Sterilight

ULTRAVIOLET DISINFECTION SYSTEM

SUV

PRODUCT INFORMATION

COMMERCIAL/INDUSTRIAL/MUNICIPAL
HIGH FLOW DISINFECTION SYSTEMS

E.coli
Cryptosporidium
Giardia

Cryptosporidium

E. coli

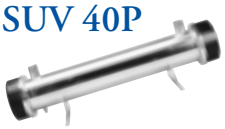
Giardia lamblia

ensuring the safety of your water

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

SUV

PRODUCT SPECIFICATIONS

model	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")
Overall Size – 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")
Overall Size – 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]
Electrical – Power Consumption	100 W	195 W	285 W
Electrical – Lamp Watts	78 W	156 W	234 W
Material Construction – Reactor Chamber Material	316L S.S	316L S.S	316L S.S
Material Construction – 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 protozoan cysts 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 W	685 W	1,370 W	2,055 W	2,740 W
312 W	520 W	1,040 W	1,560 W	2,080 W
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
- ***Sterilume***™***-EX*** UV lamps, these hard glass, 254nm ultraviolet lamps feature advanced proprietary lamp coating 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)

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