

## Heraeus Hollow Cathode Lamps

Element	Type	Model	Part No.	Gas	Window	Max. Current (mA)	Rec. Current (mA)	Primary W/Length (nm)	PE-Leadout	Price
Aluminium	37 mm Standard	3QNY/Al	80082101	Ne	quartz	10	8	309,3	C	201,00
	37 mm Standard (Low Current)	3QNYAL VC	80030969	Ne	quartz	10	6	309,3		329,00
	37 mm Thermo-Unicam coded	3QNY/Al-U	80013894	Ne	quartz	10	8	309,3		237,00
	37 mm Varian coded	3QNY/Al-V	80079414	Ne	quartz	10	8	309,3		237,00
	50 mm Standard	5QN/Al	80013896	Ne	quartz	30	25	309,3		256,00
	50 mm PE AAnalyst coded	5QN/Al-A	80079714	Ne	quartz	30	25	309,3		347,00
Antimony	37mm Standard	3QNY/Sb	80079136	Ne	quartz	15	12	217,6	D	237,00
	37 mm Standard (Low Current)	3QNYSB VC	80032593	Ne	quartz	10	4	217,6		395,00
	37mm Thermo-Unicam coded	3QNY/Sb-U	80082004	Ne	quartz	15	12	217,6		273,00
	37mm Varian coded	3QNY/Sb-V	80013899	Ne	quartz	15	12	217,6		273,00
	50 mm Standard	5QN/Sb	80013922	Ne	quartz	25	20	217,6		328,00
	50 mm PE AAnalyst coded	5QN/Sb-A	80014366	Ne	quartz	25	20	217,6		420,00
Arsenic	37 mm Standard	3QNY/As	80013924	Ne	quartz	12	10	193,7	C	294,00
	37 mm Standard (Low Current)	3QNYAS VC	80032596	Ne	quartz	10	6	193,7		495,00
	37 mm Thermo-Unicam coded	3QNY/As-U	80080535	Ne	quartz	12	10	193,7		328,00
	37 mm Varian coded	3QNY/As-V	80013925	Ne	quartz	12	10	193,7		328,00
	50 mm Standard	5QN/As	80013928	Ne	quartz	18	18	193,7		384,00
	50 mm PE AAnalyst coded	5QN/As-A	80089705	Ne	quartz	18	18	193,7		475,00
Barium	37 mm Standard	3BAX/Ba	80079290	Ar	borosilicate	15	12	553,5	C	256,00
	37 mm Standard (Low Current)	3BAXBA VC	80032599	Ar	borosilicate	15	6	553,5		329,00
	37 mm Thermo-Unicam coded	3BAX/Ba-U	80121520	Ar	borosilicate	15	12	553,5		294,00
	37 mm Varian coded	3BAX/Ba-V	80013931	Ar	borosilicate	15	12	553,5		294,00
	50 mm PE AAnalyst coded	5BA/Ba-A	80137581	Ar	borosilicate	30	25	553,5		384,00
	Beryllium	37 mm Standard	3QNY/Be	80082720	Ne	quartz	15	12	234,9	
37 mm Standard (Low Current)		3QNYBE VC	80032612	Ne	quartz	15	6	234,9		349,00
37 mm Thermo-Unicam coded		3QNY/Be-U	80127974	Ne	quartz	15	12	234,9		438,00
50 mm PE AAnalyst coded		5QN/Be-A	80137582	Ne	quartz	30	20	234,9		549,00
Bismuth	37 mm Standard	3QNY/Bi	80122308	Ne	quartz	12	10	223,1	B	237,00
	37 mm Standard (Low Current)	3QNYBI VC	80032615	Ne	quartz	15	3	223,1		329,00
	37 mm Thermo-Unicam coded	3QNY/Bi-U	80013944	Ne	quartz	12	10	223,1		273,00
	37 mm Varian coded	3QNY/Bi-V	80013943	Ne	quartz	12	10	223,1		273,00
	50 mm Standard	5QN/Bi	80013946	Ne	quartz	15	12	223,1		310,00
	50 mm PE AAnalyst coded	5QN/Bi-A	80146333	Ne	quartz	15	12	223,1		402,00
Boron	37 mm Standard	3QNY/B	80078838	Ne	quartz	15	12	249,8	D	256,00
	37 mm Standard (Low Current)	3QNYB VC	80032617	Ne	quartz	15	8	249,8		329,00
	37 mm Thermo-Unicam coded	3QNY/B-U	80013960	Ne	quartz	15	12	249,8		294,00
	37 mm Varian coded	3QNY/B-V	80013949	Ne	quartz	15	12	249,8		294,00
	50 mm PE AAnalyst coded	5QN/B-A	80080151	Ne	quartz	30	25	249,8		402,00

