

# STER-L-RAY®

Germicidal Ultraviolet Lamps

**ATLANTIC**  **ULTRAVIOLET**

SINCE 1963

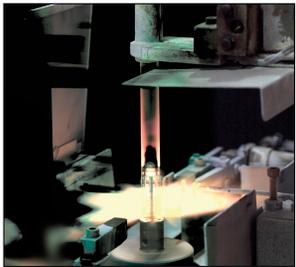
CORPORATION®

*Manufacturers / Engineers / Sales / Service*  
Germicidal Ultraviolet - Equipment & Lamps

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## ABOUT US

Since 1963, Atlantic Ultraviolet Corporation has pioneered the discovery and development of beneficial uses of ultraviolet energy. Over the years these efforts have led to the development of valuable, cost-effective and environmentally sound techniques and products now well-known and respected throughout the world.



Atlantic Ultraviolet's Application Specialists assist customers in the selection of germicidal lamps and equipment. Their specialized knowledge is a valuable resource in formulating effective and cost-conscious ultraviolet solutions. Extensive inventories and a dedicated staff enable Atlantic Ultraviolet to fulfill its commitment to provide fast deliveries and responsive customer service.

Continuing research and development maintains Atlantic Ultraviolet Corporation's leadership in applied ultraviolet technology. Exacting procedures and stringent quality control measures ensure products of consistently high quality. Engineering studies of product design and materials are conducted with an eye toward enhancing product usefulness and value. Existing and potential new products are subjected to rigorous test protocols in order to insure the highest standards of performance and reliability.



Production methods and equipment are continually reviewed and, where possible, upgraded to improve productivity and reduce cost. Products include ultraviolet water purifiers, germicidal ultraviolet lamps, ultraviolet product sanitation and disinfection equipment, room air sanitizers, air duct disinfection fixtures

and accessories (for application in HVAC systems), ozone generators and equipment, ultraviolet "blacklight" lamps and equipment (suitable for fluorescent analysis, inspection and display, etc.) and ultraviolet photochemical reactors.



## GENERAL INFORMATION

**STER-L-RAY®** Germicidal Ultraviolet Lamps (also referred to as UVC lamps) are short wave, low pressure tubes that produce ultraviolet wavelengths lethal to microorganisms. Atlantic Ultraviolet Corporation produces a variety of germicidal ultraviolet lamps in the USA. Most lamps are available in either low ozone (254 nanometer) or ozone producing types (185 nanometer). **STER-L-RAY®** Germicidal Ultraviolet Lamps and **Crystal Clear™** Quartz Sleeves are available in both standard and custom sizes. The lamps and quartz sleeves depicted represent the most common ones offered. Atlantic Ultraviolet Corporation also manufactures a wide variety of equivalent replacement lamps for most make and model UV equipment (old and new). Our Ultraviolet Application Specialists can help cross-reference the lamp or lamps you need and with our large inventories, most orders ship from stock.



### Wavelength

The nanometer (one billionth of a meter) is a unit of length used to describe ultraviolet wavelengths. Approximately 95% of the ultraviolet energy emitted from **STER-L-RAY®** germicidal lamps is at 254 nanometers, the region of germicidal effectiveness most destructive to bacteria, mold and virus.

### Ozone Producing Lamps

Ozone(O<sup>3</sup>) is a highly reactive form of oxygen and is useful in water purification, as a deodorizer and as a cleaning agent. Ultraviolet wavelengths shorter than 200 nanometers are capable of producing ozone from Oxygen(O<sup>2</sup>) in the air. **STER-L-RAY®** ozone lamps, in addition to emitting germicidal ultraviolet output at 254 nanometer wavelength, also emit ozone producing rays at 185 nanometer wavelength. Because it is necessary to avoid exposing personnel to high concentrations of ozone, the use of ozone lamps is limited to applications in which ozone

concentration will not exceed .05 parts per million in occupied spaces. **STER-L-RAY®** Ozone Producing lamps are available in Instant Start, Cold Cathode, High Output, High Intensity, Enhanced Output and Preheat types.



