

Aqualight® UV Germicidal Lamp Quartz Sleeve

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.

Aqua Lighttech Limited 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 (see graph below). Our germicidal lamps are used extensively in air and water purification applications such as in the food and beverage 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.



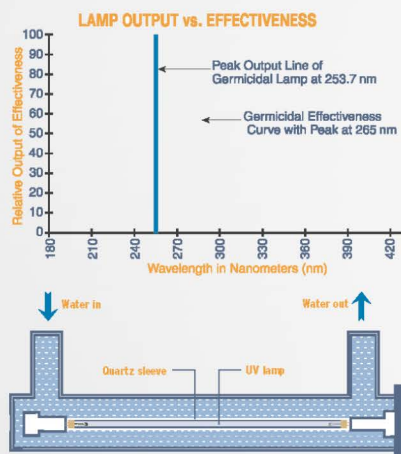
UV Lamp Part#	Power	BF to BF	Wavelength	Current	Quartz Sleeve Part#	Length	Model	Spring Part#
GPH212T5L/4-LT	10W	212mm	254nm	425mA	QS245	245mm	PV1/PV1T, PLT1	SPRING4506
GPH287T5L/4-LT	14W	287mm	254nm	425mA	QS331	331mm	PV2/PV2T/PTM2/PTM2S/ PLT2	SPRING4506
GPH330T5L/4-LT	19W	330mm	254nm	425mA	QS375	375mm	PV4/PV4T/PTM4/PTM4S/PLT4	SPRING4506
GPH505T5L/4-LT	28W	505mm	254nm	425mA	QS535	535mm	PV6/PV6T/PTM6/PTM6S/ PLT6	SPRING4506
GPH645T5L/4-LT	32W	645mm	254nm	425mA	QS665	665mm	PV8/PV8T/PTM8/PTM8S/ PLT8	SPRING3604
G36T5L/4-LT	39W	843mm	254nm	425mA	QS890	890mm	PV12/PV12T/PTM12/PTM12S/ PLT12.SLT	SPRING4506(NONE for SLT)
GHO422T5L/4-LT	40W	422mm	254nm	800mA	QS452	452mm	PV18T/PTM18/PTM18S	SPRING4506
GHO512T5L/4-LT	50W	512mm	254nm	800mA	QS542	542mm	PV24T/PTM24/PTM24S	SPRING4506
GHO702T5L/4-LT	65W	702mm	254nm	800mA	QS732	732mm	PV35T/PTM35/PTM35S	SPRING4506
GHO36T5L/4-LT	80W	843mm	254nm	800mA	QS890	890mm	PV42T/PTM42/PTM42S.SLT	SPRING4506(NONE for SLT)
GHO1052T5L/4-LT	100W	1052mm	254nm	800mA	QS1082	1082mm	PV52T/PTM52/PTM52S	SPRING4506
GHO64T5L/4-LT	155W	1554MM	254nm	800mA	QS1560	1560mm	SLT, SUV	NONE
GHO36T5VH-LT	87W	843mm	185nm	800mA	QS890	890mm	LTOC, PTOC	NONE
GHO64T5VH-LT	155W	1554MM	185nm	800mA	Qs1560	1560mm	PTOC	NONE

► Lamp tube diameter 15mm, 10,000 hours Rated Life



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 : Our "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. We design and manufacture lamps to produce various amounts of ozone to meet specific application requirements. "VH" lamps are typically used in the treatment of air, pool and spa water, T.O.C. (Total Organic Compound) reduction, and HVAC.



Advantages of UV--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
 - Highly compatible with other water and air treatment processes
- Germicidal applications

Part#	Description	Application	Photo
QSORING2821	Sealing O-ring, EPDM	All UV Systems	
QSWASHER3023	Protection Ring, Teflon	All UV Systems	
GSN4038	Gland Sealing Nut, Aluminum	All UV Systems	
ESN3038	Ended Sealing Nut, Aluminum	All UV Systems	
PSC5115	Mounting Clips, Plastic	Suit 2" (51mm) O.D. Chamber	
PSC6315	Mounting Clips, Plastic	Suit 2.5" (65mm) O.D. Chamber	
ALC6320	Mounting Clamps, Aluminum	Suit 2.5" (65mm) O.D. Chamber	
ALC8925	Mounting Clamps, Aluminum	Suit 3.5" (90mm) O.D. Chamber	
HM7472	Hours Meter	SLT, SUV, LTOC, PTOC,	
EF80220	Exhaust Fan	SLT, SUV, LTOC, PTOC,	
GLED-5V	Green LED, 5V	SLT, SUV, LTOC, PTOC,	