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Element	Type	Model	Part No.	Gas	Window	Max. Current (mA)	Rec. Current (mA)	Primary W/Length (nm)	PE-Leadout	Price
Cadmium	37 mm Standard	3QNY/Cd	80079625	Ne	quartz	8	6	228,8	C	256,00
	37 mm Standard (Low Current)	3QNYCD VC	80031000	Ne	quartz	10	2	228,8		329,00
	37 mm Thermo-Unicam coded	3QNY/Cd-U	80079250	Ne	quartz	8	6	228,8		294,00
	37 mm Varian coded	3QNY/Cd-V	80079602	Ne	quartz	8	6	228,8		294,00
	50 mm Standard	5QN/Cd	80013968	Ne	quartz	10	6	228,8		347,00
	50 mm PE AAnalyst coded	5QN/Cd-A	80079460	Ne	quartz	10	6	228,8		438,00
Caesium	37 mm Standard	3BNX/Cs	80078736	Ne	borosilicate	10	8	852,1	B	330,00
	37 mm Standard (Low Current)	3BNXCS VC	80032624	Ne	borosilicate	8	6	852,1		659,00
	37 mm Varian coded	3BNX/Cs-V	80013971	Ne	borosilicate	10	8	852,1		310,00
Calcium	37 mm Standard	3QNY/Ca	80078792	Ne	quartz	6	5	422,7	C	237,00
	37 mm Standard (Low Current)	3QNYCA VC	80031002	Ne	quartz	10	3	422,7		329,00
	37 mm Thermo-Unicam coded	3QNY/Ca-U	80121516	Ne	quartz	6	5	422,7		273,00
	37 mm Varian coded	3QNY/Ca-V	80013977	Ne	quartz	6	5	422,7		273,00
	50 mm Standard	5QN/Ca	80013980	Ne	quartz	10	8	422,7		273,00
	50 mm PE AAnalyst coded	5QN/Ca-A	80079633	Ne	quartz	10	8	422,7		365,00
Chromium	37 mm Standard	3QNY/Cr	80079203	Ne	quartz	12	10	357,9	C	237,00
	37 mm Standard (Low Current)	3QNYCR VC	80032625	Ne	quartz	10	4	357,9		329,00
	37 mm Thermo-Unicam coded	3QNY/Cr-U	80079296	Ne	quartz	12	10	357,9		273,00
	37 mm Varian coded	3QNY/Cr-V	80013987	Ne	quartz	12	10	357,9		273,00
	50 mm Standard	5QN/Cr	80013990	Ne	quartz	12	10	357,9		273,00
	50 mm PE AAnalyst coded	5QN/Cr-A	80079913	Ne	quartz	12	10	357,9		365,00
Cobalt	37 mm Standard	3QNY/Co	80079715	Ne	quartz	15	12	240,7	D	273,00
	37 mm Standard (Low Current)	3QNYCO VC	80032100	Ne	quartz	15	4	240,7		329,00
	37 mm Thermo-Unicam coded	3QNY/Co-U	80120227	Ne	quartz	15	12	240,7		310,00
	37 mm Varian coded	3QNY/Co-V	80013993	Ne	quartz	15	12	240,7		310,00
	50 mm Standard	5QN/Co	80013996	Ne	quartz	40	30	240,7		347,00
	50 mm PE AAnalyst coded	5QN/Co-A	80093758	Ne	quartz	40	30	240,7		438,00
Copper	37 mm Standard	3QNY/Cu	80078757	Ne	quartz	5	4	324,8	C	237,00
	37 mm Standard (Low Current)	3QNYCU VC	80032078	Ne	quartz	8	3	324,8		329,00
	37 mm Thermo-Unicam coded	3QNY/Cu-U	80088053	Ne	quartz	5	4	324,8		273,00
	37 mm Varian coded	3QNY/Cu-V	80079601	Ne	quartz	5	4	324,8		273,00
	50 mm Standard	5QN/Cu	80014003	Ne	quartz	20	15	324,8		273,00
	50 mm PE AAnalyst coded	5QN/Cu-A	80079239	Ne	quartz	20	15	324,8		365,00
Dysprosium	37 mm Standard	3BNX/Dy	80014005	Ne	borosilicate	15	12	421,2	C	273,00
Erbium	37 mm Standard	3BNX/Er	80014011	Ne	borosilicate	15	12	400,8	C	273,00
	37 mm Varian coded	3BNX/Er-V	80014012	Ne	borosilicate	15	12	400,8		310,00
Europium	37 mm Standard	3BAX/Eu	80014016	Ar	borosilicate	12	10	459,4	B	273,00
	37 mm Varian coded	3BAX/Eu-V	80014017	Ar	borosilicate	12	10	459,4		310,00
Gadolinium	37 mm Standard	3QNY/Gd	80014021	Ne	quartz	15	12	368,4	B	273,00
	50 mm Standard	5QN/Gd	80014024	Ne	quartz	30	25	368,4		328,00
Gallium	37 mm Standard	3QNY/Ga	80014026	Ne	quartz	15	12	287,4	C	273,00
	37 mm Varian coded	3QNY/Ga-V	80014027	Ne	quartz	15	12	287,4		310,00

