

Heraeus Hollow Cathode Lamps

Element	Type	Model	Part No.	Gas	Window	max. Current (mA)	rec. Current (mA)	W/Length principal (nm)	W/Length alternate (nm)	PE-Leadout	Price
Aluminium	37 mm Standard	3UNX/Al	80013892	Ne	UV glass	10	8	309,3	394,4	C	173,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Al-SH	80013895	Ne	UV glass						255,00
	37 mm Thermo-Unicam coded	3UNX/Al-U	80013894	Ne	UV glass				308,2		211,00
	37 mm Varian coded	3UNX/Al-V	80013893	Ne	UV glass				396,2		218,00
	50 mm Standard	5UN/Al	80013896	Ne	UV glass	30	25	309,3			242,00
	50 mm PE coded	5UN/Al-P	80013897	Ne	UV glass						231,00
	50 mm PE AAnalyst coded	5UN/Al-A	80014365	Ne	UV glass						270,00
Antimony	37mm Standard	3QNY/Sb	80013898	Ne	Quartz	15	12	217,6	231,1	D	210,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Sb-SH	80013921	Ne	Quartz						305,00
	37mm Thermo-Unicam coded	3QNY/Sb-U	80013920	Ne	Quartz						255,00
	37mm Varian coded	3QNY/Sb-V	80013899	Ne	Quartz				206,8		255,00
	50 mm Standard	5QN/Sb	80013922	Ne	Quartz	25	20	217,6			244,00
	50 mm PE coded	5QN/Sb-P	80013923	Ne	Quartz						263,00
	50 mm PE AAnalyst coded	5QN/Sb-A	80014366	Ne	Quartz						289,00
Arsenic	37 mm Standard	3QNY/As	80013924	Ne	Quartz	12	10	193,7	197,2	C	234,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/As-SH	80013927	Ne	Quartz						362,00
	37 mm Thermo-Unicam coded	3QNY/As-U	80013926	Ne	Quartz						294,00
	37 mm Varian coded	3QNY/As-V	80013925	Ne	Quartz						270,00
	50 mm Standard	5QN/As	80013928	Ne	Quartz	18	18	193,7			251,00
	50 mm PE coded	5QN/As-P	80013929	Ne	Quartz						282,00
	50 mm PE AAnalyst coded	5QN/As-A	80014367	Ne	Quartz						323,00
Barium	37 mm Standard	3BAX/Ba	80013930	Ar	Borosilicate	15	12	553,5	350,1	C	218,00
	37 mm Smith-Hieftje (Self Reversal)	3BAX/Ba-SH	80013933	Ar	Borosilicate						305,00
	37 mm Thermo-Unicam coded	3BAX/Ba-U	80013932	Ar	Borosilicate						255,00
	37 mm Varian coded	3BAX/Ba-V	80013931	Ar	Borosilicate				455,4		260,00
	50 mm Standard	5BA/Ba	80013934	Ar	Borosilicate	30	25	563,5			242,00
	50 mm PE coded	5BA/Ba-P	80013935	Ar	Borosilicate						257,00
	50 mm PE AAnalyst coded	5BA/Ba-A	80014381	Ar	Borosilicate						291,00
Beryllium	37 mm Standard	3QNY/Be	80013936	Ne	Quartz	15	12	234,9	-		286,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Be-SH	80013939	Ne	Quartz						236,00
	37 mm Thermo-Unicam coded	3QNY/Be-U	80013938	Ne	Quartz						294,00
	37 mm Varian coded	3QNY/Be-V	80013937	Ne	Quartz						270,00
	50 mm Standard	5QN/Be	80013940	Ne	Quartz	30	20	234,9			297,00
	50 mm PE coded	5QN/Be-P	80013941	Ne	Quartz						311,00
	50 mm PE AAnalyst coded	5QN/Be-A	80014382	Ne	Quartz						390,00
Bismuth	37 mm Standard	3QNY/Bi	80013942	Ne	Quartz	12	10	223,1	306,8	B	205,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Bi-SH	80013945	Ne	Quartz				227,7		205,00
	37 mm Thermo-Unicam coded	3QNY/Bi-U	80013944	Ne	Quartz				206,2		238,00
	37 mm Varian coded	3QNY/Bi-V	80013943	Ne	Quartz				222,8		238,00
	50 mm Standard	5QN/Bi	80013946	Ne	Quartz	15	12	223,1	202,1		238,00
	50 mm PE coded	5QN/Bi-P	80013947	Ne	Quartz						258,00
	50 mm PE AAnalyst coded	5QN/Bi-A	80014383	Ne	Quartz						283,00

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Boron	37 mm Standard	3UNX/B	80013948	Ne	UV glass	15	12	249,8		D	228,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/B-SH	80013961	Ne	UV glass						218,00
	37 mm Thermo-Unicam coded	3UNX/B-U	80013960	Ne	UV glass						263,00
	37 mm Varian coded	3UNX/B-V	80013949	Ne	UV glass						292,00
	50 mm Standard	5UN/B	80013962	Ne	UV glass	30	25				257,00
	50 mm PE coded	5UN/B-P	80013963	Ne	UV glass						277,00
	50 mm PE AAnalyst coded	5UN/B-A	80014387	Ne	UV glass						310,00
Cadmium	37 mm Standard	3QNY/Cd	80013964	Ne	Quartz	8	6	228,8	326,1	C	255,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Cd-SH	80013967	Ne	Quartz						273,00
	37 mm Thermo-Unicam coded	3QNY/Cd-U	80013966	Ne	Quartz						250,00
	37 mm Varian coded	3QNY/Cd-V	80013965	Ne	Quartz						318,00
	50 mm Standard	5QN/Cd	80013968	Ne	Quartz	10	6	228,8			267,00
	50 mm PE coded	5QN/Cd-P	80013969	Ne	Quartz						318,00
Caesium	50 mm PE AAnalyst coded	5QN/Cd-A	80014390	Ne	Quartz						310,00
	37 mm Standard	3BNX/Cs	80013970	Ne	Borosilicate	10	8	852,1	455,5	B	255,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Cs-SH	80013973	Ne	Borosilicate						298,00
	37 mm Thermo-Unicam coded	3BNX/Cs-U	80013972	Ne	Borosilicate						264,00
	37 mm Varian coded	3BNX/Cs-V	80013971	Ne	Borosilicate						318,00
	50 mm Standard	5BN/Cs	80013974	Ne	Borosilicate	10	8	852,1			292,00
Calcium	50 mm PE coded	5BN/Cs-P	80013975	Ne	Borosilicate						344,00
	37 mm Standard	3UNX/Ca	80013976	Ne	UV glass	6	5	422,7		C	298,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Ca-SH	80013979	Ne	UV glass						292,00
	37 mm Thermo-Unicam coded	3UNX/Ca-U	80013978	Ne	UV glass						255,00
	37 mm Varian coded	3UNX/Ca-V	80013977	Ne	UV glass						318,00
	50 mm Standard	5UN/Ca	80013980	Ne	UV glass	10	8	422,7			318,00
Cerium	50 mm PE coded	5UN/Ca-P	80013981	Ne	UV glass						318,00
	50 mm PE AAnalyst coded	5UN/Ca-A	80014402	Ne	UV glass						407,00
	37 mm Standard	3UNX/Ce	80013982	Ne	UV glass	15	15	520	569,7	C	286,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Ce-SH	80031581	Ne	UV glass						286,00
	37 mm Thermo-Unicam coded	3UNX/Ce-U	80013984	Ne	UV glass						302,00
Chromium	37 mm Varian coded	3UNX/Ce-V	80013983	Ne	UV glass						302,00
	50 mm Standard	5UN/Ce	80013985	Ne	UV glass	20	20	520			311,00
	37 mm Standard	3UNX/Cr	80013986	Ne	UV glass	12	10	357,9	429	C	242,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Cr-SH	80013989	Ne	UV glass				425,4		286,00
Chromium	37 mm Thermo-Unicam coded	3UNX/Cr-U	80013988	Ne	UV glass				360,3		251,00
	37 mm Varian coded	3UNX/Cr-V	80013987	Ne	UV glass				359,4		305,00
	50 mm Standard	5UN/Cr	80013990	Ne	UV glass	12	10	357,9			281,00
	50 mm PE coded	5UN/Cr-P	80013991	Ne	UV glass						330,00
	50 mm PE AAnalyst coded	5UN/Cr-A	80014406	Ne	UV glass						297,00

