

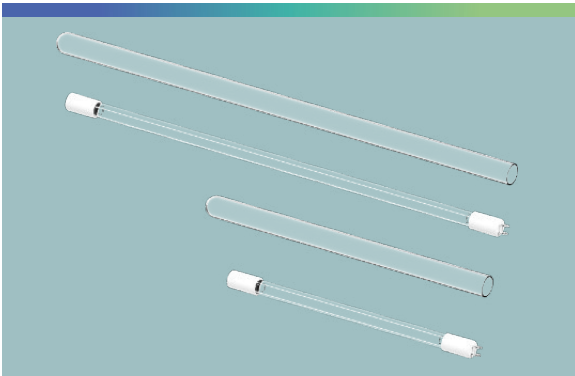


Ultraviolet radiation in the 200-300 nanometer (nm) range is extremely effective in killing microorganisms such as airborne and surface bacteria, viruses, yeasts and molds.

Aqualight® low-pressure, mercury-arc germicidal lamps are specially designed to produce the highest amounts of UV radiation - typically about 90% of the total rated energy is at 253.7nm. This radiation is very close to the peak of the germicidal effectiveness curve of 265nm, the most lethal wavelength to microorganisms. Our germicidal lamps are used extensively in air and water purification applications such as in the food and beverage

Advantages of Ultraviolet Radiation:

- Environmentally friendly, no dangerous chemicals to handle or store, no problems of overdosing
- Low initial capital cost and reduced operating expenses when compared with other technologies such as chemical processing
- Immediate treatment process, no need for holding tanks, long retention times
- No chemicals added to water supply; no by-products
- No change in taste, odor, pH, conductivity or the general chemistry of the water
- No handling of toxic chemicals, no need for specialized storage requirements
- Simplicity and ease of maintenance, periodic cleaning (if applicable) and annual lamp replacement

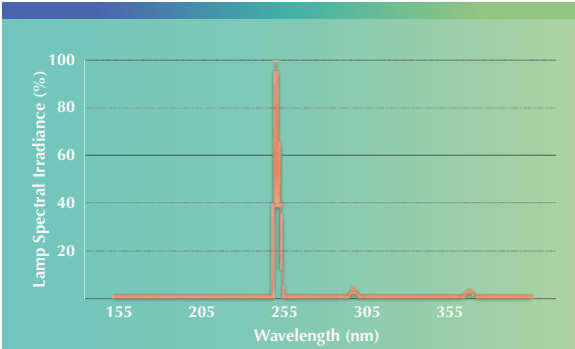
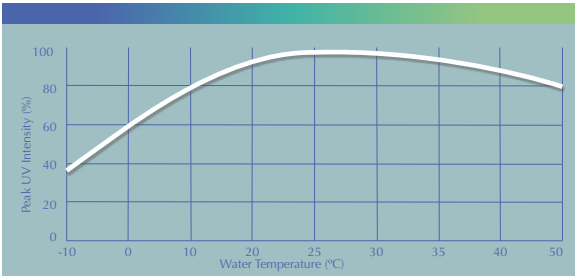


industry, medical applications, HVAC systems (Heating, Ventilating, and Air Conditioning), pharmaceutical and semiconductor sterilization applications. In addition, they are used in drinking water, waste water and ground water remediation.

Lamp tube current 800mA High Output (HO) germicidal lamps yield 1/3 to 2/3 more UV output than standard output 425mA lamps of the same length. High Output lamps are available in most of the common lamp lengths in use today. Custom designed lengths can also be supplied. High Output lamps offer the system designer unique opportunities to reduce the number of

lamps required to perform the function of the system and possibly reduce the footprint of the system, or increase the efficiency and capacity of an existing system while keeping the same footprint.

Ozone Action : "VH" germicidal lamps generate energy at 185nm in addition to the 253.7nm line. This UV emission produces abundant amounts of ozone in air. Ozone is an extremely active oxidizer. It destroys microorganisms on contact and acts as a deodorizer. One of its primary advantages is that it can be carried by air into places that the UV radiation cannot directly reach.



Lamp Part#	Power (watts)	Base Face to Base Face (mm)	Wavelength (nm)	Tube Current (mA)	Quartz Sleeve Part#	OD*ID*Length (mm)
GPH212T5L/4-LT	10	212	254	425	QS245	23*20*245
GPH287T5L/4-LT	14	287	254	425	QS331	23*20*331
GPH330T5L/4-LT	19	330	254	425	QS375	23*20*375
GPH505T5L/4-LT	28	505	254	425	QS535	23*20*535
GPH645T5L/4-LT	32	645	254	425	QS665	23*20*665
G36T5L/4-LT	39	843	254	425	QS890/QS900-BO	23*20*890/900
GHO310T5L/4-LT	35	310	254	800	QS340	23*20*340
GHO422T5L/4-LT	40	422	254	800	QS452	23*20*452
GHO512T5L/4-LT	50	512	254	800	QS542	23*20*542
GHO702T5L/4-LT	65	702	254	800	QS732	23*20*732
GHO36T5L/4-LT	80	843	254	800	QS890/QS900-BO	23*20*890/900
GHO1052T5L/4-LT	100	1052	254	800	QS1082	23*20*1082
GHO64T5L/4-LT	155	1554	254	800	QS1575-BO	23*20*1575
GPH330T5VH-LT	19	330	185	425	QS375	23*20*375
G36T5VH-LT	39	843	185	425	QS890/QS900-BO	23*20*890/900
GHO512T5VH-LT	50	512	185	800	QS542	23*20*542
GHO702T5VH-LT	65	702	185	800	QS732	23*20*732
GHO36T5VH-LT	80	843	185	800	QS890/QS900-BO	23*20*890/900
GHO64T5VH-LT	155	1554	185	800	QS1575-BO	23*20*1575
GPHA843T5/4-LT	105	843	254	1200	QS900-BO	23*20*900
GPHA1554T5/4-LT	190	1554	254	1200	QS1575-BO	23*20*1575
Lamp made by Light Sources, Inc. In Connecticut, USA						
USAL505T5L	27	505	254	425	QS535	535
USAL635T5L	32	635	254	425	QS665	665
USAL843T5L	41	843	254	425	QS890/QS900-BO	890/900
USAL512T5L-HO	55	512	254	800	QS542	542
USAL702T5L-HO	66	702	254	800	QS732	732
USAL846T5L-HO	90	846	254	800	QS890/QS900-BO	890/900
USAL1554T5L-HO	155	1554	254	800	QS1575-BO	1575
▶ T5 lamp tube (O.D. 15mm), 10,000 hours rated life						