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Germanium	37 mm Standard	3QNY/Ge	80014032	Ne	quartz	15	12	265,2	C	519,00
	37 mm Standard (Low Current)	3QNYGE VC	80032648	Ne	quartz	10	6	265,2		329,00
Gold	37 mm Standard	3QNY/Au	80079331	Ne	quartz	10	8	242,8	C	384,00
	37 mm Standard (Low Current)	3QNYAU VC	80030968	Ne	quartz	8	4	242,8		460,00
	37 mm Thermo-Unicam coded	3QNY/Au-U	80079627	Ne	quartz	10	8	242,8		420,00
	37 mm Varian coded	3QNY/Au-V	80013956	Ne	quartz	10	8	242,8		420,00
	50 mm PE AAnalyst coded	5QN/Au-A	80079576	Ne	quartz	20	10	242,8		566,00
Holmium	37 mm Standard	3BNX/Ho	80166582	Ne	borosilicate	15	12	410,4	D	519,00
	50 mm PE AAnalyst coded	5BN/Ho-A	80014473	Ne	borosilicate	30	25	410,4		519,00
Indium	37 mm Standard	3QNY/In	80014051	Ne	quartz	10	8	303,9	C	402,00
	37 mm Thermo-Unicam coded	3QNY/In-U	80121796	Ne	quartz	10	8	303,9		438,00
Iridium	37 mm Standard	3QNY/Ir	80161014	Ne	quartz	15	12	208,9	C	377,00
Iron	37 mm Standard	3QNY/Fe	80079706	Ne	quartz	15	12	248,3	D	225,00
	37 mm Standard (Low Current)	3QNYFE VC	80032664	Ne	quartz	15	4	248,3		329,00
	37 mm Standard	3QAY/Fe	80018117	Ar	quartz	15	12	248,3		219,00
	37 mm Thermo-Unicam coded	3QNY/Fe-U	80083524	Ne	quartz	15	12	248,3		256,00
	37 mm Varian coded	3QNY/Fe-V	80014064	Ne	quartz	15	12	248,3		256,00
	50 mm Standard	5QN/Fe	80079240	Ne	quartz	30	30	248,3		294,00
	50 mm PE AAnalyst coded	5QN/Fe-A	80079573	Ne	quartz	30	30	248,3		384,00
Lanthanum	37 mm Standard	3QAY/La	80083665	Ar	quartz	15	12	550,1	B	273,00
	37 mm Standard (Low Current)	3QAYLA VC	80078809	Ar	quartz	10	6	550,1		329,00
Lead	37 mm Standard	3QNY/Pb	80079139	Ne	quartz	10	8	217	C	237,00
	37 mm Standard (Low Current)	3QNYPB VC	80032076	Ne	quartz	10	2	217		329,00
	37 mm Thermo-Unicam coded	3QNY/Pb-U	80079261	Ne	quartz	10	8	217		273,00
	37 mm Varian coded	3QNY/Pb-V	80079403	Ne	quartz	10	8	217		273,00
	50 mm PE AAnalyst coded	5QN/Pb-A	80088925	Ne	quartz	15	12	217		420,00
Lithium	37 mm Standard	3BAX/Li	80014093	Ar	borosilicate	10	8	670,8	C	201,00
	37 mm Standard (Low Current)	3BAXLI VC	80032513	Ar	borosilicate	10	2	670,8		329,00
	37 mm Thermo-Unicam coded	3BAX/Li-U	80121521	Ar	borosilicate	10	8	670,8		237,00
	37 mm Varian coded	3BAX/Li-V	80014094	Ar	borosilicate	10	8	670,8		237,00
Magnesium	37 mm Standard	3QNY/Mg	80079282	Ne	quartz	6	5	285,2	B	237,00
	37 mm Standard (Low Current)	3QNYMG VC	80032682	Ne	quartz	10	2	285,2		329,00
	37 mm Thermo-Unicam coded	3QNY/Mg-U	80118829	Ne	quartz	6	5	285,2		273,00
	37 mm Varian coded	3QNY/Mg-V	80122312	Ne	quartz	6	5	285,2		273,00
	50 mm PE AAnalyst coded	5QN/Mg-A	80078755	Ne	quartz	10	6	285,2		402,00
Manganese	37 mm Standard	3QNY/Mn	80079599	Ne	quartz	12	10	279,5	D	237,00
	37 mm Standard (Low Current)	3QNYMN VC	80032685	Ne	quartz	10	3	279,5		329,00
	37 mm Thermo-Unicam coded	3QNY/Mn-U	80083147	Ne	quartz	12	10	279,5		273,00
	37 mm Varian coded	3QNY/Mn-V	80080258	Ne	quartz	12	10	279,5		273,00
	50 mm Standard	5QN/Mn	80014116	Ne	quartz	30	20	279,5		310,00
	50 mm PE AAnalyst coded	5QN/Mn-A	80079626	Ne	quartz	30	20	279,5		402,00