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Cobalt	37 mm Standard	3UNX/Co	80013992	Ne	UV glass	15	12	240,7	304,4	D	205,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Co-SH	80013995	Ne	UV glass				252,1		282,00
	37 mm Thermo-Unicam coded	3UNX/Co-U	80013994	Ne	UV glass				241,2		251,00
	37 mm Varian coded	3UNX/Co-V	80013993	Ne	UV glass				242,5		251,00
	50 mm Standard	5UN/Co	80013996	Ne	UV glass	40	30	240,7	243,6		260,00
	50 mm PE coded	5UN/Co-P	80013997	Ne	UV glass						270,00
	50 mm PE AAnalyst coded	5UN/Co-A	80014413	Ne	UV glass						291,00
Copper	37 mm Standard	3UNX/Cu	80013998	Ne	UV glass	5	4	324,8	327,4	C	210,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Cu-SH	80014002	Ne	UV glass				222,6		209,00
	37 mm Thermo-Unicam coded	3UNX/Cu-U	80014001	Ne	UV glass				216,5		249,00
	37 mm Varian coded	3UNX/Cu-V	80013999	Ne	UV glass				217,9		255,00
	50 mm Standard	5UN/Cu	80014003	Ne	UV glass	20	15	324,8	249,2		260,00
	50 mm PE coded	5UN/Cu-P	80014004	Ne	UV glass				244,2		243,00
	50 mm PE AAnalyst coded	5UN/Cu-A	80014399	Ne	UV glass						291,00
Dysprosium	37 mm Standard	3BNX/Dy	80014005	Ne	Borosilicate	15	12	421,2	416,8	C	242,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Dy-SH	80031580	Ne	Borosilicate						260,00
	37 mm Thermo-Unicam coded	3BNX/Dy-U	80014007	Ne	Borosilicate				418,7		276,00
	37 mm Varian coded	3BNX/Dy-V	80014006	Ne	Borosilicate				404,6		305,00
	50 mm Standard	5BN/Dy	80014008	Ne	Borosilicate	30	25	421,2	419,5		270,00
	50 mm PE coded	5BN/Dy-P	80014009	Ne	Borosilicate						311,00
	50 mm PE AAnalyst coded	5BN/Dy-A	80014412	Ne	Borosilicate						321,00
Erbium	37 mm Standard	3BNX/Er	80014011	Ne	Borosilicate	15	12	400,8	408,8	C	251,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Er-SH	80031569	Ne	Borosilicate						251,00
	37 mm Thermo-Unicam coded	3BNX/Er-U	80014013	Ne	Borosilicate				415,1		302,00
	37 mm Varian coded	3BNX/Er-V	80014012	Ne	Borosilicate				386,3		316,00
	50 mm Standard	5BN/Er	80014014	Ne	Borosilicate	30	25	400,8	389,3		295,00
	50 mm PE coded	5BN/Er-P	80014015	Ne	Borosilicate				397,3		321,00
	50 mm PE coded AAnalyst	5BN/Er-A	80014416	Ne	Borosilicate						346,00
Europium	37 mm Standard	3BAX/Eu	80014016	Ar	Borosilicate	12	10	459,4	333,4	B	255,00
	37 mm Smith-Hieftje (Self Reversal)	3BAX/Eu-SH	80031568	Ar	Borosilicate						244,00
	37 mm Thermo-Unicam coded	3BAX/Eu-U	80014018	Ar	Borosilicate				466,2		276,00
	37 mm Varian coded	3BAX/Eu-V	80014017	Ar	Borosilicate				462,7		276,00
	50 mm Standard	5BA/Eu	80014019	Ar	Borosilicate	30	25	459,4	321,1		286,00
	50 mm PE coded	5BA/Eu-P	80014020	Ar	Borosilicate				311,1		295,00
	50 mm PE AAnalyst coded	5BA/Eu-A	80014422	Ar	Borosilicate						321,00
Gadolinium	37 mm Standard	3UNX/Gd	80014021	Ne	UV glass	15	12	368,4	419,1	B	270,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Gd-SH	80031567	Ne	UV glass						257,00
	37 mm Thermo-Unicam coded	3UNX/Gd-U	80014023	Ne	UV glass				478,3		302,00
	37 mm Varian coded	3UNX/Gd-V	80014022	Ne	UV glass				368,4		302,00
	50 mm Standard	5UN/Gd	80014024	Ne	UV glass	30	25	368,4	405,8		297,00
	50 mm PE coded	5UN/Gd-P	80014025	Ne	UV glass				405,5		321,00
	50 mm PE AAnalyst coded	5UN/Gd-A	80014426	Ne	UV glass						346,00

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Gallium	37 mm Standard	3UNX/Ga	80014026	Ne	UV glass	15	12	287,4	403,3	C	270,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Ga-SH	80014029	Ne	UV glass				250		292,00
	37 mm Thermo-Unicam coded	3UNX/Ga-U	80014028	Ne	UV glass				417,2		310,00
	37 mm Varian coded	3UNX/Ga-V	80014027	Ne	UV glass				294,4		302,00
	50 mm Standard	5UN/Ga	80014030	Ne	UV glass	20	15	287,4	245		344,00
	50 mm PE coded	5UN/Ga-P	80014031	Ne	UV glass				272		321,00
	50 mm PE AAnalyst coded	5UN/Ga-A	80014460	Ne	UV glass						346,00
Germanium	37 mm Standard	3UNX/Ge	80014032	Ne	UV glass	15	12	265,2	269,1	C	291,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Ge-SH	80014035	Ne	UV glass				275,5		281,00
	37 mm Thermo-Unicam coded	3UNX/Ge-U	80014034	Ne	UV glass				271		297,00
	37 mm Varian coded	3UNX/Ge-V	80014033	Ne	UV glass				259,3		302,00
	50 mm Standard	5UN/Ge	80014036	Ne	UV glass	30	25	265,2	303,9		330,00
	50 mm PE coded	5UN/Ge-P	80014037	Ne	UV glass						321,00
	50 mm PE AAnalyst coded	5UN/Ge-A	80014464	Ne	UV glass						346,00
Gold	37 mm Standard	3UNX/Au	80013955	Ne	UV glass	10	8	242,8	267,6	C	318,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Au-SH	80013958	Ne	UV glass						318,00
	37 mm Thermo-Unicam coded	3UNX/Au-U	80013957	Ne	UV glass				274,8		321,00
	37 mm Varian coded	3UNX/Au-V	80013956	Ne	UV glass				312,3		321,00
	50 mm Standard	5UN/Au	80013959	Ne	UV glass	20	10	242,8			321,00
	50 mm PE coded	5UN/Au-P	80014040	Ne	UV glass						384,00
	50 mm PE AAnalyst coded	5UN/Au-A	80014447	Ne	UV glass						411,00
Hafnium	37 mm Standard	3UAX/Hf	80014041	Ar	UV glass	15	12	307,3	295,1	C	412,00
	37 mm Smith-Hieftje (Self Reversal)	3UAX/Hf-SH	80031566	Ar	UV glass						349,00
	37 mm Thermo-Unicam coded	3UAX/Hf-U	80014043	Ar	UV glass						298,00
	37 mm Varian coded	3UAX/Hf-V	80014042	Ar	UV glass				377,8		330,00
	50 mm Standard	5UA/Hf	80014044	Ar	UV glass	30	25	307,3			282,00
	50 mm PE coded	5UA/Hf-P	80014045	Ar	UV glass						308,00
	50 mm PE AAnalyst coded	5UA/Hf-A	80014470	Ar	UV glass						333,00
Holmium	37 mm Standard	3BNX/Ho	80014046	Ne	Borosilicate	15	12	410,4	417,3	D	280,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Ho-SH	80031565	Ne	Borosilicate						281,00
	37 mm Thermo-Unicam coded	3BNX/Ho-U	80014048	Ne	Borosilicate				416,3		289,00
	37 mm Varian coded	3BNX/Ho-V	80014047	Ne	Borosilicate				405,4		289,00
	50 mm Standard	5BN/Ho	80014049	Ne	Borosilicate	30	25	410,1	404,1		330,00
	50 mm PE coded	5BN/Ho-P	80014050	Ne	Borosilicate				410,9		330,00
	50 mm PE AAnalyst coded	5BN/Ho-A	80014473	Ne	Borosilicate						343,00
Indium	37 mm Standard	3UNX/In	80014051	Ne	UV glass	10	8	303,9	451,1	C	375,00
	37 mm Smith-Hieftje (Self Reversal)	3UNS/In-SH	80031564	Ne	UV glass						348,00
	37 mm Thermo-Unicam coded	3UNX/In-U	80014053	Ne	UV glass				410,5		306,00
	37 mm Varian coded	3UNX/In-V	80014052	Ne	UV glass				325,6		321,00
	50 mm Standard	5UN/In	80014054	Ne	UV glass	25	20	303,9	256		282,00
	50 mm PE coded	5UN/In-P	80014055	Ne	UV glass				271		308,00
	50 mm PE AAnalyst coded	5UN/In-A	80014476	Ne	UV glass						333,00

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Iridium	37 mm Standard	3QNY/Ir	80014056	Ne	Quartz	15	12	208,9	264	C	280,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Ir-SH	80014059	Ne	Quartz				285		369,00
	37 mm Thermo-Unicam coded	3QNY/Ir-U	80014058	Ne	Quartz				237,5		318,00
	37 mm Varian coded	3QNY/Ir-V	80014057	Ne	Quartz				266,5		325,00
	50 mm Standard	5QN/Ir	80014060	Ne	Quartz	30	25	208,9	250,3		297,00
	50 mm PE coded	5QN/Ir-P	80014061	Ne	Quartz				254,4		320,00
	50 mm PE AAnalyst coded	5QN/Ir-A	80014477	Ne	Quartz						330,00
Iron	37 mm Standard	3UNX/Fe	80014062	Ne	UV glass	15	12	248,3	372	D	175,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Fe-SH	80014066	Ne	UV glass				271,9		221,00
	37 mm Thermo-Unicam coded	3UNX/Fe-U	80014065	Ne	UV glass				252,3		225,00
	37 mm Varian coded	3UNX/Fe-V	80014064	Ne	UV glass				248,8		267,00
	50 mm Standard	5UN/Fe	80014067	Ne	UV glass	30	30	248,3	302,1		223,00
	50 mm PE coded	5UN/Fe-P	80014068	Ne	UV glass				296,7		267,00
	50 mm PE AAnalyst coded	5UN/Fe-A	80014481	Ne	UV glass						286,00
Lanthanum	37 mm Standard	3UAX/La	80014069	Ar	UV glass	15	12	550,1	418,7	B	244,00
	37 mm Smith-Hieftje (Self Reversal)	3UAX/La-SH	80014083	Ar	UV glass				403,7		305,00
	37 mm Thermo-Unicam coded	3UAX/La-U	80014082	Ar	UV glass				392,8		289,00
	37 mm Varian coded	3UAX/La-V	80014081	Ar	UV glass				365		289,00
	50 mm Standard	5UA/La	80014484	Ar	UV glass	30	25	550,1	407,9		282,00
	50 mm PE coded	5UA/La-P	80014086	Ar	UV glass						308,00
	50 mm PE AAnalyst coded	5UA/La-A	80014488	Ar	UV glass						333,00
Lead	37 mm Standard	3QNY/Pb	80014087	Ne	Quartz	10	8	217	283,3	C	298,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Pb-SH	80014090	Ne	Quartz						235,00
	37 mm Thermo-Unicam coded	3QNY/Pb-U	80014089	Ne	Quartz				368,4		244,00
	37 mm Varian coded	3QNY/Pb-V	80014088	Ne	Quartz				261,4		255,00
	50 mm Standard	5QN/Pb	80014091	Ne	Quartz	15	12	217			251,00
	50 mm PE coded	5QN/Pb-P	80014092	Ne	Quartz						314,00
	50 mm PE AAnalyst coded	5QN/Pb-A	80014489	Ne	Quartz						353,00
Lithium	37 mm Standard	3BAX/Li	80014093	Ar	Borosilicate	10	8	670,8	323,3	C	311,00
	37 mm Smith-Hieftje (Self Reversal)	3BAX/Li-SH	80013909	Ar	Borosilicate						204,00
	37 mm Thermo-Unicam coded	3BAX/Li-U	80014095	Ar	Borosilicate						356,00
	37 mm Varian coded	3BAX/Li-V	80014094	Ar	Borosilicate				610,4		305,00
	50 mm Standard	5BA/Li	80014100	Ar	Borosilicate	20	15	670,8			260,00
	50 mm PE coded	5BA/Li-P	80014101	Ar	Borosilicate						270,00
	50 mm PE AAnalyst coded	5BA/Li-A	80014503	Ar	Borosilicate						289,00
Lutetium	37 mm Standard	3UAX/Lu	80014102	Ar	UV glass	8	6	336	337,7	D	281,00
	37 mm Smith-Hieftje (Self Reversal)	3UAX/Lu-SH	80031563	Ar	UV glass						258,00
	37 mm Thermo-Unicam coded	3UAX/Lu-U	80014104	Ar	UV glass				356,8		289,00
	37 mm Varian coded	3UAX/Lu-V	80014103	Ar	UV glass				331,2		289,00
	50 mm Standard	5UA/Lu	80014105	Ar	UV glass	20	15	336	298,9		293,00

