

Sterilight

ULTRAVIOLET WATER STERILIZER



COMMERCIAL/INDUSTRIAL/MUNICIPAL
HIGH FLOW DISINFECTION SYSTEMS

E. coli
Cryptosporidium
Giardia



Cryptosporidium



E. coli



Giardia Lamblia

ensuring the safety of your water



The lamp removal is easily performed without interrupting the water flow.

model

SUV 24P



SUV 40P



SUV 65P



SUV

PRODUCT SPECIFICATIONS



SUV 24P













SUV 40P



SUV 65P

Recommended Flow Rate in Clear Fresh Water		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.)
Recommended Flow Rate in High Purity Distilled, DI, or RO Water		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.)
Overall Size	Reactor Chamber	97 x 15 x 23 cm (38" x 6" x 9")	97 x 20 x 28 cm (38" x 8" x 11")	97 x 25 x 33 cm (38" x 10" x 13")
	Control Panel	43 x 43 x 15 cm (17" x 17" x 6")	43 x 43 x 15 cm (17" x 17" x 6")	43 x 43 x 15 cm (17" x 17" x 6")
	Cell Diameter	10.2 cm (4")	15 cm (6")	20 cm (8")
Shipping Weight		23.6 kg (52 lbs.)	36.3 kg (80 lbs.)	55.8 kg (123 lbs.)
Lamps/Quartz Sleeves		2	4	6
Maximum Operating Pressure		8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)
Inlet/Outlet Port Size		1" MNPT	1.5" MNPT	2" MNPT
Ambient Temperature		2 - 40° C (36 - 104° F)	2 - 40° C (36 - 104° F)	2 - 40° C (36 - 104° F)
Visual "Power On"		YES	YES	YES
Electrical	Voltage	100-130V./50-60 Hz. ¹	100-130V./50-60 Hz. ¹	100-130V./50-60 Hz. ¹
	Power Consumption	100	195	285
	Lamp Watts	78	156	234
Material Construction	Reactor Chamber Material	316L S.S	316L S.S	316L S.S
	Control Panel	304 S.S	304 S.S	304 S.S
Remote Alarm Output		YES	YES	YES
Audible Alarm Indicator		YES	YES	YES
254nm UV Monitor		Order SUV 24PM	Order SUV 40PM	Order SUV 65PM
Dry Contacts (NO and NC)		YES	YES	YES
Drain Plug		1/8"	3/8"	1/2"
Hour Meter		YES	YES	YES
Panel and Chamber Temperature Monitor		YES	YES	YES

In addition to bacteria (*E. coli*), virus, algae, mould and other, Sterilight UV systems are now considered effective against protozoa such as *Cryptosporidium* and *Giardia Lamblia*.

SUV 100P	SUV 225P	SUV 400P	SUV 600P	SUV 800P
				
				
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.)
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.)
97 x 25 x 33 cm (38" x 10" x 13")	173 x 25 x 42 cm (68" x 10" x 16.5")	173 x 46 x 53 cm (68" x 18" x 21")	173 x 51 x 75 cm (68" x 20" x 29.5")	173 x 64 x 84 cm (68" x 25" x 33")
43 x 43 x 15 cm (17" x 17" x 6")	43 x 43 x 15 cm (17" x 17" x 6")	43 x 43 x 18 cm (17" x 17" x 7")	61 x 51 x 25 cm (24" x 20" x 10")	61 x 51 x 25 cm (24" x 20" x 10")
20 cm (8")	20 cm (8")	30.5 cm (12")	30.5 cm (12")	30.5 cm (12")
56.2 kg (124 lbs.)	Call factory	Call factory	Call factory	Call factory
8	8	16	24	32
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)
2" MNPT	4" Flange	6" Flange	8" Flange	8" Flange
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)
YES	YES	YES	YES	YES
100-130V./50-60 Hz. ¹	100-130V./50-60 Hz. ¹	200-250V./50-60 Hz. ²	200-250V./50-60 Hz. ²	200-250V./50-60 Hz. ²
375	685	1,370	2,055	2,740
312	520	1,040	1,560	2,080
316L S.S	316L S.S	316L S.S	316L S.S	316L S.S
304 S.S	304 S.S	304 S.S	304 S.S	304 S.S
YES	YES	YES	YES	YES
YES	YES	YES	YES	YES
Order SUV 100PM	YES	YES	YES	YES
YES	YES	YES	YES	YES
1/2"	3/4"	1"	1"	1"
YES	YES	YES	YES	YES
YES	YES	YES	YES	YES

1. 200-250V./50-60Hz available on request 2. 100-130V./50-60Hz. available on request

UV effectively DESTROYS these protozoan cysts at dosage levels well within the levels delivered by all Sterilight ultraviolet disinfection systems.

