

Steris

ULTRAVIOLET WATER STERILIZER



The Clear Choice

The Sterilight Process



Quality Assurance

Sterilight ultraviolet water sterilizers incorporate natural ultraviolet light energy to eradicate microbiological contamination. This method is commonly used for:

- Wells
- Cottages
- Homes
- Water systems
- Aquaculture & Electronics
- Laboratories
- Pharmaceutical
- Food Services
- Hospitals
- And many more applications.



Sterilight Protects Water Natures Way...

Water enters through the bottom port of the ultraviolet reactor chamber and swirls around a low pressure mercury vapour lamp thermally protected by a quartz sleeve. The UV lamp emits powerful ultraviolet light energy at a 253.7 nm wave length. Vital genetic components contained in microorganisms absorb the light energy; this disrupts the DNA and prevents reproduction. Treated water then exits through the top port of the generator cell and is ready for consumption.

Natural Purification



Quality Assurance

Sterilight incorporates modern technology to solve an age-old problem. Bacteriological contamination can be present in all water supplies, especially rural areas or areas which are not treated with municipal water systems. It is recommended that no surface waters be consumed without adequate microbiological treatment, regardless of how the water is tested. Sterilight protects your water Natures Way by using cleansing ultraviolet light. Unlike traditional disinfection methods such as chlorination (which can not only react with natural organic matter in water to produce objectionable taste and odour, but also form substances with known carcinogenic properties such as chloroform), UV imparts no residual chemicals into the water. The result is the most simple, cost effective way of treating your water!

As a custom manufacturer, R-Can can provide ultraviolet disinfection systems for ultrapure, TOC, high flow, seawater, skid mount, hot water UV and other specialized markets. Custom engineered systems are also available to suit any specified or required dosages. For further information, please call the factory and ask for an Application Specialist.



Product Features



Quality Assurance

Sterilight products are designed to provide maximum UV output while remaining very user friendly. Some of the many features include:

- *304 or 316 polished and tested stainless steel reactor chambers*
- *Quartz sleeves for optimum operating temperatures*
- *254 nm hard glass UV lamps with ceramic bases for durability and efficiency*
- *Lamp out alarms for audible and visual recognition*
- *True 254 nm UV monitors with various output devices including LED's, meters and remote monitors*
- *Anodized rust resistant enclosures as well as full stainless steel enclosures*
- *Thermistors for control panels and reactor chambers*
- *Elapsed time meters*
- *Solenoid valves and remote metering equipment including infrared outputs*
- *Sanitary fittings and electro polishing for high purity applications*
- *Units manufactured in most electrical configurations to satisfy global markets*

R-Can is pleased to introduce a new electronic ballast featuring revolutionary, Constant Current Output, which provides the following unique features:

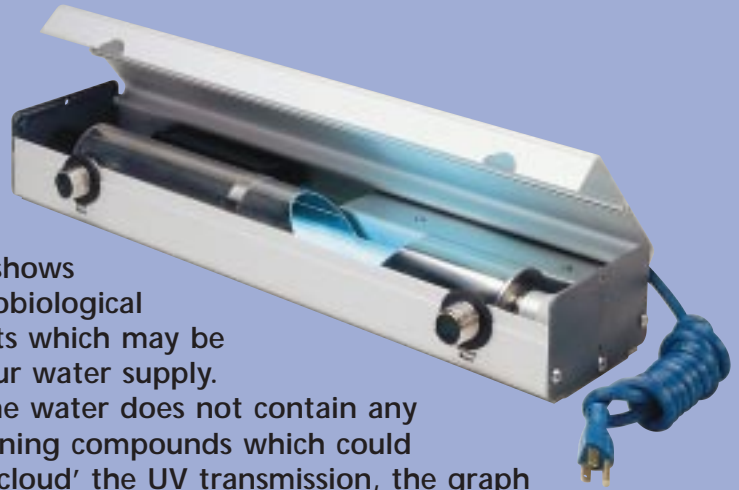
- *Increased ballast life due to cooler operating temperatures*
- *Optimum UV output over a wide range of input voltages*
- *Constant current output over entire input line voltage*
- *Not affected by line frequency variations (47-63 Hz.)*
- *Crest factor control resulting in longer lamp life*
- *Instant start lamp for preheat lamp circuitry resulting in no lamp flickering*
- *Substantially increased energy efficiency*
- *Built-in EMI/RFI filtering (compensates for radiated emissions & conducted interference)*
- *New moulded lamp connector*
- *One ballast for ½ to 12 gpm applications*
- *Built-in circuit transient protection*
- *Detachable power cords based on the IEC world standard*