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Magnesium	37 mm Standard	3QNY/Mg	80014106	Ne	Quartz	6	5	285,2	202,6	B	228,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Mg-SH	80014109	Ne	Quartz						273,00
	37 mm Thermo-Unicam coded	3QNY/Mg-U	80014108	Ne	Quartz						244,00
	37 mm Varian coded	3QNY/Mg-V	80014107	Ne	Quartz				279,6		244,00
	50 mm Standard	5QN/Mg	80014110	Ne	Quartz	10	6	285,2			267,00
	50 mm PE coded	5QN/Mg-P	80014111	Ne	Quartz						318,00
	50 mm PE AAnalyst coded	5QN/Mg-A	80014506	Ne	Quartz						289,00
Manganese	37 mm Standard	3UNX/Mn	80014112	Ne	UV glass	12	10	279,5	403	D	210,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Mn-SH	80014115	Ne	UV glass				321,7		260,00
	37 mm Thermo-Unicam coded	3UNX/Mn-U	80014114	Ne	UV glass				280,1		244,00
	37 mm Varian coded	3UNX/Mn-V	80014113	Ne	UV glass				279,8		255,00
	50 mm Standard	5UN/Mn	80014116	Ne	UV glass	30	20	279,5			255,00
	50 mm PE coded	5UN/Mn-P	80014117	Ne	UV glass						305,00
	50 mm PE AAnalyst coded	5UN/Mn-A	80014510	Ne	UV glass						337,00
Mercury	37 mm Standard	3UNX/Hg	80014118	Ne	UV glass	6	5	253,6		D	220,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Hg-SH	80018335	Ne	UV glass						220,00
	37 mm Thermo-Unicam coded	3UNX/Hg-U	80014120	Ne	UV glass						263,00
	37 mm Varian coded	3UNX/Hg-V	80014119	Ne	UV glass						263,00
	50 mm Standard	5UN/Hg	80014121	Ne	UV glass	8	6	253,6			258,00
	50 mm PE coded	5UN/Hg-P	80014122	Ne	UV glass						283,00
	50 mm PE AAnalyst coded	5UN/Hg-A	80014513	Ne	UV glass						309,00
Molybdenum	37 mm Standard	3UNX/Mo	80014123	Ne	UV glass	15	12	313,3	390,1	C	337,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Mo-SH	80014126	Ne	UV glass				319,4		286,00
	37 mm Thermo-Unicam coded	3UNX/Mo-U	80014125	Ne	UV glass				379,8		251,00
	37 mm Varian coded	3UNX/Mo-V	80014124	Ne	UV glass				317		356,00
	50 mm Standard	5UN/Mo	80014127	Ne	UV glass	40	30	313,3	386,4		281,00
	50 mm PE coded	5UN/Mo-P	80014128	Ne	UV glass				315,8		330,00
	50 mm PE AAnalyst coded	5UN/Mo-A	80014517	Ne	UV glass						289,00
Neodymium	37 mm Standard	3BNX/Nd	80014129	Ne	Borosilicate	15	12	492,5	490,2	D	257,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Nd-SH	80031562	Ne	Borosilicate						264,00
	37 mm Thermo-Unicam coded	3BNX/Nd-U	80014131	Ne	Borosilicate				471,9		302,00
	37 mm Varian coded	3BNX/Nd-V	80014130	Ne	Borosilicate				463,4		302,00
	50 mm Standard	5BN/Nd	80014132	Ne	Borosilicate	30	25	492,5	489,7		296,00
	50 mm PE coded	5BN/Nd-P	80014133	Ne	Borosilicate						323,00
	50 mm PE AAnalyst coded	5BN/Nd-A	80014520	Ne	Borosilicate						347,00
Nickel	37 mm Standard	3QNY/Ni	80014134	Ne	Quartz	15	12	232	305,1	D	199,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Ni-SH	80014137	Ne	Quartz				234,6		199,00
	37 mm Thermo-Unicam coded	3QNY/Ni-U	80014136	Ne	Quartz				341,5		244,00
	37 mm Varian coded	3QNY/Ni-V	80014135	Ne	Quartz				231,1		244,00
	50 mm Standard	5QN/Ni	80014138	Ne	Quartz	30	25	232			238,00
	50 mm PE coded	5QN/Ni-P	80014139	Ne	Quartz						263,00
	50 mm PE AAnalyst coded	5QN/Ni-A	80014521	Ne	Quartz						290,00

Heraeus Hollow Cathode Lamps

Element	Type	Model	Part No.	Gas	Window	max. Current (mA)	rec. Current (mA)	W/Length principal (nm)	W/Length alternate (nm)	PE-Leadout	Price
Niobium	37 mm Standard	3UAX/Nb	80014140	Ar	UV glass	15	12	334,4	358	D	244,00
	37 mm Smith-Hieftje (Self Reversal)	3UAX/Nb-SH	80031561	Ar	UV glass						244,00
	37 mm Thermo-Unicam coded	3UAX/Nb-U	80014142	Ar	UV glass				334,9		290,00
	37 mm Varian coded	3UAX/Nb-V	80014141	Ar	UV glass				405,9		290,00
	50 mm Standard	5UA/Nb	80014143	Ar	UV glass	40	40	334,4	408		283,00
	50 mm PE coded	5UA/Nb-P	80014144	Ar	UV glass				335,8		309,00
	50 mm PE AAnalyst coded	5UA/Nb-A	80014524	Ar	UV glass						334,00
Osmium	37 mm Standard	3UNX/Os	80014145	Ne	UV glass	10	8	290,9	301,8	C	258,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Os-SH	80014149	Ne	UV glass						258,00
	37 mm Thermo-Unicam coded	3UNX/Os-U	80014148	Ne	UV glass				426,1		302,00
	37 mm Varian coded	3UNX/Os-V	80014147	Ne	UV glass				305,9		302,00
	50 mm Standard	5UN/Os	80014150	Ne	UV glass	10	8	290,9			296,00
	50 mm PE coded	5UN/Os-P	80014151	Ne	UV glass						323,00
Palladium	37 mm Standard	3UNX/Pd	80014152	Ne	UV glass	15	12	247,6	340,5	D	258,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Pd-SH	80014155	Ne	UV glass						258,00
	37 mm Thermo-Unicam coded	3UNX/Pd-U	80014154	Ne	UV glass						302,00
	37 mm Varian coded	3UNX/Pd-V	80014153	Ne	UV glass				276,3		302,00
	50 mm Standard	5UN/Pd	80014156	Ne	UV glass	25	20	247,6			296,00
	50 mm PE coded	5UN/Pd-P	80014157	Ne	UV glass						323,00
	50 mm PE AAnalyst coded	5UN/Pd-A	80014541	Ne	UV glass						347,00
Phosphorus	37 mm Standard	3QNY/P	80014158	Ne	Quartz	10	8	213,6		C	283,00
	37 mm Smith-Hieftje (Self Reversal)	3QN/P-SH	80018291	Ne	Quartz						283,00
	37 mm Thermo-Unicam coded	3QNY/P-U	80014160	Ne	Quartz						328,00
	37 mm Varian coded	3QNY/P-V	80014159	Ne	Quartz						328,00
	50 mm Standard	5QN/P	80014162	Ne	Quartz	25	20	213,6			366,00
	50 mm PE coded	5QN/P-P	80014163	Ne	Quartz						393,00
Platinum	50 mm PE AAnalyst coded	5QN/P-A	80014542	Ne	Quartz						417,00
	37 mm Standard	3UNX/Pt	80014165	Ne	UV glass	15	12	265,9	299,8	C	291,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Pt-SH	80014168	Ne	UV glass				262,8		291,00
	37 mm Thermo-Unicam coded	3UNX/Pt-U	80014167	Ne	UV glass				306,5		334,00
	37 mm Varian coded	3UNX/Pt-V	80014166	Ne	UV glass				293		334,00
	50 mm Standard	5UN/Pt	80014169	Ne	UV glass	25	20	265,9	283		328,00
	50 mm PE coded	5UN/Pt-P	80014170	Ne	UV glass				273,4		353,00
50 mm PE AAnalyst coded	5UN/Pt-A	80014548	Ne	UV glass						380,00	
Potassium	37 mm Standard	3BNX/K	80014171	Ne	Borosilicate	8	6	766,5	404,4	C	298,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/K-SH	80014174	Ne	Borosilicate						344,00
	37 mm Thermo-Unicam coded	3BNX/K-U	80014173	Ne	Borosilicate				407,7		292,00
	37 mm Varian coded	3BNX/K-V	80014172	Ne	Borosilicate				769,9		298,00
	50 mm Standard	5BN/K	80014175	Ne	Borosilicate	12	10	766,5			298,00
	50 mm PE coded	5BN/K-P	80014176	Ne	Borosilicate						289,00
50 mm PE AAnalyst coded	5BN/K-A	80014552	Ne	Borosilicate						330,00	

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Element	Type	Model	Part No.	Gas	Window	max. Current (mA)	rec. Current (mA)	W/Length principal (nm)	W/Length alternate (nm)	PE-Leadout	Price
Praseodymium	37 mm Standard	3BNX/Pr	80014177	Ne	Borosilicate	15	12	495,1	492,5	C	258,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Pr-SH	80031560	Ne	Borosilicate						244,00
	37 mm Thermo-Unicam coded	3BNX/Pr-U	80014179	Ne	Borosilicate				473,7		290,00
	37 mm Varian coded	3BNX/Pr-V	80014178	Ne	Borosilicate				513,3		290,00
	50 mm Standard	5BN/Pr	80014180	Ne	Borosilicate	30	25	495,1	502,7		283,00
	50 mm PE coded	5BN/Pr-P	80014181	Ne	Borosilicate				504,6		309,00
	50 mm PE AAnalyst coded	5BN/Pr-A	80014555	Ne	Borosilicate						334,00
Rhenium	37 mm Standard	3UAX/Re	80014182	Ar	UV glass	15	12	346,1	345,2	C	323,00
	37 mm Smith-Hieftje (Self Reversal)	3UAX/Re-SH	80014185	Ar	UV glass						290,00
	37 mm Thermo-Unicam coded	3UAX/Re-U	80014184	Ar	UV glass						334,00
	37 mm Varian coded	3UAX/Re-V	80014183	Ar	UV glass				346,5		334,00
	50 mm Standard	5UA/Re	80014186	Ar	UV glass	30	25	346,1			334,00
	50 mm PE coded	5UA/Re-P	80014187	Ar	UV glass						353,00
	50 mm PE AAnalyst coded	5UA/Re-A	80014559	Ar	UV glass						380,00
Rhodium	37 mm Standard	3UAX/Rh	80014188	Ar	UV glass	15	12	343,5	365,8	D	476,00
	37 mm Smith-Hieftje (Self Reversal)	3UAX/Rh-SH	80014191	Ar	UV glass				370,1		297,00
	37 mm Thermo-Unicam coded	3UAX/Rh-U	80014190	Ar	UV glass				339,7		325,00
	37 mm Varian coded	3UAX/Rh-V	80014189	Ar	UV glass				369,2		485,00
	50 mm Standard	5UA/Rh	80014192	Ar	UV glass	30	25	343,5	350,7		339,00
	50 mm PE coded	5UA/Rh-P	80014193	Ar	UV glass				328,1		351,00
	50 mm PE AAnalyst coded	5UA/Rh-A	80014564	Ar	UV glass						406,00
Rubidium	37 mm Standard	3BNX/Rb	80014194	Ne	Borosilicate	10	8	780	794,8	C	220,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Rb-SH	80018108	Ne	Borosilicate						220,00
	37 mm Thermo-Unicam coded	3BNX/Rb-U	80014196	Ne	Borosilicate				421,6		263,00
	37 mm Varian coded	3BNX/Rb-V	80014195	Ne	Borosilicate				420,2		263,00
	50 mm Standard	5BN/Rb	80014197	Ne	Borosilicate	10	8				258,00
	50 mm PE coded	5BN/Rb-P	80014198	Ne	Borosilicate						283,00
Ruthenium	37 mm Standard	3UNX/Ru	80014199	Ne	UV glass	15	12	349,9	392,6	D	283,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Ru-SH	80031549	Ne	UV glass						283,00
	37 mm Thermo-Unicam coded	3UNX/Ru-U	80014201	Ne	UV glass						328,00
	37 mm Varian coded	3UNX/Ru-V	80014200	Ne	UV glass				379,9		328,00
	50 mm Standard	5UN/Ru	80014202	Ne	UV glass	30	25	349,9			323,00
	50 mm PE coded	5UN/Ru-P	80014203	Ne	UV glass						347,00
	50 mm PE AAnalyst coded	5UN/Ru-A	80014570	Ne	UV glass						374,00
Samarium	37 mm Standard	3UNX/Sm	80014204	Ne	UV glass	15	12	429,7	476	D	258,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Sm-SH	80031548	Ne	UV glass						258,00
	37 mm Thermo-Unicam coded	3UNX/Sm-U	80014206	Ne	UV glass				520,1		302,00
	37 mm Varian coded	3UNX/Sm-V	80014205	Ne	UV glass				472,8		302,00
	50 mm Standard	5UN/Sm	80014207	Ne	UV glass	30	25	429,7	478,3		296,00
	50 mm PE coded	5UN/Sm-P	80014208	Ne	UV glass				511,7		323,00
	50 mm PE AAnalyst coded	5UN/Sm-A	80014573	Ne	UV glass						347,00

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Element	Type	Model	Part No.	Gas	Window	max. Current (mA)	rec. Current (mA)	W/Length principal (nm)	W/Length alternate (nm)	PE-Leadout	Price
Scandium	37 mm Standard	3UNX/Sc	80014209	Ne	UV glass	15	12	391,2	408,2	C	291,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Sc-SH	80031547	Ne	UV glass						258,00
	37 mm Thermo-Unicam coded	3UNX/Sc-U	80014211	Ne	UV glass				402,4		302,00
	37 mm Varian coded	3UNX/Sc-V	80014210	Ne	UV glass				390,8		302,00
	50 mm Standard	5UN/Sc	80014212	Ne	UV glass	30	25	391,2	402		296,00
	50 mm PE coded	5UN/Sc-P	80014213	Ne	UV glass				327		323,00
	50 mm PE AAnalyst coded	5UN/Sc-A	80014576	Ne	UV glass						347,00
Selenium	37 mm Standard	3QNY/Se	80014214	Ne	Quartz	15	15	196	204	C	258,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Se-SH	80014217	Ne	Quartz						258,00
	37 mm Thermo-Unicam coded	3QNY/Se-U	80014216	Ne	Quartz				207,5		302,00
	37 mm Varian coded	3QNY/Se-V	80014215	Ne	Quartz				206,3		302,00
	50 mm Standard	5QN/Se	80014218	Ne	Quartz	15	15	196			296,00
	50 mm PE coded	5QN/Se-P	80014219	Ne	Quartz						323,00
	50 mm PE AAnalyst coded	5QN/Se-A	80014577	Ne	UV glass						347,00
Silicon	37 mm Standard	3QNY/Si	80014220	Ne	Quartz	15	12	251,6	250,7	D	220,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Si-SH	80014223	Ne	Quartz				252,4		220,00
	37 mm Thermo-Unicam coded	3QNY/Si-U	80014222	Ne	Quartz				252,9		263,00
	37 mm Varian coded	3QNY/Si-V	80014221	Ne	Quartz				251,4		263,00
	50 mm Standard	5QN/Si	80014224	Ne	Quartz	40	35	251,6	221,7		258,00
	50 mm PE coded	5QN/Si-P	80014225	Ne	Quartz				221,1		283,00
	50 mm PE AAnalyst coded	5QN/Si-A	80014578	Ne	Quartz						309,00
Silver	37 mm Standard	3UAX/Ag	80014226	Ar	UV glass	4	3	328,1	338,3	D	190,00
	37 mm Smith-Hieftje (Self Reversal)	3UAX/Ag-SH	80014229	Ar	UV glass						190,00
	37 mm Thermo-Unicam coded	3UAX/Ag-U	80014228	Ar	UV glass						237,00
	37 mm Varian coded	3UAX/Ag-V	80014227	Ar	UV glass						237,00
	50 mm Standard	5UA/Ag	80014581	Ar	UV glass	10	5	328,1			230,00
	50 mm PE coded	5UA/Ag-P	80014231	Ar	UV glass						258,00
	50 mm PE AAnalyst coded	5UA/Ag-A	80014583	Ar	UV glass						285,00
Sodium	37 mm Standard	3UNX/Na	80014232	Ne	UV glass	8	6	589	330,3	C	204,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Na-SH	80014235	Ne	UV glass						210,00
	37 mm Thermo-Unicam coded	3UNX/Na-U	80014234	Ne	UV glass						244,00
	37 mm Varian coded	3UNX/Na-V	80014233	Ne	UV glass				589,6		260,00
	50 mm Standard	5UN/Na	80014236	Ne	UV glass	10	8	589			249,00
	50 mm PE coded	5UN/Na-P	80014237	Ne	UV glass						298,00
	50 mm PE AAnalyst coded	5UN/Na-A	80014584	Ne	UV glass						289,00
Strontium	37 mm Standard	3BAX/Sr	80014238	Ar	Borosilicate	12	12	460,7		C	212,00
	37 mm Smith-Hieftje (Self Reversal)	3BAX/Sr-SH	80014241	Ar	Borosilicate						212,00
	37 mm Thermo-Unicam coded	3BAX/Sr-U	80014240	Ar	Borosilicate						258,00
	37 mm Varian coded	3BAX/Sr-V	80014239	Ar	Borosilicate						258,00
	50 mm Standard	5BA/Sr	80014242	Ar	Borosilicate	20	15	460,7			251,00
	50 mm PE coded	5BA/Sr-P	80014243	Ar	Borosilicate						276,00
	50 mm PE AAnalyst coded	5BA/Sr-A	80014588	Ar	Borosilicate						302,00

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Element	Type	Model	Part No.	Gas	Window	max. Current (mA)	rec. Current (mA)	W/Length principal (nm)	W/Length alternate (nm)	PE-Leadout	Price
Tantalum	37 mm Standard	3UNX/Ta	80014244	Ne	UV glass	15	12	271,5	277,6	C	220,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Ta-SH	80031546	Ne	UV glass						220,00
	37 mm Thermo-Unicam coded	3UNX/Ta-U	80014246	Ne	UV glass				255,9		263,00
	37 mm Varian coded	3UNX/Ta-V	80014245	Ne	UV glass				260,9		263,00
	50 mm Standard	5UN/Ta	80014247	Ne	UV glass	40	30	271,5	293,4		258,00
	50 mm PE coded	5UN/Ta-P	80014248	Ne	UV glass				269,8		283,00
	50 mm PE AAnalyst coded	5UN/Ta-A	80014592	Ne	UV glass						309,00
Tellurium	37 mm Standard	3QNY/Te	80014249	Ne	Quartz	15	15	214,3	225,9	B	220,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Te-SH	80014252	Ne	Quartz						220,00
	37 mm Thermo-Unicam coded	3QNY/Te-U	80014251	Ne	Quartz						263,00
	37 mm Varian coded	3QNY/Te-V	80014250	Ne	Quartz				238,5		263,00
	50 mm Standard	5QN/Te	80014253	Ne	Quartz	30	30	214,3			258,00
	50 mm PE coded	5QN/Te-P	80014254	Ne	Quartz						283,00
	50 mm PE AAnalyst coded	5QN/Te-A	80014593	Ne	Quartz						309,00
Terbium	37 mm Standard	3BNX/Tb	80014255	Ne	Borosilicate	15	12	432,7	431,9	C	220,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Tn-SH	80031545	Ne	Borosilicate						220,00
	37 mm Thermo-Unicam coded	3BNX/Tb-U	80014257	Ne	Borosilicate				390,1		263,00
	37 mm Varian coded	3BNX/Tb-V	80014256	Ne	Borosilicate				410,6		263,00
	50 mm Standard	5BN/Tb	80014258	Ne	Borosilicate	30	25	432,7	406,2		258,00
	50 mm PE coded	5BN/Tb-P	80014259	Ne	Borosilicate				433,9		283,00
	50 mm PE AAnalyst coded	5BN/Tb-A	80014596	Ne	Borosilicate						309,00
Thallium	37 mm Standard	3UNX/Tl	80018336	Ne	Quartz	10	8	276,8	377,6	C	270,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Tl-SH	80018337	Ne	Quartz						270,00
	37 mm Thermo-Unicam coded	3UNX-Tl-U	80018338	Ne	Quartz				258		314,00
	37 mm Varian coded	3UNX/Tl-V	80018339	Ne	Quartz				238		314,00
	50 mm Standard	5UN/Tl	80018772	Ne	UV glass	10	8	276,8			309,00
	50 mm PE coded	5UN/Tl-P	80018774	Ne	UV glass						334,00
	50 mm PE AAnalyst coded	5UN/Tl-A	80018773	Ne	UV glass						361,00
Thorium	37 mm Standard	3UAX/Th	80018326	Ar	UV glass						643,00
	37 mm Standard	3UNX/Th	80014266	Ne	UV glass	15	15	371,9		C	643,00
	37mm Standard (long version)	3QAY/Th	80018123	Ar	Quartz						643,00
	50 mm Standard	5UN/Th	80014267	Ne	UV glass	25	25				708,00
Thulium	37 mm Standard	3UNX/Tm	80014269	Ne	UV glass	15	12	371,8	375,2	C	220,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Tm-SH	80031544	Ne	UV glass						233,00
	37 mm Thermo-Unicam coded	3UNX/Tm-U	80014271	Ne	UV glass				374,4		263,00
	37 mm Varian coded	3UNX/Tm-V	80014270	Ne	UV glass				410,6		263,00
	50 mm Standard	5UN/Tm	80014272	Ne	UV glass	30	25		409,4		258,00
	50 mm PE coded	5UN/Tm-P	80014273	Ne	UV glass				418,8		283,00
	50 mm PE AAnalyst coded	5UN/Tm-A	80014603	Ne	UV glass						309,00

