



## ULTRAVIOLET WATER STERILIZER

model

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

This compact line of ultraviolet water sterilizers is ideally suited for point-of-use filtration, RO pre or post sterilization 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 protozoa. 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 water filters 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



- **SQ-PA** – flow rates of 2 L/min (1/2 gpm)
  - **S1Q-PA** – flow rates of 4 L/min (1 gpm)
  - **S2Q-PA** – flow rates of 7.5 L/min (2 gpm)
  - **S5Q-PA** – flow rates of 19 L/min (5 gpm)
  - **S8Q-PA** – flow rates of 30 L/min (8 gpm)
  - **S12Q-PA** – high flow 45 L/min (12 gpm)
- } Dose Dependent
- 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
  - 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
  - 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
  - nature's 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

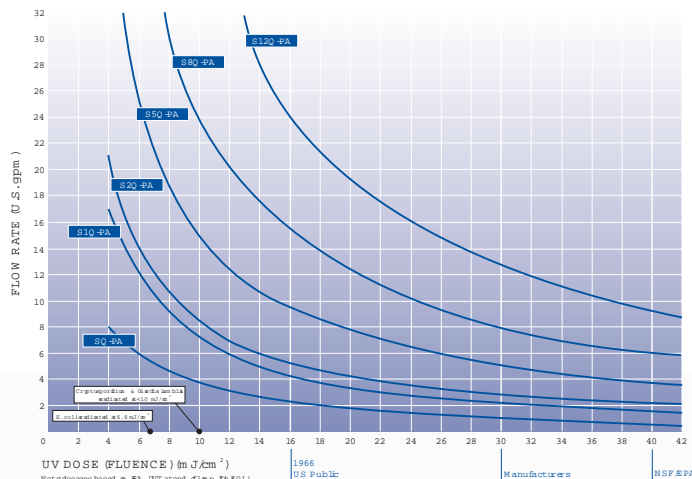
In addition to bacteria (**E. coli**), virus, algae, mould and others, Sterilight UV systems are now considered effective against protozoa such as **Cryptosporidium** and **Giardia lamblia**. UV effectively DESTROYS these **protozoan cysts** at dosage levels well within the levels delivered by all Sterilight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

*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/cm <sup>2</sup> (US Public Health)	7.5 L/min (2 gpm) (0.45 m <sup>3</sup> /hr.)	15 L/min (4 gpm) (0.91 m <sup>3</sup> /hr.)	19 L/min (5 gpm) (1.14 m <sup>3</sup> /hr.)	35.5 L/min (9.5 gpm) (2.16 m <sup>3</sup> /hr.)	58 L/min (15.5 gpm) (3.52 m <sup>3</sup> /hr.)	90 L/min (24 gpm) (5.45 m <sup>3</sup> /hr.)
30 mJ/cm <sup>2</sup> (R-Can Standard)	4 L/min (1 gpm) (0.24 m <sup>3</sup> /hr.)	7.5 L/min (2 gpm) (0.45 m <sup>3</sup> /hr.)	11 L/min (3 gpm) (0.68 m <sup>3</sup> /hr.)	19 L/min (5 gpm) (1.14 m <sup>3</sup> /hr.)	30 L/min (8 gpm) (1.80 m <sup>3</sup> /hr.)	49 L/min (13 gpm) (2.95 m <sup>3</sup> /hr.)
40 mJ/cm <sup>2</sup> (NSF/EPA)	2 L/min (1/2 gpm) (0.12 m <sup>3</sup> /hr.)	5.5 L/min (1.5 gpm) (0.34 m <sup>3</sup> /hr.)	7.5 L/min (2 gpm) (0.45 m <sup>3</sup> /hr.)	13.2 L/min (3.5 gpm) (0.80 m <sup>3</sup> /hr.)	22.7 L/min (6 gpm) (1.36 m <sup>3</sup> /hr.)	34.1 L/min (9 gpm) (2.04 m <sup>3</sup> /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 <sup>2</sup>	100-130V/50-60 Hz <sup>1</sup>	100-130V/50-60 Hz <sup>1</sup>	100-130V/50-60 Hz <sup>1</sup>	100-130V/50-60 Hz <sup>2</sup>	100-130V/50-60 Hz <sup>2</sup>
Power Consumption (Watts)	12	16	19	26	39	42
Lamp Watts	10	14	17	24	37	39
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. <sup>3</sup>	304 S.S. <sup>3</sup>	304 S.S. <sup>3</sup>	304 S.S. <sup>3</sup>	304 S.S. <sup>3</sup>	304 S.S. <sup>3</sup>

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/cm<sup>2</sup>=1,000 µWsec/cm<sup>2</sup>

## 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** The Sterilight water sterilizers carry a seven year warranty on the stainless steel reactor chamber, a one year warranty on UV lamps and a five year pro-rated warranty on all other components.



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