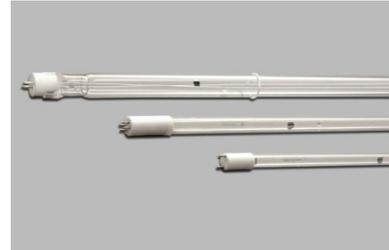


AMALGAM LAMPS



The most advance version of UV lamps for germicidal operation is the amalgam lamps. These lamps are in construction similar the Regular and HO UV lamps with one major difference: mercury in these lamps is present in form of an amalgam and not as pure mercury.

The amalgam chemistry is such that the pressure of mercury is significantly lower and is controlled in a narrow range. The amalgam is present as one or more spots on the lamp wall. These amalgam spots are bonded to on a circular gold spot coated on the quartz tube. Amalgam lamp diameter could be up to 40 mm with lamp current even higher than 4A.



During lamp operation amalgam warms and remains in a semi-molten condition, yet these lamps could be operated in vertical position. The main advantage of amalgam lamp is in high energy density (watt / cm) which could be as high as ten times the regular UV lamp, without any sacrifice of the conversion efficacy of electrical power to the UV output. High energy density makes them a perfect choice for very large installations of potable and waste water treatment plants.

Technical specifications of amalgam lamps we currently manufacture are as follow:

Amalgam Lamp							
Lamp Code / Description	Length	Electrical Parameter			UV O/P* μW/cm ²	Rated Life (Hrs)	Recommended Gear**
	BFL (mm)	Wattage (W)	Current (mA)	Voltage (V)			
GPHA842T5L	842	105	1200	95	448	10000	S004 A0030
GPHA842T6L	842	130	1800	72	480	10000	S004 A0030
GPHA1200T6L	1200	160	1800	90	510	10000	S004 A0030
GPHA1200T6L	1200	190	2100	90	550	10000	S004 A0030
GPHA1554T6L	1554	258	2000	128	630	10000	S004 A0031
GPHA1554T6L	1554	320	2100	150	750	10000	S004 A0031
GPHA1515T10L	1515	260	3800	74	670	10000	S004 A0032
GPHA1515T10L	1515	320	3800	85	810	10000	S004 A0032

- NOTE:** 1. BFL - Base Face Length
 2. Above electrical measurements are on magnetic ballast
 3. * UV measurements are at one meter
 4. ** All these ballasts are high Frequency (45kHz) electronic ballasts