Heraeus Hollow Cathode Lamps

Element	Type	Model	Part No.	Gas	Window	max. Current (mA)	rec. Current (mA)	W/Length principal (nm)	W/Length alternate (nm)	PE-Leadout	Price
Tin	37 mm Standard	3QNY/Sn	80014274	Ne	Quartz	15	12	224,6	300,9	C	212,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Sn-SH	80014277	Ne	Quartz				270,7		212,00
	37 mm Thermo-Unicam coded	3QNY/Sn-U	80014276	Ne	Quartz				235,5		212,00
	37 mm Varian coded	3QNY/Sn-V	80014275	Ne	Quartz				286,3		212,00
	50 mm Standard	5QN/Sn	80014278	Ne	Quartz	30	30	224,6	303,4		251,00
	50 mm PE coded	5QN/Sn-P	80014279	Ne	Quartz				254,7		276,00
	50 mm PE AAnalyst coded	5QN/Sn-A	80014604	Ne	Quartz						302,00
Titanium	37 mm Standard	3UNX/Ti	80014280	Ne	UV glass	15	12	365,4	375,3	C	193,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Ti-SH	80014283	Ne	UV glass				364,3		193,00
	37 mm Thermo-Unicam coded	3UNX/Ti-U	80014282	Ne	UV glass				399		238,00
	37 mm Varian coded	3UNX/Ti-V	80014281	Ne	UV glass				374,1		238,00
	50 mm Standard	5UN/Ti	80014284	Ne	UV glass	30	25	365,4	320		231,00
	50 mm PE coded	5UN/Ti-P	80014285	Ne	UV glass				363,6		258,00
	50 mm PE AAnalyst coded	5UN/Ti-A	80014605	Ne	UV glass						283,00
Tungsten	37 mm Standard	3UNX/W	80014286	Ne	UV glass	15	12	255,1	400,9	C	220,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/W-SH	80014289	Ne	UV glass				294,4		220,00
	37 mm Thermo-Unicam coded	3UNX/W-U	80014288	Ne	UV glass				272,4		263,00
	37 mm Varian coded	3UNX/W-V	80014287	Ne	UV glass				268,1		263,00
	50 mm Standard	5UN/W	80014077	Ne	UV glass	40	30	255,1	294,7		258,00
	50 mm PE coded	5UN/W-P	80014078	Ne	UV glass				283,1		283,00
	50 mm PE AAnalyst coded	5UN/W-A	80014609	Ne	UV glass						309,00
Uranium	37 mm Standard	3UAX/U	80014079	Ar	UV glass	15	15	358,5	351,5	C	740,00
	37 mm Thermo-Unicam coded	3UAX/U-U	80014301	Ar	UV glass				348,9		773,00
	37 mm Varian coded	3UAX/U-V	80014300	Ar	UV glass				394,4		773,00
	50 mm Standard	5UA/U	80014302	Ar	UV glass	25	25	358,5			804,00
	50 mm PE coded	5UA/U-P	80014303	Ar	UV glass						900,00
Vanadium	37 mm Standard	3UNX/V	80014304	Ne	UV glass	15	12	318,5	306,6	D	231,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/V-SH	80014308	Ne	UV glass				437,9		231,00
	37 mm Thermo-Unicam coded	3UNX/V-U	80014307	Ne	UV glass				305,6		276,00
	37 mm Varian coded	3UNX/V-V	80014306	Ne	UV glass				306,1		276,00
	50 mm Standard	5UN/V	80014309	Ne	UV glass	40	30	318,5	320,2		270,00
	50 mm PE coded	5UN/V-P	80014310	Ne	UV glass				385,6		296,00
	50 mm PE AAnalyst coded	5UN/V-A	80014613	Ne	UV glass						323,00
Ytterbium	37 mm Standard	3UNX/Yb	80014311	Ne	UV glass	15	12	398,8	246,4	D	328,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Yb-SH	80031543	Ne	UV glass						328,00
	37 mm Thermo-Unicam coded	3UNX/Yb-U	80014313	Ne	UV glass				267,2		341,00
	37 mm Varian coded	3UNX/Yb-V	80014312	Ne	UV glass				346,5		341,00
	50 mm Standard	5UN/Yb	80014314	Ne	UV glass	30	25	398,8			334,00
	50 mm PE coded	5UN/Yb-P	80014315	Ne	UV glass						361,00
	50 mm PE AAnalyst coded	5UN/Yb-A	80014616	Ne	UV glass						385,00

Heraeus Hollow Cathode Lamps

Element	Type	Model	Part No.	Gas	Window	max. Current (mA)	rec. Current (mA)	W/Length principal (nm)	W/Length alternate (nm)	PE-Leadout	Price
Yttrium	37 mm Standard	3BNX/Y	80014320	Ne	Borosilicate	15	12	410,2	362,1	C	244,00
	37 mm Smith-Hieftje (Self Reversal)	3BNX/Y-SH	80031541	Ne	Borosilicate						244,00
	37 mm Thermo-Unicam coded	3BNX/Y-U	80014322	Ne	Borosilicate				412,8		290,00
	37 mm Varian coded	3BNX/Y-V	80014321	Ne	Borosilicate				407,7		290,00
	50 mm Standard	5BN/Y	80014323	Ne	Borosilicate	30	25	410,2	414,8		283,00
	50 mm PE coded	5BN/Y-P	80014324	Ne	Borosilicate						309,00
	50 mm PE AAnalyst coded	5BN/Y-A	80014619	Ne	Borosilicate						334,00
Zinc	37 mm Standard	3QNY/Zn	80014325	Ne	Quartz	10	8	213,9	307,6	D	199,00
	37 mm Smith-Hieftje (Self Reversal)	3QNY/Zn-SH	80014328	Ne	Quartz						199,00
	37 mm Thermo-Unicam coded	3QNY/Zn-U	80014327	Ne	Quartz						244,00
	37 mm Varian coded	3QNY/Zn-V	80014326	Ne	Quartz						244,00
	50 mm Standard	5QN/Zn	80014329	Ne	Quartz	20	15	213,9			238,00
	50 mm PE coded	3QNY/Zn-P	80014330	Ne	Quartz						263,00
50 mm PE AAnalyst coded	3QNY/Zn-A	80014620	Ne	Quartz						290,00	
Zirconium	37 mm Standard	3UNX/Zr	80014331	Ne	UV glass	15	12	360,1	301,2	D	220,00
	37 mm Smith-Hieftje (Self Reversal)	3UNX/Zr-SH	80014334	Ne	UV glass				354,8		220,00
	37 mm Thermo-Unicam coded	3UNX/Zr-U	80014333	Ne	UV glass				352		263,00
	37 mm Varian coded	3UNX/Zr-V	80014332	Ne	UV glass				303,1		263,00
	50 mm Standard	5UN/Zr	80014335	Ne	UV glass	40	30	360,1	298,5		258,00
	50 mm PE coded	5UN/Zr-P	80014336	Ne	UV glass						283,00
	50 mm PE AAnalyst coded	5UN/Zr-A	80014624	Ne	UV glass						290,00
Deuterium	37 mm Standard	3QDY/D2	80014337	D2	Quartz	25		continuum		D	230,00
	37 mm Thermo-Unicam coded	3QDY/D2-U	80018125	D2	Quartz						258,00
	37 mm Varian coded	3QDY/D2-V	80018126	D2	Quartz						258,00

Heraeus Two-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Aluminium	+Ca	37 mm Standard	3QNY/Al/Ca	80014625	10	8	C	263,00
		50 mm Standard	5QN/Al/Ca	80014626	20	15		328,00
	+Mg	37 mm Standard	3QNY/Al/Mg	80014627	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Al/Mg-U	80014628				323,00
		50 mm Standard	5QN/Al/Mg	80014629	20	15		328,00
	+Si	37 mm Standard	3QNY/Al/Si	80014630	15	12	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Al/Si-U	80014631				302,00
		50 mm Standard	5QN/Al/Si	80014632	20	16		328,00
	+Ti	37 mm Standard	3QNY/Al/Ti	80014660	15	12	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Al/Ti-U	80014661				323,00
		50 mm Standard	5QN/Al/Ti	80014662	20	16		328,00
	Barium	+Sr	37 mm Standard	3QNY/Ba/Sr	80014663	15	12	C
37 mm Thermo-Unicam coded			3QNY/Ba/Sr-U	80014664				323,00
50 mm Standard		5QN/Ba/Sr	80014665	15	12		328,00	
Cadmium	+Zn	37 mm Standard	3QNY/Cd/Zn	80014666	8	6	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cd/Zn-U	80014667				323,00
		50 mm Standard	5QN/Cd/Zn	80014668	8	6		328,00
Calcium	+Ba	37 mm Standard	3QNY/Ca/Ba	80014669	15	12	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Ca/Ba-U	80014670				323,00
		50 mm Standard	5QN/Ca/Ba	80014671	15	12		328,00
	+Mg	37 mm Standard	3QNY/Ca/Mg	80014672	6	5	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Ca/Mg-U	80014673				323,00
		37 mm Varian coded	3QNY/Ca/Mg-V	80018174				323,00
		50 mm Standard	5QN/Ca/Mg	80014674	20	15		328,00
		50 mm PE coded	5QN/Ca/Mg-P	80014675				417,00
		50 mm PE coded AAnalyst	5QN/Ca/Mg-A	80018673				456,00
	+Si	37 mm Standard	3QNY/Ca/Si	80014676	15	12	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Ca/Si-U	80018175				323,00
		50 mm Standard	5QN/Ca/Si	80014679	20	15		328,00
	+Sr	37 mm Standard	3QNY/Ca/Sr	80014680	15	12	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Ca/Sr-U	80014681				323,00
		50 mm Standard	5QN/Ca/Sr	80014682	15	12		328,00
	+Zn	37 mm Standard	3QNY/Ca/Zn	80014683	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Ca/Zn-U	80014684				323,00
		50 mm Standard	5QN/Ca/Zn	80014685	20	15		328,00
		50 mm PE coded	5QN/Ca/Zn-P	80014686				417,00
		50 mm PE coded AAnalyst	5QN/Ca/Zn-A	80018674				456,00

