Sterilight®

cobalt uv disinfection

model
SC320-DWS & SCM320-DWS series systems

Sterilight Cobalt's new compact drinking water systems featuring high-output, axial flow UV technology are easy to install and offers the smallest installation footprint on the market. Flexibility abounds with the use of either 10" or 20" high flow filter housings accepting a variety of filtration media to suit your application needs. Available in either a standard Cobalt "BASIC" package with LED output for lamp life remaining and total controller running time or in the Cobalt "PLUS" package featuring the addition of a discrete 254 nm UV sensor and the capability of adding an optional solenoid shut off valve. Whatever your specific applications may require, the new *Cobalt DWS* systems offers the solution!

Solid steel mounting bracket, compact design and easy to install

Cobalt™ ICE electronic controller featuring constant output current over the entire operating range independent of voltage or frequency. Operates from 100-240V/50-60Hz and comes with a 4-segment visual display indicating Lamp Life Remaining, Total Controller Running Time, and UV Intensity (SCM systems only). Controller has active power factor correction and comes in a water-tight case.

System will accommodate a variety of 10" or 20" cartridge elements. All systems sold without cartridges. Recommended Cartridges:
   CMB-510-HF, 10" sediment, 5μ
   CMB-520-HF, 20", sediment, 5μ
   C2-01, 10" modified block carbon
   C2-02, 20" modified block carbon

Sterilume™-HO high-output UV lamps feature an advanced proprietary coating allowing for consistent output and long life rated at 9000 hours.

High flow polypropylene filter housings with 1" full flow connections, available in either 10" or 20" versions.

Axial flow reactors offer efficient flow geometry and when coupled with HO lamps allow for a very compact reactor design. 304 stainless steel, A249 pressure rated tube.

CPVC union and drain port allow for easy maintenance and winter storage if required.

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 <u>DESTROYS</u> these protozoan cysts at dosage levels well within the levels delivered by all Sterilight ultraviolet disinfection systems.

Cobalt™ "BASIC" Drinking Water Systems
SC320-DWS12 - comes with one 10" and one 20" high flow filter housings
SC320-DWS22 - comes with two 20" high flow filter housings
Cobalt™ "PLUS" Drinking Water Systems
(with UV intensity monitor)
SCM320-DWS12 - comes with one 10" and one 20" high flow filter housings
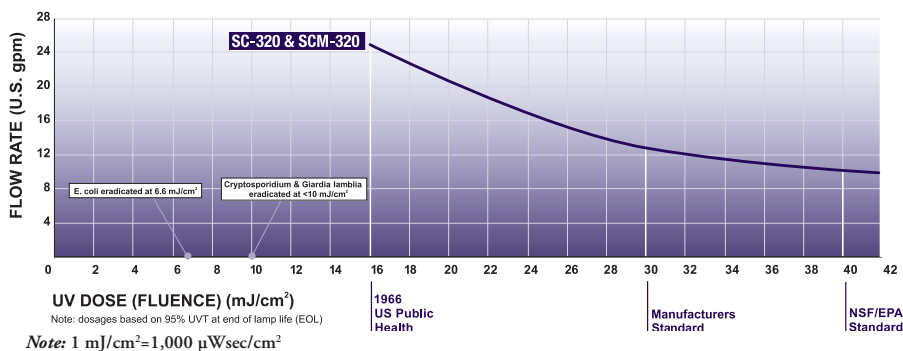**SCM320-DWS22** - comes with two 20" high flow filter housings

ensuring the safety of your water

model
SC320-DWS & SCM320-DWS series systems

SPECIFICATIONS		SC320-DWS12	SC320-DWS22	SCM320-DWS12	SCM320-DWS22
Flow Rate[1]	US Public Health 16 mJ/cm²	94.6 lpm (25 gpm) (5.7 m³/hr)	94.6 lpm (25 gpm) (5.7 m³/hr)	94.6 lpm (25 gpm) (5.7 m³/hr)	94.6 lpm (25 gpm) (5.7 m³/hr)
	R-Can Standard 30 mJ/cm²	49.2 lpm (13 gpm) (3.0 m³/hr)	49.2 lpm (13 gpm) (3.0 m³/hr)	49.2 lpm (13 gpm) (3.0 m³/hr)	49.2 lpm (13 gpm) (3.0 m³/hr)
	NSF/EPA 40 mJ/cm²	37.8 lpm (10 gpm) (2.3 m³/hr)	37.8 lpm (10 gpm) (2.3 m³/hr)	37.8 lpm (10 gpm) (2.3 m³/hr)	37.8 lpm (10 gpm) (2.3 m³/hr)
Overall Dimensions (Width x Depth x Height)		62 cm x 69.2 cm x 20.3 cm (24.4" x 8" x 27.3")	62 cm x 69.2 cm x 20.3 cm (24.4" x 8" x 27.3")	62 cm x 69.2 cm x 20.3 cm (24.4" x 8" x 27.3")	62 cm x 69.2 cm x 20.3 cm (24.4" x 8" x 27.3")
Inlet/Outlet Port Size		1" FNPT/1" MNPT	1" FNPT/1" MNPT	1" FNPT/1" MNPT	1" FNPT/1" MNPT
Shipping Weight		15 kg (33 lbs)	15.9 kg (35 lbs)	15 kg (33 lbs)	15.9 kg (35 lbs)
Electrical	Voltage	100-240V/50-60Hz	100-240V/50-60Hz	100-240V/50-60Hz	100-240V/50-60Hz
	Power Consumption	42 W	42 W	42 W	42 W
	Lamp Watts	36 W	36 W	36 W	36 W
Maximum Operating Pressure		8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)
Ambient Water 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)
Lamp Type		Sterilume™-HO (high-output)			
Visual "Power-On"		Yes	Yes	Yes	Yes
Audible Lamp Failure		Yes	Yes	Yes	Yes
Lamp Replacement Reminder		Yes	Yes	Yes	Yes
Visual Lamp Life Remaining		Yes	Yes	Yes	Yes
Total Running Time		Yes	Yes	Yes	Yes
254nm UV Monitor		No	No	Yes	Yes
Solenoid Output (solenoid not incl.)		No	No	Yes	Yes
4-20 mA Output		N/A	N/A	Yes (optional 260134)	Yes (optional 260134)
Chamber Material		304 SS	304 SS	304 SS	304 SS
Filter Housing		one 10" and one 20" high flow	two 20" high flow	one 10" and one 20" high flow	two 20" high flow

[1.] **Flow rates stated @ 95% UVT EOL**
(flow rates based on UV system only, actual DWS system flow rates will vary and will be limited by the installed cartridge)

FLOW RATE (U.S. gpm) vs UV DOSE (FLUENCE) (mJ/cm²)

SC-320 & SCM-320

E. coli eradicated at 6.6 mJ/cm²

Cryptosporidium & Giardia lamblia eradicated at <10 mJ/cm²

1966 US Public Health — Manufacturers Standard — NSF/EPA Standard

Note: dosages based on 95% UVT at end of lamp life (EOL)

Note: 1 mJ/cm²=1,000 µWsec/cm²

Replacement Parts
- **S320RL-HO** - UV lamp for all systems
- **QS-320** - quartz sleeve for all systems
- **OR-212** - o-ring for quartz sleeves
- **RN-001** - aluminum gland-nut for all systems
- **BA-ICE-C** - controller (100-240V/50-60Hz) for SC models
- **BA-ICE-CM** - controller (100-240V/50-60Hz) for SCM models

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 filter housings, UV sensor, and a five year pro-rated warranty on all other components.

For further information please contact: