ULTRAVIOLET DISINFECTION SYSTEM

model SQ-PA, S1Q-PA, S2Q-PA, S5Q-PA, S8Q-PA, S12Q-PA

This compact line of ultraviolet disinfection systems is ideally suited for point-of-use filtration, RO pre or post disinfection or with a myriad of other applications requiring the flexibility this design offers. The hard glass germicidal lamps provide an economical way of treating water requiring a 99.99% reduction of bacteria and virus and protozoan cysts *(Giardia lamblia and Cryptosporidium)*. This process is accomplished without adding any harmful chemicals to your drinking water. Sterilight is the most ecological way of treating your water… *and all for just pennies a day!* These disinfection systems are designed for easy homeowner maintenance. The UV lamp can be changed without interrupting the water flow. The quartz sleeve design allows for maximum UV output and operating efficiency

In addition to bacteria (***E. coli***), virus, algae, mould and others, Sterilight UV systems are effective against protozoa such as ***Cryptosporidium*** and ***Giardia lamblia***. UV effectively DESTROYS these **protozoan cysts** at dosage levels well within the levels delivered by all Sterilight ultraviolet disinfection systems.

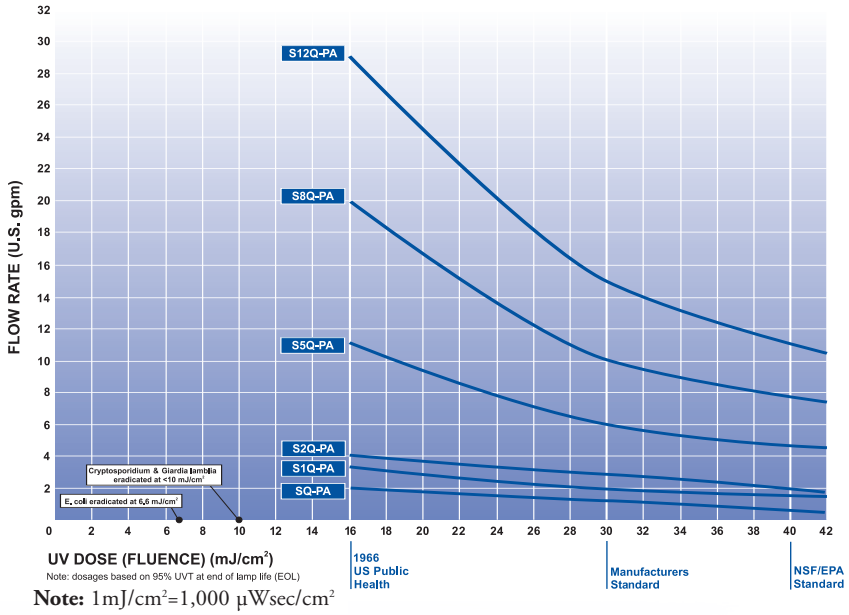
- **SQ-PA** – flow rates of 5.7 L/min (1.5 gpm)
  S1Q-PA – flow rates of 7.5 L/min (2 gpm)
  S2Q-PA – flow rates of 11 L/min (3 gpm)
  S5Q-PA – flow rates of 22.7 L/min (6 gpm)
  S8Q-PA – flow rates of 37.9 L/min (10 gpm)
  S12Q-PA – high flow 56.8 L/min (15 gpm)
- patented electronic ICE ballast featuring constant output current over the entire operating range independent of voltage or frequency. This redesigned ICE ballast features improved surge protection, fusing and transient protection as well as an audible/visual ANNUAL LAMP CHANGE REMINDER feature
- ***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
- compact design incorporating 304 stainless steel reactor chambers, brilliantly polished for laboratory or medical applications
- easy servicing – no need to disconnect water flow to change UV lamp
- open end quartz sleeves and aluminum gland nuts for optimum operating temperature and sealing efficiency
- 99.99% destruction of bacteria, virus and protozoan cysts *(Giardia lamblia and Cryptosporidium)* at rated flow
- natures way to protect your water without the addition of harmful chemicals
- includes mounting clamps and hardware
- seven year warranty on reactor chamber for unparalleled protection
- drain port for reactor chamber flushing (for model S12Q-PA only)
- new over-moulded connector allows for quick and simple removal of the lamp connector without any special tools or assistance.

