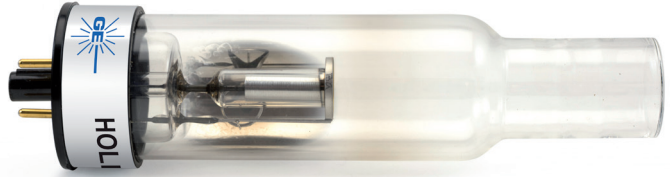




# Hollow Cathode Lamps - Operating Data Sheet

## 1.5inch (37mm) Diameter Lamps

Recommended operating currents are listed for each instrument model. Use of the recommended current will give you the optimum combination of performance and lamp life. If performance permits, operating at a lower current will prolong the life of your lamp



Element	Agilent/Varian	GBC	Thermo Fisher	Analytik Jena
	SpectrAA 5/10/30/40/100/200/300/400/600/ 640/800 SpectrAA-50/55 AA140 & AA240 AA240FS & AA280FS AA Duo Varian 30Z/40Z 300Z/400Z 640Z/800Z 55 B AA240Z & AA280z	SB-900 901/902/904/906/908/ 903/905/ 909/932/933/933B Prospector SensAA, Savant Zeeman, Savant AAS, Savant Z AAS, Sens Xplor AA Shimadzu 640/645/646/680 AA-6800 AA-6300 AA-6200 AA-700 Hitachi All models	All Models M Series S Series iCE 3300 3400 3500	NovAA 300, 350, 400 & 400P Zeeman ZEEnit 600/650 P/700 P
	mA	mA	mA	mA
Aluminium (Al)	10	10	10	6
Antimony (Sb)	5	10	10	7
Arsenic (As)	6	7	8	5
Barium (Ba)	15	15	15	6
Beryllium (Be)	6	10	10	5
Bismuth (Bi)	6	8	10	4
Boron (B)	10	18	20	8
Cadmium (Cd)	2	3	3	3
Calcium (Ca)	3	4	5	4
Cerium (Ce)	10	10	10	10
Cesium (Cs)	15	18	20	6
Chromium (Cr)	5	6	6	5
Cobalt (Co)	8	10	10	7
Copper (Cu)	3	4	4	3
Dysprosium (Dy)	18	18	18	18
Erbium (Er)	10	10	10	10
Europium (Eu)	10	12	12	12
Gadolinium (Gd)	15	18	18	18
Gallium (Ga)	4	5	5	3
Germanium (Ge)	4	5	5	4
Gold (Au)	3	5	5	5
Hafnium (Hf)	10	12	12	12
Holmium (Ho)	15	18	18	18
Indium (In)	3	5	5	3
Iridium (Ir)	4	18	5	3
Iron (Fe)	4	6	6	6
Lanthanum (La)	12	18	10	18
Lead (Pb)	3	4	4	3
Lithium (Li)	8	10	10	4
Lutetium (Lu)	15	10	10	10
Magnesium (Mg)	3	4	4	2
Manganese (Mn)	4	5	5	7

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	mA	mA	mA	mA
Mercury (Hg)	2	3	3	3
Molybdenum (Mo)	5	7	7	7
Neodymium (Nd)	12	18	18	18
Nickel (Ni)	3	5	5	5
Niobium (Nb)	15	18	18	18
Osmium (Os)	10	18	12	18
Palladium (Pd)	8	10	10	6
Phosphorus (P)	15 - 20	20	20	7
Platinum (Pt)	5	10	10	6
Potassium (K)	8	10	10	4
Praseodymium	10	12	12	12
Rhenium (Re)	8	18	15	15
Rhodium (Rh)	5	6	6	4
Rubidium (Rb)	8	10	10	6
Ruthenium (Ru)	8	10	10	10
Samarium (Sm)	8	10	10	10
Scandium (Sc)	8	10	10	10
Selenium (Se)	8	8	10	6
Silicon (Si)	10	12	14	7
Silver (Ag)	2	4	4	4
Sodium (Na)	4	5	5	3
Strontium (Sr)	8	10	10	6
Tantalum (Ta)	15	18	18	8
Tellurium (Te)	5	6	7	7
Terbium (Tb)	8	10	10	10
Thallium (Tl)	5	4	7	7
Thorium (Th)	8	6	10	8
Thulium (Tm)	14	18	18	18
Tin (Sn)	6	8	8	6
Titanium (Ti)	15	18	18	7
Tungsten (W)	15	18	18	8
Uranium (U)	15	18	18	8
Vanadium (V)	15	18	18	6
Ytterbium (Yb)	4	5	5	4
Yttrium (Y)	8	10	10	10
Zinc (Zn)	4	5	5	4
Zirconium (Zr)	15	18	18	7
Ca/Mg	5	5	5	3
Na/K	8	10	10	6
Cu/Zn	4	5	5	3
Cr/Co/Cu/Fe/Mn/Ni	6 - 10	10	10	6
Continuum (H2)		40		