# INSTANT START GERMICIDAL ULTRAVIOLET LAMPS

**STER-L-RAY®** Instant Start germicidal lamps utilize a coil filament on each end which operates hot. Lamp life is governed by the life of the electrodes and is affected by the frequency of starting. **STER-L-RAY®** Instant Start germicidal lamps are well-suited to applications requiring high ultraviolet intensity such as water sterilization, air purification in duct systems and conveyORIZED product disinfection. Available in Low Ozone and Ozone Producing versions.

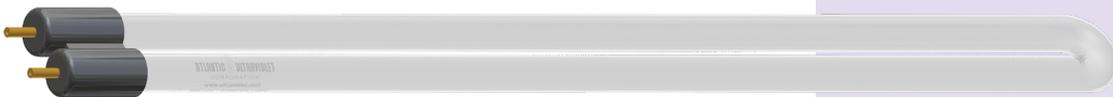


Lamp Description		Length (mm) Base Face to Face	Lamps (Watts) (1)	Approx. Lamp Current (mA)	UV Output Total Watts (2)	UV Output Microwatts at 1 Meter (3)	Ozone Output (if applicable) (4)	Rated Lamp Life (Hours)
Low Ozone	Ozone Producing							
G12T5L**	G12T5VH	233	11	425	3.1	32	0.8	10,000
G10T51/2L	G10T51/2VH	357	17	425	5.7	57	1.4	10,000
G18T5L**	G18T5VH	386	18.4	425	5.8	59	1.6	10,000
G24T5L**	G24T5VH	538	25.6	425	8.5	82	2.3	10,000
G30T5L**	G30T5VH	691	32	425	11	95	3.0	10,000
GSL692T5L	N/A	692	32	425	11	95	N/A	10,000
G36T5L*	G36T5VH*	843	41	425	15	130	3.7	10,000
G37T5L	G37T5VH	868	42	425	15.4	133	3.8	10,000
G48T5L**	G48T5VH	1148	55	425	21	170	5.2	10,000
G64T5L*	G64T5VH*	1554	75	425	33	220	7.2	10,000

\* Also available in 2-, 3- and 4-pin single ended configurations. \*\*Available in 3 and 4 pin single ended configurations. Other sizes are readily available. Custom lamp lengths can also be supplied. Please contact us for help with your needs. Please note that ozone output is subject to considerable variation due to conditions under which the lamp is used; under many conditions, the ozone output may be only a fraction of the specified figure.

## U-SHAPED INSTANT START GERMICIDAL ULTRAVIOLET LAMPS

U-Shaped lamps are the ideal choice for applications that require more intense ultraviolet radiation in a limited space. **STER-L-RAY®** Instant Start lamps are available in U-Shaped configuration in Low Ozone and Ozone Producing versions.



Lamp Description		Length (mm) Base Face to Outside of Bend	Lamps (Watts) (1)	Approx. Lamp Current (mA)	UV Output Total Watts (2)	UV Output Microwatts at 1 Meter (3)	Ozone Output (4)	Rated Lamp Life (Hours)
Low Ozone	Ozone Producing							
G18T5L/U	G18T5VH/U	201	18.4	425	5.8	59	1.6	10,000
G24T5L/U	G24T5VH/U	287	25.6	425	8.5	82	2.3	10,000
G30T5L/U	G30T5VH/U	353	32	425	11	95	3.0	10,000
G36T5L/U	G36T5VH/U	429	41	425	15	130	3.7	10,000
G48T5L/U	G48T5VH/U	582	55	425	21	170	5.2	10,000

Other sizes are readily available. Custom lamp lengths can also be supplied. Please contact us for help with your needs. Please note that ozone output is subject to considerable variation due to conditions under which the lamp is used; under many conditions, the ozone output may be only a fraction of the specified figure.

- (1) Wattage is lamp watts only and does not include ballast loss.
- (2) Ultraviolet output at 254 nanometers at 100 hours and 80°F (approximate).
- (3) Microwatts per square centimeter at one meter from lamp.
- (4) Approximate ozone output in grams per hour under favorable conditions. Figures apply only to ozone producing types.