Heraeus Two-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Chromium	+Co	37 mm Standard	3QNY/Cr/Co	80014688	10	8	C	263,00
		50 mm Standard	5QN/Cr/Co	80014689	30	25		328,00
	+Cu	37 mm Standard	3QNY/Cr/Cu	80014710	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cr/Cu-U	80014711				323,00
		50 mm Standard	5QN/Cr/Cu	80014712	30	25		328,00
	+Fe	37 mm Standard	3QNY/Cr/Fe	80014713	10	8	C	263,00
		50 mm Standard	5QN/Cr/Fe	80014714	30	25		328,00
	+Mn	37 mm Standard	3QNY/Cr/Mn	80014716	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cr/Mn-U	80014717				323,00
		50 mm Standard	5QN/Cr/Mn	80014718	30	25		328,00
	+Mo	37 mm Standard	3QNY/Cr/Mo	80014719	15	12	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cr/Mo-U	80014720				323,00
		50 mm Standard	5QN/Cr/Mo	80014721	30	25		328,00
	+Ni	37 mm Standard	3QNY/Cr/Ni	80014722	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cr/Ni-U	80014723				323,00
50 mm Standard		5QN/Cr/Ni	80014724	30	25		328,00	
Cobalt	+Cu	37 mm Standard	3QNY/Co/Cu	80014725	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Co/Cu-U	80014726				323,00
		50 mm Standard	5QN/Co/Cu	80014727	30	25		328,00
	+Fe	37 mm Standard	3QNY/Co/Fe	80014728	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Co/Fe-U	80014729				323,00
		50 mm Standard	5QN/Co/Fe	80014730	30	25		328,00
	+Mn	37 mm Standard	3QNY/Co/Mn	80014731	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Co/Mn-U	80014732				323,00
		50 mm Standard	5QN/Co/Mn	80014733	30	25		328,00
	+Mo	37 mm Standard	3QNY/Co/Mo	80014734	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Co/Mo-U	80014735				323,00
		50 mm Standard	5QN/Co/Mo	80014736	30	25		328,00
	+Ni	37 mm Standard	3QNY/Co/Ni	80014737	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Co/Ni-U	80014738				323,00
		50 mm Standard	5QN/Co/Ni	80014739	30	25		328,00

Heraeus Two-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Copper	+Fe	37 mm Standard	3QNY/Cu/Fe	80014740	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Fe-U	80014741				323,00
		50 mm Standard	5QN/Cu/Fe	80014742	30	25		328,00
	+Mn	37 mm Standard	3QNY/Cu/Mn	80014743	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Mn-U	80014744				323,00
		50 mm Standard	5QN/Cu/Mn	80014745	30	25		328,00
	+Mo	37 mm Thermo-Unicam	3QNY/Cu/Mo	80014746	10	8	C	263,00
		50 mm Standard	5QN/Cu/Mo	80014747	30	25		328,00
	+Ni	37 mm Standard	3QNY/Cu/Ni	80014748	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Ni-U	80014749				323,00
		50 mm Standard	5QN/Cu/Ni	80014750	30	25		328,00
	+Zn	37 mm Standard	3QNY/Cu/Zn	80014751	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Zn-U	80014753				323,00
		37 mm Varian coded	3QNY/Cu/Zn-V	80014752				323,00
		50 mm Standard	5QN/Cu/Zn	80014754	20	15		328,00
Gold	+Cu	37 mm Standard	3QNY/Au/Cu	80014755	10	8	C	302,00
		37 mm Thermo-Unicam coded	3QNY/Au/Cu-U	80014756				361,00
		50 mm Standard	5QN/Au/Cu	80014757	15	12		366,00
	+Ni	37 mm Standard	3QNY/Au/Ni	80014758	10	8	C	302,00
		37 mm Thermo-Unicam coded	3QNY/Au/Ni-U	80014759				361,00
		50 mm Standard	5QN/Au/Ni	80014760	15	12		366,00
	+Pt	37 mm Standard	3QNY/Au/Pt	80014761	10	8	C	328,00
		37 mm Thermo-Unicam coded	3QNY/Au/Pt-U	80014762				385,00
		50 mm Standard	5QN/Au/Pt	80014763	15	12		405,00
	+Ag	37 mm Standard	3QNY/Au/Ag	80014810	10	8	C	302,00
		37 mm Thermo-Unicam coded	3QNY/Au/A-U	80014811				361,00
		50 mm Standard	5QN/Au/Ag	80014812	20	15		366,00
50 mm PE coded		5QN/Au/Ag-P	80014813				456,00	
	50 mm PE coded AAnalyst	5QN/Au/Ag-A	80018659				495,00	
Iron	+Mn	37 mm Standard	3QNY/Fe/Mn	80014814	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Fe/Mn-U	80014815				323,00
		50 mm Standard	5QN/Fe/Mn	80014816	30	25		328,00
	+Mo	37 mm Standard	3QNY/Fe/Mo	80014817	10	8	C	263,00
		50 mm Standard	5QN/Fe/Mo	80014818	30	25		328,00
	+Ni	37 mm Standard	3QNY/Fe/Ni	80014819	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Fe/Ni-U	80014820				323,00
		50 mm Standard	5QN/Fe/Ni	80014821	30	25		328,00
	+Zn	37 mm Standard	3QNY/Fe/Zn	80014822	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Fe/Zn-U	80014823				323,00
		50 mm Standard	5QN/Fe/Zn	80014824	20	15		328,00

Heraeus Two-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Magnesium	+Si	37 mm Standard	3QNY/Mg/Si	80014825	15	12	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Mg/Si-U	80014826				323,00
		50 mm Standard	5QN/Mg/Si	80014827	20	15		328,00
	+Zn	37 mm Standard	3QNY/Mg/Zn	80018278				263,00
		50 mm Standard	5QN/Mg/Zn	80018758				328,00
Manganese	+Mo	37 mm Standard	3QNY/Mn/Mo	80014828	10	8	C	263,00
		50 mm Standard	5QN/Mn/Mo	80014829	30	25		328,00
	+Ni	37 mm Standard	3QNY/Mn/Ni	80014840	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Mn/Ni-U	80014841				323,00
		50 mm Standard	5QN/Mn/Ni	80014842	30	25		328,00
	+Zn	37 mm Standard	3QNY/Mn/Zn	80014844	10	8	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Mn/Zn-U	80014847				323,00
		50 mm Standard	5QN/Mn/Zn	80014848	20	15		328,00
Platinum	+Ag	37 mm Standard	3QNY/Pt/Ag	80014849	10	8	C	302,00
		37 mm Thermo-Unicam coded	3QNY/Pt/Ag-U	80014850				323,00
		50 mm Standard	5QN/Pt/Ag	80014851	15	12		366,00
Silicon	+Ti	37 mm Standard	3QNY/Si/Ti	80014852	15	12	C	263,00
		37 mm Thermo-Unicam coded	3QNY/Si/Ti-U	80014853				323,00
		50 mm Standard	5QN/Si/Ti	80014854	20	16		328,00
Silver	+Cr	37 mm Standard	3QNY/Ag/Cr	80014855	10	8	C	277,00
		37 mm Thermo-Unicam coded	3QNY/Ag/Cr-U	80014856				323,00
		50 mm Standard	5QN/Ag/Cr	80014857	20	16		328,00
	+Cu	37 mm Standard	3QNY/Ag/Cu	80014858	10	8	C	277,00
		37 mm Thermo-Unicam coded	3QNY/Ag/Cu-U	80014859				323,00
		50 mm Standard	5QN/Ag/Cu	80014860	25	16		328,00
Sodium	+K	37 mm Standard	3UNX/Na/K	80014861	8	6	C	263,00
		37 mm Thermo-Unicam coded	3UNX/Na/K-U	80014862				323,00
		37 mm Varian coded	3UNX/Na/K-V	80014863				323,00
		50 mm Standard	5UN/Na/K	80014864	12	10		328,00
		50 mm PE coded	5UN/Na/K-P	80014865				417,00
		50 mm PE coded AAnalyst	5UN/Na/K-A	80018771				456,00