ensuring the safety of your water

model SQ-PA, S1Q-PA, S2Q-PA, S5Q-PA, S8Q-PA, S12Q-PA

SPECIFICATIONS	SQ-PA	S1Q-PA	S2Q-PA	S5Q-PA	S8Q-PA	S12Q-PA
Flow Rate (Dose Dependent)						
16 mJ/cm² (US Public Health)	7.5 L/min (2 gpm) (0.45 m³/hr.)	12.3 L/min (3.2 gpm) (0.74 m³/hr.)	15 L/min (4 gpm) (0.91 m³/hr.)	41.6 L/min (11 gpm) (2.50 m³/hr.)	75.7 L/min (20 gpm) (4.54 m³/hr.)	109.8 L/min (29 gpm) (6.59 m³/hr.)
30 mJ/cm² (R-Can Standard)	5.7 L/min (1.5 gpm) (0.34 m³/hr.)	7.5 L/min (2 gpm) (0.45 m³/hr.)	11 L/min (3 gpm) (0.68 m³/hr.)	22.7 L/min (6 gpm) (1.36 m³/hr.)	37.9 L/min (10 gpm) (2.27 m³/hr.)	56.8 L/min (15 gpm) (3.41 m³/hr.)
40 mJ/cm² (NSF/EPA)	2 L/min (0.5 gpm) (0.12 m³/hr.)	5.5 L/min (1.5 gpm) (0.34 m³/hr.)	7.5 L/min (2 gpm) (0.45 m³/hr.)	17 L/min (4.5 gpm) (1.02 m³/hr.)	29.3 L/min (7.8 gpm) (1.76 m³/hr.)	41.6 L/min (11 gpm) (2.50 m³/hr.)
Dimensions Length	30.5 cm (12")	38.1 cm (15")	43.2 cm (17")	53.3 cm (21")	90 cm (35")	94 cm (37")
Width	5.2 cm (2")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	8.9 cm (3.5")
Height	5.2 cm (2")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	8.9 cm (3.5")
Cell Dia.	5.2 cm (2")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	8.9 cm (3.5")
Shipping Weight	2.3 kg (5 lbs.)	2.3 kg (5 lbs.)	2.7 kg (6 lbs.)	3.2 kg (7 lbs.)	4.5 kg (10 lbs.)	5.4 kg (12 lbs.)
Electrical Voltage	100-130V./50-60 Hz.[2]	100-130V./50-60 Hz.[1]	100-130V./50-60 Hz.[1]	100-130V./50-60 Hz.[1]	100-130V./50-60 Hz.[2]	100-130V./50-60 Hz.[2]
Power Consumption (Watts)	12 W	16 W	19 W	26 W	39 W	42 W
Lamp Watts	10 W	14 W	17 W	24 W	37 W	39 W
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)
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)
Quartz Sleeve	Yes	Yes	Yes	Yes	Yes	Yes
Inlet/Output Port Size	1/4" MNPT	1/4" MNPT	1/2" MNPT	3/4" MNPT	3/4" MNPT	"Combo" 3/4" FNPT & 1" MNPT
Visual "Power-On"	Yes	Yes	Yes	Yes	Yes	Yes
Audible Lamp Failure	Yes	Yes	Yes	Yes	Yes	Yes
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]

1. 200-250V./50-60Hz. (add "/2" to model # (eg. SQ-PA/2)) and 12VDC available on request.
2. 200-250V./50-60Hz. available on request (add "/12VDC" to model # (eg. S1Q-PA/12VDC)
3. 316L stainless steel available on request



Note: 1mJ/cm²=1,000 µWsec/cm²

Replacement Parts

S212RL – replacement UV lamp for SQ-PA
S287RL – replacement UV lamp for S1Q-PA
S330RL – replacement UV lamp for S2Q-PA
S463RL – replacement UV lamp for S5Q-PA
S810RL – replacement UV lamp for S8Q-PA
S36RL – replacement UV lamp for S12Q-PA
QS-212 – quartz sleeve for SQ-PA
QS-001 – quartz sleeve for S1Q-PA
QS-330 – quartz sleeve for S2Q-PA
QS-463 – quartz sleeve for S5Q-PA
QS-810 – quartz sleeve for S8Q-PA
QS-012 – quartz sleeve for S12Q-PA
OR-212 – o-ring for all quartz sleeves
BA-ICE-1F – electronic ICE ballast (100-130V./50-60Hz.)
BA-ICE-2F – electronic ICE ballast (200-250V./50-60Hz.)
BA-RO/P/12 – 12VDC electronic ballast

Warranty Sterilight disinfection systems carry a seven year warranty on the stainless steel reactor chamber, a one year warranty on UV lamps and quartz sleeves, and a five year pro-rated warranty on all other components.

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