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Mercury	37 mm Standard	3QNY/Hg	80081768	Ne	quartz	6	5	253,6	D	294,00
	37 mm Standard (Low Current)	3QNYHG VC	80032687	Ne	quartz	10	3	253,6		495,00
	37 mm Thermo-Unicam coded	3QNY/Hg-U	80014120	Ne	quartz	6	5	253,6		328,00
	37 mm Varian coded	3QNY/Hg-V	80087775	Ne	quartz	6	5	253,6		328,00
	50 mm PE AAnalyst coded	5QN/Hg-A	80089704	Ne	quartz	8	6	253,6		420,00
Molybdenum	37 mm Standard	3QNY/Mo	80082264	Ne	quartz	15	12	313,3	C	237,00
	37 mm Standard (Low Current)	3QNYMO VC	80031009	Ne	quartz	10	6	313,3		329,00
	37 mm Thermo-Unicam coded	3QNY/Mo-U	80137869	Ne	quartz	15	12	313,3		273,00
	37 mm Varian coded	3QNY/Mo-V	80079570	Ne	quartz	15	12	313,3		273,00
Neodymium	37 mm Standard	3BNX/Nd	80079138	Ne	borosilicate	15	12	492,5	D	273,00
Nickel	37 mm Standard	3QNY/Ni	80079629	Ne	quartz	15	12	232	D	237,00
	37 mm Standard (Low Current)	3QNYNI VC	80031005	Ne	quartz	10	4	232		329,00
	37 mm Thermo-Unicam coded	3QNY/Ni-U	80079286	Ne	quartz	15	12	232		273,00
	37 mm Varian coded	3QNY/Ni-V	80083653	Ne	quartz	15	12	232		273,00
	50 mm Standard	5QN/Ni	80125181	Ne	quartz	30	25	232		310,00
	50 mm PE AAnalyst coded	5QN/Ni-A	80014521	Ne	quartz	30	25	232		402,00
Niobium	37 mm Standard	3QAY/Nb	80014140	Ar	quartz	15	12	334,4	D	273,00
Palladium	37 mm Standard	3QNY/Pd	80079334	Ne	quartz	15	12	247,6	D	310,00
	37 mm Standard (Low Current)	3QNYPD VC	80032079	Ne	quartz	10	6	247,6		428,00
	37 mm Thermo-Unicam coded	3QNY/Pd-U	80120883	Ne	quartz	15	12	247,6		347,00
	37 mm Varian coded	3QNY/Pd-V	80114510	Ne	quartz	15	12	247,6		347,00
	50 mm PE AAnalyst coded	5QN/Pd-A	80079639	Ne	quartz	25	20	247,6		457,00
Phosphorus	37 mm Standard	3QNY/P	80079563	Ne	quartz	10	8	213,6	C	402,00
	37 mm Standard (Low Current)	3QNY P VC	80032907	Ne	quartz	15	6	213,6		480,00
	50 mm PE AAnalyst coded	5QN/P-A	80014542	Ne	quartz	25	20	213,6		528,00
Platinum	37 mm Standard	3QNY/Pt	80079642	Ne	quartz	15	12	265,9	C	457,00
	37 mm Standard (Low Current)	3QNYPT VC	80032920	Ne	quartz	10	5	265,9		460,00
	37 mm Thermo-Unicam coded	3QNY/Pt-U	80137842	Ne	quartz	15	12	265,9		494,00
	50 mm PE AAnalyst coded	5QN/Pt-A	80014548	Ne	quartz	25	20	265,9		639,00
Potassium	37 mm Standard	3BNX/K	80079067	Ne	borosilicate	8	6	766,5	C	237,00
	37 mm Standard (Low Current)	3BNXK VC	80032879	Ne	borosilicate	8	2	766,5		329,00
	37 mm Thermo-Unicam coded	3BNX/K-U	80079405	Ne	borosilicate	8	6	766,5		273,00
	50 mm Standard	5BN/K	80014175	Ne	borosilicate	12	10	766,5		256,00
	50 mm PE AAnalyst coded	5BN/K-A	80078811	Ne	borosilicate	12	10	766,5		347,00
Praseodymium	37 mm Standard	3BNX/Pr	80078761	Ne	borosilicate	15	12	495,1	C	741,00
Rhenium	37 mm Standard	3QAY/Re	80078741	Ar	quartz	15	12	346,1	C	815,00
Rhodium	37 mm Standard	3QAY/Rh	80078784	Ar	quartz	15	12	343,5	D	549,00
	37 mm Standard (Low Current)	3QAYRH VC	80032957	Ar	quartz	6	6	343,5		741,00
	37 mm Thermo-Unicam coded	3QAY/Rh-U	80130039	Ar	quartz	15	12	343,5		585,00
Rubidium	37 mm Standard	3BNX/Rb	80014194	Ne	borosilicate	10	8	780	C	519,00
Ruthenium	50 mm PE AAnalyst coded	5QN/Ru-A	80014570	Ne	quartz	30	25	349,9		457,00
Scandium	37 mm Standard	3QNY/Sc	80014209	Ne	quartz	15	12	391,2	C	565,00

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Selenium	37 mm Standard	3QNY/Se	80079417	Ne	quartz	15	15	196	C	294,00
	37 mm Standard (Low Current)	3QNYSE VC	80031014	Ne	quartz	10	5	196		329,00
	37 mm Thermo-Unicam coded	3QNY/Se-U	80127975	Ne	quartz	15	15	196		328,00
	37 mm Varian coded	3QNY/Se-V	80014215	Ne	quartz	15	15	196		328,00
	50 mm PE AAnalyst coded	5QN/Se-A	80089706	Ne	quartz	15	15	196		457,00
Silicon	37 mm Standard	3QNY/Si	80078833	Ne	quartz	15	12	251,6	D	256,00
	37 mm Standard (Low Current)	3QNYSI VC	80032917	Ne	quartz	15	8	251,6		313,00
	37 mm Thermo-Unicam coded	3QNY/Si-U	80014222	Ne	quartz	15	12	251,6		294,00
	37 mm Varian coded	3QNY/Si-V	80014221	Ne	quartz	15	12	251,6		294,00
	50 mm Standard	5QN/Si	80014224	Ne	quartz	40	35	251,6		328,00
	50 mm PE AAnalyst coded	5QN/Si-A	80120954	Ne	quartz	40	35	251,6		420,00
Silver	37 mm Standard	3QAY/Ag	80079344	Ar	quartz	4	3	328,1	D	273,00
	37 mm Standard (Low Current)	3QNYAG VC	80033000	Ne	quartz	5	2	328,1		395,00
	37 mm Thermo-Unicam coded	3QAY/Ag-U	80121001	Ar	quartz	4	3	328,1		310,00
	37 mm Varian coded	3QAY/Ag-V	80079600	Ar	quartz	4	3	328,1		310,00
	50 mm PE AAnalyst coded	5QA/Ag-A	80088944	Ar	quartz	10	5	328,1		402,00
Sodium	37 mm Standard	3QNY/Na	80079205	Ne	quartz	8	6	589	C	237,00
	37 mm Standard (Low Current)	3QNYNA VC	80033003	Ne	quartz	10	2	589		329,00
	37 mm Thermo-Unicam coded	3QNY/Na-U	80118828	Ne	quartz	8	6	589		273,00
	37 mm Varian coded	3QNY/Na-V	80122311	Ne	quartz	8	6	589		273,00
	50 mm Standard	5QN/Na	80014236	Ne	quartz	10	8	589		294,00
	50 mm PE AAnalyst coded	5QN/Na-A	80081374	Ne	quartz	10	8	589		384,00
Strontium	37 mm Standard	3BAX/Sr	80084539	Ar	borosilicate	12	12	460,7	C	237,00
	37 mm Standard (Low Current)	3BAXSR VC	80033006	Ar	borosilicate	10	4	460,7		329,00
	37 mm Thermo-Unicam coded	3BAX/Sr-U	80121522	Ar	borosilicate	12	12	460,7		273,00
Tantalum	37 mm Thermo-Unicam coded	3QNY/Ta-U	80149647	Ne	quartz	15	12	271,5		273,00
Tellurium	37 mm Standard	3QNY/Te	80014249	Ne	quartz	15	15	214,3	B	273,00
	37 mm Standard (Low Current)	3QNYTE VC	80033021	Ne	quartz	10	4	214,3		395,00
	50 mm Standard	5QN/Te	80014253	Ne	quartz	30	30	214,3		365,00
Thallium	37 mm Standard	3QNY/Tl	80122309	Ne	quartz	10	8	276,8	C	328,00
	37 mm Standard (Low Current)	3QNYTL VC	80033027	Ne	quartz	10	3	276,8		395,00
	37 mm Thermo-Unicam coded	3QNY-Tl-U	80142183	Ne	quartz	10	8	276,8		365,00
	37 mm Varian coded	3QNY/Tl-V	80018339	Ne	quartz	10	8	276,8		365,00
	50 mm Standard	5QN/Tl	80018772	Ne	quartz	10	8	276,8		424,00
	50 mm PE AAnalyst coded	5QN/Tl-A	80125347	Ne	quartz	10	8	276,8		420,00
Thulium	37 mm Standard	3QNY/Tm	80081550	Ne	quartz	15	12	371,8	C	575,00
Tin	37 mm Standard	3QNY/Sn	80079094	Ne	quartz	15	12	224,6	C	256,00
	37 mm Standard (Low Current)	3QNYSN VC	80033036	Ne	quartz	15	6	224,6		329,00
	37 mm Thermo-Unicam coded	3QNY/Sn-U	80118637	Ne	quartz	15	12	224,6		294,00
	50 mm Standard	5QN/Sn	80129454	Ne	quartz	30	30	224,6		365,00