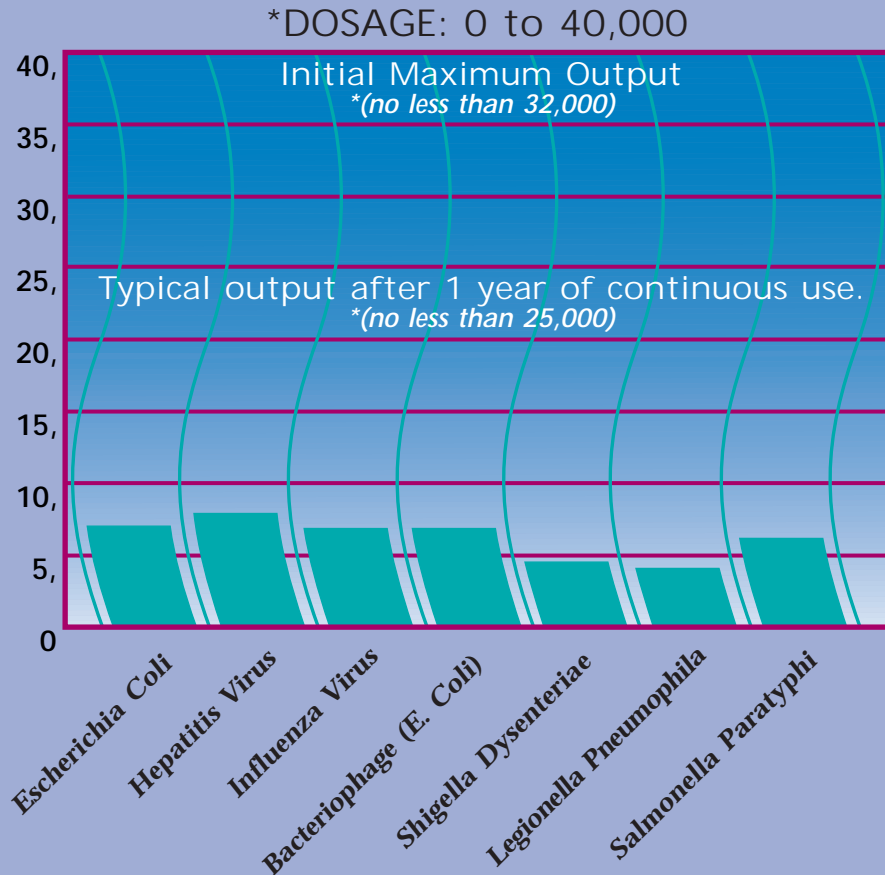
Proven Performance



Quality Assurance



This graph shows typical microbiological contaminants which may be found in your water supply. Assuming the water does not contain any physical staining compounds which could potentially 'cloud' the UV transmission, the graph shows the typical output of the water sterilizer at their individual rated flow.



*Ultraviolet energy in microwatt seconds per square centimetre required for a 99.99% kill.

*Dosages based on industry standards for UV transmission in clear fresh water at systems rated flow.

Product Specifications

SPECIFICATIONS		SQ-PA	S1Q-PA	S2Q-PA	S5Q-PA	S8Q-PA	S12Q-PA	S2Q	S2Q-GOLD	S5Q	S5Q-GOLD	S8Q	S8Q-GOLD
Flow Rate		2 lpm (1/2 gpm) (0.12 m ³ /Hr.)	4 lpm (1 gpm) (0.24 m ³ /Hr.)	7.5 lpm (2 gpm) (0.45 m ³ /Hr.)	19 lpm (5 gpm) (1.14 m ³ /Hr.)	30 lpm (8 gpm) (1.80 m ³ /Hr.)	45 lpm (12 gpm) (2.73 m ³ /Hr.)	7.5 lpm (2 gpm) (0.45 m ³ /Hr.)	7.5 lpm (2 gpm) (0.45 m ³ /Hr.)	19 lpm (5 gpm) (1.14 m ³ /Hr.)	19 lpm (5 gpm) (1.14 m ³ /Hr.)	30 lpm (8 gpm) (1.80 m ³ /Hr.)	30 lpm (8 gpm) (1.80 m ³ /Hr.)
Dimensions	Length	30.5cm (12")	38.1cm (15")	43.2cm (17")	53.3cm (21")	90cm (35")	94cm (37")	47cm (18.5")	47cm (18.5")	56cm (22")	56cm (22")	90cm (35.5")	90cm (35.5")
	Width	5.2cm (2")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	8.9cm (3.5")	13cm (5")	13cm (5")	13cm (5")	13cm (5")	13cm (5")	13cm (5")
	Height	5.2cm (2")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	8.9cm (3.5")	9cm (3.5")	9cm (3.5")	9cm (3.5")	9cm (3.5")	9cm (3.5")	9cm (3.5")
	Cell Dia.	5.2cm (2")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	8.9cm (3.5")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")	6.5cm (2.5")
Shipping Weight		2.3kg (5lbs.)	2.3kg (5lbs.)	2.7kg (6lbs.)	3.2kg (7lbs.)	4.5kg (10lbs.)	5.4kg (12lbs.)	4.1kg (9lbs.)	4.5kg (10lbs.)	5.4kg (12lbs.)	5.9kg (13lbs.)	6.4kg (14lbs.)	6.8kg (15lbs.)
Electrical	Volts	100-130V/ 50-60Hz. ²	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ²	100-130V/ 50-60Hz. ²	115V/60Hz. ²	115V/60Hz. ²	115V/60Hz. ²	115V/60Hz. ²	100-130V/ 50-60Hz. ²	100-130V/ 50-60Hz. ²
	Power Consumption	12 W	16 W	19 W	26 W	39 W	42 W	45 VA	45 VA	90 VA	90 VA	39 W	39 W
	Lamp Watts	10	14	17	24	37	39	17	17	24	24	36	36
Maximum Operating Pressure		8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)
Ambient Temperature		2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)
Lamps/Quartz Sleeves		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inlet/Outlet Port Size		1/4" MNPT	1/4" MNPT	1/2" MNPT	3/4" MNPT	3/4" MNPT	1" MNPT	1/2" MNPT	1/2" MNPT	3/4" MNPT	3/4" MNPT	3/4" MNPT	3/4" MNPT
Lamp Failure System	Visual	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
254nm UV Monitor		No	No	No	No	No	No	No	Yes	No	Yes	No	Yes
Dry Contacts (Solenoid)		No	No	No	No	No	No	No	Yes	No	Yes	No	Yes
Infrared Output	Remote Alarm	No	No	No	No	No	No	No	Yes	No	Yes	No	Yes
Hour Meter		No	No	No	No	No	No	No	Order IR-ALARM	No	Order IR-ALARM	No	Order IR-ALARM
Reactor Chamber Material		304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³
Housing Material		304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	304 S.S. ³	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum

1. 200-250V/50-60Hz. and 12VDC available on request

2. 200-250V/50-60Hz. available on request

3. 316L available on request

SPECIFICATIONS		S12Q	S12Q-GOLD	S24Q	S24Q-GOLD	S40Q	SUV 24P	SUV 40P	SUV 65P	SUV 100P	SUV 225P	SUV 400P	SUV 600P	SUV 800P
Flow Rate in Clear Fresh Water		45 lpm (12 gpm) (2.7 m ³ /Hr.)	45 lpm (12 gpm) (2.7 m ³ /Hr.)	90 lpm (24 gpm) (5.5 m ³ /Hr.)	90 lpm (24 gpm) (5.5 m ³ /Hr.)	150 lpm (40 gpm) (9.1 m ³ /Hr.)	90 lpm (24 gpm) (5.5 m ³ /Hr.)	150 lpm (40 gpm) (9.1 m ³ /Hr.)	244 lpm (65 gpm) (14.8 m ³ /Hr.)	375 lpm (100 gpm) (22.7 m ³ /Hr.)	844 lpm (225 gpm) (51.1 m ³ /Hr.)	1,500 lpm (400 gpm) (90.8 m ³ /Hr.)	2,250 lpm (600 gpm) (136.3 m ³ /Hr.)	3,000 lpm (800 gpm) (181.7 m ³ /Hr.)
Flow Rate in High Purity Distilled, DI or RO Water		57 lpm (15 gpm) (3.4 m ³ /Hr.)	57 lpm (15 gpm) (3.4 m ³ /Hr.)	113 lpm (30 gpm) (6.8 m ³ /Hr.)	113 lpm (30 gpm) (6.8 m ³ /Hr.)	188 lpm (50 gpm) (11.9 m ³ /Hr.)	113 lpm (30 gpm) (6.8 m ³ /Hr.)	188 lpm (50 gpm) (11.9 m ³ /Hr.)	300 lpm (80 gpm) (18.0 m ³ /Hr.)	437 lpm (115 gpm) (26.1 m ³ /Hr.)	974 lpm (260 gpm) (59.1 m ³ /Hr.)	1,725 lpm (460 gpm) (104.5 m ³ /Hr.)	2,588 lpm (690 gpm) (156.7 m ³ /Hr.)	3,450 lpm (920 gpm) (208.0 m ³ /Hr.)
Dimensions	Length	94 cm (37")	94 cm (37")	94 cm (37")	94 cm (37")	97 cm (38")	97 cm (38")	97 cm (38")	97 cm (38")	97 cm (38")	173 cm (68")	173 cm (68")	173 cm (68")	173 cm (68")
	Width	17.8 cm (7")	17.8 cm (7")	17.8 cm (7")	17.8 cm (7")	22.9 cm (9")	15 cm (6")	20 cm (8")	25 cm (10")	25 cm (10")	25 cm (10")	46 cm (18")	51 cm (20")	64 cm (25")
	Height	20 cm (8")	20 cm (8")	24.1cm (9.5")	24.1cm (9.5")	30.5 cm (12")	23 cm (9")	28 cm (11")	33 cm (13")	33 cm (13")	42 cm (16.5")	53 cm (21")	75 cm (29.5")	84 cm (33")
	Cell Dia.	9 cm (3.5")	9 cm (3.5")	10.2 cm (4")	10.2 cm (4")	15 cm (6")	10.2 cm (4")	15 cm (6")	20 cm (8")	20 cm (8")	20 cm (8")	30.5 cm (12")	30.5 cm (12")	30.5 cm (12")
Control Panel		NA	NA	NA	NA	NA	43x43x15 cm (17"x17"x6")	43x43x15 cm (17"x17"x6")	43x43x15 cm (17"x17"x6")	43x43x15 cm (17"x17"x6")	43x43x15 cm (17"x17"x6")	43x43x18 cm (17"x17"x7")	61x51x25 cm (24"x20"x10")	61x51x25 cm (24"x20"x10")
Shipping Weight		10.5kg (23lbs.)	10.5kg (23lbs.)	10.5kg (23lbs.)	10.9kg (24lbs.)	23.1kg (51lbs.)	23.6kg (52lbs.)	36.3kg (80lbs.)	55.8kg(123lbs.)	56.2kg(124lbs.)	call factory	call factory	call factory	call factory
Electrical	Volts	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	100-130V/ 50-60Hz. ¹	200-250V/ 50-60Hz. ²	200-250V/ 50-60Hz. ²	200-250V/ 50-60Hz. ²
	Power Consumption	42 W	42 W	95 W	95 W	190 W	100 W	195 W	285 W	375 W	685 W	1,370 W	2,055 W	2,740 W
	Lamp Watts	39	39	78	78	156	78	156	234	312	520	1,040	1,560	2,080
Maximum Operating Pressure		8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)
Ambient Temperature		2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)
Lamps/Quartz Sleeves		Yes (1)	Yes (1)	Yes (2)	Yes (2)	Yes (4)	Yes (2)	Yes (4)	Yes (6)	Yes (8)	Yes (8)	Yes (16)	Yes (24)	Yes (32)
Inlet/Outlet Port Size		1" MNPT	1" MNPT	1" MNPT	1" MNPT	1.5" MNPT	1" MNPT	1.5" MNPT	2" MNPT	2" MNPT	4" Flange	6" Flange	8" Flange	8" Flange
Lamp Failure System	Visual	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
254nm UV Monitor		No	Yes	No	Yes	No	Order SUV 24PM	Order SUV 40PM	Order SUV 65PM	Order SUV 100PM	Yes	Yes	Yes	Yes
Remote Alarm Output		No	Order IR-ALARM	No	Order IR-ALARM	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dry Contacts (NO and NC)		No	Yes (solenoid)	No	Yes (solenoid)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Drain Plug		1/8"	1/8"	1/8"	1/8"	3/8"	1/8"	3/8"	1/2"	1/2"	3/4"	1"	1"	1"
Hour Meter		No	Order IR-ALARM	No	Order IR-ALARM	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Panel Temperature Monitor		No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Chamber Temperature Monitor		No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reactor Chamber Material		304 S.S. ³	304 S.S. ³	316L S.S.	316L S.S.	316L S.S.	316L S.S.	316L S.S.	316L S.S.	316L S.S.	316L S.S.	316L S.S.	316L S.S.	316L S.S.
Control Panel		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	304 S.S.	304 S.S.	304 S.S.	304 S.S.	304 S.S.	304 S.S.	304 S.S.	304 S.S.

