ULTRAVIOLET DISINFECTION SYSTEM

model S12Q & S12Q-GOLD

The S12Q and S12Q-GOLD ultraviolet disinfection systems are specifically designed for both residential and commercial/industrial applications requiring a 99.99% reduction of bacteria, virus and protozoan cysts (*Cryptosporidium* and *Giardia lamblia*). 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 this for just pennies a day!*

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.

- 57 L/min (15 gpm) flow rate (at 95% UVT)
- 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.
- ***Sterilume™-EX*** UV lamps, these hard glass, 254nm ultraviolet lamps feature an 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.
- 304 stainless steel reactor chambers, brilliantly polished for laboratory or medical applications
- "Combo" connections, 1" MNPT and 3/4" FNPT on unique port design
- easy servicing – no need to disconnect water flow to change UV lamp
- open end quartz sleeve and aluminum gland nuts for optimum operating temperature and sealing efficiency
- drain port for reactor chamber flushing
- 99.99% destruction of bacteria, virus and protozoan cysts (*Cryptosporidium* and *Giardia lamblia*) at rated flow
- natures way to protect your water without the addition of harmful chemicals
- seven year warranty on reactor chamber for unparalleled protection
- "GOLD" series includes true 254nm UV monitors, solenoid output (solenoid valve not included) and infrared output for remote monitoring and diagnostic testing
- visual lamp-on indicator and audible lamp failure indicator
- "easy access" aluminum base for quick and easy servicing
- 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 S12Q AND S12Q-GOLD

Additional S12Q-GOLD Features

UV Monitor – a true 254 nm ultraviolet sensor incorporating individual calibration boards (allows for field replacement of sensor components, if necessary) – audible and visual indicators included as integral components.

Solenoid Output – works in conjunction with the ultraviolet alarm allowing for the stoppage of water flow in the event that the sensor detects that the water is not adequately being treated or in case of a power failure – to be used in conjunction with optional normally – closed solenoid valves.

Infrared Output – allows for remote monitoring as well as a diagnostic tool for service technicians (microcontroller incorporated into the circuitry to keep track of actual UV intensity and elapsed running time). For remote audible and visual monitoring of the UV sensor, use the optional IR-ALARM.

Optional Items

Solenoid Valve
SOL-1.0, 1" brass (110 V.)
SOL-1.0/2, 1" brass (240 V.)

Cable
CS-MOL, used to connect solenoid to unit

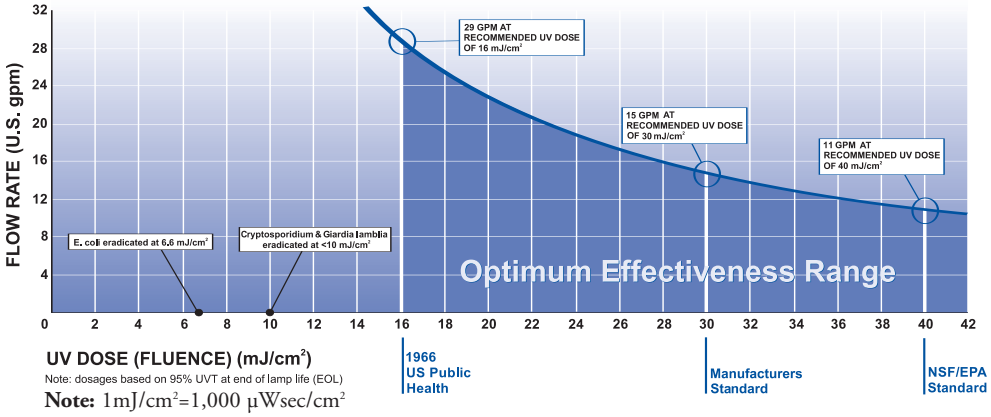
Remote Alarm
IR-ALARM, remotely (50') displays UV intensity (55-99%) & elapsed running time

Flow Restrictor
FR-12, 12 gpm restrictor, 1" x 1" FNPT, chrome plated

SPECIFICATIONS S12Q and S12Q-GOLD

Flow Rate (Dose Dependent)		
16 mJ/cm² (US Public Health)		109.8 L/min (29 gpm) (6.6 m³/hr.)
30 mJ/cm² (R-Can Standard)		56.8 L/min (15 gpm) (3.4 m³/hr.)
40 mJ/cm² (NSF/EPA)		41.6 L/min (11 gpm) (2.5 m³/hr.)
Dimensions	Length	94 cm (37")
	Width	17.8 cm (7")
	Height	20 cm (8")
	Cell Dia.	9 cm (3.5")
Shipping Weight		S12Q – 10.5 kg (23 lbs.) S12Q-GOLD – 10.5 kg (23 lbs.)
Electrical	Voltage	100-130 V./50-60 Hz.[1]
	Total Watts	42 W
	Total Lamp Watts	39 W
Maximum Operating Pressure		8.62 bar (125 psi)
Ambient Temperature Range		2 - 40° C (36 - 104° F)
Quartz Sleeve		Yes (1)
Inlet/Outlet Port Size		"Combo" 1" MNPT & 3/4" FNPT
Lamp Failure System	Visual Audible	Yes Yes
254 nm UV Monitor		Yes (for S12Q-GOLD)
Solenoid Output		Yes (for S12Q-GOLD)
Infrared Output (Remote Alarm)		Yes (for S12Q-GOLD)
Reactor Chamber Material		304 S.S.[2]

1. 200-250 V./50-60 Hz. available on request (add "/2" to model # (eg. S12Q/2))
2. 316L stainless steel available on request



Note: 1mJ/cm²=1,000 µWsec/cm²

Warranty Sterilight S12Q and S12Q-GOLD water sterilizers carry a seven year warranty on the stainless steel reactor chamber, a one year warranty on UV lamps, quartz sleeves and monitor probes, and a five year pro-rated warranty on all other components.

Replacement Parts

S36RL – replacement UV lamp
QS-012 – quartz sleeve
OR-212 – o-ring for quartz sleeve
254NM-08 – UV sensor for S12Q-GOLD
BA-ICE-3F – electronic ICE ballast

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