## Heraeus Hollow Cathode Lamps

Element	Type	Model	Part No.	Gas	Window	Max. Current (mA)	Rec. Current (mA)	Primary W/Length (nm)	PE-Leadout	Price
Titanium	37 mm Standard	3QNY/Ti	80079579	Ne	quartz	15	12	365,4	C	219,00
	37 mm Standard (Low Current)	3QNYTI VC	80033040	Ne	quartz	8	6	365,4		329,00
	37 mm Thermo-Unicam coded	3QNY/Ti-U	80121518	Ne	quartz	15	12	365,4		256,00
	37 mm Varian coded	3QNY/Ti-V	80166774	Ne	quartz	15	12	365,4		256,00
Tungsten	37 mm Standard (Low Current)	3QNYW VC	80033043	Ne	quartz	15	8	255,1		395,00
	37 mm Thermo-Unicam coded	3QNY/W-U	80165073	Ne	quartz	15	12	255,1		273,00
	50 mm PE AAnalyst coded	5QN/W-A	80014609	Ne	quartz	40	30	255,1		438,00
Vanadium	37 mm Standard	3QNY/V	80014304	Ne	quartz	15	12	318,5	D	310,00
	37 mm Standard (Low Current)	3QNYV VC	80033014	Ne	quartz	8	6	318,5		329,00
	37 mm Thermo-Unicam coded	3QNY/V-U	80149645	Ne	quartz	15	12	318,5		347,00
	37 mm Varian coded	3QNY/V-V	80080259	Ne	quartz	15	12	318,5		347,00
	50 mm PE AAnalyst coded	5QN/V-A	80128803	Ne	quartz	40	30	318,5		402,00
Ytterbium	50 mm Standard	5QNY/Yb	80014314	Ne	quartz	30	25	398,8		457,00
Zinc	37 mm Standard	3QNY/Zn	80079407	Ne	quartz	10	8	213,9	D	219,00
	37 mm Standard (Low Current)	3QNYZN VC	80032077	Ne	quartz	8	3	213,9		329,00
	37 mm Thermo-Unicam coded	3QNY/Zn-U	80080534	Ne	quartz	10	8	213,9		256,00
	37 mm Varian coded	3QNY/Zn-V	80079571	Ne	quartz	10	8	213,9		256,00
	50 mm Standard	5QN/Zn	80121003	Ne	quartz	20	15	213,9		310,00
	50 mm PE AAnalyst coded	3QNY/Zn-A	80079415	Ne	quartz	20	15	213,9		402,00
Zirconium	37 mm Standard	3QNY/Zr	80166518	Ne	quartz	15	12	360,1	D	237,00
	37 mm Thermo-Unicam coded	3QNY/Zr-U	80121519	Ne	quartz	15	12	360,1		273,00
	37 mm Varian coded	3QNY/Zr-V	80014332	Ne	quartz	15	12	360,1		273,00
Deuterium	37 mm Standard	3QDY/D2	80079598	D2	quartz	25		continuum	D	328,00