Heraeus Three-Element Hollow Cathode Lamps

Element		Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price
Aluminium	+Ca+Mg	37 mm Standard	3QNY/Al/Ca/Mg	80014866	10	8	C	264,00
		50 mm Standard	5QN/Al/Ca/Mg	80014867	20	15		309,00
		50 mm PE coded	5QN/Al/Ca/Mg-P	80014868				340,00
		50 mm PE coded AAnalyst	5QN/Al/Ca/Mg-A	80018650				402,00
	+Si+Ti	37 mm Standard	3QNY/Al/Si/Ti	80014869	15	12	C	264,00
		37 mm Thermo-Unicam coded	3QNY/Al/Si/Ti-U	80014870				279,00
50 mm Standard		5QN/Al/Si/Ti	80014871	20	16		309,00	
Antimony	+As+Bi	37 mm Standard	3QNY/Sb/As/Bi	80014872	15	12	C	264,00
		50 mm Standard	5QN/Sb/As/Bi	80014873	20	16		309,00
Arsenic	+Se+Te	37 mm Standard	3QNY/As/Se/Te	80014874	10	10	C	264,00
		50 mm Standard	5QN/As/Se/Te	80014875	15	15		309,00
Calcium	+Ba+Sr	37 mm Standard	3QNY/Ca/Ba/Sr	80014876	15	12	C	264,00
		37 mm Thermo-Unicam coded	3QNY/Ca/Ba/Sr-U	80014877				279,00
		50 mm Standard	5QN/Ca/Ba/Sr	80014878	20	15		309,00
	+Mg+Si	37 mm Standard	3QNY/Ca/Mg/Si	80014879	15	12	C	264,00
		37 mm Thermo-Unicam coded	3QNY/Ca/Mg/Si-U	80014880				279,00
		50 mm Standard	5QN/Ca/Mg/Si	80014881	20	15		309,00
	+Mg+Zn	37 mm Standard	3QNY/Ca/Mg/Zn	80014882	10	8	C	264,00
		50 mm Standard	5QN/Ca/Mg/Zn	80014884	20	20		309,00
		50 mm PE coded	5QN/Ca/Mg/Zn-P	80014885				324,00
		50 mm PE coded AAnalyst	5QN/Ca/Mg/Zn-A	80018671				386,00
Chromium	+Co+Cu	37 mm Standard	3QNY/Cr/Co/Cu	80018205	10	8	C	264,00
		50 mm Standard	5QN/Cr/Co/Cu	80018698	30	25		309,00
	+Co+Fe	37 mm Standard	3QNY/Cr/Co/Fe	80018216	10	8	C	264,00
		50 mm Standard	5QN/Cr/Co/Fe	80018711	30	25		309,00
	+Co+Mn	37 mm Standard	3QNY/Cr/Co/Mn	80018220	10	8	C	264,00
		50 mm Standard	5QN/Cr/Co/Mn	80018715	30	25		309,00
	+Co+Ni	37 mm Standard	3QNY/Cr/Co/Ni	80018223	10	8	C	264,00
		50 mm Standard	5QN/Cr/Co/Ni	80018717	30	25		309,00
	+Cu+Fe	37 mm Standard	3QNY/Cr/Cu/Fe	80018224	10	8	C	264,00
		50 mm Standard	5QN/Cr/Cu/Fe	80018718	30	25		309,00
	+Cu+Mn	37 mm Standard	3QNY/Cr/Cu/Mn	80018229	10	8	C	264,00
		50 mm Standard	5QN/Cr/Cu/Mn	80018725	30	25		309,00
	+Cu+Ni	37 mm Standard	3QNY/Cr/Cu/Ni	80018233	10	8	C	264,00
		37 mm Thermo-Unicam coded	3QNY/Cr/Cu/Ni-U	80018235				279,00
		50 mm Standard	5QN/Cr/Cu/Ni	80018728	30	25		309,00
	+Fe+Mn	37 mm Standard	3QNY/Cr/Fe/Mn	80018236	10	8	C	264,00
		50 mm Standard	5QN/Cr/Fe/Mn	80018732	30	25		309,00
	+Fe+Ni	37 mm Standard	3QNY/Cr/Fe/Ni	80018239	10	8	C	264,00
		50 mm Standard	5QN/Cr/Fe/Ni	80018735	30	25		309,00
	+Mn+Ni	37 mm Standard	3QNY/Cr/Mn/Ni	80018241	10	8	C	264,00
50 mm Standard		5QN/Cr/Mn/Ni	80018737	30	25		309,00	

Heraeus Three-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Cobalt	+Cu+Fe	37 mm Standard	3QNY/Co/Cu/Fe	80018177	10	8	C	264,00
		37 mm Thermo-Unicam coded	3QNY/Co/Cu/Fe-U	80018184				279,00
		50 mm Standard	5QN/Co/Cu/Fe	80018677	30	25		309,00
	+Cu+Mn	37 mm Standard	3QNY/Co/Cu/Mn	80018185	10	8	C	264,00
		50 mm Standard	5QN/Co/Cu/Mn	80018685	30	25		309,00
	+Mn+Ni	37 mm Standard	3QNY/Co/Mn/Ni	80018199	10	8	C	264,00
		37 mm Thermo-Unicam coded	3QNY/Co/Mn/Ni-U	80018200				279,00
		50 mm Standard	5QN/Co/Mn/Ni	80018696	30	25		309,00
	Copper	+Fe+Mn	37 mm Standard	3QNY/Cu/Fe/Mn	80018245	10	8	C
37 mm Thermo-Unicam coded			3QNY/Cu/Fe/Mn-U	80020173				241,00
+Fe+Mo		37 mm Standard	3QNY/Cu/Fe/Mo	80018251				241,00
		50 mm Standard	5QN/Cu/Fe/Mo	80018744				241,00
+Fe+Ni		37 mm Standard	3QNY/Cu/Fe/Ni	80018252	10	8	C	241,00
		50 mm Standard	5QN/Cu/Fe/Ni	80018745	30	25		241,00
+Fe+Zn		37 mm Standard	3QNY/Cu/Fe/Zn	80018254	10	8	C	241,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Fe/Zn-U	80018256				241,00
		50 mm Standard	5QN/Cu/Fe/Zn	80018749	20	15		241,00
+Mn+Ni		37 mm Standard	3QNY/Cu/Mn/Ni	80018258	10	8	C	241,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Mn/Ni-U	80018259				241,00
		50 mm Standard	5QN/Cu/Mn/Ni	80018751	30	25		241,00
+Mn+Zn		37 mm Standard	3QNY/Cu/Mn/Zn	80018260	10	8	C	241,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Mn/Zn-U	80018261				241,00
		50 mm Standard	5QN/Cu/Mn/Zn	80018752	20	15		241,00
Gold	+Cu+Ni	37 mm Standard	3QNY/Au/Cu/Ni	80018152	10	8	C	328,00
		37 mm Thermo-Unicam coded	3QNY/Au/Cu/Ni-U	80018153				346,00
		50 mm Standard	5QN/Au/Cu/Ni	80018660	15	12		377,00
	+Pt+Ag	37 mm Standard	3QNY/Au/Pt/Ag	80018155	10	8	C	415,00
		37 mm Thermo-Unicam coded	3QNY/Au/Pt/Ag-U	80018156				415,00
		50 mm Standard	5QN/Au/Pt/Ag	80018661	15	12		434,00
Iron	+Mn+Ni	37 mm Standard	3QNY/Fe/Mn/Ni	80018237	10	8	C	264,00
		37 mm Thermo-Unicam coded	3QNY/Fe/Mn/Ni-U	80018267				279,00
		50 mm Standard	5QN/Fe/Mn/Ni	80018733	30	25		309,00
	+Mn+Zn	37 mm Standard	3QNY/Fe/Mn/Zn	80018268	10	8	C	264,00
		37 mm Thermo-Unicam coded	3QNY/Fe/Mn/Zn-U	80018269				279,00
		50 mm Standard	5QN/Fe/Mn/Zn	80018756	20	15		309,00

Heraeus Three-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Molybdenum	+Cr+Co	37 mm Standard	3QNY/Mo/Cr/Co	80018222	10	8	C	264,00
		50 mm Standard	5QN/Mo/Cr/Co	80018676	30	25		309,00
	+Cr+Cu	37 mm Standard	3QNY/Mo/Cr/Cu	80018232	10	8	C	264,00
		50 mm Standard	5QN/Mo/Cr/Cu	80018727	30	25		309,00
	+Cr+Fe	37 mm Standard	3QNY/Mo/Cr/Fe	80018238	10	8	C	264,00
		50 mm Standard	5QN/Mo/Cr/Fe	80018734	30	25		309,00
	+Cr+Mn	37 mm Standard	3QNY/Mo/Cr/Mn	80018240	10	8	C	231,00
		50 mm Standard	5QN/Mo/Cr/Mn	80018736	30	25		309,00
	+Co+Fe	37 mm Standard	3QNY/Mo/Co/Fe	80018191	10	8	C	264,00
		50 mm Standard	5QN/Mo/Co/Fe	80018693	30	25		309,00
	+Co+Cu	37 mm Standard	3QNY/Mo/Co/Cu	80018189	10	8	C	256,00
		50 mm Standard	5QN/Mo/Co/Cu	80018688	30	25		309,00
	+Co+Mn	37 mm Standard	3QNY/Mo/Co/Mn	80018198	10	8	C	264,00
		50 mm Standard	5QN/Mo/Co/Mn	80018695	30	25		309,00
	+Cu+Fe	37 mm Standard	3QNY/Mo/Cu/Fe	80018251	10	8	C	264,00
		50 mm Standard	5QN/Mo/Cu/Fe	80018744	30	25		309,00
	+Cu+Mn	37 mm Standard	3QNY/Mo/Cu/Mn	80018257	10	8	C	264,00
		50 mm Standard	5QN/Mo/Cu/Mn	80018750	30	25		309,00
	+Fe+Mn	37 mm Standard	3QNY/Mo/Fe/Mn	80018265	10	8	C	264,00
		50 mm Standard	5QN/Mo/Fe/Mn	80018754	30	25		309,00
Silver	+Cr+Cu	37 mm Standard	3QNY/Ag/Cr/Cu	80018128	10	8	C	316,00
		37 mm Thermo-Unicam coded	3QNY/Ag/Cr/Cu-U	80018129				331,00
		50 mm Standard	5QN/Ag/Cr/Cu	80018642	25	20		347,00
	+Cu+Ni	37 mm Standard	3QNY/Ag/Cu/Ni	80018130	10	8	C	316,00
		50 mm Standard	5QN/Ag/Cu/Ni	80018643	25	20		347,00

