	10	15	8	12
Lithium	10	20	8	15
Lutetium	8	20	6	15
Magnesium	6	10	5	6
Manganese	12		10	
Mercury	6	8	5	6
Molybdenum	15	40	12	30
Neodymium	15	30	12	25
Nickel	15	30	12	25
Niobium	15	40	12	40
Osmium	10	10	8	8
Palladium	15	25	12	20
Phosphorous	10	25	8	20

Hollow Cathode Lamps

OPERATING CURRENTS - UNCODED STANDARD HOLLOW CATHODE LAMPS *continued*

ELEMENT	MAX. CURRENT AMPS		RECOMMENDED CURRENT	
	37mm /1.5" Dia. STANDARD LAMPS	50mm /2" Dia. PERKIN ELMER LAMPS	37mm /1.5" Dia. STANDARD LAMPS	50mm /2" Dia. PERKIN ELMER LAMPS
Platinum	15	25	12	20
Potassium	8	12	6	10
Praseodymium	15	30	12	25
Rhenium	15	30	12	25
Rhodium	15	30	12	25
Rubidium	10	10	8	8
Ruthenium	15	30	12	25
Samarium	15	30	12	25
Scandium	15	30	12	25
Selenium	15	15	15	15
Silicon	15	40	12	35
Silver	4	10	3	5
Sodium	8	10	6	8
Strontium	12	20	12	15
Tantalum	15	40	12	30
Tellurium	15	30	15	30
Terbium	15	30	12	25
Thallium	10	10	8	8
Thulium	15	30	12	25
Tin	15	30	12	30
Titanium	15	30	12	25
Tungsten	15	40	12	30
Vanadium	15	40	12	30
Ytterbium	15	30	12	25
Yttrium	15	30	12	25
Zinc	10	20	8	15
Zirconium	15	40	12	30

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Kinesis is a leading international supplier of chromatography, liquid handling, sample storage and medicinal chemistry consumables and equipment. The company's products are used extensively in the pharmaceutical, environmental, forensic, life sciences, food, biotechnology and academic markets.

A privately owned company, Kinesis was established in 1997 and offers its customers a range of first class products, services and solutions. Kinesis has expanded its reach internationally with subsidiary offices in Australia, Germany and the USA. A network of international distributors ensures the Kinesis range of products is available on a worldwide basis.

Kinesis work with industry leading manufacturers, many on a global exclusive or preferred supplier basis. Key suppliers to the Kinesis Group include AccuStandard, Cerilliant, ChromSword, Corning, Diba Industries, GL Sciences, Hamamatsu, Heraeus, HTL, IDEX Health & Science, Lipomed, Micronic, Microsaic, Parker domnick hunter, SGE Analytical Science, Tosoh Bioscience and YMC.

The Kinesis UK facility houses state of art processes for the pre-alignment of deuterium lamps. Approved by the world's two leading lamp manufacturers, Hamamatsu and Heraeus, these accredited processes have helped Kinesis become the world's largest 3rd party provider of pre-aligned deuterium lamps. Pipette service and calibration suites at both the UK and German locations offer back to base or field-based pipette service and calibration. The UK facility is UKAS accredited, offering services in line with today's market requirements.

KLTD-1501-0615



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