	37 mm Thermo-Unicam coded	3QDY/D2-U	80080142	D2	quartz	25		continuum		365,00

## Heraeus Two-Element Hollow Cathode Lamps

Element		Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Aluminium	+Si	37 mm Standard	3QNY/Al/Si	80014630	15	12	C	310,00	
Cadmium	+Zn	37 mm Standard	3QNY/Cd/Zn	80014666	8	6	C	365,00	
Calcium	+Mg	37 mm Standard	3QNY/Ca/Mg	80083203	6	5	C	310,00	
		37 mm Thermo-Unicam coded	3QNY/Ca/Mg-U	80014673	6	5		328,00	
		37 mm Varian coded	3QNY/Ca/Mg-V	80018174	6	5		328,00	
Chromium	+Ni	37 mm Standard	3QNY/Cr/Ni	80166776	10	8	C	310,00	
		37 mm Thermo-Unicam coded	3QNY/Cr/Ni-U	80166775	10	8		328,00	
Cobalt	+Fe	37 mm Thermo-Unicam coded	3QNY/Co/Fe-U	80014729	10	8		328,00	
		50 mm Standard	5QN/Co/Fe	80014730	30	25		384,00	
	+Ni	37 mm Standard	3QNY/Co/Ni	80014737	10	8	C	310,00	
Copper	+Fe	37 mm Standard	3QNY/Cu/Fe	80081555	10	8	C	310,00	
		+Ni	37 mm Standard	3QNY/Cu/Ni	80014748	10	8	C	310,00
		+Zn	37 mm Standard	3QNY/Cu/Zn	80014751	10	8	C	310,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Zn-U	80014753	10	8		328,00	
Gold	+Cu	37 mm Standard	3QNY/Au/Cu	80014755	10	8	C	365,00	
		+Ag	37 mm Standard	3QNY/Au/Ag	80014810	10	8	C	420,00
		50 mm Standard	5QN/Au/Ag	80166419	20	15		494,00	
Iron	+Mn	37 mm Thermo-Unicam coded	3QNY/Fe/Mn-U	80166804	10	8		328,00	
		+Ni	37 mm Standard	3QNY/Fe/Ni	80014819	10	8	C	310,00
		+Zn	37 mm Standard	3QNY/Fe/Zn	80014822	10	8	C	310,00
Platinum	+Ag	50 mm Standard	5QN/Pt/Ag	80014851	15	12		511,00	
		+Cr	37 mm Standard	3QNY/Pt/Cr	80059566	n/s	n/s		428,00
Sodium	+K	37 mm Standard	3QNY/Na/K	80014861	8	6	C	310,00	
		37 mm Thermo-Unicam coded	3QNY/Na/K-U	80014862	8	6		328,00	
		37 mm Varian coded	3QNY/Na/K-V	80014863	8	6		328,00	
		50 mm Standard	5QN/Na/K	80014864	12	10		384,00	
		50 mm PE AAnalyst coded	5QN/Na/K-A	80018771	12	10		457,00	

