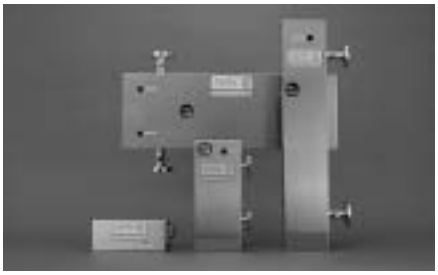
CSL-Series Ultraviolet Lights



SP, SL and MP-2 Series Ultraviolet Lights

ZCS Series

Ultraviolet Light Sterilizers

UV radiation can be used as a pretreatment or polishing step to destroy bacteria and to reduce total organics. Low pressure mercury discharge lamps are used to generate the UV energy, emitted at either 254 or 185 nm. The UV energy emitted at 254 nm is used as a non-chemical method for destroying microorganisms by altering the genetic material, and rendering them unable to reproduce. The shorter, and therefore more powerful 185 nm energy is used for the effective reduction of organics, commonly referred to as TOC (total oxidizable carbon).

The UV units are manufactured from 304 stainless steel. The UV light rays produced by each lamp efficiently pass through the quartz sleeves and into the surrounding liquid flowing through the UV treatment chamber. Stainless baffles are included in the treatment chamber to induce turbulence and prevent channeling, maximizing the exposure to ultraviolet radiation.

SPECIFICATIONS FOR ZCS SERIES 254nm ULTRAVIOLET STERILIZERS

Model Number		SP-1	SP-2	SL-10A	SL-1	MP-2-SL
Catalog Number		ZCSL00110	ZCSL00210	ZCSL00410	ZCSL01210	ZCSL02410
No of UV lamps		1	1	1	1	2
Max Design Flow (gpm)						
Clear water		1	2	3	10	20
RO/DI water		1	2	4	12	24
Standard Operating Press (psig)(8.3 bar)		120	120	120	120	120
Inlet/Outlet Connection		3/8" NPTF	3/8" NPTF	1/2"150# flange	1" 150# flange	1.5" 150# flange
Dimensions (LxWxH)	inch	14x4x5	14x4x5	10x6x19	14x7x38	38x7x21
	cm	36x9x13	36x9x13	26x16x48	36x17x97	97x18x53

Model Number		CSL-4R	CSL-6R	CSL-8R	CSL-12R
Catalog Number		ZCSL05010	ZCSL07810	ZCSL10010	ZCSL15610
No of UV lamps		4	6	8	12
Max Design Flow (gpm)					
Clear water		40	60	80	130
RO/DI water		50	78	100	156
Standard Operating Press (psig)(8.3 bar)		120	120	120	120
Inlet/Outlet Connection		2" 150# flange	2" 150# flange	3" 150# flange	3" 150# flange
Dimensions (LxWxH)	inch	41x11x21	41x11x21	45x12x28	45x12x28
	cm	104x28x53	104x28x53	104x28x53	114x33x67

UV STERILIZERS SPARE PARTS

Model Number	SP-1	SP-2	SL-10A	SL-1	MP-2-SL
Replacement Lamp 254nm (dual ended)	ZCSPL3010	ZCSPL3011	ZCSPL3050	ZCSPL3084	ZCSPL3084
Validated Lamp 254nm (dual ended)	—	—	ZCSPL16714	ZCSPL16676	ZCSPL16676
Replacement Magnetic Ballast	ZCSPB3318	ZCSPB3910	ZCSPB4035	ZCSPB4035	ZCSPB3354
Replacement Quartz Sleeve (dual ended)	ZCSPQ3110	ZCSPQ3110	ZCSPQ3150	ZCSPQ3184	ZCSPQ3184

Model Number	CSL-4R	CSL-6R	CSL-8R	CSL-12R
Replacement Lamp 254nm (dual ended)	ZCSPL3084	ZCSPL3084	ZCSPL3084	ZCSPL3084
Replacement Lamp 254 (single ended)	ZCSPL17491	ZCSPL17491	ZCSPL17491	ZCSPL17491
Validated Lamp 254nm (dual ended)	ZCSPL16676	ZCSPL16676	ZCSPL16676	ZCSPL16676
Validated Lamp 254nm (single ended)	ZCSPL18059	ZCSPL18059	ZCSPL18059	ZCSPL18059
Replacement Magnetic Ballast	ZCSPB3354	ZCSPB3354	ZCSPB3354	ZCSPB3354
Replacement Electronic Ballast	ZCSPB16518	ZCSPB16518	ZCSPB16518	ZCSPB16518
Replacement Quartz Sleeve (dual ended)	ZCSPQ3184	ZCSPQ3184	ZCSPQ3184	ZCSPQ3184
Replacement Quartz Sleeve (single ended)	ZCSPQ18347	ZCSPQ18347	ZCSPQ18347	ZCSPQ18347

NOTE: Thermistors, optical sensors, sanitary connections, ozone destruction, hot temperature units, light traps, and remote electrical controls are available. Please contact Technical Support for detailed information. Mating flanges are not supplied with units.