Heraeus Four-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Aluminium	+ Ca+Fe+Mg	37 mm Standard	3QNY/Al/Ca/Fe/Mg	80018135	15	12	C	311,00
		50 mm Standard	5QN/Al/Ca/Fe/Mg	80018647	20	16		364,00
	+ Ca+Fe+Ti	50 mm Standard	5QN/Al/Cu/Fe/Ti	80018653				364,00
	+ Ca+Li+Mg	37 mm Standard	3QNY/Al/Ca/Li/Mg	80018136	10	8	C	311,00
		50 mm Standard	5QN/Al/Ca/Li/Mg	80018648	20	16		364,00
Barium	+ Ca+Mg+Sr	37 mm Standard	3QNY/Ba/Ca/Mg/Sr	80018161	15	12	C	311,00
		50 mm Standard	5QN/Ba/Ca/Mg/Sr	80018664	20	15		364,00
Chromium	+ Co+Cu+Fe	37 mm Standard	3QNY/Cr/Co/Cu/Fe	80018206	10	8	C	311,00
		50 mm Standard	5QN/Cr/Co/Cu/Fe	80018699	30	25		364,00
	+ Co+Cu+Mn	37 mm Standard	3QNY/Cr/Co/Cu/Mn	80018213	10	8	C	311,00
		50 mm Standard	5QN/Cr/Co/Cu/Mn	80018706	30	25		364,00
	+ Co+Cu+Ni	37 mm Standard	3QNY/Cr/Co/Cu/Ni	80018215	10	8	C	311,00
		50 mm Standard	5QN/Cr/Co/Cu/Ni	80018717	30	25		364,00
	+ Co+Fe+Mn	37 mm Standard	3QNY/Cr/Co/Fe/Mn	80018217	10	8	C	311,00
		50 mm Standard	5QN/Cr/Co/Fe/Mn	80018712	30	25		364,00
	+ Co+Fe+Ni	37 mm Standard	3QNY/Cr/Co/Fe/Ni	80018219	10	8	C	311,00
		50 mm Standard	5QN/Cr/Co/Fe/Ni	80018714	30	25		364,00
	+ Co+Mn+Ni	37 mm Standard	3QNY/Cr/Co/Mn/Ni	80018221	10	8	C	311,00
		50 mm Standard	5QN/Cr/Co/Mn/Ni	80018716	30	25		364,00
	+ Cu+Fe+Mn	37 mm Standard	3QNY/Cr/Cu/Fe/Mn	80018225	10	8	C	311,00
		50 mm Standard	5QN/Cr/Cu/Fe/Mn	80018719	30	25		364,00
	+ Cu+Fe+Ni	37 mm Standard	3QNY/Cr/Cu/Fe/Ni	80018227	10	8	C	311,00
		50 mm Standard	5QN/Cr/Cu/Fe/Ni	80018721	30	25		364,00
	+ Cu+Mn+Ni	37 mm Standard	3QNY/Cr/Cu/Mn/Ni	80018230	10	8	C	311,00
		37 mm Thermo-Unicam coded	3QNY/Cr/Cu/Mn/Ni-U	80018231				328,00
		50 mm Standard	5QN/Cr/Cu/Mn/Ni	80018726	30	25		364,00
	+ Cu+Ni+Ag	37 mm Standard	3QNY/Cr/Cu/Ni/Ag	80018234	10	8	C	371,00
	50 mm Standard	5QN/Cr/Cu/Ni/Ag	80018729	30	25		421,00	
	50 mm PE coded	5QN/Cr/Cu/Ni/Ag-P	80018731				438,00	
	50 mm PE coded AAnalyst	5QN/Cr/Cu/Ni/Ag-A	80018730				504,00	
+ Fe+Mn+Ni	37 mm Standard	3QNY/Cr/Fe/Mn/Ni	80018237	10	8	C	311,00	
	50 mm Standard	5QN/Cr/Fe/Mn/Ni	80018733	20	16		364,00	
Cobalt	+ Cu+Fe+Mn	37 mm Standard	3QNY/Co/Cu/Fe/Mn	80018178	10	8	C	311,00
		37 mm Thermo-Unicam coded	3QNY/Co/Cu/Fe/Mn-U	80018181				328,00
		50 mm Standard	5QN/Co/Cu/Fe/Mn	80018678	30	25		364,00
	+ Cu+Fe+Ni	37 mm Standard	3QNY/Co/Cu/Fe/Ni	80018183	10	8	C	311,00
		50 mm Standard	5QN/Co/Cu/Fe/Ni	80018684	30	25		364,00
	+ Cu+Mn+Ni	37 mm Standard	3QNY/Co/Cu/Mn/Ni	80018187	10	8	C	311,00
		37 mm Thermo-Unicam coded	3QNY/Co/Cu/Mn/Ni-U	80018188				328,00
		50 mm Standard	5QN/Co/Cu/Mn/Ni	80018687	30	25		364,00
	+ Fe+Mn+Ni	37 mm Standard	3QNY/Co/Fe/Mn/Ni	80018193	10	8	C	311,00
		37 mm Thermo-Unicam coded	3QNY/Co/Fe/Mn/Ni-U	80018194				328,00
	50 mm Standard	5QN/Co/Fe/Mn/Ni	80018692	30	25		364,00	

Heraeus Four-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Copper	+ Fe+Mn+Ni	37 mm Standard	3QNY/Cu/Fe/Mn/Ni	80018247	10	8	C	311,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Fe/Mn/Ni-U	80018248				328,00
		50 mm Standard	5QN/Cu/Fe/Mn/Ni	80018740	30	25		364,00
	+ Fe+Mn+Zn	37 mm Standard	3QNY/Cu/Fe/Mn/Zn	80018249	10	8	C	311,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Fe/Mn/Zn-U	80018250				328,00
		50 mm Standard	5QN/Cu/Fe/Mn/Zn	80018741	20	15		364,00
		50 mm PE coded	5QN/Cu/Fe/Mn/Zn-P	80018743				438,00
		50 mm PE coded AAnalyst	5QN/Cu/Fe/Mn/Zn-A	80018742				465,00
	+ Fe+Ni+Ag	37 mm Standard	3QNY/Cu/Fe/Ni/Ag	80018253	10	8	C	311,00
		50 mm Standard	5QN/Cu/Fe/Ni/Ag	80018746	20	16		364,00
Molybdenum	+ Co+Cu+Fe	37 mm Standard	3QNY/Mo/Co/Cu/Fe	80018182	10	8	C	311,00
		50 mm Standard	5QN/Mo/Co/Cu/Fe	80018683	30	25		364,00
	+ Co+Cu+Mn	37 mm Standard	3QNY/Mo/Co/Cu/Mn	80018186	10	8	C	311,00
		50 mm Standard	5QN/Mo/Co/Cu/Mn	80018686	30	25		364,00
	+ Co+Fe+Mn	37 mm Standard	3QNY/Mo/Co/Fe/Mn	80018192	10	8	C	311,00
		50 mm Standard	5QN/Mo/Co/Fe/Mn	80018691	30	25		364,00
	+ Cu+Fe+Mn	37 mm Standard	3QNY/Mo/Cu/Fe/Mn	80018246	10	8	C	311,00
		50 mm Standard	5QN/Mo/Cu/Fe/Mn	80018739	30	25		364,00

Heraeus Five-Element Hollow Cathode Lamps

Element		Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price
Chromium	+ Co+Cu+Fe+Mn	37 mm Standard	3QNY/Cr/Co/Cu/Fe/Mn	80018207	10	8	C	459,00
		50 mm Standard	5QN/Cr/Co/Cu/Fe/Mn	80018700	30	25		564,00
	+ Co+Cu+Fe+Ni	37 mm Standard	3QNY/Cr/Co/Cu/Fe/Ni	80018212	10	8	C	459,00
		50 mm Standard	5QN/Cr/Co/Cu/Fe/Ni	80018705	30	25		472,00
	+ Co+Cu+Mn+Ni	37 mm Standard	3QNY/Cr/Co/Cu/Mn/Ni	80018214	10	8	C	580,00
		50 mm Standard	5QN/Cr/Co/Cu/Mn/Ni	80018707	30	25		472,00
		50 mm PE coded	5QN/Cr/Co/Cu/Mn/Ni-P	80018709				580,00
		50 mm PE coded AAnalyst	5QN/Cr/Co/Cu/Mn/Ni-A	80018708				472,00
	+ Co+Fe+Mn+Ni	37 mm Standard	3QNY/Cr/Co/Fe/Mn/Ni	80018218	10	8	C	580,00
		50 mm Standard	5QN/Cr/Co/Fe/Mn/Ni	80018713	30	25		606,00
	+ Cu+Fe+Mn+Ni	37 mm Standard	3QNY/Cr/Cu/Fe/Mn/Ni	80018226	10	8	C	716,00
		50 mm Standard	5QN/Cr/Cu/Fe/Mn/Ni	80018720	30	25		472,00
	+ Cu+Fe+Ni+Ag	37 mm Standard	3QNY/Cr/Cu/Fe/Ni/Ag	80018228	10	8	C	580,00
		50 mm Standard	5QN/Cr/Cu/Fe/Ni/Ag	80018722	20	16		472,00
		50 mm PE coded	5QN/Cr/Cu/Fe/Ni/Ag-P	80018724				580,00
		50 mm PE coded AAnalyst	5QN/Cr/Cu/Fe/Ni/Ag-A	80018723				472,00
Cobalt	+ Cu+Fe+Mn+Mo	37 mm Standard	3QNY/Co/Cu/Fe/Mn/Mo	80018179	10	8	C	580,00
		50 mm Standard	5QN/Co/Cu/Fe/Mn/Mo	80018679	30	25		606,00
		50 mm PE coded	5QN/Co/Cu/Fe/Mn/Mo-P	80018681				716,00
		50 mm PE coded AAnalyst	5QN/Co/Cu/Fe/Mn/Mo-A	80018680				472,00
	+ Cu+Fe+Mn+Ni	37 mm Standard	3QNY/Co/Cu/Fe/Mn/Ni	80018180	10	8	C	580,00
		50 mm Standard	5QN/Co/Cu/Fe/Mn/Ni	80018682	30	25		606,00

Heraeus Six-Element Hollow Cathode Lamps

Element		Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price
Chromium	+Co+Cu+Fe+Mn+Mo	37 mm Standard	3QNY/Cr/Co/Cu/Fe/Mn/Mo	80018208	10	8	C	472,00
		50 mm Standard	5QN/Cr/Co/Cu/Fe/Mn/Mo	80018701	30	25		580,00
	+Co+Cu+Fe+Mn+Ni	37 mm Standard	3QNY/Cr/Co/Cu/Fe/Mn/Ni	80018209	10	8	C	472,00
		37 mm Varian coded	3QNY/Cr/Co/Cu/Fe/Mn/Ni-V	80018211				499,00
		50 mm Standard	5QN/Cr/Co/Cu/Fe/Mn/Ni	80018702	30	25		580,00
		50 mm PE coded	5QN/Cr/Co/Cu/Fe/Mn/Ni-P	80018704				606,00
		50 mm PE coded AAnalyst	5QN/Cr/Co/Cu/Fe/Mn/Ni-A	80018703				716,00

Heraeus Seven-Element Hollow Cathode Lamps

Element		Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price
Aluminium	+Ca+Cu+Fe+Mg+Si+Zn	37 mm Standard	3QNY/Al/Ca/Cu/Fe/Mg/Si/Zn	80018133	15	15	C	461,00
		50 mm Standard	5QN/Al/Ca/Cu/Fe/Mg/Si/Zn	80018644	30	25		567,00
		50 mm PE coded	5QN/Al/Ca/Cu/Fe/Mg/Si/Zn-P	80018646				592,00
		50 mm PE coded AAnalyst	5QN/Al/Ca/Cu/Fe/Mg/Si/Zn-A	80018645				698,00