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## Heraeus Three-Element Hollow Cathode Lamps

Element	Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price	
Calcium	+Ba+Sr	37 mm Standard	3QNY/Ca/Ba/Sr	80014876	15	12	C	310,00
Chromium	+Co+Ni	37 mm Standard	3QNY/Cr/Co/Ni	80018223	10	8	C	310,00
	+Cu+Ni	50 mm Standard	5QN/Cr/Cu/Ni	80018728	30	25		384,00
Copper	+Fe+Mn	37 mm Standard	3QNY/Cu/Fe/Mn	80018245	10	8	C	310,00
		37 mm Thermo-Unicam coded	3QNY/Cu/Fe/Mn-U	80020173	10	8		350,00
	+Fe+Ni	50 mm Standard	5QN/Cu/Fe/Ni	80018745	30	25		384,00
Gold	+Cu+Ni	37 mm Standard	3QNY/Au/Cu/Ni	80018152	10	8	C	420,00
Molybdenum	+Cr+Co	37 mm Standard	3QNY/Mo/Cr/Co	80018222	10	8	C	310,00



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## Heraeus Four-Element Hollow Cathode Lamps

Element		Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price
Barium	+ Ca+Mg+Sr	37 mm Standard	3QNY/Ba/Ca/Mg/Sr	80081552	15	12	C	582,00
Chromium	+ Co+Cu+Ni	37 mm Standard	3QNY/Cr/Co/Cu/Ni	80018215	10	8	C	451,00
	+ Cu+Mn+Ni	37 mm Standard	3QNY/Cr/Cu/Mn/Ni	80018230	10	8	C	426,00
		37 mm Thermo-Unicam coded	3QNY/Cr/Cu/Mn/Ni-U	80018231	10	8		451,00
	+ Fe+Mn+Ni	37 mm Standard	3QNY/Cr/Fe/Mn/Ni	80018237	10	8	C	476,00
		50 mm Standard	5QN/Cr/Fe/Mn/Ni	80018733	20	16		503,00
Cobalt	+ Cu+Fe+Mn	37 mm Thermo-Unicam coded	3QNY/Co/Cu/Fe/Mn-U	80018181	10	8		475,00
Copper	+ Fe+Mn+Ni	37 mm Standard	3QNY/Cu/Fe/Mn/Ni	80018247	10	8	C	476,00
	+ Fe+Mn+Zn	37 mm Standard	3QNY/Cu/Fe/Mn/Zn	80018249	10	8	C	503,00
		50 mm PE AAnalyst coded	5QN/Cu/Fe/Mn/Zn-A	80166742	20	15		582,00
	+Zn+Pb+Cd	37 mm Standard	3QNY/Cu/Zn/Pb/Cd	80081510	10	8		582,00

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## Heraeus Five-Element Hollow Cathode Lamps

Element		Type	Model	Part No.	max. Current (mA)	rec. Current (mA)	PE-Leadout	Price
Chromium	+ Co+Cu+Mn+Ni	37 mm Standard	3QNY/Cr/Co/Cu/Mn/Ni	80018214	10	8	C	476,00
	+ Cu+Fe+Ni+Ag	37 mm Standard	3QNY/Cr/Cu/Fe/Ni/Ag	80018228	10	8	C	635,00

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## 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+Ni	37 mm Standard	3QNY/Cr/Co/Cu/Fe/Mn/Ni	80079298	10	8	C	476,00
		37 mm Varian coded	3QNY/Cr/Co/Cu/Fe/Mn/Ni-V	80018211	10	8		503,00
		50 mm Standard	5QN/Cr/Co/Cu/Fe/Mn/Ni	80018702	30	25		582,00
		50 mm PE AAnalyst coded	5QN/Cr/Co/Cu/Fe/Mn/Ni-A	80166773	30	25		688,00

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## 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	80166741	15	15	C	528,00
		50 mm PE AAnalyst coded	5QN/Al/Ca/Cu/Fe/Mg/Si/Zn-A	80018645	30	25		742,00