Standard Features

- 316L S.S. electropolished reactor chamber
- flanged chamber end plates
- separate Nema 4X rated and modified control panel for installation flexibility
- individual lamp-on indicators and audible alarms
- new **Sterilume™-EX** UV lamps, these hard glass, 254nm ultraviolet lamps feature advanced proprietary lamp technology allowing for consistent UV output over the life of the lamp coupled with uniform temperature distribution. The result is that Sterilume-EX lamps provide the required output over the entire 9000 hour lamp life
- new "intelligent" electronic ballasts with internal damage limiting circuitry
- on/off power switch (separately fused)
- viewing port for operational monitoring (not available if UV intensity monitoring option is included)
- output plug for optional remote alarm (S-ROM/SUV)
- drain port for easy chamber flushing
- dry contact output connector (NO & NC) for solenoid valve, horn, etc.
- **High Panel Temperature Alarm** gives an audible and visual alarm to indicate if the temperature inside the control panel rises above a preset maximum
- **High Chamber Temperature Alarm** gives an audible and visual alarm to indicate if the temperature inside the reactor chamber rises above a preset maximum
- **Elapsed Time Meter** measures the running time of the lamps

Optional Features

- **UV Intensity Monitor** detects the 254 nm wavelength and displays the intensity level via a panel meter as well as audible and visual alarm indicators. Package includes an output plug for remote UV monitoring via a 4-20 mA output signal. To order the SUV systems with an integral UV Intensity Monitoring feature, order the units in a "PM" suffix as noted on the inset. Please Note that this does not apply to the SUV 225P through the SUV 800P as these systems are sold with the intensity monitor as an integral feature
- **S-ROM/SUV**, compact remote alarm package designed to interface with the SUV system, incorporates both an audible and visual feature and comes with 50' of cable
- **Light Traps**, specially manufactured piping designed to isolate any direct UV exposure to the effluent piping stream (this is required in applications where non-metallic metals are joined with the UV system, i.e. PVDF, PVC or polypropylene)
- **RA 15 Finish**, for those applications that require pharmaceutical grade finish, systems are available with complete internal metal polish to a RA 15 specification
- **Sanitary Fittings**, for those customers who require sanitary connections (beverage, pharmaceuticals, etc.), these "Tri-clover" connections eliminate potential contamination points that may exist with threaded connection points
- **Flange Fittings**, a variety of 150lb raised face flanges are available as an upgrade for those SUV systems that are provided with MNPT connections. Sample ports are a standard feature on all flange upgrades.

SUV

PRODUCT INFORMATION

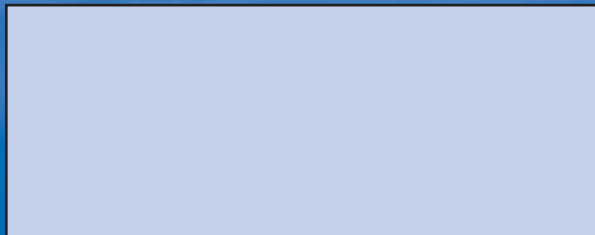
Providing Disinfection For:

- potable water treatment
- marine industries
- hospitals
- breweries
- restaurants
- bottlers
- cooling towers
- food processing
- textiles
- laboratories
- dairies
- printing industry
- schools
- fish hatcheries
- canning
- DI water systems
- wineries
- poultry farms
- beverage applications
- pharmaceuticals
- aquaculture
- sewage treatment
- electronics
- other liquids

Replacement Parts

- S36RL – replacement UV lamp (SUV 24-SUV 100)
- S64RL – replacement UV lamp (SUV 225-SUV 800)
- QS-012 – quartz sleeve (SUV 24-SUV 100)
- QS-064 – quartz sleeve (SUV 225-SUV 800)
- OR-212 – o-ring for quartz sleeve (SUV 24-SUV 100)
- OR-COM – o-ring for quartz sleeve (SUV 225-SUV 800)

For further information contact:



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