1. 200-250V/50-60Hz. available on request

2. 100-130V/50-60Hz. available on request

3. 316L available on request



R-Can Environmental Inc is located in Guelph, Ontario, Canada, which is physically situated 40 miles to the west of Toronto in the heart of Southwestern Ontario's manufacturing district. A modern facility houses all manufacturing, distribution, sales and marketing operations. R-Can's total focus is in the water treatment industry and has been manufacturing UV systems under the Sterilight and other brand names since 1989.

R-Can's corporate commitment is to provide quality water treatment products and exceptional service, all at the most economical prices!

Application Warning

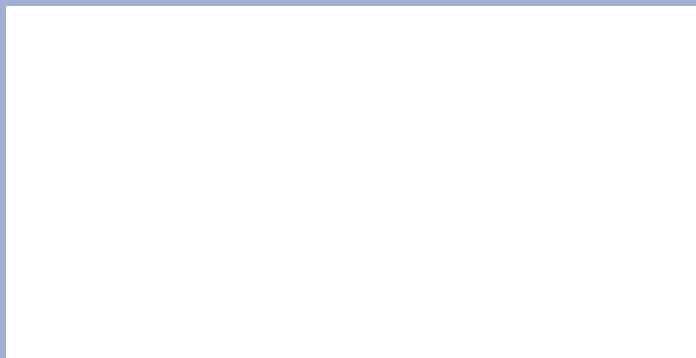
Minimum water characteristics must be met before installation of Sterilight to ensure proper operation and continuous water protection. Only install Sterilight when:

- TOTAL IRON *count is less than: 0.3 ppm (0.3 mg/l)*
- HYDROGEN SULFIDE *count is less than: 0.05 ppm (0.05 mg/l)*
- SUSPENDED SOLIDS *count is less than: 10 ppm (10 mg/l)*
- MANGANESE *count is less than: 0.05 ppm (0.05 mg/l)*
- If HARDNESS *level exceeds 7 grains per gallon, water must be softened*



Sterilight systems carry a 7 year warranty on the stainless steel reactor chamber, a 1 year warranty on UV lamps and monitor probes, and a 5 year pro rated warranty on all other components.

For further information contact:



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